#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### Form 10-Q

×	QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
	For the quarterly period ended September 30, 2024
	or
	TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
	For the transition period from to

Commission File Number: 001-14965

### The Goldman Sachs Group, Inc.

(Exact name of registrant as specified in its charter)

Delaware 13-4019460

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)

200 West Street, New York, NY
10282
(Address of principal executive offices)
(Zip Code)

(212) 902-1000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol	Exchange on which registered
Common stock, par value \$.01 per share	GS	NYSE
Depositary Shares, Each Representing 1/1,000th Interest in a Share of Floating Rate Non-Cumulative Preferred Stock, Series A	GS PrA	NYSE
Depositary Shares, Each Representing 1/1,000th Interest in a Share of Floating Rate Non-Cumulative Preferred Stock, Series C	GS PrC	NYSE
Depositary Shares, Each Representing 1/1,000th Interest in a Share of Floating Rate Non-Cumulative Preferred Stock, Series D	GS PrD	NYSE
5.793% Fixed-to-Floating Rate Normal Automatic Preferred Enhanced Capital Securities of Goldman Sachs Capital II	GS/43PE	NYSE
Floating Rate Normal Automatic Preferred Enhanced Capital Securities of Goldman Sachs Capital III	GS/43PF	NYSE
Medium-Term Notes, Series F, Callable Fixed and Floating Rate Notes due March 2031 of GS Finance Corp.	GS/31B	NYSE
Medium-Term Notes, Series F, Callable Fixed and Floating Rate Notes due May 2031 of GS Finance Corp.	GS/31X	NYSE

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.  $\boxtimes$  Yes  $\square$  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (\$232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). ■ Yes □ No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	×	Accelerated filer $\square$	Non-accelerated filer □	Smaller reporting company	Emerging growth company $\Box$

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).  $\square$  Yes  $\boxtimes$  No

As of October 18, 2024, there were 313,909,821 shares of the registrant's common stock outstanding.

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# PART I. FINANCIAL INFORMATION Item 1. Financial Statements (Unaudited)

THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

# **Consolidated Statements of Earnings** (Unaudited)

		Three Months Ended September			lonths ptember		
in millions, except per share amounts	202		2023	2024	2023		
Revenues							
Investment banking	\$ 1,86	\$	1,555	\$ 5,682	\$ 4,565		
Investment management	2,649	)	2,409	7,673	7,054		
Commissions and fees	873	3	883	3,001	2,864		
Market making	4,009	5	4,958	14,222	14,742		
Other principal transactions	68		465	2,592	699		
Total non-interest revenues	10,07	5	10,270	33,170	29,924		
Interest income	21,44	3	18,257	61,443	50,031		
Interest expense	18,82		16,710	54,970	45,019		
Net interest income	2,62		1,547	6,473	5,012		
Total net revenues	12,699	)	11,817	39,643	34,936		
Provision for credit losses	39	,	7	997	451		
Operating expenses							
Compensation and benefits	4,12	2	4,188	12,947	11,897		
Transaction based	1,70	l	1,452	4,852	4,242		
Market development	159	)	136	465	454		
Communications and technology	498	3	468	1,468	1,416		
Depreciation and amortization	62	l	1,512	1,894	4,076		
Occupancy	243		267	733	785		
Professional fees	40		377	1,177	1,152		
Other expenses	572		654	1,970	1,978		
Total operating expenses	8,31	5	9,054	25,506	26,000		
Pre-tax earnings	3,98	,	2,756	13,140	8,485		
Provision for taxes	99	,	698	2,975	1,977		
Net earnings	2,99	)	2,058	10,165	6,508		
Preferred stock dividends	21		176	563	468		
Net earnings applicable to common shareholders	\$ 2,78	\$	1,882	\$ 9,602	\$ 6,040		
Earnings per common share							
Basic	\$ 8.52	2 \$	5.52	\$ 28.98	\$ 17.52		
Diluted	\$ 8.4	\$	5.47	\$ 28.64	\$ 17.39		
Average common shares							
Basic	324.		338.7	330.0	342.5		
Diluted	330.	3	343.9	335.3	347.4		

# **Consolidated Statements of Comprehensive Income** (Unaudited)

		Nine N Ended Se				
\$ in millions	_	2024	2023	2024		2023
Net earnings	\$	2,990	\$ 2,058	\$ 10,165	\$	6,508
Other comprehensive income/(loss) adjustments, net of tax:						
Currency translation		(25)	(16)	(3)		(59)
Debt valuation adjustment		(95)	328	(383)		(283)
Pension and postretirement liabilities		13	9	35		33
Available-for-sale securities		504	317	766		720
Other comprehensive income		397	638	415		411
Comprehensive income	\$	3,387	\$ 2,696	\$ 10,580	\$	6,919

The accompanying notes are an integral part of these consolidated financial statements.

# **Consolidated Balance Sheets** (Unaudited)

	As	of
	September	December
\$ in millions	2024	2023
Assets		
Cash and cash equivalents	\$ 154,689	\$ 241,577
Collateralized agreements:		
Securities purchased under agreements to resell (includes \$211,871 and \$223,543 at fair value)	212,156	223,805
Securities borrowed (includes <b>\$47,033</b> and \$44,930 at fair value)	204,783	199,420
Customer and other receivables (includes \$23 and \$23 at fair value)	144,921	132,495
Trading assets (at fair value and includes <b>\$136,863</b> and \$110,567 pledged as collateral)	601,265	477,510
Investments (includes \$103,509 and \$75,767 at fair value)	183,660	146,839
Loans (net of allowance of <b>\$4,752</b> and \$5,050, and includes <b>\$5,839</b> and \$6,506 at fair value)	191,749	183,358
Other assets (includes <b>\$256</b> and \$366 at fair value)	34,857	36,590
Total assets	\$ 1,728,080	\$ 1,641,594
Liabilities and shareholders' equity		
Deposits (includes <b>\$41,532</b> and \$29,460 at fair value)	\$ 445,311	\$ 428,417
Collateralized financings:	Ψ 443,311	Ψ 420,417
Securities sold under agreements to repurchase (at fair value)	261,617	249,887
Securities loaned (includes <b>\$10,667</b> and \$8,934 at fair value)	62,117	60,483
Other secured financings (includes <b>\$23,322</b> and \$12,554 at fair value)	23,508	13,194
Customer and other payables	250,355	230,728
Trading liabilities (at fair value)	215,191	200,726
Unsecured short-term borrowings (includes <b>\$53,157</b> and \$46,127 at fair value)	75,371	75,945
Unsecured long-term borrowings (includes \$96,223 and \$86,410 at fair value)	250,250	241,877
Other liabilities (includes <b>\$160</b> and \$266 at fair value)	23,160	23,803
Total liabilities	1,606,880	1,524,689
	1,000,000	1,024,009
Commitments, contingencies and guarantees		
Shareholders' equity		
Preferred stock; aggregate liquidation preference of <b>\$13,253</b> and \$11,203	13,253	11,203
Common stock; 927,497,312 and 922,895,030 shares issued, and 314,190,854 and 323,376,354 shares outstanding	9	9
Share-based awards	5,090	5,121
Nonvoting common stock; no shares issued and outstanding	_	_
Additional paid-in capital	61,372	60,247
Retained earnings	150,454	143,688
Accumulated other comprehensive loss	(2,503)	(2,918)
Stock held in treasury, at cost; <b>613,306,460</b> and 599,518,678 shares	(106,475)	(100,445)
Total shareholders' equity	121,200	116,905
Total liabilities and shareholders' equity	\$ 1,728,080	\$ 1,641,594

### THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES Consolidated Statements of Changes in Shareholders' Equity (Unaudited)

	Three I Ended Se	Nine Months Ended September			
\$ in millions	2024	2023	2024	2023	
Preferred stock					
Beginning balance	\$ 12,753	\$ 10,703	\$ 11,203	\$ 10,703	
Issued	2,000	1,500	4,250	1,500	
Redeemed	_,	(1,000)	(700)	(1,000)	
Redemption notice issued	(1,500)	-	(1,500)	-	
Ending balance	13,253	11,203	13,253	11,203	
Common stock		,	10,200	,	
Beginning balance	9	9	9	9	
Issued	_	_	_	_	
Ending balance	9	9	9	9	
Share-based awards					
Beginning balance	5,058	4,931	5,121	5,696	
Issuance and amortization of share-based awards	150	242	2,603	2,001	
Delivery of common stock underlying share-based awards	(48)	(15)	(2,482)	(2,501)	
Forfeiture of share-based awards	(70)	(41)	(152)	(79)	
Ending balance	5,090	5,117	5,090	5,117	
Additional paid-in capital		-,	.,	-,	
Beginning balance	61,350	60,206	60,247	59.050	
Delivery of common stock underlying share-based awards	52	30	2,472	2,527	
Cancellation of share-based awards in satisfaction of withholding tax requirements	(5)	(5)	(1,331)	(1,344)	
Preferred stock issuance costs	_	5	10	5	
Other	(25)	(3)	(26)	(5)	
Ending balance	61,372	60,233	61,372	60,233	
Retained earnings	· · · · · · · · · · · · · · · · · · ·	,	·		
Beginning balance	148,652	141,798	143,688	139,372	
Net earnings	2,990	2,058	10,165	6,508	
Dividends and dividend equivalents declared on common stock and share-based awards	(978)	(937)	(2,836)	(2,669)	
Dividends declared on preferred stock	(192)	(166)	(529)	(458)	
Preferred stock redemption premium	(18)	(10)	(34)	(10)	
Ending balance	150,454	142,743	150,454	142,743	
Accumulated other comprehensive income/(loss)					
Beginning balance	(2,900)	(3,237)	(2,918)	(3,010)	
Other comprehensive income	397	638	415	411	
Ending balance	(2,503)	(2,599)	(2,503)	(2,599)	
Stock held in treasury, at cost					
Beginning balance	(105,459)	(97,917)	(100,445)	(94,631)	
Repurchased	(1,000)	(1,500)	(6,000)	(4,796)	
Reissued	_	_	33	28	
Other	(16)	(12)	(63)	(30)	
Ending balance	(106,475)	(99,429)	(106,475)	(99,429)	
Total shareholders' equity	\$121,200	\$117,277	\$121,200	\$117,277	

# **Consolidated Statements of Cash Flows** (Unaudited)

	Nine Mo Ended Sep				
\$ in millions		2024		2023	
Cash flows from operating activities					
Net earnings	\$	10,165	\$	6,508	
Adjustments to reconcile net earnings to net cash provided by/(used for) operating activities					
Depreciation and amortization		1,894		4,076	
Deferred income taxes		(653)		(744)	
Share-based compensation		2,559		2,008	
Provision for credit losses		997		451	
Changes in operating assets and liabilities:					
Customer and other receivables and payables, net		7,543		(14,042)	
Collateralized transactions (excluding other secured financings), net		19,644		166,067	
Trading assets	(	112,931)	,	(146,672)	
Trading liabilities		13,100		1,654	
Loans held for sale, net		450		48	
Other, net		(2,746)		(3,583)	
Net cash provided by/(used for) operating activities		(59,978)		15,771	
Cash flows from investing activities					
Purchase of property, leasehold improvements and equipment		(1,505)		(1,770)	
Proceeds from sales of property, leasehold improvements and equipment		1,152		1,151	
Net cash received from/(used for) business dispositions or acquisitions		3,622		(8)	
Purchase of investments		(78,737)		(27,776)	
Proceeds from sales and paydowns of investments		45,030		13,834	
Loans (excluding loans held for sale), net		(12,071)		599	
Net cash used for investing activities		(42,509)	—	(13,970)	
Cash flows from financing activities		4 262		246	
Unsecured short-term borrowings, net Other secured financings (short-term), net		4,263 7,632		246 1,459	
Proceeds from issuance of other secured financings (long-term)		4,951		2,137	
Repayment of other secured financings (long-term), including the current portion		(1,592)		(2,221)	
Proceeds from issuance of unsecured long-term borrowings		49,465		28,854	
Repayment of unsecured long-term borrowings, including the current portion		(59,639)		(40,286)	
Derivative contracts with a financing element, net		1,739		2,145	
Deposits, net		15,152		15,870	
Preferred stock redemption		(700)		(1,000)	
Common stock repurchased		(6,000)		(4,796)	
Settlement of share-based awards in satisfaction of withholding tax requirements		(1,331)		(1,344)	
Dividends and dividend equivalents paid on common stock, preferred stock and share-based awards		(3,344)		(3,124)	
Proceeds from issuance of preferred stock, net of issuance costs		4,239		1,496	
Other financing, net		305		348	
Net cash provided by/(used for) financing activities		15,140		(216)	
Effect of exchange rate changes on cash and cash equivalents		459		(3,531)	
Net decrease in cash and cash equivalents		(86,888)		(1,946)	
Cash and cash equivalents, beginning balance		241,577		241,825	
Cash and cash equivalents, ending balance	\$	154,689		239,879	
Supplemental disclosures:					
Cash payments for interest, net of capitalized interest	\$	53,759	\$	43,186	
Cash payments for income taxes, net	\$	2,810	\$	1,815	
		_,	<u> </u>		

See Notes 9, 12, 16 and 19 for information about non-cash activities.

#### Note 1.

#### **Description of Business**

The Goldman Sachs Group, Inc. (Group Inc. or parent company), a Delaware corporation, together with its consolidated subsidiaries (collectively, the firm), is a leading global financial institution that delivers a broad range of financial services to a large and diversified client base that includes corporations, financial institutions, governments and individuals. Founded in 1869, the firm is headquartered in New York and maintains offices in all major financial centers around the world.

The firm manages and reports its activities in the following three business segments:

#### **Global Banking & Markets**

The firm provides a broad range of services to a diverse group of corporations, financial institutions, investment funds and governments. Services include strategic advisory assignments with respect to mergers and acquisitions, divestitures, corporate defense activities, restructurings and spin-offs, and equity and debt underwriting of public offerings and private placements. The firm facilitates client transactions and makes markets in fixed income, equity, currency and commodity products. In addition, the firm makes markets in and clears institutional client transactions on major stock, options and futures exchanges worldwide and provides prime financing (including securities lending, margin lending and swaps), portfolio financing and other types of equity financing (including securities-based loans to individuals). The firm also provides lending to corporate clients, including through relationship lending and acquisition financing, and secured lending, through structured credit and asset-backed lending. In addition, the firm provides commodity financing to clients through structured transactions and also provides financing through securities purchased under agreements to resell (resale agreements). The firm also makes equity and debt investments related to Global Banking & Markets activities.

#### **Asset & Wealth Management**

The firm manages assets and offers investment products across all major asset classes to a diverse set of clients, both institutional and individuals, including through a network of third-party distributors around the world. The firm also provides investing and wealth advisory solutions, including financial planning and counseling, and executing brokerage transactions for wealth management clients. The firm issues loans to wealth management clients and accepts deposits through its consumer banking digital platform, Marcus by Goldman Sachs (Marcus), and through its private bank. The firm makes equity investments, which include investing activities related to public and private equity investments in corporate, real estate and infrastructure assets, as well as investments through consolidated investment entities (CIEs), substantially all of which are engaged in real estate investment activities. The firm also invests in debt instruments and engages in lending activities to middlemarket clients, and provides financing for real estate and other assets.

#### **Platform Solutions**

The firm issues credit cards through partnership arrangements, accepts deposits from Apple Card customers and provides transaction banking and other services, such as deposit-taking, payment solutions and other cash management services, for corporate and institutional clients. The firm also has seller financing loans that were extended to small- and medium-sized retailers. See Note 9 for information about the General Motors (GM) credit card program and the firm's seller financing loans.

#### Note 2.

#### **Basis of Presentation**

These consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States (U.S. GAAP) and include the accounts of Group Inc. and all other entities in which the firm has a controlling financial interest. Intercompany transactions and balances have been eliminated.

These consolidated financial statements are unaudited and should be read in conjunction with the audited consolidated financial statements included in the firm's Annual Report on Form 10-K for the year ended December 31, 2023. References to "the 2023 Form 10-K" are to the firm's Annual Report on Form 10-K for the year ended December 31, 2023. Certain disclosures included in the annual financial statements have been condensed or omitted from these financial statements as they are not required for interim financial statements under U.S. GAAP and the rules of the SEC.

These unaudited consolidated financial statements reflect all adjustments that are, in the opinion of management, necessary for a fair statement of the results for the interim periods presented. These adjustments are of a normal, recurring nature. Interim period operating results may not be indicative of the operating results for a full year.

All references to September 2024, June 2024 and September 2023 refer to the firm's periods ended, or the dates, as the context requires, September 30, 2024, June 30, 2024 and September 30, 2023, respectively. All references to December 2023 refer to the date December 31, 2023. Any reference to a future year refers to a year ending on December 31 of that year. Certain reclassifications have been made to previously reported amounts to conform to the current presentation.

#### Note 3.

#### **Significant Accounting Policies**

The firm's significant accounting policies include when and how to measure the fair value of assets and liabilities, measuring the allowance for credit losses on loans and lending commitments accounted for at amortized cost, and when to consolidate an entity. See Note 4 for policies on fair value measurements, Note 9 for policies on the allowance for credit losses, and below and Note 17 for policies on consolidation accounting. All other significant accounting policies are either described below or included in the following footnotes:

Fair Value Measurements	Note 4
Fair Value Hierarchy	Note 5
Trading Assets and Liabilities	Note 6
Derivatives and Hedging Activities	Note 7
Investments	Note 8
Loans	Note 9
Fair Value Option	Note 10
Collateralized Agreements and Financings	Note 11
Other Assets	Note 12
Deposits	Note 13
Unsecured Borrowings	Note 14
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#### Consolidation

The firm consolidates entities in which the firm has a controlling financial interest. The firm determines whether it has a controlling financial interest in an entity by first evaluating whether the entity is a voting interest entity or a variable interest entity (VIE).

Voting Interest Entities. Voting interest entities are entities in which (i) the total equity investment at risk is sufficient to enable the entity to finance its activities independently and (ii) the equity holders have the power to direct the activities of the entity that most significantly impact its economic performance, the obligation to absorb the losses of the entity and the right to receive the residual returns of the entity. The usual condition for a controlling financial interest in a voting interest entity is ownership of a majority voting interest. If the firm has a controlling majority voting interest in a voting interest entity, the entity is consolidated.

Variable Interest Entities. A VIE is an entity that lacks one or more of the characteristics of a voting interest entity. The firm has a controlling financial interest in a VIE when the firm has a variable interest or interests that provide it with (i) the power to direct the activities of the VIE that most significantly impact the VIE's economic performance and (ii) the obligation to absorb losses of the VIE or the right to receive benefits from the VIE that could potentially be significant to the VIE. See Note 17 for further information about VIEs.

**Equity-Method Investments.** When the firm does not have a controlling financial interest in an entity but can exert significant influence over the entity's operating and financial policies, the investment is generally accounted for at fair value by electing the fair value option available under U.S. GAAP. Significant influence generally exists when the firm owns 20% to 50% of the entity's common stock or insubstance common stock.

In certain cases, the firm applies the equity method of accounting to new investments that are strategic in nature or closely related to the firm's principal business activities, when the firm has a significant degree of involvement in the cash flows or operations of the investee or when cost-benefit considerations are less significant. See Note 8 for further information about equity-method investments.

**Investment Funds.** The firm has formed investment funds with third-party investors. These funds are typically organized as limited partnerships or limited liability companies for which the firm acts as general partner or manager. Generally, the firm does not hold a majority of the economic interests in these funds. These funds are usually voting interest entities and generally are not consolidated because third-party investors typically have rights to terminate the funds or to remove the firm as general partner or manager. Investments in these funds are generally measured at net asset value (NAV) and are included in investments. See Notes 8, 18 and 22 for further information about investments in funds.

#### **Use of Estimates**

Preparation of these consolidated financial statements requires management to make certain estimates and assumptions, the most important of which relate to fair value measurements, the allowance for credit losses on loans and lending commitments accounted for at amortized cost, discretionary compensation accruals, accounting for goodwill and identifiable intangible assets, provisions for losses that may arise from litigation and regulatory proceedings (including governmental investigations), and accounting for income taxes. These estimates and assumptions are based on the best available information, but actual results could be materially different.

#### **Revenue Recognition**

Financial Assets and Liabilities at Fair Value. Trading assets and liabilities and certain investments are carried at fair value either under the fair value option or in accordance with other U.S. GAAP. In addition, the firm has elected to account for certain of its loans and other financial assets and liabilities at fair value by electing the fair value option. The fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Financial assets are marked to bid prices and financial liabilities are marked to offer prices. Fair value measurements do not include transaction costs. Fair value gains or losses are generally included in market making or other principal transactions. See Note 4 for further information about fair value measurements.

**Revenue from Contracts with Clients.** The firm recognizes revenue earned from contracts with clients for services, such as investment banking, investment management, and execution and clearing (contracts with clients), when the performance obligations related to the underlying transaction are completed.

from contracts with clients represent approximately 50% of total non-interest revenues for the ended months September 2024 (including approximately 85% of investment banking revenues, approximately 95% of investment management revenues and all commissions and fees) and approximately 45% of total non-interest revenues for the nine months ended September 2024 (including approximately 85% of investment banking revenues, approximately 95% of investment management revenues and all commissions and fees), and approximately 45% of total non-interest revenues for both the three and nine months ended September 2023 (including approximately 85% of investment banking revenues, approximately 95% of investment management revenues and all commissions and fees). See Note 25 for information about net revenues by business segment.

#### Investment Banking

**Advisory.** Fees from financial advisory assignments are recognized in revenues when the services related to the underlying transaction are completed under the terms of the assignment. Non-refundable deposits and milestone payments in connection with financial advisory assignments are recognized in revenues upon completion of the underlying transaction or when the assignment is otherwise concluded.

Expenses associated with financial advisory assignments are recognized when incurred and are included in transaction based expenses. Client reimbursements for such expenses are included in investment banking revenues.

**Underwriting.** Fees from underwriting assignments are recognized in revenues upon completion of the underlying transaction based on the terms of the assignment.

Expenses associated with underwriting assignments are generally deferred until the related revenue is recognized or the assignment is otherwise concluded. Such expenses are included in transaction based expenses for completed assignments.

#### **Investment Management**

The firm earns management fees and incentive fees for investment management services, which are included in investment management revenues. The firm makes payments to brokers and advisors related to the placement of the firm's investment funds (distribution fees), which are included in transaction based expenses.

Management Fees. Management fees for mutual funds are calculated as a percentage of daily NAV and are received monthly. Management fees for hedge funds are calculated as a percentage of month-end NAV and are generally received quarterly. Management fees for separately managed accounts are calculated as a percentage of either the daily or monthly NAV and are received quarterly. Management fees for private equity funds are calculated as a percentage of monthly invested capital or committed capital and are generally received quarterly, semi-annually or annually, depending on the fund. Management fees are recognized over time in the period the services are provided.

Distribution fees paid by the firm are calculated based on either a percentage of the management fee, the investment fund's NAV or the committed capital. Such fees are included in transaction based expenses.

**Incentive Fees.** Incentive fees are calculated as a percentage of a fund's or separately managed account's return, or excess return above a specified benchmark or other performance target. Incentive fees are generally based on investment performance over a twelve-month period or over the life of a fund. Fees that are based on performance over a twelve-month period are subject to adjustment prior to the end of the measurement period. For fees that are based on investment performance over the life of the fund, future investment underperformance may require fees previously distributed to the firm to be returned to the fund.

Incentive fees earned from a fund or separately managed account are recognized when it is probable that a significant reversal of such fees will not occur, which is generally when such fees are no longer subject to fluctuations in the market value of investments held by the fund or separately managed account. Therefore, incentive fees recognized during the period may relate to performance obligations satisfied in previous periods.

#### Commissions and Fees

The firm earns substantially all commissions and fees from executing and clearing client transactions on stock, options and futures markets, as well as over-the-counter (OTC) transactions. Commissions and fees are recognized on the day the trade is executed. The firm also provides third-party research services to clients in connection with certain soft-dollar arrangements. Third-party research costs incurred by the firm in connection with such arrangements are presented net within commissions and fees.

#### Remaining Performance Obligations

Remaining performance obligations are services that the firm has committed to perform in the future in connection with its contracts with clients. The firm's remaining performance obligations are generally related to its financial advisory assignments and certain investment management activities. Revenues associated with remaining performance obligations relating to financial advisory assignments cannot be determined until the outcome of the transaction. For the firm's investment management activities, where fees are calculated based on the NAV of the fund or separately managed account, future revenues associated with such remaining performance obligations cannot be determined as such fees are subject to fluctuations in the market value of investments held by the fund or separately managed account.

The firm is able to determine the future revenues associated with management fees calculated based on committed capital. As of September 2024, substantially all future net revenues associated with such remaining performance obligations will be recognized through 2032. Annual revenues associated with such performance obligations average less than \$300 million through 2032.

#### **Transfers of Financial Assets**

Transfers of financial assets are accounted for as sales when the firm has relinquished control over the assets transferred. For transfers of financial assets accounted for as sales, any gains or losses are recognized in net revenues. Assets or liabilities that arise from the firm's continuing involvement with transferred financial assets are initially recognized at fair value. For transfers of financial assets that are not accounted for as sales, the assets are generally included in trading assets and the transfer is accounted for as a collateralized financing, with the related interest expense recognized over the life of the transaction. See Note 11 for further information about transfers of financial assets accounted for as collateralized financings and Note 16 for further information about transfers of financial assets accounted for as sales.

#### **Cash and Cash Equivalents**

The firm defines cash equivalents as highly liquid overnight deposits held in the ordinary course of business. Cash and cash equivalents included cash and due from banks of \$6.32 billion as of September 2024 and \$7.93 billion as of December 2023. Cash and cash equivalents also included interest-bearing deposits with banks of \$148.37 billion as of September 2024 and \$233.65 billion as of December 2023.

The firm segregates cash for regulatory and other purposes related to client activity. Cash and cash equivalents segregated for regulatory and other purposes were \$14.65 billion as of September 2024 and \$17.08 billion as of December 2023. In addition, the firm segregates securities for regulatory and other purposes related to client activity. See Note 11 for further information about segregated securities.

#### **Customer and Other Receivables**

Customer and other receivables included receivables from customers and counterparties of \$94.20 billion as of September 2024 and \$90.16 billion as of December 2023, and receivables from brokers, dealers and clearing organizations of \$50.72 billion as of September 2024 and \$42.33 billion as of December 2023. Such receivables primarily consist of customer margin loans, collateral posted in connection with certain derivative transactions, and receivables resulting from unsettled transactions.

Substantially all of these receivables are accounted for at amortized cost net of any allowance for credit losses, which generally approximates fair value. As these receivables are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these receivables been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both September 2024 and December 2023. See Note 10 for further information about customer and other receivables accounted for at fair value under the fair value option. Interest on customer and other receivables is recognized over the life of the transaction and included in interest income.

Customer and other receivables includes receivables from contracts with clients and contract assets. Contract assets represent the firm's right to receive consideration for services provided in connection with its contracts with clients for which collection is conditional and not merely subject to the passage of time. The firm's receivables from contracts with clients were \$3.86 billion as of September 2024 and \$3.59 billion as of December 2023. As of both September 2024 and December 2023, contract assets were not material.

#### **Customer and Other Payables**

Customer and other payables included payables to customers and counterparties of \$232.91 billion as of September 2024 and \$220.71 billion as of December 2023, and payables to brokers, dealers and clearing organizations of \$17.45 billion as of September 2024 and \$10.02 billion as of December 2023. Such payables primarily consist of customer credit balances related to the firm's prime brokerage activities. Customer and other payables are accounted for at cost plus accrued interest, which generally approximates fair value. As these payables are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these payables been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both September 2024 and December 2023. Interest on customer and other payables is recognized over the life of the transaction and included in interest expense.

#### Offsetting Assets and Liabilities

To reduce credit exposures on derivatives and securities financing transactions, the firm may enter into master netting agreements or similar arrangements (collectively, netting agreements) with counterparties that permit it to offset receivables and payables with such counterparties. A netting agreement is a contract with a counterparty that permits net settlement of multiple transactions with that counterparty, including upon the exercise of termination rights by a nondefaulting party. Upon exercise of such termination rights, all transactions governed by the netting agreement are terminated and a net settlement amount is calculated. In addition, the firm receives and posts cash and securities collateral with respect to its derivatives and securities financing transactions, subject to the terms of the related credit support agreements or similar arrangements (collectively, credit support agreements). An enforceable credit support agreement grants the non-defaulting party exercising termination rights the right to liquidate the collateral and apply the proceeds to any amounts owed. In order to assess enforceability of the firm's right of setoff under netting and credit support agreements, the firm evaluates various factors, including applicable bankruptcy laws, local statutes and regulatory provisions in the jurisdiction of the parties to the agreement.

Derivatives are reported on a net-by-counterparty basis (i.e., the net payable or receivable for derivative assets and liabilities for a given counterparty) in the consolidated balance sheets when a legal right of setoff exists under an enforceable netting agreement. Resale agreements and securities sold under agreements to repurchase (repurchase agreements) and securities borrowed and loaned transactions with the same settlement date are presented on a net-by-counterparty basis in the consolidated balance sheets when such transactions meet certain settlement criteria and are subject to netting agreements.

In the consolidated balance sheets, derivatives are reported net of cash collateral received and posted under enforceable credit support agreements, when transacted under an enforceable netting agreement. In the consolidated balance sheets, resale and repurchase agreements, and securities borrowed and loaned, are not reported net of the related cash and securities received or posted as collateral. See Note 11 for further information about collateral received and pledged, including rights to deliver or repledge collateral. See Notes 7 and 11 for further information about offsetting assets and liabilities.

#### **Share-Based Compensation**

The cost of employee services received in exchange for a share-based award is generally measured based on the grant-date fair value of the award. Share-based awards that do not require future service (i.e., vested awards, including awards granted to retirement-eligible employees) are expensed immediately. Share-based awards that require future service are amortized over the relevant service period. Forfeitures are recorded when they occur.

Cash dividend equivalents paid on restricted stock units (RSUs) are generally charged to retained earnings. If RSUs that require future service are forfeited, the related dividend equivalents originally charged to retained earnings are reclassified to compensation expense in the period in which forfeiture occurs.

The firm generally issues new shares of common stock upon delivery of share-based awards. In limited cases, as outlined in the applicable award agreements, the firm may cash settle share-based compensation awards accounted for as equity instruments. For these awards, additional paid-in capital is adjusted to the extent of the difference between the value of the award at the time of cash settlement and the grant-date value of the award. The tax effect related to the settlement of share-based awards and payments of dividend equivalents is recorded in income tax benefit or expense.

#### **Foreign Currency Translation**

Assets and liabilities denominated in non-U.S. currencies are translated at rates of exchange prevailing on the date of the consolidated balance sheets and revenues and expenses are translated at average rates of exchange for the period. Foreign currency remeasurement gains or losses on transactions in nonfunctional currencies are recognized in earnings. Gains or losses on translation of the financial statements of a non-U.S. operation, when the functional currency is other than the U.S. dollar, are included, net of hedges and taxes, in the consolidated statements of comprehensive income.

#### **Recent Accounting Developments**

**Troubled Debt Restructurings and Vintage Disclosures** (ASC 326). In March 2022, the FASB issued ASU No. 2022-02, "Financial Instruments — Credit Losses (Topic 326) — Troubled Debt Restructurings and Vintage Disclosures." This ASU eliminates the recognition and measurement guidance for troubled debt restructurings and requires enhanced disclosures about loan modifications for borrowers experiencing financial difficulty. This ASU also requires enhanced disclosure for loans that have been charged off. This ASU became effective for the firm in January 2023 under a prospective approach. Adoption of this ASU did not have a material impact on the firm's consolidated financial statements.

Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions (ASC 820). In June 2022, the FASB issued ASU No. 2022-03, "Fair Value Measurement of Equity Securities Subject to Contractual Sale Restrictions." This ASU clarifies that a contractual restriction on the sale of an equity security should not be considered in measuring its fair value. In addition, the ASU requires specific disclosures related to equity securities that are subject to contractual sale restrictions. This ASU became effective for the firm in January 2024 under a prospective approach. Adoption of this ASU did not have a material impact on the firm's consolidated financial statements.

Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method (ASC 323). In March 2023, the FASB issued ASU No. 2023-02, "Investments — Equity Method and Joint Ventures (Topic 323) — Accounting for Investments in Tax Credit Structures Using the Proportional Amortization Method." This ASU expands the proportional amortization method election currently associated with low-income housing tax credits to other qualifying tax credits and requires incremental disclosures for programs in which the proportional amortization method is elected. This ASU became effective for the firm in January 2024 under a modified retrospective approach. Adoption of this ASU did not have a material impact on the firm's consolidated financial statements.

**Improvements to Reportable Segment Disclosures** (ASC 280). In November 2023, the FASB issued ASU No. 2023-07, "Improvements to Reportable Segment Disclosures." This ASU requires enhanced disclosures primarily about significant segment expenses that are regularly provided to the chief operating decision maker. This ASU is effective for the firm for annual periods beginning in January 2024, and interim periods beginning in January 2025 under a retrospective approach. Early adoption is permitted. Since this ASU only requires additional disclosures, adoption of this ASU will not have an impact on the firm's financial condition, results of operations or cash flows.

Improvements to Income Tax Disclosures (ASC 740). In December 2023, the FASB issued ASU No. 2023-09, "Improvements to Income Tax Disclosures." This ASU requires incremental disclosures primarily related to the reconciliation of the statutory income tax rate to the effective income tax rate, as well as income taxes paid. This ASU is effective for the firm for annual periods beginning in January 2025 under a prospective approach with the option to apply it retrospectively. Early adoption is permitted. Since this ASU only requires additional disclosures, adoption of this ASU will not have an impact on the firm's financial condition, results of operations or cash flows.

#### Note 4.

#### **Fair Value Measurements**

The fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Financial assets are marked to bid prices and financial liabilities are marked to offer prices. Fair value measurements do not include transaction costs. The firm measures certain financial assets and liabilities as a portfolio (i.e., based on its net exposure to market and/or credit risks).

The best evidence of fair value is a quoted price in an active market. If quoted prices in active markets are not available, fair value is determined by reference to prices for similar instruments, quoted prices or recent transactions in less active markets, or internally developed models that primarily use market-based or independently sourced inputs, including, but not limited to, interest rates, volatilities, equity or debt prices, foreign exchange rates, commodity prices, credit spreads and funding spreads (i.e., the spread or difference between the interest rate at which a borrower could finance a given financial instrument relative to a benchmark interest rate).

U.S. GAAP has a three-level hierarchy for disclosure of fair value measurements. This hierarchy prioritizes inputs to the valuation techniques used to measure fair value, giving the highest priority to level 1 inputs and the lowest priority to level 3 inputs. A financial instrument's level in this hierarchy is based on the lowest level of input that is significant to its fair value measurement. In evaluating the significance of a valuation input, the firm considers, among other factors, a portfolio's net risk exposure to that input. The fair value hierarchy is as follows:

**Level 1.** Inputs are unadjusted quoted prices in active markets to which the firm had access at the measurement date for identical, unrestricted assets or liabilities.

**Level 2.** Inputs to valuation techniques are observable, either directly or indirectly.

**Level 3.** One or more inputs to valuation techniques are significant and unobservable.

The fair values for substantially all of the firm's financial assets and liabilities are based on observable prices and inputs and are classified in levels 1 and 2 of the fair value hierarchy. Certain level 2 and level 3 financial assets and liabilities may require valuation adjustments that a market participant would require to arrive at fair value for factors, such as counterparty and the firm's credit quality, funding risk, transfer restrictions, liquidity and bid/offer spreads. Valuation adjustments are generally based on market evidence.

The table below presents financial assets and liabilities carried at fair value.

	As of					
	S	eptember		June	[	December
\$ in millions		2024		2024		2023
Total level 1 financial assets	\$	455,552	\$	377,063	\$	332,549
Total level 2 financial assets		534,214		505,686		519,130
Total level 3 financial assets		22,523		23,079		25,100
Investments in funds at NAV		2,411		2,617		3,000
Counterparty and cash collateral netting		(44,904)		(49,129)		(51,134)
Total financial assets at fair value	\$	969,796	\$	859,316	\$	828,645
Total assets	\$ 1	1,728,080	\$ ^	,653,313	\$ 1	1,641,594
Total level 3 financial assets divided Total assets Total financial assets at fair value	d by	/: 1.3% 2.3%		1.4% 2.7%		1.5% 3.0%
Total level 1 financial liabilities Total level 2 financial liabilities Total level 3 financial liabilities Counterparty and cash collateral netting Total financial liabilities at fair value	\$	120,364 592,493 26,666 (37,654) 701,869	\$	114,927 541,665 26,694 (41,720) 641,566		125,715 523,709 28,704 (44,135) 633,993
Total Intariolal Radineros de lan Varia	Ť	701,000	Ψ	011,000	Ψ	000,000
Total liabilities	\$ 1	1,606,880	\$ 1	,533,850	\$ 1	1,524,689
<b>Total level 3 financial liabilities divi</b> Total liabilities Total financial liabilities at fair value	ded	by: 1.7% 3.8%		1.7% 4.2%		1.9% 4.5%
				/0	_	

In the table above:

- Counterparty netting among positions classified in the same level is included in that level.
- Counterparty and cash collateral netting represents the impact on derivatives of netting across levels.

The table below presents a summary of level 3 financial assets.

	As of								
	September June				December				
\$ in millions		2024		2024		2023			
Trading assets:									
Trading cash instruments	\$	1,289	\$	1,553	\$	1,791			
Derivatives		5,050		5,014		5,161			
Investments		15,389		15,702		17,138			
Loans		612		636		823			
Other assets		183		174		187			
Total	\$	22,523	\$	23,079	\$	25,100			

Level 3 financial assets as of September 2024 decreased compared with both June 2024 and December 2023, primarily reflecting a decrease in level 3 investments and trading cash instruments. See Note 5 for further information about level 3 financial assets (including information about unrealized gains and losses related to level 3 financial assets and transfers into and out of level 3).

The valuation techniques and nature of significant inputs used to determine the fair value of the firm's financial instruments are described below. See Note 5 for further information about significant unobservable inputs used to value level 3 financial instruments.

### Valuation Techniques and Significant Inputs for Trading Cash Instruments, Investments and Loans

**Level 1.** Level 1 instruments include U.S. government obligations, most non-U.S. government obligations, certain agency obligations, certain corporate debt instruments, certain money market instruments and actively traded listed equities. These instruments are valued using quoted prices for identical unrestricted instruments in active markets. The firm defines active markets for equity instruments based on the average daily trading volume both in absolute terms and relative to the market capitalization for the instrument. The firm defines active markets for debt instruments based on both the average daily trading volume and the number of days with trading activity.

**Level 2**. Level 2 instruments include certain non-U.S. government obligations, most agency obligations, most mortgage-backed loans and securities, most corporate debt instruments, most state and municipal obligations, most money market instruments, most other debt obligations, restricted or less liquid listed equities, certain private equities, commodities and certain lending commitments.

Valuations of level 2 instruments can be verified to quoted prices, recent trading activity for identical or similar instruments, broker or dealer quotations or alternative pricing sources with reasonable levels of price transparency. Consideration is given to the nature of the quotations (e.g., indicative or executable) and the relationship of recent market activity to the prices provided from alternative pricing sources.

Valuation adjustments are typically made to level 2 instruments (i) if the instrument is subject to transfer restrictions and/or (ii) for other premiums and liquidity discounts that a market participant would require to arrive at fair value. Valuation adjustments are generally based on market evidence.

**Level 3**. Level 3 instruments have one or more significant valuation inputs that are not observable. Absent evidence to the contrary, level 3 instruments are initially valued at transaction price, which is considered to be the best initial estimate of fair value. Subsequently, the firm uses other methodologies to determine fair value, which vary based on the type of instrument. Valuation inputs and assumptions are changed when corroborated by substantive observable evidence, including values realized on sales.

Valuation techniques of level 3 instruments vary by instrument, but are generally based on discounted cash flow techniques. The valuation techniques and the nature of significant inputs used to determine the fair values of each type of level 3 instrument are described below:

### Loans and Securities Backed by Commercial Real Estate

Loans and securities backed by commercial real estate are directly or indirectly collateralized by a single property or a portfolio of properties, and may include tranches of varying levels of subordination. Significant inputs are generally determined based on relative value analyses and include:

- Market yields implied by transactions of similar or related assets and/or current levels and changes in market indices, such as the CMBX (an index that tracks the performance of commercial mortgage bonds);
- Transaction prices in both the underlying collateral and instruments with the same or similar underlying collateral;
- A measure of expected future cash flows in a default scenario (recovery rates) implied by the value of the underlying collateral, which is mainly driven by current performance of the underlying collateral and capitalization rates. Recovery rates are expressed as a percentage of notional or face value of the instrument and reflect the benefit of credit enhancements on certain instruments; and
- Timing of expected future cash flows (duration) which, in certain cases, may incorporate the impact of any loan forbearances and other unobservable inputs (e.g., prepayment speeds).

### Loans and Securities Backed by Residential Real Estate

Loans and securities backed by residential real estate are directly or indirectly collateralized by portfolios of residential real estate and may include tranches of varying levels of subordination. Significant inputs are generally determined based on relative value analyses, which incorporate comparisons to instruments with similar collateral and risk profiles. Significant inputs include:

- Market yields implied by transactions of similar or related assets;
- Transaction prices in both the underlying collateral and instruments with the same or similar underlying collateral; and
- Duration, driven by underlying loan prepayment speeds and residential property liquidation timelines.

#### **Corporate Debt Instruments**

Corporate debt instruments includes corporate loans, debt securities and convertible debentures. Significant inputs for corporate debt instruments are generally determined based on relative value analyses, which incorporate comparisons both to prices of credit default swaps that reference the same or similar underlying instrument or entity and to other debt instruments for the same or similar issuer for which observable prices or broker quotations are available. Significant inputs include:

- Market yields implied by transactions of similar or related assets and/or current levels and trends of market indices, such as the CDX (an index that tracks the performance of corporate credit);
- Current performance and recovery assumptions and, where the firm uses credit default swaps to value the related instrument, the cost of borrowing the underlying reference obligation;
- Duration; and
- Market and transaction multiples for corporate debt instruments with convertibility or participation options.

#### **Equity Securities**

Equity securities consists of private equities. Recent thirdparty completed or pending transactions (e.g., merger proposals, debt restructurings, tender offers) are considered the best evidence for any change in fair value. When these are not available, the following valuation methodologies are used, as appropriate:

- Industry multiples (primarily EBITDA and revenue multiples) and public comparables;
- Transactions in similar instruments;
- Discounted cash flow techniques; and
- Third-party appraisals.

The firm also considers changes in the outlook for the relevant industry and financial performance of the issuer as compared to projected performance. Significant inputs include:

- Market and transaction multiples;
- Discount rates and capitalization rates; and
- For equity securities with debt-like features, market yields implied by transactions of similar or related assets, current performance and recovery assumptions, and duration.

### Other Trading Cash Instruments, Investments and Loans

The significant inputs to the valuation of other trading cash instruments, investments and loans are generally determined based on relative value analyses, which incorporate comparisons both to prices of credit default swaps that reference the same or similar underlying instrument or entity and to other debt instruments for the same issuer for which observable prices or broker quotations are available. Significant inputs include:

- Market yields implied by transactions of similar or related assets and/or current levels and trends of market indices;
- Current performance and recovery assumptions and, where the firm uses credit default swaps to value the related instrument, the cost of borrowing the underlying reference obligation; and
- Duration.

### Valuation Techniques and Significant Inputs for Derivatives

The firm's level 2 and level 3 derivatives are valued using derivative pricing models (e.g., discounted cash flow models, correlation models and models that incorporate option pricing methodologies, such as Monte Carlo simulations). Price transparency of derivatives can generally be characterized by product type, as described below.

- Interest Rate. In general, the key inputs used to value interest rate derivatives are transparent, even for most long-dated contracts. Interest rate swaps and options denominated in the currencies of leading industrialized nations are characterized by high trading volumes and tight bid/offer spreads. Interest rate derivatives that reference indices, such as an inflation index, or the shape of the yield curve (e.g., 10-year swap rate vs. 2-year swap rate) are more complex, but the key inputs are generally observable.
- **Credit.** Price transparency for credit default swaps, including both single names and baskets of credits, varies by market and underlying reference entity or obligation. Credit default swaps that reference indices, large corporates and major sovereigns generally exhibit the most price transparency. For credit default swaps with other underliers, price transparency varies based on credit rating, the cost of borrowing the underlying reference obligations, and the availability of the underlying reference obligations for delivery upon the default of the issuer. Credit default swaps that reference loans, asset-backed securities and emerging market debt instruments tend to have less price transparency than those that reference corporate bonds. In addition, more complex credit derivatives, such as those sensitive to the correlation between two or more underlying reference obligations, generally have less price transparency.

- **Currency**. Prices for currency derivatives based on the exchange rates of leading industrialized nations, including those with longer tenors, are generally transparent. The primary difference between the price transparency of developed and emerging market currency derivatives is that emerging markets tend to be only observable for contracts with shorter tenors.
- **Commodity.** Commodity derivatives include transactions referenced to energy (e.g., oil, natural gas and electricity), metals (e.g., precious and base) and soft commodities (e.g., agricultural). Price transparency varies based on the underlying commodity, delivery location, tenor and product quality (e.g., diesel fuel compared to unleaded gasoline). In general, price transparency for commodity derivatives is greater for contracts with shorter tenors and contracts that are more closely aligned with major and/or benchmark commodity indices.
- Equity. Price transparency for equity derivatives varies by market and underlier. Options on indices and the common stock of corporates included in major equity indices exhibit the most price transparency. Equity derivatives generally have observable market prices, except for contracts with long tenors or reference prices that differ significantly from current market prices. More complex equity derivatives, such as those sensitive to the correlation between two or more individual stocks, generally have less price transparency.

Liquidity is essential to the observability of all product types. If transaction volumes decline, previously transparent prices and other inputs may become unobservable. Conversely, even highly structured products may at times have trading volumes large enough to provide observability of prices and other inputs.

**Level 1.** Level 1 derivatives include short-term contracts for future delivery of securities when the underlying security is a level 1 instrument, and exchange-traded derivatives if they are actively traded and are valued at their quoted market price.

**Level 2.** Level 2 derivatives include OTC derivatives for which all significant valuation inputs are corroborated by market evidence and exchange-traded derivatives that are not actively traded and/or that are valued using models that calibrate to market-clearing levels of OTC derivatives.

The selection of a particular model to value a derivative depends on the contractual terms of and specific risks inherent in the instrument, as well as the availability of pricing information in the market. For derivatives that trade in liquid markets, model selection does not involve significant management judgment because outputs of models can be calibrated to market-clearing levels.

Valuation models require a variety of inputs, such as contractual terms, market prices, yield curves, discount rates (including those derived from interest rates on collateral received and posted as specified in credit support agreements for collateralized derivatives), credit curves, measures of volatility, prepayment rates, loss severity rates and correlations of such inputs. Significant inputs to the valuations of level 2 derivatives can be verified to market transactions, broker or dealer quotations or other alternative pricing sources with reasonable levels of price transparency. Consideration is given to the nature of the quotations (e.g., indicative or executable) and the relationship of recent market activity to the prices provided from alternative pricing sources.

**Level 3**. Level 3 derivatives are valued using models which utilize observable level 1 and/or level 2 inputs, as well as unobservable level 3 inputs. The significant unobservable inputs used to value the firm's level 3 derivatives are described below.

- For level 3 interest rate and currency derivatives, significant unobservable inputs include correlations of certain currencies and interest rates (e.g., the correlation between Euro inflation and Euro interest rates) and specific interest rate and currency volatilities.
- For level 3 credit derivatives, significant unobservable inputs include illiquid credit spreads and upfront credit points, which are unique to specific reference obligations and reference entities, and recovery rates.
- For level 3 commodity derivatives, significant unobservable inputs include volatilities for options with strike prices that differ significantly from current market prices and prices or spreads for certain products for which the product quality or physical location of the commodity is not aligned with benchmark indices.
- For level 3 equity derivatives, significant unobservable inputs generally include equity volatility inputs for options that are long-dated and/or have strike prices that differ significantly from current market prices. In addition, the valuation of certain structured trades requires the use of level 3 correlation inputs, such as the correlation of the price performance of two or more individual stocks or the correlation of the price performance for a basket of stocks to another asset class, such as commodities.

Subsequent to the initial valuation of a level 3 derivative, the firm updates the level 1 and level 2 inputs to reflect observable market changes and any resulting gains and losses are classified in level 3. Level 3 inputs are changed when corroborated by evidence, such as similar market transactions, third-party pricing services and/or broker or dealer quotations or other empirical market data. In circumstances where the firm cannot verify the model value by reference to market transactions, it is possible that a different valuation model could produce a materially different estimate of fair value. See Note 5 for further information about significant unobservable inputs used in the valuation of level 3 derivatives.

**Valuation Adjustments.** Valuation adjustments are integral to determining the fair value of derivative portfolios and are used to adjust the mid-market valuations produced by derivative pricing models to the exit price valuation. These adjustments incorporate bid/offer spreads, the cost of liquidity, and credit and funding valuation adjustments, which account for the credit and funding risk inherent in the uncollateralized portion of derivative portfolios. The firm also makes funding valuation adjustments to collateralized derivatives where the terms of the agreement do not permit the firm to deliver or repledge collateral received. Market-based inputs are generally used when calibrating valuation adjustments to market-clearing levels.

In addition, for derivatives that include significant unobservable inputs, the firm makes model or exit price adjustments to account for the valuation uncertainty present in the transaction.

### Valuation Techniques and Significant Inputs for Other Financial Assets and Liabilities at Fair Value

In addition to trading cash instruments, derivatives, and certain investments and loans, the firm accounts for certain of its other financial assets and liabilities at fair value under the fair value option. Such instruments include repurchase agreements and substantially all resale agreements; certain securities borrowed and loaned transactions; certain customer and other receivables, including certain margin loans; certain time deposits, including structured certificates of deposit, which are hybrid financial instruments; substantially all other secured financings, including transfers of assets accounted for as financings; certain unsecured shortand long-term borrowings, substantially all of which are hybrid financial instruments; and certain other assets and liabilities. These instruments are generally valued based on discounted cash flow techniques, which incorporate inputs with reasonable levels of price transparency, and are generally classified in level 2 because the inputs are observable. Valuation adjustments may be made for liquidity and for counterparty and the firm's credit quality. The significant inputs used to value the firm's other financial assets and liabilities are described below.

Resale and Repurchase Agreements and Securities Borrowed and Loaned. The significant inputs to the valuation of resale and repurchase agreements and securities borrowed and loaned are funding spreads, the amount and timing of expected future cash flows and interest rates.

**Customer and Other Receivables.** The significant inputs to the valuation of receivables are interest rates, the amount and timing of expected future cash flows and funding spreads.

**Deposits.** The significant inputs to the valuation of time deposits are interest rates and the amount and timing of future cash flows. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the firm's other derivative instruments described above. See Note 7 for further information about derivatives and Note 13 for further information about deposits.

**Other Secured Financings.** The significant inputs to the valuation of other secured financings are the amount and timing of expected future cash flows, interest rates, funding spreads and the fair value of the collateral delivered by the firm (determined using the amount and timing of expected future cash flows, market prices, market yields and recovery assumptions). See Note 11 for further information about other secured financings.

Unsecured Short- and Long-Term Borrowings. The significant inputs to the valuation of unsecured short- and long-term borrowings are the amount and timing of expected future cash flows, interest rates, the credit spreads of the firm and commodity prices for prepaid commodity transactions. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the firm's other derivative instruments described above. See Note 7 for further information about derivatives and Note 14 for further information about borrowings.

**Other Assets and Liabilities.** The significant inputs to the valuation of other assets and liabilities are the amount and timing of expected future cash flows, interest rates, market yields, volatility and correlation inputs. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the firm's other derivative instruments described above. See Note 7 for further information about derivatives.

#### Note 5.

\$ in millions

#### Fair Value Hierarchy

Financial assets and liabilities at fair value includes trading cash instruments, derivatives, and certain investments, loans and other financial assets and liabilities at fair value.

#### **Trading Cash Instruments**

**Fair Value by Level.** The table below presents trading cash instruments by level within the fair value hierarchy.

Level 1

Level 2 Level 3

Total

<del>• • • • • • • • • • • • • • • • • • • </del>	201011		L0 V 01 Z	_	-0.0.0		10101
As of September 2024							
Assets							
Government and agency obligation							
U.S.	\$ 161,275	\$	75,930	\$	-	\$	237,205
Non-U.S.	70,884		28,050		14		98,948
Loans and securities backed by:							
Commercial real estate	-		1,638		86		1,724
Residential real estate	-		10,166		117		10,283
Corporate debt instruments	192		49,018		821		50,031
State and municipal obligations	-		1,037		1		1,038
Other debt obligations	-		2,449		75		2,524
Equity securities	143,692		1,016		175		144,883
Commodities	_		5,306		_		5,306
Total	\$ 376,043	\$	174,610	\$	1,289	\$	551,942
Liabilities							
Government and agency obligation	one:						
U.S.	\$ (21,758)	•	(73)	¢		¢	(21,831)
Non-U.S.	(49,627)		(2,454)	φ	(4)	φ	(52,085)
Loans and securities backed by:	(43,027)		(2,434)		(4)		(32,003)
Commercial real estate			(33)				(33)
Residential real estate			(6)				(6)
Corporate debt instruments	(1)		(25,387)		(71)		(25,459)
•	(48,927)		(104)		(31)		(49,062)
Equity securities	(40,927)				(31)		
Commodities  Total	\$(120,313)	٠.	(19)	4	(106)	4	(19 <u>)</u> (148,495)
10441	ψ(1Εσ/σ1σ)	Ψ	(20,070)	Ÿ	(100)	Ψ,	(1.0,.00)
As of December 2023							
Assets							
Government and agency obligation	ons:						
U.S.	\$ 85,190	\$	58,862	\$	_	\$	144,052
Non-U.S.	61,981		25,702		91		87,774
Loans and securities backed by:							
Commercial real estate	_		916		45		961
Residential real estate	_		8,940		99		9,039
Corporate debt instruments	177		37,883		1,415		39,475
State and municipal obligations	_		371		_		371
Other debt obligations	80		2,086		37		2,203
Equity securities	135,032		1,739		103		136,874
Commodities	_		5,640		1		5,641
Total	\$ 282,460	\$	142,139	\$	1,791	\$	426,390
1. 1.000							
Liabilities							
Government and agency obligation		Φ.	(00)	Φ		Φ.	(00.400)
U.S.	\$ (26,400)		(32)	Ъ	_	\$	(26,432)
Non-U.S.	(50,825)		(2,343)		_		(53,168)
Loans and securities backed by:			(07)				(07)
Commercial real estate	_		(27)		-		(27)
Residential real estate			(5)		(70)		(5)
Corporate debt instruments	(124)		(15,317)		(70)		(15,511)
Equity securities	(48,347)		(37)		(8)		(48,392)
Commodities	-	-	(66)	_			(66)
Total	\$(125,696)	\$	(17,827)	\$	(78)	\$	(143,601)

Trading cash instruments consists of instruments held in connection with the firm's market-making or risk management activities. These instruments are carried at fair value and the related fair value gains and losses are recognized in the consolidated statements of earnings.

#### In the table above:

- Assets are shown as positive amounts and liabilities are shown as negative amounts.
- Corporate debt instruments includes corporate loans, debt securities, convertible debentures, prepaid commodity transactions and transfers of assets accounted for as secured loans rather than purchases.
- Other debt obligations includes other asset-backed securities and money market instruments.
- Equity securities includes public equities and exchangetraded funds.

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of trading cash instruments.

**Significant Unobservable Inputs.** The table below presents the amount of level 3 trading cash instrument assets, and ranges and weighted averages of significant unobservable inputs used to value such trading cash instrument assets.

As of Contombou 2024

	As of Septemb	er 2024	As of December 2023							
\$ in millions	Amount or Range	Weighted Average	Amount or Range	Weighted Average						
Loans and securit	ies backed by rea	estate								
Level 3 assets	\$ 203		\$ 144							
Yield	4.2% to 44.0%	13.1%	3.8% to 26.1%	12.8%						
Recovery rate	24.5% to 93.5%	56.7%	35.5% to 76.0%	44.6%						
Duration (years)	0.6 to 12.5	5.1	0.3 to 15.3	5.2						
Corporate debt instruments										
Level 3 assets	\$ 821		\$ 1,415							
Yield	3.0% to 30.7%	8.8%	2.8% to 40.0%	9.3%						
Recovery rate	7.2% to 71.5%	44.1%	7.3% to 65.0%	39.4%						
Duration (years)	1.9 to 3.7	3.2	0.9 to 11.3	3.4						
Other										
Level 3 assets	\$ 265		\$ 232							
Yield	9.4% to 40.5%	16.7%	3.6% to 31.3%	14.6%						
Multiples	N/A	N/A	0.7x to 4.5x	3.9x						
Duration (years)	1.5 to 4.6	3.0	2.3 to 6.4	4.1						

In the table above:

- Other includes government and agency obligations, state and municipal obligations, other debt obligations, equity securities and commodities.
- Ranges represent the significant unobservable inputs that were used in the valuation of each type of trading cash instrument.
- Weighted averages are calculated by weighting each input by the relative fair value of the trading cash instruments.
- The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one trading cash instrument. For example, the highest recovery rate for corporate debt instruments is appropriate for valuing a specific corporate debt instrument, but may not be appropriate for valuing any other corporate debt instrument. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of level 3 trading cash instruments.
- Increases in yield or duration used in the valuation of level 3 trading cash instruments would have resulted in a lower fair value measurement, while increases in recovery rate or multiples would have resulted in a higher fair value measurement as of both September 2024 and December 2023. Due to the distinctive nature of each level 3 trading cash instrument, the interrelationship of inputs is not necessarily uniform within each product type.
- Trading cash instruments are valued using discounted cash flows.
- The significant unobservable inputs for multiples related to other trading cash instruments as of September 2024 did not have a range (and there was no weighted average) as it related to a single position. Therefore, such unobservable inputs are not included in the table above.

**Level 3 Rollforward.** The table below presents a summary of the changes in fair value for level 3 trading cash instruments.

	Three Months Ended September			E	iths ember	
\$ in millions		2024	2023		2024	2023
Assets						
Beginning balance	\$	1,553 \$	1,664	\$	1,791 \$	1,734
Net realized gains/(losses)		28	22		92	129
Net unrealized gains/(losses)		(6)	(41)		(52)	(22)
Purchases		193	295		397	597
Sales		(134)	(167)		(494)	(499)
Settlements		(95)	(91)		(310)	(311)
Transfers into level 3		174	309		221	323
Transfers out of level 3		(424)	(238)		(356)	(198)
Ending balance	\$	1,289 \$	1,753	\$	1,289 \$	1,753
Liabilities						
	\$	(96) \$	(95)	\$	(78) \$	(64)
Beginning balance	Þ	(90) 2		Ф		(64)
Net realized gains/(losses)		(40)	(1)		(3)	-
Net unrealized gains/(losses)		(10)	-		(33)	(15)
Purchases		47	46		52	52
Sales		(37)	(29)		(45)	(48)
Settlements		-	5		9	13
Transfers into level 3		(20)	(15)		(15)	(3)
Transfers out of level 3		10	38		7	8
Ending balance	\$	(106) \$	(51)	\$	(106) \$	(51)

In the table above:

- Changes in fair value are presented for all trading cash instruments that are classified in level 3 as of the end of the period.
- Net unrealized gains/(losses) relates to trading cash instruments that were still held at period-end.
- Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. If a trading cash instrument was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.
- For level 3 trading cash instrument assets, increases are shown as positive amounts, while decreases are shown as negative amounts. For level 3 trading cash instrument liabilities, increases are shown as negative amounts, while decreases are shown as positive amounts.
- Level 3 trading cash instruments are frequently economically hedged with level 1 and level 2 trading cash instruments and/or level 1, level 2 or level 3 derivatives. Accordingly, gains or losses that are classified in level 3 can be partially offset by gains or losses attributable to level 1 or level 2 trading cash instruments and/or level 1, level 2 or level 3 derivatives. As a result, gains or losses included in the level 3 rollforward below do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

The table below presents information, by product type, for assets included in the summary table above.

		Three M Ended Sep		E	Nine Months Ended September			
\$ in millions		2024	2023		2024		2023	
Loans and securities backed I	oy re	al estate						
Beginning balance	\$	212	221	\$	144	\$	154	
Net realized gains/(losses)		2	3		18		9	
Net unrealized gains/(losses)		2	(11)		(6)		(11)	
Purchases		8	13		52		67	
Sales		(8)	(43)		(39)		(53)	
Settlements		(7)	(15)		(28)		(26)	
Transfers into level 3		66	59		88		63	
Transfers out of level 3		(72)	(56)		(26)		(32)	
Ending balance	\$	203	171	\$	203	\$	171	
Corporate debt instruments								
Beginning balance	\$	1.132	1,145	\$	1,415	\$	1,238	
Net realized gains/(losses)	Ψ	1,132	14	Ψ	54	Ψ	31	
Net unrealized gains/(losses)		5	(18)		(29)		(6)	
Purchases		103	216		229		424	
Sales		(117)	(71)		(356)		(263)	
Settlements		(77)	(46)		(259)		(214)	
Transfers into level 3		68	217		51		212	
Transfers out of level 3		(311)	(141)		(284)		(106)	
Ending balance	\$	821		\$	821	\$	1,316	
		<u> </u>	.,0.0			Ť	.,0.0	
Other								
Beginning balance	\$	209		\$	232	\$	342	
Net realized gains/(losses)		8	5		20		89	
Net unrealized gains/(losses)		(13)	(12)		(17)		(5)	
Purchases		82	66		116		106	
Sales		(9)	(53)		(99)		(183)	
Settlements		(11)	(30)		(23)		(71)	
Transfers into level 3		40	33		82		48	
Transfers out of level 3		(41)	(41)		(46)		(60)	
Ending balance	\$	<b>265</b> 9	266	\$	265	\$	266	

In the table above, other includes government and agency obligations, state and municipal obligations, other debt obligations, equity securities and commodities.

**Level 3 Rollforward Commentary for the Three Months Ended September 2024.** The net realized and unrealized gains on level 3 trading cash instrument assets of \$22 million (reflecting \$28 million of net realized gains and \$6 million of net unrealized losses) for the three months ended September 2024 included gains of \$8 million reported in market making and \$14 million reported in interest income.

The drivers of net unrealized losses on level 3 trading cash instrument assets for the three months ended September 2024 were not material.

The drivers of transfers into level 3 trading cash instrument assets during the three months ended September 2024 were not material.

Transfers out of level 3 trading cash instrument assets during the three months ended September 2024 primarily reflected transfers of certain corporate debt instruments to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2024.** The net realized and unrealized gains on level 3 trading cash instrument assets of \$40 million (reflecting \$92 million of net realized gains and \$52 million of net unrealized losses) for the nine months ended September 2024 included gains/(losses) of \$(1) million reported in market making and \$41 million reported in interest income.

The drivers of net unrealized losses on level 3 trading cash instrument assets for the nine months ended September 2024 were not material.

The drivers of transfers into level 3 trading cash instrument assets during the nine months ended September 2024 were not material.

Transfers out of level 3 trading cash instrument assets during the nine months ended September 2024 primarily reflected transfers of certain corporate debt instruments to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

**Level 3 Rollforward Commentary for the Three Months Ended September 2023.** The net realized and unrealized losses on level 3 trading cash instrument assets of \$19 million (reflecting \$22 million of net realized gains and \$41 million of net unrealized losses) for the three months ended September 2023 included gains/(losses) of \$(36) million reported in market making and \$17 million reported in interest income.

The drivers of net unrealized losses on level 3 trading cash instrument assets for the three months ended September 2023 were not material.

Transfers into level 3 trading cash instrument assets during the three months ended September 2023 primarily reflected transfers of certain corporate debt instruments from level 2 (principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments).

Transfers out of level 3 trading cash instrument assets during the three months ended September 2023 primarily reflected transfers of certain corporate debt instruments to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2023.** The net realized and unrealized gains on level 3 trading cash instrument assets of \$107 million (reflecting \$129 million of net realized gains and \$22 million of net unrealized losses) for the nine months ended September 2023 included gains of \$61 million reported in market making and \$46 million reported in interest income.

The drivers of net unrealized losses on level 3 trading cash instrument assets for the nine months ended September 2023 were not material.

Transfers into level 3 trading cash instrument assets during the nine months ended September 2023 primarily reflected transfers of certain corporate debt instruments from level 2 (principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments).

Transfers out of level 3 trading cash instrument assets during the nine months ended September 2023 primarily reflected transfers of certain corporate debt instruments to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

#### **Derivatives**

**Fair Value by Level.** The table below presents derivatives on a gross basis by level and product type, as well as the impact of netting.

\$ in millions	l e	evel 1	1	evel 2		Level 3	Total
As of September 2024							
Assets							
Interest rates	\$	9	\$ 16	4,261	\$	781	\$ 165,051
Credit	•	_		0,104	_	2,850	12,954
Currencies		_		3,284		172	83,456
Commodities		_		6,267		1,206	17,473
Equities		139		2,450		1,159	93,748
Gross fair value		148		6,366		6,168	372,682
Counterparty netting in levels		_		7,337)		(1,118)	(278,455)
Subtotal	\$	148		9,029	\$	5,050	\$ 94,227
Cross-level counterparty netting							(1,127)
Cash collateral netting							(43,777)
Net fair value							\$ 49,323
Liabilities	_	(0)	4/40		_	(000)	<b>\$</b> (400.000)
Interest rates	\$	(6)	-	8,983)	\$		\$(129,898)
Credit		-		0,539)		(1,223)	(11,762)
Currencies		-	-	9,461)		(241)	(89,702)
Commodities		-		8,419)		(424)	(18,843)
Equities		(45)	_ •	0,133)		(2,422)	(132,600)
Gross fair value		(51)		7,535)		(5,219)	(382,805)
Counterparty netting in levels	•	/F4\		7,337	•	1,118	278,455
Subtotal	\$	(51)	\$(10	0,198)	\$	(4,101)	\$(104,350)
Cross-level counterparty netting							1,127
Cash collateral netting  Net fair value							36,527
Net fair value							\$ (66,696)
As of December 2023							
Assets							
Interest rates	\$	15	\$ 24	1,850	\$	758	\$ 242,623
Credit		_		9,964		2,861	12,825
Currencies		_	8	9,694		210	89,904
Commodities		_	1	5,393		1,449	16,842
Equities		2	5	9,220		816	60,038
Gross fair value		17	41	6,121		6,094	422,232
Counterparty netting in levels		_	(31	9,045)		(933)	(319,978)
Subtotal	\$	17	\$ 9	7,076	\$	5,161	\$ 102,254
Cross-level counterparty netting							(1,411)
Cash collateral netting							(49,723)
Net fair value							\$ 51,120
Liabilities							
Interest rates	\$	(1.4)	<b>ተ</b> /ጋ 1	2 061)	φ	(1 107)	Φ (21E 072)
	Ф	(14)		3,861)			\$ (215,072)
Credit		_		8,923)		(1,211)	(10,134)
Currencies		_		7,436) 7,133)		(168)	(97,604)
Commodities		_ (E)		7,122)		(821)	(17,943)
Equities		(5)		8,222)		(1,887)	(80,114)
Gross fair value		(19)		5,564)		(5,284)	(420,867)
Counterparty netting in levels	Φ	/10\		9,045	Φ	933	319,978
Subtotal	\$	(19)	ъ (9	6,519)	Ф	(4,35T)	\$ (100,889)
Cross-level counterparty netting							1,411
Cash collateral netting  Net fair value							42,724
							\$ (56,754)

In the table above:

- Gross fair values exclude the effects of both counterparty netting and collateral netting, and therefore are not representative of the firm's exposure.
- Counterparty netting is reflected in each level to the extent that receivable and payable balances are netted within the same level and is included in counterparty netting in levels. Where the counterparty netting is across levels, the netting is included in cross-level counterparty netting.
- Assets are shown as positive amounts and liabilities are shown as negative amounts.

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of derivatives.

**Significant Unobservable Inputs.** The table below presents the amount of level 3 derivative assets (liabilities), and ranges, averages and medians of significant unobservable inputs used to value such derivatives.

	As of Septem	ber 2024	As of Decem	ber 2023
	Amount or	Average/	Amount or	Average/
\$ in millions, except inputs	Range	Median	Range	Median
Interest rates, net	\$ (128)		\$ (439)	
Correlation	(10)% to 95%	60%/72%	(10)% to 75%	60%/66%
Volatility (bps)	31 to 101	57/49	31 to 101	56/49
Credit, net	\$ 1,627		\$ 1,650	
Credit spreads (bps)	7 to 1,753	148/92	3 to 1,750	130/85
Upfront credit points	(2) to 100	23/14	0 to 100	26/15
Recovery rates	8% to 71%	45%/40%	20% to 70%	43%/40%
Currencies, net	\$ (69)		\$ 42	
Correlation	20% to 68%	36%/23%	20% to 90%	41%/43%
Volatility	15% to 16%	15% to 16% 15%/15%		16%/16%
Commodities, net	\$ 782		\$ 628	
Volatility	22% to 88%	37%/33%	23% to 98%	42%/39%
Natural gas spread	\$(2.14) to	\$(0.07)/	\$(1.39) to	\$(0.32)/
Natural gas spread	\$4.73	\$(0.26)	\$3.06	\$(0.35)
Oil spread	\$(4.21) to	\$2.93/	\$(5.39) to	\$15.39/
Oli Spreau	\$21.64	\$(3.10)	\$31.69	\$19.35
Electricity price	\$3.10 to	\$48.95/	\$2.72 to	\$48.15/
Electricity price	\$569.81	\$29.83	\$1,088.00	\$35.16
Equities, net	\$ (1,263)		\$ (1,071)	
Correlation	(75)% to 100%	58%/57%	(70)% to 100%	65%/71%
Volatility	1% to 102%	17%/15%	1% to 106%	14%/13%

In the table above:

- Assets are shown as positive amounts and liabilities are shown as negative amounts.
- Ranges represent the significant unobservable inputs that were used in the valuation of each type of derivative.

- Averages represent the arithmetic average of the inputs and are not weighted by the relative fair value or notional amount of the respective financial instruments. An average greater than the median indicates that the majority of inputs are below the average. For example, the difference between the average and the median for credit spreads indicates that the majority of the inputs fall in the lower end of the range.
- The ranges, averages and medians of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one derivative. For example, the highest correlation for interest rate derivatives is appropriate for valuing a specific interest rate derivative but may not be appropriate for valuing any other interest rate derivative. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of level 3 derivatives.
- Interest rates, currencies and equities derivatives are valued using option pricing models, credit derivatives are valued using option pricing, correlation and discounted cash flow models, and commodities derivatives are valued using option pricing and discounted cash flow models.
- The fair value of any one instrument may be determined using multiple valuation techniques. For example, option pricing models and discounted cash flow models are typically used together to determine fair value. Therefore, the level 3 balance encompasses both of these techniques.
- Correlation within currencies and equities includes crossproduct type correlation.
- Natural gas spread represents the spread per million British thermal units of natural gas.
- Oil spread represents the spread per barrel of oil and refined products.
- Electricity price represents the price per megawatt hour of electricity.

**Range of Significant Unobservable Inputs.** The following provides information about the ranges of significant unobservable inputs used to value the firm's level 3 derivative instruments:

• **Correlation.** Ranges for correlation cover a variety of underliers both within one product type (e.g., equity index and equity single stock names) and across product types (e.g., correlation of an interest rate and a currency), as well as across regions. Generally, cross-product type correlation inputs are used to value more complex instruments and are lower than correlation inputs on assets within the same derivative product type.

- **Volatility**. Ranges for volatility cover numerous underliers across a variety of markets, maturities and strike prices. For example, volatility of equity indices is generally lower than volatility of single stocks.
- Credit spreads, upfront credit points and recovery rates. The ranges for credit spreads, upfront credit points and recovery rates cover a variety of underliers (index and single names), regions, sectors, maturities and credit qualities (high-yield and investment-grade). The broad range of this population gives rise to the width of the ranges of significant unobservable inputs.
- **Commodity prices and spreads.** The ranges for commodity prices and spreads cover variability in products, maturities and delivery locations.

Sensitivity of Fair Value Measurement to Changes in Significant Unobservable Inputs. The following is a description of the directional sensitivity of the firm's level 3 fair value measurements to changes in significant unobservable inputs, in isolation, as of each period-end:

- **Correlation.** In general, for contracts where the holder benefits from the convergence of the underlying asset or index prices (e.g., interest rates, credit spreads, foreign exchange rates, inflation rates and equity prices), an increase in correlation results in a higher fair value measurement.
- **Volatility.** In general, for purchased options, an increase in volatility results in a higher fair value measurement.
- Credit spreads, upfront credit points and recovery rates. In general, the fair value of purchased credit protection increases as credit spreads or upfront credit points increase or recovery rates decrease. Credit spreads, upfront credit points and recovery rates are strongly related to distinctive risk factors of the underlying reference obligations, which include reference entity-specific factors, such as leverage, volatility and industry, market-based risk factors, such as borrowing costs or liquidity of the underlying reference obligation, and macroeconomic conditions.
- Commodity prices and spreads. In general, for contracts where the holder is receiving a commodity, an increase in the spread (price difference from a benchmark index due to differences in quality or delivery location) or price results in a higher fair value measurement.

Due to the distinctive nature of each of the firm's level 3 derivatives, the interrelationship of inputs is not necessarily uniform within each product type.

**Level 3 Rollforward.** The table below presents a summary of the changes in fair value for level 3 derivatives.

	Three Months Ended September				Nine Moi Ended Sept		
\$ in millions		2024	2023		2024	2023	
Total level 3 derivatives, net							
Beginning balance	\$	<b>534</b> \$	609	\$	810 \$	1,521	
Net realized gains/(losses)		(87)	(75)		(235)	205	
Net unrealized gains/(losses)		139	(127)		257	(957)	
Purchases		140	113		498	317	
Sales		(368)	(795)		(1,053)	(1,117)	
Settlements		465	340		537	111	
Transfers into level 3		(475)	3		(172)	45	
Transfers out of level 3		601	291		307	234	
Ending balance	\$	949 \$	359	\$	949 \$	359	

In the table above:

- Changes in fair value are presented for all derivative assets and liabilities that are classified in level 3 as of the end of the period.
- Net unrealized gains/(losses) relates to instruments that were still held at period-end.
- Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. If a derivative was transferred into level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.
- Positive amounts for transfers into level 3 and negative amounts for transfers out of level 3 represent net transfers of derivative assets. Negative amounts for transfers into level 3 and positive amounts for transfers out of level 3 represent net transfers of derivative liabilities.
- A derivative with level 1 and/or level 2 inputs is classified in level 3 in its entirety if it has at least one significant level 3 input.
- If there is one significant level 3 input, the entire gain or loss from adjusting only observable inputs (i.e., level 1 and level 2 inputs) is classified in level 3.
- Gains or losses that have been classified in level 3 resulting from changes in level 1 or level 2 inputs are frequently offset by gains or losses attributable to level 1 or level 2 derivatives and/or level 1, level 2 and level 3 trading cash instruments. As a result, gains/(losses) included in the level 3 rollforward below do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

The table below presents information, by product type, for derivatives included in the summary table above.

		Three Months			Nine Months			
		Ended Septe	ember	Е	Ended Septe	ember		
\$ in millions		2024	2023		2024	2023		
Interest rates, net								
Beginning balance	\$	(367) \$	(589)	\$	(439) \$	(459)		
Net realized gains/(losses)		(124)	(5)		(196)	9		
Net unrealized gains/(losses)		730	(109)		508	(338)		
Purchases		6	10		15	30		
Sales		(97)	(98)		(267)	(225)		
Settlements		144	88		359	167		
Transfers into level 3		(426)	(14)		(92)	25		
Transfers out of level 3		6	110		(16)	184		
Ending balance	\$	(128) \$	(607)	\$	(128) \$	(607)		
Credit, net								
Beginning balance	\$	1,726 \$	1,711	\$	1,650 \$	1,460		
Net realized gains/(losses)	•	7	2	•	87	(18)		
Net unrealized gains/(losses)		(96)	(24)		158	181		
Purchases		81	28		182	114		
Sales		(45)	(28)		(95)	(48)		
Settlements		(44)	(64)		(360)	(192)		
Transfers into level 3		20	-		10	(5)		
Transfers out of level 3		(22)	(15)		(5)	118		
Ending balance	\$	1,627 \$	1,610	\$	1,627 \$	1,610		
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Currencies, net								
Beginning balance	\$	<b>24</b> \$	129	\$	42 \$	162		
Net realized gains/(losses)		49	30		14	84		
Net unrealized gains/(losses)		(121)	16		(136)	(100)		
Purchases		3	1		7	2		
Sales		(13)	(2)		(17)	(4)		
Settlements		(16)	(46)		(42)	(31)		
Transfers into level 3		2	7		3	7		
Transfers out of level 3		3	13		60	28_		
Ending balance	\$	(69) \$	148	\$	(69) \$	148		
Commodities, net								
Beginning balance	\$	648 \$	666	\$	628 \$	919		
Net realized gains/(losses)	•	(155)	(64)	•	(311)	(39)		
Net unrealized gains/(losses)		(78)	(202)		19	(435)		
Purchases		10	19		161	12		
Sales		(10)	(16)		(38)	(68)		
Settlements		146	80		84	111		
Transfers into level 3		(21)	51		29	131		
Transfers out of level 3		242	56		210	(41)		
Ending balance	\$	782 \$	590	\$	782 \$	590		
Equities, net								
Beginning balance	\$	(1,497) \$	(1,308)	\$	(1,071) \$	(561)		
Net realized gains/(losses)		136	(38)		171	169		
Net unrealized gains/(losses)		(296)	192		(292)	(265)		
Purchases		40	55		133	159		
Sales		(203)	(651)		(636)	(772)		
Settlements		235	282		496	56		
Transfers into level 3		(50)	(41)		(122)	(113)		
Transfers out of level 3		372	127		58	(55)		
Ending balance	\$	(1,263) \$	(1,382)	\$	(1,263) \$	(1,382)		

**Level 3 Rollforward Commentary for the Three Months Ended September 2024.** The net realized and unrealized gains on level 3 derivatives of \$52 million (reflecting \$87 million of net realized losses and \$139 million of net unrealized gains) for the three months ended September 2024 included gains/(losses) of \$59 million reported in market making and \$(7) million reported in other principal transactions.

The net unrealized gains on level 3 derivatives for the three months ended September 2024 reflected gains on certain interest rate derivatives (principally due to the impact of a decrease in interest rates), partially offset by losses on certain equity derivatives (principally due to the impact of changes in equity prices) and losses on certain currency derivatives (principally due to the impact of changes in foreign exchange rates).

Transfers into level 3 derivatives during the three months ended September 2024 primarily reflected transfers of certain interest rate derivative liabilities from level 2 (principally due to certain unobservable volatility inputs becoming significant to the valuation of these derivatives).

Transfers out of level 3 derivatives during the three months ended September 2024 primarily reflected transfers of certain equity derivative liabilities to level 2 (principally due to certain unobservable inputs no longer being significant to the valuation of these derivatives) and transfers of certain commodity derivative liabilities to level 2 (principally due to increased transparency of certain commodity price inputs used to value these derivatives).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2024.** The net realized and unrealized gains on level 3 derivatives of \$22 million (reflecting \$235 million of net realized losses and \$257 million of net unrealized gains) for the nine months ended September 2024 included gains of \$12 million reported in market making and \$10 million reported in other principal transactions.

The net unrealized gains on level 3 derivatives for the nine months ended September 2024 primarily reflected gains on certain interest rate derivatives (principally due to the impact of a decrease in interest rates) and gains on certain credit derivatives (principally due to the impact of changes in foreign exchange rates and a decrease in interest rates), partially offset by losses on certain equity derivatives (principally due to the impact of changes in equity prices) and losses on certain currency derivatives (principally due to the impact of changes in foreign exchange rates).

Transfers into level 3 derivatives during the nine months ended September 2024 primarily reflected transfers of certain equity derivative liabilities from level 2 (principally due to reduced transparency of certain volatility inputs used to value these derivatives).

Transfers out of level 3 derivatives during the nine months ended September 2024 primarily reflected transfers of certain commodity derivative liabilities to level 2 (principally due to increased transparency of certain commodity price inputs used to value these derivatives).

**Level 3 Rollforward Commentary for the Three Months Ended September 2023.** The net realized and unrealized losses on level 3 derivatives of \$202 million (reflecting \$75 million of net realized losses and \$127 million of net unrealized losses) for the three months ended September 2023 included gains/(losses) of \$(204) million reported in market making and \$2 million reported in other principal transactions.

The net unrealized losses on level 3 derivatives for the three months ended September 2023 primarily reflected losses on certain commodity derivatives (principally due to the impact of changes in commodity prices) and losses on certain interest rate derivatives (principally due to the impact of an increase in interest rates), partially offset by gains on certain equity derivatives (principally due to the impact of a decrease in equity prices).

The drivers of transfers into level 3 derivatives during the three months ended September 2023 were not material.

Transfers out of level 3 derivatives during the three months ended September 2023 primarily reflected transfers of certain equity derivative liabilities to level 2 (principally due to certain unobservable inputs no longer being significant to the valuation of these derivatives) and transfers of certain interest rate derivative liabilities to level 2 (principally due to certain unobservable volatility inputs no longer being significant to the valuation of these derivatives).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2023.** The net realized and unrealized losses on level 3 derivatives of \$752 million (reflecting \$205 million of net realized gains and \$957 million of net unrealized losses) for the nine months ended September 2023 included losses of \$742 million reported in market making and \$10 million reported in other principal transactions.

The net unrealized losses on level 3 derivatives for the nine months ended September 2023 reflected losses on certain commodity derivatives (principally due to the impact of changes in commodity prices), losses on certain interest rate and currency derivatives (in each case, principally due to the impact of an increase in interest rates), and losses on certain equity derivatives (principally due to the impact of an increase in equity prices), partially offset by gains on certain credit derivatives (principally due to the impact of changes in foreign exchange rates).

Transfers into level 3 derivatives during the nine months ended September 2023 primarily reflected transfers of certain commodity derivative assets from level 2 (principally due to certain unobservable volatility inputs becoming significant to the valuation of these derivatives), partially offset by transfers of certain equity derivative liabilities from level 2 (principally due to reduced transparency of certain unobservable volatility inputs used to value these derivatives).

Transfers out of level 3 derivatives during the nine months ended September 2023 primarily reflected transfers of certain interest rate derivative liabilities to level 2 (principally due to certain unobservable volatility inputs no longer being significant to the valuation of these derivatives) and transfers of certain credit derivative liabilities to level 2 (principally due to certain unobservable credit spread inputs no longer being significant to the net risk of certain portfolios).

#### Investments

**Fair Value by Level.** The table below presents investments accounted for at fair value by level within the fair value hierarchy.

\$ in millions		Level 1	Level 2	Level 3	Total
As of September 2024					
Government and agency obligation	ns:				
U.S.	\$	73,770	\$ -	\$ -	\$ 73,770
Non-U.S.		4,248	42	-	4,290
Corporate debt securities		171	2,403	5,204	7,778
Securities backed by real estate		-	6	570	576
Money market instruments		293	1,019	-	1,312
Other debt obligations		24	10	357	391
Equity securities		855	2,868	9,258	12,981
Subtotal	\$	79,361	\$ 6,348	\$ 15,389	\$101,098
Investments in funds at NAV					2,411
Total investments					\$103,509
As of December 2023					
Government and agency obligation	ns:				
U.S.	\$	46,731	\$ _	\$ _	\$ 46,731
Non-U.S.		2,399	144	_	2,543
Corporate debt securities		160	2,299	6,533	8,992
Securities backed by real estate		_	2	687	689
Money market instruments		52	999	_	1,051
Other debt obligations		9	14	244	267
Equity securities		721	2,099	9,674	12,494
Subtotal	\$	50,072	\$ 5,557	\$ 17,138	\$ 72,767
Investments in funds at NAV					3,000
Total investments					\$ 75,767

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of investments.

**Significant Unobservable Inputs.** The table below presents the amount of level 3 investments, and ranges and weighted averages of significant unobservable inputs used to value such investments.

		As of Septemb	er 2024	A	s of Decemb	per 2023				
\$ in millions		Amount or Range	Weighted Average		Amount or Range	Weighted Average				
Corporate debt se	cui	rities								
Level 3 assets	\$	5,204		\$	6,533					
Yield		5.0% to 25.1%	12.4%	6.09	% to 31.0%	12.1%				
Recovery rate		3.5% to 74.4%	34.3%	7.39	% to 41.2%	27.6%				
Duration (years)		0.3 to 7.4	3.5		0.4 to 5.3	3.0				
Multiples		1.0x to 31.1x	6.7x	0.	9x to 53.3x	7.7x				
Securities backed by real estate										
Level 3 assets	\$	570		\$	687					
Yield		10.0% to 24.0%	16.9%	7.49	% to 18.8%	14.1%				
Duration (years)		0.8 to 2.2	2.2		0.4 to 4.1	3.9				
Other debt obligation	tio	ns								
Level 3 assets	\$	357		\$	244					
Yield		5.6% to 8.7%	7.8%	7.6	% to 8.8%	8.2%				
<b>Equity securities</b>										
Level 3 assets	\$	9,258		\$	9,674					
Multiples		0.4x to 41.1x	9.6x	0.	5x to 25.2x	8.3x				
Discount rate/yield		6.0% to 38.5%	12.8%	6.09	% to 38.5%	12.3%				
Capitalization rate		4.4% to 9.2%	5.4%	4.5	% to 8.0%	5.3%				

#### In the table above:

- Ranges represent the significant unobservable inputs that were used in the valuation of each type of investment.
- Weighted averages are calculated by weighting each input by the relative fair value of the investment.
- The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one investment. For example, the highest multiple for private equity securities is appropriate for valuing a specific private equity security but may not be appropriate for valuing any other private equity security. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of level 3 investments.
- Increases in yield, discount rate, capitalization rate or duration used in the valuation of level 3 investments would have resulted in a lower fair value measurement, while increases in recovery rate or multiples would have resulted in a higher fair value measurement as of both September 2024 and December 2023. Due to the distinctive nature of each level 3 investment, the interrelationship of inputs is not necessarily uniform within each product type.

- Corporate debt securities, securities backed by real estate and other debt obligations are valued using discounted cash flows, and equity securities are valued using market comparables and discounted cash flows.
- The fair value of any one instrument may be determined using multiple valuation techniques. For example, market comparables and discounted cash flows may be used together to determine fair value. Therefore, the level 3 balance encompasses both of these techniques.

**Level 3 Rollforward.** The table below presents a summary of the changes in fair value for level 3 investments.

	Three Months				Nine Months				
		Ended Se	ember	Ended September					
\$ in millions		2024		2023		2024		2023	
Beginning balance	\$	15,702	\$	18,128	\$	17,138	\$	16,942	
Net realized gains/(losses)		83		113		296		344	
Net unrealized gains/(losses)		189		(346)		(20)		(904)	
Purchases		338		213		1,014		755	
Sales		(47)		(111)		(694)		(621)	
Settlements		(635)		(456)		(1,862)		(1,127)	
Transfers into level 3		341		942		892		3,257	
Transfers out of level 3		(582)		(1,154)		(1,375)		(1,317)	
Ending balance	\$	15,389	\$	17,329	\$	15,389	\$	17,329	

In the table above:

- Changes in fair value are presented for all investments that are classified in level 3 as of the end of the period.
- Net unrealized gains/(losses) relates to investments that were still held at period-end.
- Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. If an investment was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.

The table below presents information, by product type, for investments included in the summary table above.

	Three Months			Nine Months			
		Ended Sept	ember		Ended Sep	otembe	r
\$ in millions		2024	2023		2024	2	023
Corporate debt securities							
Beginning balance	\$	5,660 \$	7,520	\$	6,533	\$ 7,0	003
Net realized gains/(losses)		47	88		196	(	301
Net unrealized gains/(losses)		31	(66)		(45)		(54)
Purchases		107	58		417	(	373
Sales		(3)	(53)		(149)	(*	185
Settlements		(402)	(274)		(1,320)	(7	735
Transfers into level 3		96	415		389	1,0	049
Transfers out of level 3		(332)	(738)		(817)	(8	302
Ending balance	\$	5,204 \$	6,950	\$	5,204	\$ 6,9	950
Securities backed by real es			070		007 (	h (	207
Beginning balance	\$	565 \$	878	\$		\$ 8	327
Net realized gains/(losses)		2	1		46		10
Net unrealized gains/(losses)		6	(95)		(74)	( )	191
Purchases		2	7		45		56
Sales		-	_		(33)		(58)
Settlements		(5)	(19)		(101)		(38)
Transfers into level 3		-	_		1	•	171
Transfers out of level 3		-	_		(1)		(5)
Ending balance	\$	570 \$	772	\$	570	\$ 7	772
Other debt obligations							
Beginning balance	\$	221 \$	246	\$	244	\$ 2	256
Net realized gains/(losses)	•	1	1	•	4	,	3
Net unrealized gains/(losses)		2	3		1		2
Purchases		160	6		163		1
Settlements		(27)	(7)		(55)		(13)
Ending balance	\$	357 \$	249	\$			249
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Equity securities							
Beginning balance	\$	9,256 \$	9,484	\$	9,674	8,8	356
Net realized gains/(losses)		33	23		50		30
Net unrealized gains/(losses)		150	(188)		98	(6	361
Purchases		69	142		389	(	325
Sales		(44)	(58)		(512)	(3	378
Settlements		(201)	(156)		(386)	(3	341
Transfers into level 3		245	527		502	2,0	037
Transfers out of level 3		(250)	(416)		(557)	(5	510
Ending balance	\$	9,258 \$	9,358	\$	9,258	\$ 9,0	358

**Level 3 Rollforward Commentary for the Three Months Ended September 2024.** The net realized and unrealized gains on level 3 investments of \$272 million (reflecting \$83 million of net realized gains and \$189 million of net unrealized gains) for the three months ended September 2024 included gains of \$175 million reported in other principal transactions and \$97 million reported in interest income.

The net unrealized gains on level 3 investments for the three months ended September 2024 primarily reflected gains on certain equity securities (principally driven by corporate performance).

Transfers into level 3 investments during the three months ended September 2024 primarily reflected transfers of certain equity securities from level 2 (principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments).

Transfers out of level 3 investments during the three months ended September 2024 primarily reflected transfers of certain corporate debt securities to level 2 (principally due to certain unobservable yield inputs becoming less significant to the valuation of these instruments), and transfers of certain equity securities to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2024.** The net realized and unrealized gains on level 3 investments of \$276 million (reflecting \$296 million of net realized gains and \$20 million of net unrealized losses) for the nine months ended September 2024 included gains/(losses) of \$(1) million reported in other principal transactions and \$277 million reported in interest income.

The drivers of the net unrealized losses on level 3 investments for the nine months ended September 2024 were not material.

Transfers into level 3 investments during the nine months ended September 2024 primarily reflected transfers of certain equity securities from level 2 (principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments) and transfers of certain corporate debt securities from level 2 (principally due to certain unobservable yield inputs becoming significant to the valuation of these instruments).

Transfers out of level 3 investments during the nine months ended September 2024 primarily reflected transfers of certain corporate debt securities to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments and certain unobservable yield inputs becoming less significant to the valuation of these instruments) and transfers of certain equity securities to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

**Level 3 Rollforward Commentary for the Three Months Ended September 2023.** The net realized and unrealized losses on level 3 investments of \$233 million (reflecting \$113 million of net realized gains and \$346 million of net unrealized losses) for the three months ended September 2023 included gains/(losses) of \$(385) million reported in other principal transactions and \$152 million reported in interest income.

The net unrealized losses on level 3 investments for the three months ended September 2023 primarily reflected losses on certain equity securities and securities backed by real estate (in each case, principally driven by commercial real estate investments).

Transfers into level 3 investments during the three months ended September 2023 primarily reflected transfers of certain equity securities and corporate debt securities from level 2 (in each case, principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments).

Transfers out of level 3 investments during the three months ended September 2023 primarily reflected transfers of certain corporate debt securities and equity securities to level 2 (in each case, principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2023.** The net realized and unrealized losses on level 3 investments of \$560 million (reflecting \$344 million of net realized gains and \$904 million of net unrealized losses) for the nine months ended September 2023 included gains/(losses) of \$(1.03) billion reported in other principal transactions and \$470 million reported in interest income.

The net unrealized losses on level 3 investments for the nine months ended September 2023 primarily reflected losses on certain equity securities and securities backed by real estate (in each case, principally driven by commercial real estate investments).

Transfers into level 3 investments during the nine months ended September 2023 primarily reflected transfers of certain equity securities and corporate debt securities from level 2 (in each case, principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments, and certain unobservable yield inputs becoming significant to the valuation of these instruments).

Transfers out of level 3 investments during the nine months ended September 2023 primarily reflected transfers of certain corporate debt securities to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments, and certain unobservable yield and duration inputs becoming less significant to the valuation of these instruments) and transfers of certain equity securities to level 2 (principally due to increased price transparency as a result of market evidence, including market transactions in these instruments).

#### Loans

**Fair Value by Level.** The table below presents loans held for investment accounted for at fair value under the fair value option by level within the fair value hierarchy.

\$ in millions	Level 1	Level 2	Level 3	Total
As of September 2024				
Loan Type				
Corporate	\$ -	\$ 135	\$ 327	\$ 462
Real estate:				
Commercial	-	336	78	414
Residential	_	3,645	47	3,692
Other collateralized	_	1,079	127	1,206
Other	-	32	33	65
Total	\$ _	\$ 5,227	\$ 612	\$ 5,839
As of December 2023				
Loan Type				
	\$ _	\$ 415	\$ 344	\$ 759
Real estate:				
Commercial	_	360	203	563
Residential	_	4,087	58	4,145
Other collateralized	_	775	136	911
Other	_	46	82	128
Total	\$ _	\$ 5,683	\$ 823	\$ 6,506

The gains/(losses) as a result of changes in the fair value of loans held for investment for which the fair value option was elected were \$75 million for the three months ended September 2024, \$(170) million for the three months ended September 2023, \$53 million for the nine months ended September 2024 and \$(207) million for the nine months ended September 2023. These gains/(losses) were included in other principal transactions.

**Significant Unobservable Inputs.** The table below presents the amount of level 3 loans, and ranges and weighted averages of significant unobservable inputs used to value such loans.

	As of September 2024		As of December 2023				
	Amount or	Weighted	Amount or	Weighted			
\$ in millions	Range	Average	Range	Average			
Corporate							
Level 3 assets	\$ 327		\$ 344				
Yield	14.1% to 19.3%	16.6%	8.0% to 17.1%	10.5%			
Recovery rate	38.9% to 95.0%	76.9%	2.0% to 95.0%	74.0%			
Duration (years)	0.1 to 9.6	6.2	0.7 to 2.3	1.7			
Real estate							
Level 3 assets	\$ 125		\$ 261				
Yield	N/A	N/A	5.0% to 21.4%	18.1%			
Recovery rate	3.9% to 99.0%	71.1%	5.3% to 99.2%	66.0%			
Duration (years)	0.3 to 4.5	0.9	0.5 to 6.2	1.6			
Other collaterali	zed			_			
Level 3 assets	\$ 127		\$ 136				
Yield	5.4% to 9.4%	5.9%	5.6% to 8.7%	6.1%			
Other				_			
Level 3 assets	\$ 33		\$ 82				
Yield	N/A	N/A	7.3% to 13.5%	9.6%			
Duration (years)	N/A	N/A	3.6 to 5.2	4.2			

In the table above:

- Ranges represent the significant unobservable inputs that were used in the valuation of each type of loan.
- Weighted averages are calculated by weighting each input by the relative fair value of the loan.
- The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one loan. For example, the highest yield for corporate loans is appropriate for valuing a specific corporate loan but may not be appropriate for valuing any other corporate loan. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of level 3 loans.
- Increases in yield or duration used in the valuation of level 3 loans would have resulted in a lower fair value measurement, while increases in recovery rate would have resulted in a higher fair value measurement as of both September 2024 and December 2023. Due to the distinctive nature of each level 3 loan, the interrelationship of inputs is not necessarily uniform within each product type.
- Loans are valued using discounted cash flows.
- The significant unobservable inputs for yield (related to real estate and other loans) and for duration (related to other loans) as of September 2024 did not have a range (and there was no weighted average) as each pertained to a single position. Therefore, such unobservable inputs are not included in the table above.

**Level 3 Rollforward.** The table below presents a summary of the changes in fair value for level 3 loans.

	Three Months Ended September			Nine Months Ended September		
\$ in millions		2024	2023		2024	2023
Beginning balance	\$	636 \$	1,251	\$	823 \$	1,837
Net realized gains/(losses)		15	11		28	39
Net unrealized gains/(losses)		3	(174)		(20)	(254)
Purchases		17	6		99	86
Sales		(15)	(5)		(58)	(462)
Settlements		(51)	(95)		(259)	(254)
Transfers into level 3		49	_		43	_
Transfers out of level 3		(42)	(22)		(44)	(20)
Ending balance	\$	612 \$	972	\$	612 \$	972

In the table above:

- Changes in fair value are presented for loans that are classified in level 3 as of the end of the period.
- Net unrealized gains/(losses) relates to loans that were still held at period-end.
- Purchases includes originations and secondary purchases.

• Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. If a loan was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.

The table below presents information, by loan type, for loans included in the summary table above.

	Three Months Ended September			Nine Months Ended September				
\$ in millions		2024	•	2023		2024	•	2023
Corporate								
Beginning balance	\$	284	\$	543	\$	344	\$	637
Net realized gains/(losses)		7		7		9		20
Net unrealized gains/(losses)		3		(76)		(11)		(134)
Purchases		15		5		97		47
Sales		(4)		_		(4)		(47)
Settlements		(26)		(26)		(150)		(72)
Transfers into level 3		48		_		42		_
Transfers out of level 3		_		(22)		_		(20)
Ending balance	\$	327	\$	431	\$	327	\$	431
Real estate								
Beginning balance	\$	142	\$	490	\$	261	\$	785
Net realized gains/(losses)	Ψ	4	Ψ	2	Ψ	8	Ψ	700
Net unrealized gains/(losses)		(2)		(100)		(5)		(123)
Purchases		2		1		1		(123)
Sales		(11)		(5)		(52)		(196)
Settlements		(11)		(67)		(89)		(156)
Transfers into level 3		1		(07)		(03)		(130)
Transfers out of level 3								
Ending balance	\$	125	\$	321	\$	125	\$	321
		_						
Other collateralized	\$	146	\$	140	\$	136	\$	140
Beginning balance	Ф	140	Ф	140	Ф	4	Ф	
Net realized gains/(losses) Net unrealized gains/(losses)		'		1		(2)		3
Purchases		_		ı		(2)		2
Sales		_		_		(1)		2
Settlements		(9)		_		(10)		(3)
				_		(10)		(3)
Transfers out of level 3		(11)		- 4.40	_	-		- 440
Ending balance	\$	127	\$	142	\$	127	\$	142
Other								
Beginning balance	\$	64	\$	78	\$	82	\$	275
Net realized gains/(losses)		3		1		7		7
Net unrealized gains/(losses)		2		1		(2)		3
Purchases		-		-		1		35
Sales		-		-		(1)		(219)
Settlements		(5)		(2)		(10)		(23)
Transfers out of level 3		(31)		_		(44)		_
Ending balance	\$	33	\$	78	\$	33	\$	78

**Level 3 Rollforward Commentary for the Three Months Ended September 2024.** The net realized and unrealized gains on level 3 loans of \$18 million (reflecting \$15 million of net realized gains and \$3 million of net unrealized gains) for the three months ended September 2024 included gains of \$9 million reported in other principal transactions and \$9 million reported in interest income.

The drivers of the net unrealized gains on level 3 loans for the three months ended September 2024 were not material.

The drivers of both transfers into and transfers out of level 3 loans during the three months ended September 2024 were not material.

**Level 3 Rollforward Commentary for the Nine Months Ended September 2024.** The net realized and unrealized gains on level 3 loans of \$8 million (reflecting \$28 million of net realized gains and \$20 million of net unrealized losses) for the nine months ended September 2024 included gains/ (losses) of \$(2) million reported in other principal transactions and \$10 million reported in interest income.

The drivers of the net unrealized losses on level 3 loans for the nine months ended September 2024 were not material.

The drivers of both transfers into and transfers out of level 3 loans during the nine months ended September 2024 were not material.

**Level 3 Rollforward Commentary for the Three Months Ended September 2023.** The net realized and unrealized losses on level 3 loans of \$163 million (reflecting \$11 million of net realized gains and \$174 million of net unrealized losses) for the three months ended September 2023 included gains/ (losses) of \$(172) million reported in other principal transactions and \$9 million reported in interest income.

The net unrealized losses on level 3 loans for the three months ended September 2023 primarily reflected losses on certain loans backed by real estate (principally driven by commercial real estate loans) and corporate loans (principally driven by company-specific events).

There were no transfers into level 3 loans during the three months ended September 2023.

The drivers of transfers out of level 3 loans during the three months ended September 2023 were not material.

**Level 3 Rollforward Commentary for the Nine Months Ended September 2023.** The net realized and unrealized losses on level 3 loans of \$215 million (reflecting \$39 million of net realized gains and \$254 million of net unrealized losses) for the nine months ended September 2023 included gains/ (losses) of \$(237) million reported in other principal transactions and \$22 million reported in interest income.

The net unrealized losses on level 3 loans for the nine months ended September 2023 primarily reflected losses on certain corporate loans (principally driven by company-specific events) and loans backed by real estate (principally driven by commercial real estate loans).

There were no transfers into level 3 loans during the nine months ended September 2023.

The drivers of transfers out of level 3 loans during the nine months ended September 2023 were not material.

#### Other Financial Assets and Liabilities

**Fair Value by Level.** The table below presents, by level within the fair value hierarchy, other financial assets and liabilities at fair value, substantially all of which are accounted for at fair value under the fair value option.

\$ in millions	Lev	vel 1	1 Level 2		Level 3		Tota	
As of September 2024								
Assets								
Resale agreements	\$	-	\$	211,871	\$	_	\$ 2	11,871
Securities borrowed		-		47,033		-	4	47,033
Customer and other receivables		-		23		-		23
Other assets		-		73		183		256
Total	\$	_	\$	259,000	\$	183	\$ 2	59,183
Liabilities								
Deposits	\$	_	\$	(38,572)	\$	(2,960)	\$ (4	41.532)
Repurchase agreements	•	_		(261,617)	_	-	-	61,617)
Securities loaned		_		(10,667)		_	-	10,667)
Other secured financings		_		(22,618)		(704)	-	23,322)
Unsecured borrowings:				(==,-:-,		(,	,-	,,
Short-term		_		(47,622)		(5,535)	(!	53,157)
Long-term		_		(83,043)		(13,180)	-	96,223)
Other liabilities		_		(80)		(80)	•	(160)
Total	\$	_	\$	(464,219)	\$		\$(48	
As of December 2023								
Assets								
Resale agreements	\$	_	\$	223,543	\$	_	\$ 2	23,543
Securities borrowed	Ψ	_	Ψ	44,930	Ψ	_		44,930
Customer and other receivables		_		23		_		23
Other assets		_		179		187		366
Total	\$	_	\$	268,675	\$		\$ 2	68,862
	Ψ		Ť	200,070	Ť		Ψ =	00,002
Liabilities								
						12 7271	¢ /'	29,460)
Deposits	\$	-	\$	(26,723)	Ъ	(2,737)		
Repurchase agreements	\$	-	\$	(249,887)	Ъ	(2,737)		49,887)
Repurchase agreements Securities loaned	\$	- - -	\$	(249,887) (8,934)	\$	-	(2	49,887) (8,934)
Repurchase agreements	\$	- - -	\$	(249,887)	\$	(2,737)	(2	49,887)
Repurchase agreements Securities loaned Other secured financings Unsecured borrowings:	\$	- - -	\$	(249,887) (8,934) (10,532)		(2,022)	(24	49,887) (8,934) 12,554)
Repurchase agreements Securities loaned Other secured financings	\$	- - -	\$	(249,887) (8,934) (10,532) (40,538)		(2,022) (5,589)	(24	49,887) (8,934) 12,554) 46,127)
Repurchase agreements Securities loaned Other secured financings Unsecured borrowings: Short-term Long-term	\$	-	\$	(249,887) (8,934) (10,532)		(2,022)	(24	49,887) (8,934) 12,554)
Repurchase agreements Securities loaned Other secured financings Unsecured borrowings: Short-term	\$	- - - -		(249,887) (8,934) (10,532) (40,538)		(2,022) (5,589) (13,848) (79)	(24 (4 (4	49,887) (8,934) 12,554) 46,127) 86,410) (266)

In the table above, assets are shown as positive amounts and liabilities are shown as negative amounts.

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of other financial assets and liabilities.

**Significant Unobservable Inputs.** See below for information about the significant unobservable inputs used to value level 3 other financial assets and liabilities at fair value as of both September 2024 and December 2023.

**Other Secured Financings.** The ranges and weighted averages of significant unobservable inputs used to value level 3 other secured financings are presented below. These ranges and weighted averages exclude unobservable inputs that are only relevant to a single instrument, and therefore are not meaningful.

As of September 2024:

• Yield: 6.3% to 12.6% (weighted average: 7.9%)

• Duration: 0.3 to 5.6 years (weighted average: 0.9 years)

As of December 2023:

• Yield: 6.7% to 11.3% (weighted average: 8.5%)

• Duration: 0.1 to 4.5 years (weighted average: 0.9 years)

Generally, increases in yield or duration, in isolation, would have resulted in a lower fair value measurement as of periodend. Due to the distinctive nature of each of level 3 other secured financings, the interrelationship of inputs is not necessarily uniform across such financings. See Note 11 for further information about other secured financings.

**Deposits, Unsecured Borrowings and Other Assets** and Liabilities. Substantially all of the firm's deposits, unsecured short- and long-term borrowings, and other assets and liabilities that are classified in level 3 are hybrid financial instruments. As the significant unobservable inputs used to value hybrid financial instruments primarily relate to the embedded derivative component of these deposits, unsecured borrowings and other assets and liabilities, these unobservable inputs are incorporated in the firm's derivative disclosures. See Note 12 for further information about other assets, Note 13 for further information about deposits, Note 14 for further information about unsecured borrowings and Note 15 for further information about other liabilities.

**Level 3 Rollforward.** The table below presents a summary of the changes in fair value for level 3 other financial assets and liabilities accounted for at fair value.

	Three Months Ended September			Nine Months Ended September				
\$ in millions		2024		2023		2024		2023
Assets								
Beginning balance	\$	174	\$	126	\$	187	\$	74
Net unrealized gains/(losses)		9		25		7		77
Sales		_		_		(11)		_
Ending balance	\$	183	\$	151	\$	183	\$	151
Liabilities								
Beginning balance	\$	(22,118)	\$	(21,897)	\$	(24,275)	\$	(18,826)
Net realized gains/(losses)		(96)		(88)		(161)		(223)
Net unrealized gains/(losses)		(1,351)		1,210		(830)		425
Issuances		(3,788)		(3,036)		(8,450)		(6,212)
Settlements		3,008		3,154		9,325		6,380
Transfers into level 3		(887)		(3,656)		(770)		(6,030)
Transfers out of level 3		2,773		1,003		2,702		1,176
Ending balance	\$	(22,459)	\$	(23,310)	\$	(22,459)	\$	(23,310)

In the table above:

- Changes in fair value are presented for all other financial assets and liabilities that are classified in level 3 as of the end of the period.
- Net unrealized gains/(losses) relates to other financial assets and liabilities that were still held at period-end.
- Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. If a financial instrument was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.
- For level 3 other financial assets, increases are shown as positive amounts, while decreases are shown as negative amounts. For level 3 other financial liabilities, increases are shown as negative amounts, while decreases are shown as positive amounts.
- Level 3 other financial assets and liabilities are frequently economically hedged with trading assets and liabilities. Accordingly, gains or losses that are classified in level 3 can be partially offset by gains or losses attributable to level 1, 2 or 3 trading assets and liabilities. As a result, gains or losses included in the level 3 rollforward below do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

The table below presents information, by the consolidated balance sheet line items, for liabilities included in the summary table above.

·		Three Months Ended September			Nine Months Ended September		
Φ in	_		pt		_	<u>'</u>	
\$ in millions		2024		2023		2024	2023
Deposits Beginning balance	\$	(2,904)	Φ	(2,889)	\$	(2,737)	(2,743)
Net unrealized gains/(losses)	Ф	(83)	Φ	73	Ф	(157)	19
Issuances		(319)		(157)		(737)	(376)
Settlements		225		232		655	594
Transfers into level 3		225		(3)		(141)	(254)
Transfers out of level 3		121		18		157	34
Ending balance	\$	(2,960)	Φ.	(2,726)	\$	(2,960)	
	Ψ_	(2,300)	Ψ	(2,720)	Ψ	(2,300)	(2,720)
Other secured financings			_				
Beginning balance	\$	(1,545)	\$	(2,817)	\$	(2,022) \$	
Net realized gains/(losses)		(7)		(3)		(7)	(3)
Net unrealized gains/(losses)		(25)		41		13	13
Issuances		(33)		(158)		(60)	(676)
Settlements		906		488		1,478	875
Transfers into level 3		-		(325)		(106)	(1,626)
Transfers out of level 3			_	40			525
Ending balance	\$	(704)	\$	(2,734)	\$	(704) \$	(2,734)
Unsecured short-term borro	wir	ıgs					
Beginning balance	\$	(4,554)	\$	(4,822)	\$	(5,589)	(4,090)
Net realized gains/(losses)		(33)		(23)		(5)	(72)
Net unrealized gains/(losses)		(162)		148		(231)	(178)
Issuances		(2,205)		(1,552)		(4,401)	(2,968)
Settlements		1,017		1,853		3,763	3,013
Transfers into level 3		(431)		(204)		(94)	(174)
Transfers out of level 3		833		305		1,022	174
Ending balance	\$	(5,535)	\$	(4,295)	\$	(5,535) \$	(4,295)
Unsecured long-term borrow	ving	gs					
Beginning balance	\$	(13,051)	\$	(11,296)	\$	(13,848) \$	(10,066)
Net realized gains/(losses)		(56)		(62)		(149)	(148)
Net unrealized gains/(losses)		(1,065)		945		(454)	556
Issuances		(1,231)		(1,020)		(3,252)	(2,043)
Settlements		860		581		3,429	1,898
Transfers into level 3		(456)		(3,124)		(429)	(3,976)
Transfers out of level 3		1,819		640		1,523	443
Ending balance	\$	(13,180)	\$	(13,336)	\$	(13,180) \$	(13,336)
Other liabilities							
Beginning balance	\$	(64)	\$	(73)	\$	(79) \$	(85)
Net unrealized gains/(losses)		(16)		3		(1)	15
•							
Issuances		-		(149)		-	(149)

**Level 3 Rollforward Commentary for the Three Months Ended September 2024.** The net realized and unrealized losses on level 3 other financial liabilities of \$1.45 billion (reflecting \$96 million of net realized losses and \$1.35 billion of net unrealized losses) for the three months ended September 2024 included losses of \$1.32 billion reported in market making, \$28 million reported in other principal transactions and \$3 million reported in interest expense in the consolidated statements of earnings, and \$94 million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized losses on level 3 other financial liabilities for the three months ended September 2024 primarily reflected losses on certain hybrid financial instruments included in unsecured long-term borrowings (principally due to the impact of changes in foreign exchange rates, a decrease in interest rates, and an increase in equity prices) and losses on certain hybrid financial instruments included in unsecured short-term borrowings (principally due to an increase in equity prices).

Transfers into level 3 other financial liabilities during the three months ended September 2024 primarily reflected transfers of certain hybrid financial instruments included in unsecured long- and short-term borrowings from level 2 (principally due to reduced price transparency of certain volatility inputs used to value these instruments).

Transfers out of level 3 other financial liabilities during the three months ended September 2024 primarily reflected transfers of certain hybrid financial instruments included in unsecured long-term borrowings to level 2 (principally due to increased price transparency of certain credit spread and volatility inputs used to value these instruments) and transfers of certain hybrid financial instruments included in unsecured short-term borrowings to level 2 (principally due to increased price transparency of certain volatility inputs used to value these instruments).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2024.** The net realized and unrealized losses on level 3 other financial liabilities of \$991 million (reflecting \$161 million of net realized losses and \$830 million of net unrealized losses) for the nine months ended September 2024 included losses of \$884 million reported in market making, \$27 million reported in other principal transactions and \$8 million reported in interest expense in the consolidated statements of earnings, and \$72 million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized losses on level 3 other financial liabilities for the nine months ended September 2024 primarily reflected losses on certain hybrid financial instruments included in unsecured long- and short-term borrowings (principally due to an increase in equity prices).

Transfers into level 3 other financial liabilities during the nine months ended September 2024 primarily reflected transfers of certain hybrid financial instruments included in unsecured long-term borrowings and deposits from level 2 (in each case, principally due to reduced price transparency of volatility inputs used to value these instruments) and transfers of certain other secured financings from level 2 (principally due to reduced price transparency of certain yield and duration inputs used to value these instruments).

Transfers out of level 3 other financial liabilities during the nine months ended September 2024 primarily reflected transfers of certain hybrid financial instruments included in unsecured long-term borrowings to level 2 (principally due to increased price transparency of certain volatility inputs used to value these instruments) and transfers of certain hybrid financial instruments included in unsecured short-term borrowings to level 2 (principally due to increased price transparency of certain volatility inputs used to value these instruments and certain unobservable inputs no longer being significant to the valuation of these instruments).

**Level 3 Rollforward Commentary for the Three Months Ended September 2023.** The net realized and unrealized gains on level 3 other financial liabilities of \$1.12 billion (reflecting \$88 million of net realized losses and \$1.21 billion of net unrealized gains) for the three months ended September 2023 included gains/(losses) of \$1.15 billion reported in market making, \$16 million reported in other principal transactions and \$(4) million reported in interest expense in the consolidated statements of earnings, and \$(44) million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized gains on level 3 other financial liabilities for the three months ended September 2023 primarily reflected gains on certain hybrid financial instruments included in unsecured long-term borrowings (principally due to an increase in interest rates and a decrease in equity prices).

Transfers into level 3 other financial liabilities during the three months ended September 2023 primarily reflected transfers of certain hybrid financial instruments included in unsecured long-term borrowings from level 2 (principally due to reduced price transparency of certain credit spread inputs used to value these instruments).

Transfers out of level 3 other financial liabilities during the three months ended September 2023 primarily reflected transfers of certain hybrid financial instruments included in unsecured long- and short-term borrowings to level 2 (principally due to increased price transparency of certain volatility inputs used to value these instruments).

**Level 3 Rollforward Commentary for the Nine Months Ended September 2023.** The net realized and unrealized gains on level 3 other financial liabilities of \$202 million (reflecting \$223 million of net realized losses and \$425 million of net unrealized gains) for the nine months ended September 2023 included gains/(losses) of \$415 million reported in market making, \$4 million reported in other principal transactions and \$(12) million reported in interest expense in the consolidated statements of earnings, and \$(205) million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized gains on level 3 other financial liabilities for the nine months ended September 2023 primarily reflected gains on certain hybrid financial instruments included in unsecured long-term borrowings (principally due to an increase in interest rates), partially offset by losses on certain hybrid financial instruments included in unsecured short-term borrowings (principally due to an increase in equity prices).

Transfers into level 3 other financial liabilities during the nine months ended September 2023 primarily reflected transfers of certain hybrid financial instruments included in unsecured long-term borrowings from level 2 (principally due to reduced price transparency of certain credit spread and volatility inputs used to value these instruments) and transfers of certain other secured financings from level 2 (principally due to reduced price transparency of certain yield and duration inputs used to value these instruments).

Transfers out of level 3 other financial liabilities during the nine months ended September 2023 primarily reflected transfers of certain hybrid financial instruments included in other secured financings to level 2 (principally due to increased price transparency of certain yield and duration inputs used to value these instruments) and transfers of certain unsecured long- and short-term borrowings to level 2 (principally due to increased price transparency of certain volatility inputs used to value these instruments).

#### Note 6.

#### **Trading Assets and Liabilities**

Trading assets and liabilities include trading cash instruments and derivatives held in connection with the firm's market-making or risk management activities. These assets and liabilities are carried at fair value either under the fair value option or in accordance with other U.S. GAAP, and the related fair value gains and losses are generally recognized in the consolidated statements of earnings.

The table below presents a summary of trading assets and liabilities.

	Trading	Trading
\$ in millions	Assets	Liabilities
As of September 2024		
Trading cash instruments	\$ 551,942	\$ 148,495
Derivatives	49,323	66,696
Total	\$ 601,265	\$ 215,191
As of December 2023	,	
Trading cash instruments	\$ 426,390	\$ 143,601
Derivatives	51,120	56,754
Total	\$ 477,510	\$ 200,355

See Note 5 for further information about trading cash instruments and Note 7 for further information about derivatives.

#### **Gains and Losses from Market Making**

The table below presents market making revenues by major product type.

	Three Mon Ended Septe		Nine Months Ended September			
\$ in millions	2024	2023	2024	2023		
Interest rates	\$ 4,527 \$	(861)	\$ 4,869	\$ 713		
Credit	116	511	1,877	1,160		
Currencies	(2,380)	2,850	1,280	4,946		
Equities	1,639	2,029	5,053	6,008		
Commodities	103	429	1,143	1,915		
Total	\$ 4,005 \$	4,958	\$ 14,222	\$ 14,742		

In the table above:

- Gains/(losses) include both realized and unrealized gains and losses. Gains/(losses) exclude related interest income and interest expense. See Note 23 for further information about interest income and interest expense.
- Gains/(losses) included in market making are primarily related to the firm's trading assets and liabilities, including both derivative and non-derivative financial instruments.
- Gains/(losses) are not representative of the manner in which the firm manages its business activities because many of the firm's market-making and client facilitation strategies utilize financial instruments across various product types. Accordingly, gains or losses in one product type frequently offset gains or losses in other product types. For example, most of the firm's longer-term derivatives across product types are sensitive to changes in interest rates and may be economically hedged with interest rate swaps. Similarly, a significant portion of the firm's trading cash instruments and derivatives across product types has exposure to foreign currencies and may be economically hedged with foreign currency contracts.

#### Note 7.

### **Derivatives and Hedging Activities**

#### **Derivative Activities**

Derivatives are instruments that derive their value from underlying asset prices, indices, reference rates and other inputs, or a combination of these factors. Derivatives may be traded on an exchange (exchange-traded) or they may be privately negotiated contracts, which are usually referred to as OTC derivatives. Certain of the firm's OTC derivatives are cleared and settled through central clearing counterparties (OTC-cleared), while others are bilateral contracts between two counterparties (bilateral OTC).

**Market Making.** As a market maker, the firm enters into derivative transactions to provide liquidity to clients and to facilitate the transfer and hedging of their risks. In this role, the firm typically acts as principal and is required to commit capital to provide execution, and maintains market-making positions in response to, or in anticipation of, client demand.

Risk Management. The firm also enters into derivatives to actively manage risk exposures that arise from its market-making and investing and financing activities. The firm's holdings and exposures are hedged, in many cases, on either a portfolio or risk-specific basis, as opposed to an instrument-by-instrument basis. The offsetting impact of this economic hedging is reflected in the same business segment as the related revenues. In addition, the firm may enter into derivatives designated as hedges under U.S. GAAP. These derivatives are used to manage interest rate exposure of certain fixed-rate unsecured borrowings and deposits and certain U.S. and non-U.S. government securities classified as available-for-sale, foreign exchange risk of certain available-for-sale securities and the net investment in certain non-U.S. operations.

The firm enters into various types of derivatives, including:

- Futures and Forwards. Contracts that commit counterparties to purchase or sell financial instruments, commodities or currencies in the future.
- **Swaps.** Contracts that require counterparties to exchange cash flows, such as currency or interest payment streams. The amounts exchanged are based on the specific terms of the contract with reference to specified rates, financial instruments, commodities, currencies or indices.
- **Options.** Contracts in which the option purchaser has the right, but not the obligation, to purchase from or sell to the option writer financial instruments, commodities or currencies within a defined time period for a specified price.

Derivatives are reported on a net-by-counterparty basis (i.e., the net payable or receivable for derivative assets and liabilities for a given counterparty) when a legal right of setoff exists under an enforceable netting agreement (counterparty netting). Derivatives are accounted for at fair value, net of cash collateral received or posted under enforceable credit support agreements (cash collateral netting). Derivative assets are included in trading assets and derivative liabilities are included in trading liabilities. Realized and unrealized gains and losses on derivatives not designated as hedges are included in market making (for derivatives included in Fixed Income, Currency and Commodities (FICC) and Equities within Global Banking & Markets), and other principal transactions (for derivatives included in Investment banking fees and Other within Global Banking & Markets, as well as derivatives in Asset & Wealth Management) in the consolidated statements of earnings. For each of the three and nine months ended September 2024 and September 2023, substantially all of the firm's derivatives were included in Global Banking & Markets.

The tables below present the gross fair value and the notional amounts of derivative contracts by major product type, the amounts of counterparty and cash collateral netting in the consolidated balance sheets, as well as cash and securities collateral posted and received under enforceable credit support agreements that do not meet the criteria for netting under U.S. GAAP.

Fair Value as of										
	Septem	ber 2024	Decemb	ber 2023						
	Derivative	Derivative	Derivative	Derivative						
\$ in millions	Assets	Liabilities	Assets	Liabilities						
Not accounted for as he	_									
Exchange-traded	\$ 4,287	•	\$ 3,401	\$ 1,129						
OTC-cleared	1,169	1,053	67,815	64,490						
Bilateral OTC	159,319	128,253	171,109	149,444						
Total interest rates	164,775	129,891	242,325	215,063						
OTC-cleared	2,495	2,607	1,271	1,533						
Bilateral OTC	10,459	9,155	11,554	8,601						
Total credit	12,954	11,762	12,825	10,134						
Exchange-traded	147	36	708	15						
OTC-cleared	559	721	1,033	1,632						
Bilateral OTC	82,713	88,634	88,158	95,742						
Total currencies	83,419	89,391	89,899	97,389						
Exchange-traded	8,972	9,269	5,468	5,998						
OTC-cleared	490	536	635	711						
Bilateral OTC	8,011	9,038	10,739	11,234						
Total commodities	17,473	18,843	16,842	17,943						
Exchange-traded	58,373	80,366	31,315	39,247						
OTC-cleared	65	135	122	171						
Bilateral OTC	35,310	52,099	28,601	40,696						
Total equities	93,748	132,600	60,038	80,114						
Subtotal	372,369	382,487	421,929	420,643						
Accounted for as hedges										
Bilateral OTC	276	7	298	9						
Total interest rates	276	7	298	9						
OTC-cleared	14	19	_	7						
Bilateral OTC	23	292	5	208						
Total currencies	37	311	5	215						
Subtotal	313	318	303	224						
Total gross fair value	\$ 372,682	\$ 382,805	\$ 422,232	\$ 420,867						
Offset in the consolidate	ed balance s	heets								
Exchange-traded	\$ (64,017)		\$ (32,722)	\$ (32,722)						
OTC-cleared	(4,366)		(67,272)							
Bilateral OTC	(211,199)	(211,199)	(221,395)							
Counterparty netting	(279,582)	(279,582)	(321,389)							
OTC-cleared	(7)	(217)	(1,335)							
Bilateral OTC	(43,770)	(36,310)	(48,388)	(42,238)						
Cash collateral netting	(43,777)	(36,527)	(49,723)							
Total amounts offset	\$ (323,359)	\$ (316,109)	\$ (371,112)							
Included in the consolid										
Exchange-traded	\$ 7,762		\$ 8,170							
OTC-cleared	419	488	2,269	786						
Bilateral OTC	41,142	39,969	40,681	42,301						
Total	\$ 49,323	\$ 66,696	\$ 51,120	\$ 56,754						
Not offset in the consoli	dated halan	ce sheets								
Cash collateral	\$ (566)		\$ (877)	\$ (2,732)						
Securities collateral	(14,746)	(9,010)	(13,425)							
Total	\$ 34,011	\$ 56,358	\$ 36,818							
10401	Ψ 54,011	Ψ 30,336	ψ 50,010	Ψ +7,000						

	Notional Amounts as of						
		September		December			
\$ in millions		2024		2023			
Not accounted for as hedges							
Exchange-traded	\$	3,063,477	\$	3,854,689			
OTC-cleared		16,243,462		16,007,915			
Bilateral OTC		11,819,755		12,390,595			
Total interest rates		31,126,694		32,253,199			
Exchange-traded		455		299			
OTC-cleared		770,983		498,720			
Bilateral OTC		741,550		619,975			
Total credit		1,512,988		1,118,994			
Exchange-traded		11,054		11,586			
OTC-cleared		388,404		268,293			
Bilateral OTC		6,748,886		6,363,700			
Total currencies		7,148,344		6,643,579			
Exchange-traded		399,347		306,787			
OTC-cleared		3,228		3,323			
Bilateral OTC		187,958		199,270			
Total commodities		590,533		509,380			
Exchange-traded		2,114,606		1,564,341			
OTC-cleared		1,463		1,487			
Bilateral OTC		1,351,531		1,204,140			
Total equities		3,467,600		2,769,968			
Subtotal		43,846,159		43,295,120			
Accounted for as hedges							
OTC-cleared		255,383		241,160			
Bilateral OTC		2,414		2,914			
Total interest rates		257,797		244,074			
OTC-cleared		5,184		1,227			
Bilateral OTC		11,334		9,130			
Total currencies		16,518		10,357			
Subtotal		274,315		254,431			
Total notional amounts	\$	44,120,474	\$	43,549,551			

#### In the tables above:

- Gross fair values exclude the effects of both counterparty netting and collateral, and therefore are not representative of the firm's exposure.
- Where the firm has received or posted collateral under credit support agreements, but has not yet determined such agreements are enforceable, the related collateral has not been netted.
- Notional amounts, which represent the sum of gross long and short derivative contracts, provide an indication of the volume of the firm's derivative activity and do not represent anticipated losses.
- Total gross fair value of derivatives included derivative assets of \$8.83 billion as of September 2024 and \$8.98 billion as of December 2023, and derivative liabilities of \$12.50 billion as of September 2024 and \$16.03 billion as of December 2023, which are not subject to an enforceable netting agreement or are subject to a netting agreement that the firm has not yet determined to be enforceable.

• During the second quarter of 2024, as permitted under the rules of a clearing organization in EMEA, the firm elected to settle its transactions with this clearing organization on a daily basis. The impact of reflecting transactions with this clearing organization as settled would have been a reduction in gross derivative assets of \$64.19 billion and a reduction in gross derivative liabilities of \$62.86 billion as of December 2023, and a corresponding decrease in counterparty and cash collateral netting, with no impact to the consolidated balance sheets.

#### **OTC Derivatives**

The table below presents OTC derivative assets and liabilities by tenor and major product type.

1 - 5 Greater than

As of September 2024		L	ess than	1 - 5	G	reater than			
Name	\$ in millions		1 Year	Years		5 Years		Total	
Interest rates	As of September 2024								
Credit         1,589         2,532         2,266         6,387           Currencies         9,725         8,067         4,708         22,500           Commodities         1,681         2,322         1,054         5,057           Equities         8,797         2,928         1,490         13,215           Counterparty netting in tenors         (3,134)         (2,452)         3,230         (8,816           Subtotal         \$23,826         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$23,826         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$24,943         \$15,063         \$15,063         \$15,063           Cross-tenor counterparty netting         \$2,303         \$15,063         \$25,188         \$23,815           Currencies         \$3,668         \$30,017         \$3,603         \$28,856           Counterparty netting in tenors         \$33,668         \$35,405         \$25,188         \$94,261           Cash collateral netting         \$1,245 <td>Assets</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Assets								
Credit         1,589         2,532         2,266         6,387           Currencies         9,725         8,067         4,708         22,500           Commodities         1,681         2,322         1,054         5,057           Equities         8,797         2,928         1,490         13,215           Counterparty netting in tenors         (3,134)         (2,452)         3,230         (8,816           Subtotal         \$23,826         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$23,826         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting         \$24,943         \$15,063         \$15,063         \$15,063           Cross-tenor counterparty netting         \$2,303         \$15,063         \$25,188         \$23,815           Currencies         \$3,668         \$30,017         \$3,603         \$28,856           Counterparty netting in tenors         \$33,668         \$35,405         \$25,188         \$94,261           Cash collateral netting         \$1,245 <td>Interest rates</td> <td>\$</td> <td>5,168</td> <td>\$11,546</td> <td>\$</td> <td>47,558</td> <td>\$</td> <td>64,272</td>	Interest rates	\$	5,168	\$11,546	\$	47,558	\$	64,272	
Currencies         9,725         8,067         4,708         22,500           Commodities         1,681         2,322         1,054         5,057           Equities         8,797         2,928         1,490         13,215           Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816)           Subtotal         \$23,826         \$24,943         \$53,846         \$10,2615           Cross-tenor counterparty netting         4,777         (43,777         (43,777           Total OTC derivative assets         4,561         4,561           Liabilities         1,235         2,700         1,263         5,1548         \$32,815           Credit         1,235         2,700         1,263         5,1548         \$32,815           Credit         1,245         2,700         1,268         6,330         \$15,968         5,1548         \$32,815           Credit         1,245         3,017         1,468         6,130         \$4,945         \$4,943         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,945         \$4,9		-	•		-	•	_		
Commodities			•	-		•			
Equities         8,797         2,928         1,490         13,215           Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816           Subtotal         \$23,826         \$24,943         \$53,846         \$10,615           Cross-tenor counterparty netting Cash collateral netting         ************************************			•			•			
Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816)           Subtotal         \$23,826         \$24,943         \$53,846         \$102,615           Cross-tenor counterparty netting Cash collateral netting         (17,277         (43,777)           Total OTC derivative assets         \$ 15,661         \$ 41,561           Liabilities           Interest rates         \$ 6,391         \$10,876         \$ 15,548         \$ 2,815           Credit         1,235         2,700         1,263         5,198           Currencies         15,063         7,163         6,630         28,856           Commodities         12,468         14,101         3,509         30,078           Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816)           Subtotal         \$ 33,668         \$35,405         \$ 25,188         9,261           Cross-tenor counterparty netting         \$ 33,668         \$ 35,405         \$ 25,188         9,261           Cross-tenor counterparty netting         \$ 2,518         \$ 25,188         9,261           Interest rates         \$ 9,511         \$ 12,178         \$ 49,045         \$ 70,734           Credit         1,814			•			•			
Subtotal   Subtotal   Cross-tenor counterparty netting   Cash collateral netting   Cash collat	•		•	•					
Cross-tenor counterparty netting   Cash collateral netting   Cash co	. , ,	_							
Cash collateral netting         (43,777           Total OTC derivative assets         \$ 41,561           Liabilities           Interest rates         \$ 6,391         \$10,876         \$ 15,548         \$ 32,815           Credit         1,235         2,700         1,263         5,198           Currencies         15,063         7,163         6,630         28,856           Commodities         12,468         14,101         3,030         30,078           Equities         12,468         14,101         3,230         30,078           Counterparty netting in tenors         (33,34)         (2,452)         3,230         30,8816           Subtotal         \$ 33,668         35,405         \$ 25,188         9,4261           Cross-tenor counterparty netting         \$ 25,188         9,4261         \$ 3,6627         \$ 25,188         9,4261           Cross-tenor counterparty netting         \$ 33,668         35,405         \$ 25,188         9,4261         \$ 40,457           Assets           Interest rates         \$ 9,511         \$ 12,178         \$ 49,045         \$ 70,734           Credit         1,814         3,283         1,961         7,058      <			23,826	\$24,943	\$	53,846			
Name	, , ,								
Interest rates	Cash collateral netting							(43,777)	
Interest rates	Total OTC derivative assets						\$	41,561	
Interest rates									
Credit         1,235         2,700         1,263         5,198           Currencies         15,063         7,163         6,630         28,856           Commodities         1,645         3,017         1,468         6,130           Equities         12,468         14,101         3,509         30,078           Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816           Subtotal         \$3,668         \$35,405         \$25,188         \$9,616           Cross-tenor counterparty netting         38,668         \$35,405         \$25,188         \$9,6527           Total OTC derivative liabilities         \$36,527         \$40,457         \$40,457           Assets           Interest rates         \$9,511         \$12,178         \$49,045         \$70,734           Credit         1,814         3,283         1,961         7,058           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,									
Currencies         15,063         7,163         6,630         28,856           Commodities         1,645         3,017         1,468         6,130           Equities         12,468         14,101         3,509         30,078           Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816           Subtotal         \$33,668         \$35,405         \$25,188         \$94,261           Cross-tenor counterparty netting         (17,277         Cash collateral netting         (17,277           Cash collateral netting         \$3,668         \$35,405         \$25,188         \$94,261           Cross-tenor counterparty netting         \$3,668         \$35,405         \$25,188         \$94,261           Cross-tenor counterparty netting         \$3,668         \$35,405         \$25,188         \$94,261           Cross-tenor counterparty netting         \$3,648         \$35,405         \$49,455         \$40,457           Assets         \$3,648         \$3,248         \$49,045         \$70,734         \$70,734           Credit         \$1,814         3,283         \$1,961         7,058         \$70,734         \$70,88         \$70,734         \$70,18         \$70,18         \$70,18         \$70,18         \$70,18		\$			\$		\$		
Commodities         1,645         3,017         1,468         6,130           Equities         12,468         14,101         3,509         30,078           Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816           Subtotal         \$ 33,668         \$35,405         \$ 25,188         \$ 94,261           Cross-tenor counterparty netting         (17,277         (36,527)           Total OTC derivative liabilities         \$ 40,457         \$ 40,457           Assets         Interest rates         \$ 9,511         \$ 12,178         \$ 49,045         \$ 70,734           Credit         1,814         3,283         1,961         7,058           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 27,014         \$ 26,004         \$ 55,943         \$ 10,861           Cross-tenor counterparty netting         \$ 27,014         \$ 26,004         \$ 55,943         \$ 10,862	Credit		1,235	2,700		1,263		5,198	
Equities         12,468 (3,134)         14,101 (2,452)         3,509 (8,816)           Subtotal         \$ 33,668 (35,405)         \$ 25,188 (94,261)           Cross-tenor counterparty netting Cash collateral netting         (36,527)           Total OTC derivative liabilities         \$ 40,457           Assets           Interest rates         \$ 9,511 (31,2178)         \$ 49,045 (37,734)           Credit         1,814 (3,283)         1,961 (7,058)           Currencies         9,117 (7,579)         5,479 (22,175)           Commodities         2,993 (2,574)         1,451 (7,018)           Equities         6,625 (3,155)         1,655 (11,435)           Counterparty netting in tenors         (3,046) (2,765)         (3,648) (9,459)           Subtotal         27,014 (26,004)         55,943 (16,288)           Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (49,723)           Total OTC derivative assets         \$ 11,952 (31,55)         1,655 (31,648)           Interest rates         \$ 11,952 (31,55)         1,067 (3,648)           Commodities         \$ 2,508 (3,643)         1,067 (4,367)           Currencies         15,335 (7,934)         7,299 (30,568)           Commodities         2,526 (3,6	Currencies		15,063	7,163		6,630		28,856	
Counterparty netting in tenors         (3,134)         (2,452)         (3,230)         (8,816           Subtotal         \$ 33,668         \$35,405         \$ 25,188         \$ 94,261           Cross-tenor counterparty netting Cash collateral netting         (17,277           Total OTC derivative liabilities         \$ 40,457           As of December 2023           Assets         Interest rates         \$ 9,511         \$12,178         \$ 49,045         \$ 70,734           Credit         1,814         3,283         1,961         7,058           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting         (49,723           Total OTC derivative assets         \$ 11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367	Commodities		1,645	3,017		1,468		6,130	
Subtotal   Sample	Equities		12,468	14,101		3,509		30,078	
Subtotal   Sample	Counterparty netting in tenors		(3,134)	(2,452)		(3,230)		(8,816)	
Cross-tenor counterparty netting	· · · · · · · · · · · · · · · · · · ·	\$							
Cash collateral netting         (36,527)           Total OTC derivative liabilities         \$ 40,457           As of December 2023           Assets         Interest rates         \$ 9,511         \$12,178         \$ 49,045         \$ 70,734           Credit         1,814         3,283         1,961         7,058           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Cash collateral netting         (49,723)           Total OTC derivative assets         11,952         \$15,972         \$17,540         \$45,644           Credit         792         2,508         1,067         4,367 <th col<="" td=""><td></td><td>-</td><td>,</td><td>+,</td><td>-</td><td>,</td><td></td><td></td></th>	<td></td> <td>-</td> <td>,</td> <td>+,</td> <td>-</td> <td>,</td> <td></td> <td></td>		-	,	+,	-	,		
Total OTC derivative liabilities         \$ 40,457           As of December 2023           Assets         Interest rates         \$ 9,511         \$12,178         \$ 49,045         \$ 70,734           Credit         1,814         3,283         1,961         7,054           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting         (49,723)         (16,288)           Cash collateral netting         (49,723)           Total OTC derivative assets           Liabilities           Interest rates         \$ 11,952         \$15,972         \$ 17,540         \$ 45,644           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568	, , ,								
As of December 2023  Assets  Interest rates \$ 9,511 \$12,178 \$ 49,045 \$70,734 Credit 1,814 3,283 1,961 7,058 Currencies 9,117 7,579 5,479 22,175 (20,000)  Equities 6,625 3,155 1,655 11,435 (20,000)  Counterparty netting in tenors (3,046) (2,765) (3,648) (9,459 (49,723 (4	ÿ	_							
Interest rates	Total OTO delivative nabilitie						Ψ	10,107	
Interest rates	As of December 2023								
Credit         1,814         3,283         1,961         7,058           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting         (49,723           Cash collateral netting         (49,723           Total OTC derivative assets         \$ 42,950           Liabilities         11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal	Assets								
Credit         1,814         3,283         1,961         7,058           Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting         (49,723           Cash collateral netting         (49,723           Total OTC derivative assets         \$ 42,950           Liabilities         11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal	Interest rates	\$	9.511	\$12,178	\$	49.045	\$	70.734	
Currencies         9,117         7,579         5,479         22,175           Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         27,014         \$26,004         \$55,943         \$108,961           Cross-tenor counterparty netting         (49,723)         (16,288)           Cash collateral netting         (49,723)           Total OTC derivative assets         \$42,950           Liabilities         11,952         \$15,972         \$17,540         \$45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$37,742         \$37,340         \$27,017         \$102,099 <t< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td></t<>					•				
Commodities         2,993         2,574         1,451         7,018           Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting Cash collateral netting         (49,723)         (49,723)           Total OTC derivative assets         \$ 42,950           Liabilities         11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724			,						
Equities         6,625         3,155         1,655         11,435           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting Cash collateral netting         (49,723)         (49,723)           Total OTC derivative assets         \$ 42,950           Liabilities         11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (42,724)			,						
Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting Cash collateral netting         (49,723)         (49,723)           Total OTC derivative assets         \$ 42,950           Liabilities         11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (42,724)									
Subtotal         \$ 27,014         \$26,004         \$ 55,943         \$108,961           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (49,723           Total OTC derivative assets         \$ 42,950           Liabilities         11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724	•								
Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (49,723)           Total OTC derivative assets         \$ 42,950           Liabilities           Interest rates         \$ 11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (42,724)	. , ,	_		- , ,	_				
Cash collateral netting         (49,723)           Total OTC derivative assets         \$ 42,950           Liabilities           Interest rates         \$ 11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$ 102,099           Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (42,724)			27,014	\$26,004	\$	55,943	\$		
Total OTC derivative assets         \$ 42,950           Liabilities           Interest rates         \$ 11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724									
Liabilities           Interest rates         \$ 11,952         \$15,972         \$ 17,540         \$ 45,464           Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724	Cash collateral netting							(49,723)	
Interest rates       \$ 11,952       \$15,972       \$ 17,540       \$ 45,464         Credit       792       2,508       1,067       4,367         Currencies       15,335       7,934       7,299       30,568         Commodities       2,526       3,643       1,419       7,588         Equities       10,183       10,048       3,340       23,571         Counterparty netting in tenors       (3,046)       (2,765)       (3,648)       (9,459         Subtotal       \$ 37,742       \$37,340       \$ 27,017       \$102,099         Cross-tenor counterparty netting       (16,288         Cash collateral netting       (42,724	Total OTC derivative assets						\$	42,950	
Interest rates       \$ 11,952       \$15,972       \$ 17,540       \$ 45,464         Credit       792       2,508       1,067       4,367         Currencies       15,335       7,934       7,299       30,568         Commodities       2,526       3,643       1,419       7,588         Equities       10,183       10,048       3,340       23,571         Counterparty netting in tenors       (3,046)       (2,765)       (3,648)       (9,459         Subtotal       \$ 37,742       \$37,340       \$ 27,017       \$102,099         Cross-tenor counterparty netting       (16,288         Cash collateral netting       (42,724	Linkillainn								
Credit         792         2,508         1,067         4,367           Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724		Φ.	11.050	Φ1E 070	Φ.	17 - 40	Φ.	45 404	
Currencies         15,335         7,934         7,299         30,568           Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724		Ъ			Ъ		\$		
Commodities         2,526         3,643         1,419         7,588           Equities         10,183         10,048         3,340         23,571           Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724									
Equities       10,183       10,048       3,340       23,571         Counterparty netting in tenors       (3,046)       (2,765)       (3,648)       (9,459)         Subtotal       \$ 37,742       \$37,340       \$ 27,017       \$102,099         Cross-tenor counterparty netting       (16,288)         Cash collateral netting       (42,724)			,					30,568	
Counterparty netting in tenors         (3,046)         (2,765)         (3,648)         (9,459)           Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288)           Cash collateral netting         (42,724)	Commodities			3,643				7,588	
Subtotal         \$ 37,742         \$37,340         \$ 27,017         \$102,099           Cross-tenor counterparty netting         (16,288           Cash collateral netting         (42,724	Equities		10,183	10,048		3,340		23,571	
Cross-tenor counterparty netting (16,288 Cash collateral netting (42,724	Counterparty netting in tenors		(3,046)	(2,765)		(3,648)		(9,459)	
Cross-tenor counterparty netting (16,288 Cash collateral netting (42,724	Subtotal	\$	37,742	\$37,340	\$	27,017	\$	102,099	
Cash collateral netting (42,724	Cross-tenor counterparty netting		•	•		•			
. Stat. 3 . 3 a3/1744/70 habilitio							2.		
							Ψ	.5,557	

In the table above:

- Tenor is based on the remaining contractual maturity for substantially all OTC derivative assets and liabilities.
- Counterparty netting within the same product type and tenor category is included within such product type and tenor category.
- Counterparty netting across product types within the same tenor category is included in counterparty netting in tenors. Where the counterparty netting is across tenor categories, the netting is included in cross-tenor counterparty netting.

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of derivatives, and Note 5 for information about derivatives within the fair value hierarchy.

#### **Credit Derivatives**

The firm enters into a broad array of credit derivatives to facilitate client transactions and to manage the credit risk associated with market-making and investing and financing activities. Credit derivatives are actively managed based on the firm's net risk position. Credit derivatives are generally individually negotiated contracts and can have various settlement and payment conventions. Credit events include failure to pay, bankruptcy, acceleration of indebtedness, restructuring, repudiation and dissolution of the reference entity.

The firm enters into the following types of credit derivatives:

- **Credit Default Swaps.** Single-name credit default swaps protect the buyer against the loss of principal on one or more bonds, loans or mortgages (reference obligations) in the event the issuer of the reference obligations suffers a credit event. The buyer of protection pays an initial or periodic premium to the seller and receives protection for the period of the contract. If there is no credit event, as defined in the contract, the seller of protection makes no payments to the buyer. If a credit event occurs, the seller of protection is required to make a payment to the buyer, calculated according to the terms of the contract.
- **Credit Options.** In a credit option, the option writer assumes the obligation to purchase or sell a reference obligation at a specified price or credit spread. The option purchaser buys the right, but does not assume the obligation, to sell the reference obligation to, or purchase it from, the option writer. The payments on credit options depend either on a particular credit spread or the price of the reference obligation.

- Credit Indices, Baskets and Tranches. Credit derivatives may reference a basket of single-name credit default swaps or a broad-based index. If a credit event occurs in one of the underlying reference obligations, the protection seller pays the protection buyer. The payment is typically a pro-rata portion of the transaction's total notional amount based on the underlying defaulted reference obligation. In certain transactions, the credit risk of a basket or index is separated into various portions (tranches), each having different levels of subordination. The most junior tranches cover initial defaults and once losses exceed the notional amount of these junior tranches, any excess loss is covered by the next most senior tranche.
- **Total Return Swaps.** A total return swap transfers the risks relating to economic performance of a reference obligation from the protection buyer to the protection seller. Typically, the protection buyer receives a floating rate of interest and protection against any reduction in fair value of the reference obligation, and the protection seller receives the cash flows associated with the reference obligation, plus any increase in the fair value of the reference obligation.

The firm economically hedges its exposure to written credit derivatives primarily by entering into offsetting purchased credit derivatives with identical underliers. Substantially all of the firm's purchased credit derivative transactions are with financial institutions and are subject to stringent collateral thresholds. In addition, upon the occurrence of a specified trigger event, the firm may take possession of the reference obligations underlying a particular written credit derivative, and consequently may, upon liquidation of the reference obligations, recover amounts on the underlying reference obligations in the event of default.

The table below presents information about credit derivatives.

		Cre	dit S	pread	on	Underlie	er (l	oasis poi	nts	)
								Greater		
				251 -		501 -		than		
\$ in millions		0 - 250		500		1,000		1,000		Total
As of September 2024										
Maximum Payout/Notio	nal	Amoun	t of	Writte	en (	Credit I	Der	ivatives	by	Tenor
Less than 1 year	\$1	86,245	\$20	),125	\$	623	\$	3,978	\$2	10,971
1 - 5 years	3	370,471	19	,922		5,596		7,210	4	03,199
Greater than 5 years		99,198	e	6,126		1,965		861	1	08,150
Total	\$6	55,914	\$46	6,173	\$	8,184	\$	12,049	\$7	22,320
Massissana Davida (Nati		- I A		- £ D	l			lie Danie	:	
Maximum Payout/Noti										
Offsetting		51,433		-	Þ	•	Þ	8,616		88,902
Other		82,425		5,149	Φ.	2,424	•	1,768		01,766
Total	<b>\$</b> /	33,858	\$30	,415	Þ	10,011	Þ	10,384	<b>\$</b> /	90,668
Fair Value of Written C	rec	lit Deriv	ativ	es						
Asset	\$	7,291	\$	832	\$	43	\$	333	\$	8,499
Liability		846		774		274		1,026		2,920
Net asset/(liability)	\$	6,445	\$	58	\$	(231)	\$	(693)	\$	5,579
Net asset/(liability)  As of December 2023	\$	6,445	\$	58	\$	(231)	\$	(693)	\$	5,579
•		•			_					
As of December 2023	nal	•	t of		en (				by	
As of December 2023  Maximum Payout/Notice	<b>na</b> l	l Amoun	t of	Writte	en (	Credit I	Der	ivatives	<b>by</b> \$1	Tenor
As of December 2023  Maximum Payout/Notion Less than 1 year	<b>na</b> l	<b>Amoun</b> 126,667	t of \$12	<b>Writt</b> 2,594	en (	Credit I	Der	ivatives 3,611	<b>by</b> \$1	<b>Tenor</b> 43,764
As of December 2023  Maximum Payout/Notio Less than 1 year 1 - 5 years	• <b>na</b> l \$1	I <b>Amoun</b> 126,667 324,577	\$12 \$12	<b>Writt</b> 0 2,594 1,371	en (	Credit I 892 5,613	Der	ivatives 3,611 5,802	<b>by</b> \$1	<b>Tenor</b> 43,764 847,363
As of December 2023  Maximum Payout/Notio Less than 1 year 1 - 5 years Greater than 5 years Total	91 \$1 \$2	1 <b>Amoun</b> 1 26,667 3 24,577 3 0,406 181,650	\$12 11 12 \$25	Writto 2,594 1,371 1,316 5,281	en (	Credit I 892 5,613 671 7,176	Der \$	ivatives 3,611 5,802 249 9,662	<b>by</b> \$1	<b>Tenor</b> 43,764 347,363 32,642 523,769
As of December 2023  Maximum Payout/Notion Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notion	51 \$1 \$2 \$2	1 Amoun 1 26,667 324,577 30,406 181,650	11 \$12 \$12 \$25	Writte 2,594 1,371 1,316 5,281	en (	Credit I 892 5,613 671 7,176 ased C	Der \$ \$	ivatives 3,611 5,802 249 9,662	<b>by</b> \$1 3	Tenor 43,764 347,363 32,642 523,769 ves
As of December 2023  Maximum Payout/Notio Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notio Offsetting	\$1 3 \$2 \$2 <b>\$2</b>	1 Amoun 1 26,667 324,577 30,406 181,650 al Amou	\$12 11 \$25 <b>unt</b> (\$11	Writto 2,594 1,371 1,316 5,281 of Pur	en (	Credit I 892 5,613 671 7,176 ased C 6,241	Der \$	ivatives 3,611 5,802 249 9,662 lit Deriv 8,246	\$1 3 \$5 <b>*ati</b>	Tenor 43,764 347,363 32,642 523,769 ves 23,328
As of December 2023  Maximum Payout/Notion Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notion Offsetting Other	\$1 \$1 \$2 \$2 \$3 \$3 \$1	1 Amoun 1 26,667 324,577 30,406 181,650 al Amou 396,984 1 55,468	\$12 11 \$25 <b>unt</b> ( \$11	Writto 2,594 1,371 1,316 5,281 of Pur 1,857 2,862	\$ \$ \$	Credit I 892 5,613 671 7,176 ased C 6,241 1,948	Serred	3,611 5,802 249 9,662 lit Deriv 8,246 1,619	\$5 \$5 <b>*ati</b>	Tenor 43,764 347,363 32,642 523,769 ves 423,328 71,897
As of December 2023  Maximum Payout/Notio Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notio Offsetting	\$1 \$1 \$2 \$2 \$3 \$3 \$1	1 Amoun 1 26,667 324,577 30,406 181,650 al Amou	\$12 11 \$25 <b>unt</b> ( \$11	Writto 2,594 1,371 1,316 5,281 of Pur 1,857 2,862	\$ \$ \$	Credit I 892 5,613 671 7,176 ased C 6,241 1,948	Der \$ \$	ivatives 3,611 5,802 249 9,662 lit Deriv 8,246	\$5 \$5 <b>*ati</b>	Tenor 43,764 347,363 32,642 523,769 ves 23,328
As of December 2023  Maximum Payout/Notion Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notion Offsetting Other	\$1 \$1 \$2 \$2 \$2 \$3 \$3 \$3 \$5	Amoun 126,667 324,577 30,406 181,650 al Amou 396,984 155,468 552,452	\$12 11 \$25 <b>unt</b> 6 \$11 12 \$24	Writto 2,594 1,371 1,316 5,281 of Pur 1,857 2,862 1,719	\$ \$ \$	Credit I 892 5,613 671 7,176 ased C 6,241 1,948	Serred	3,611 5,802 249 9,662 lit Deriv 8,246 1,619	\$5 \$5 <b>*ati</b>	Tenor 43,764 347,363 32,642 523,769 ves 423,328 71,897
As of December 2023  Maximum Payout/Notion Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notion Offsetting Other Total	\$1 \$1 \$2 \$2 \$2 \$3 \$3 \$3 \$5	Amoun 126,667 324,577 30,406 181,650 al Amou 396,984 155,468 552,452	\$12 11 \$28 \$11 12 \$24	Writto 2,594 1,371 1,316 5,281 of Pur 1,857 2,862 1,719	\$ <b>s ch</b> \$	Credit I 892 5,613 671 7,176 ased C 6,241 1,948	Serred	3,611 5,802 249 9,662 lit Deriv 8,246 1,619	\$5 \$5 \$4 1 \$5	Tenor 43,764 347,363 32,642 523,769 ves 423,328 71,897
As of December 2023  Maximum Payout/Notion Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notion Offsetting Other Total  Fair Value of Written C	\$1 \$2 \$2 \$3 \$3 \$3 \$5	Amoun 26,667 324,577 30,406 181,650 al Amou 396,984 155,468 552,452	\$12 11 \$28 \$11 12 \$24	Writto 2,594 1,371 1,316 5,281 of Pur 1,857 2,862 4,719 es	\$ \$ \$ \$ \$ \$	Credit I 892 5,613 671 7,176 ased C 6,241 1,948 8,189	\$ \$ \$ \$	ivatives 3,611 5,802 249 9,662 lit Deriv 8,246 1,619 9,865	\$5 \$5 \$4 1 \$5	Tenor 43,764 447,363 32,642 523,769 ves 123,328 71,897 595,225
As of December 2023  Maximum Payout/Notion Less than 1 year 1 - 5 years Greater than 5 years Total  Maximum Payout/Notion Offsetting Other Total  Fair Value of Written Contents Asset	\$1 \$2 \$2 \$3 \$3 \$3 \$5	Amoun 126,667 324,577 30,406 181,650 al Amou 396,984 155,468 552,452 lit Deriv 11,147	\$12 11 \$28 \$11 12 \$24 \$24	Writto 2,594 1,371 1,316 5,281 of Pur 1,857 2,862 1,719 es	\$ \$ \$ \$ \$ \$	Credit I 892 5,613 671 7,176 ased C 6,241 1,948 8,189	\$ \$ \$ \$	ivatives 3,611 5,802 249 9,662 lit Deriv 8,246 1,619 9,865	\$5 \$5 <b>*ati</b> \$4 1 \$5	Tenor 43,764 447,363 32,642 323,769 ves 223,328 71,897 395,225

- Fair values exclude the effects of both netting of receivable balances with payable balances under enforceable netting agreements, and netting of cash received or posted under enforceable credit support agreements, and therefore are not representative of the firm's credit exposure.
- Tenor is based on the remaining contractual maturity for substantially all written credit derivatives.
- The credit spread on the underlier, together with the tenor of the contract, are indicators of payment/performance risk. The firm is less likely to pay or otherwise be required to perform where the credit spread and the tenor are lower.
- Offsetting purchased credit derivatives represent the notional amount of purchased credit derivatives that economically hedge written credit derivatives with identical underliers.
- Other purchased credit derivatives represent the notional amount of all other purchased credit derivatives not included in offsetting.
- Written and purchased credit derivatives primarily consist of credit default swaps.

#### Impact of Credit and Funding Spreads on Derivatives

The firm realizes gains or losses on its derivative contracts. These gains or losses include credit valuation adjustments (CVAs) relating to uncollateralized derivative assets and liabilities, which represent the gains or losses (including hedges) attributable to the impact of changes in credit exposure, counterparty credit spreads, liability funding spreads (which include the firm's own credit), probability of default and assumed recovery. These gains or losses also include funding valuation adjustments (FVA) relating to uncollateralized derivative assets, which represent the gains or losses (including hedges) attributable to the impact of changes in expected funding exposures and funding spreads.

The table below presents information about CVA and FVA.

	Three Months Ended September			Nine N Ended Se			
\$ in millions		2024		2023	2024		2023
CVA, net of hedges	\$	40	\$	101	\$ 67	\$	(72)
FVA, net of hedges		5		(53)	124		22
Total	\$	45	\$	48	\$ 191	\$	(50)

#### **Bifurcated Embedded Derivatives**

The table below presents the fair value and the notional amount of derivatives that have been bifurcated from their related borrowings.

	As of				
	Septemb	er	De	ecember	
\$ in millions	20	24		2023	
Fair value of assets	\$ 5	36	\$	450	
Fair value of liabilities	(2)	73)		(307)	
Net asset/(liability)	\$ 2	63	\$	143	
Notional amount	\$ 8,0	91	\$	8,082	

In the table above, derivatives that have been bifurcated from their related borrowings are recorded at fair value and primarily consist of interest rate, equity and commodity products. These derivatives are included in unsecured shortand long-term borrowings, as well as other secured financings, with the related borrowings.

#### **Derivatives with Credit-Related Contingent Features**

Certain of the firm's derivatives have been transacted under bilateral agreements with counterparties who may require the firm to post collateral or terminate the transactions based on changes in the firm's credit ratings. The firm assesses the impact of these bilateral agreements by determining the collateral or termination payments that would occur assuming a downgrade by all rating agencies. A downgrade by any one rating agency, depending on the agency's relative ratings of the firm at the time of the downgrade, may have an impact which is comparable to the impact of a downgrade by all rating agencies.

The table below presents information about net derivative liabilities under bilateral agreements (excluding collateral posted), the fair value of collateral posted and additional collateral or termination payments that could have been called by counterparties in the event of a one- or two-notch downgrade in the firm's credit ratings.

	As of				
	September			ecember	
\$ in millions		2024		2023	
Net derivative liabilities under bilateral agreements	\$	30,188	\$	30,021	
Collateral posted	\$	19,767	\$	20,758	
Additional collateral or termination payments:					
One-notch downgrade	\$	276	\$	271	
Two-notch downgrade	\$	1,770	\$	1,584	

#### **Hedge Accounting**

The firm applies hedge accounting for (i) interest rate swaps used to manage the interest rate exposure of certain fixed-rate unsecured long- and short-term borrowings, certain fixed-rate certificates of deposit and certain U.S. and non-U.S. government securities classified as available-for-sale, (ii) foreign currency forward contracts used to manage the foreign exchange risk of certain securities classified as available-for-sale and (iii) foreign currency forward contracts and foreign currency-denominated debt used to manage foreign exchange risk on the firm's net investment in certain non-U.S. operations.

To qualify for hedge accounting, the hedging instrument must be highly effective at reducing the risk from the exposure being hedged. Additionally, the firm must formally document the hedging relationship at inception and assess the hedging relationship at least on a quarterly basis to ensure the hedging instrument continues to be highly effective over the life of the hedging relationship.

#### Fair Value Hedges

The firm designates interest rate swaps as fair value hedges of certain fixed-rate unsecured long- and short-term debt and fixed-rate certificates of deposit and of certain U.S. and non-U.S. government securities classified as available-for-sale. These interest rate swaps hedge changes in fair value attributable to the designated benchmark interest rate (e.g., Secured Overnight Financing Rate (SOFR), Overnight Index Swap Rate or Sterling Overnight Index Average), effectively converting a substantial portion of these fixed-rate financial instruments into floating-rate financial instruments.

The firm applies a statistical method that utilizes regression analysis when assessing the effectiveness of these hedging relationships in achieving offsetting changes in the fair values of the hedging instrument and the risk being hedged (i.e., interest rate risk). An interest rate swap is considered highly effective in offsetting changes in fair value attributable to changes in the hedged risk when the regression analysis results in a coefficient of determination of 80% or greater and a slope between 80% and 125%.

For qualifying interest rate fair value hedges, gains or losses on derivatives are included in interest income/expense. The change in fair value of the hedged items attributable to the risk being hedged is reported as an adjustment to its carrying value (hedging adjustment) and is also included in interest income/expense. When a derivative is no longer designated as a hedge, any remaining difference between the carrying value and par value of the hedged item is amortized in interest income/expense over the remaining life of the hedged item using the effective interest method. See Note 23 for further information about interest income and interest expense.

The table below presents the gains/(losses) from interest rate derivatives accounted for as hedges and the related hedged items.

	Three Months Ended September			Nine Months Ended September				
\$ in millions		2024		2023		2024		2023
Investments								
Interest rate hedges	\$	(744)	\$	85	\$	(540)	\$	266
Hedged investments		744		(94)		542		(271)
Gains/(losses)	\$	-	\$	(9)	\$	2	\$	(5)
Borrowings and deposits								
Interest rate hedges	\$	4,867	\$	(2,735)	\$	2,941	\$	(2,583)
Hedged borrowings and deposits		(4,948)		2,543		(3,208)		2,127
Gains/(losses)	\$	(81)	\$	(192)	\$	(267)	\$	(456)

The table below presents the carrying value of investments, deposits and unsecured borrowings that are designated in an interest rate hedging relationship and the related cumulative hedging adjustment (increase/(decrease)) from current and prior hedging relationships included in such carrying values.

\$ in millions	Carrying Value	Cumulative Hedging Adjustment		
As of September 2024				
Assets				
Investments	\$	35,564	\$	434
Liabilities				
Deposits	\$	2,164	\$	(56)
Unsecured short-term borrowings	\$	16,522	\$	(186)
Unsecured long-term borrowings	\$	133,459	\$	(7,455)
As of December 2023				
Assets				
Investments	\$	16,523	\$	(104)
Liabilities				
Deposits	\$	3,435	\$	(123)
Unsecured short-term borrowings	\$	14,449	\$	(94)
Unsecured long-term borrowings	\$	134,992	\$	(10,810)

#### In the table above:

- Cumulative hedging adjustment included \$(6.19) billion as of September 2024 and \$(5.63) billion as of December 2023 of hedging adjustments from prior hedging relationships that were de-designated and substantially all were related to unsecured long-term borrowings.
- The amortized cost of investments was \$36.19 billion as of September 2024 and \$17.33 billion as of December 2023.

In addition, cumulative hedging adjustments for items no longer designated in a hedging relationship were not material as of both September 2024 and December 2023.

The firm designates foreign currency forward contracts as fair value hedges of the foreign exchange risk of non-U.S. government securities classified as available-for-sale. See Note 8 for information about the amortized cost and fair value of such securities. The effectiveness of such hedges is assessed based on changes in spot rates. The gains/(losses) on the hedges (relating to both spot and forward points) and the foreign exchange gains/(losses) on the related available-forsale securities are included in market making. The net gains/ (losses) on hedges and the related hedged available-for-sale securities were \$14 million (reflecting a loss of \$193 million related to hedges and a gain of \$207 million on the related hedged available-for-sale securities) for the three months ended September 2024 and were \$28 million (reflecting a loss of \$165 million related to hedges and a gain of \$193 million on the related hedged available-for-sale securities) for the nine months ended September 2024. The gross and net gains/ (losses) were not material for both the three and nine months ended September 2023.

#### **Net Investment Hedges**

The firm seeks to reduce the impact of fluctuations in foreign exchange rates on its net investments in certain non-U.S. operations through the use of foreign currency forward contracts and foreign currency-denominated debt. For foreign currency forward contracts designated as hedges, the effectiveness of the hedge is assessed based on the overall changes in the fair value of the forward contracts (i.e., based on changes in forward rates). For foreign currency-denominated debt designated as a hedge, the effectiveness of the hedge is assessed based on changes in spot rates. For qualifying net investment hedges, all gains or losses on the hedging instruments are included in currency translation.

The table below presents the gains/(losses) from net investment hedging.

	I hree Mor Ended Septe		iths ember		
\$ in millions	2024	2023		2024	2023
Hedges:					
Foreign currency forward contracts	\$ (314) \$	112	\$	193 \$	(25)
Foreign currency-denominated debt	\$(1,010) \$	839	\$	(41) \$	631

Gains or losses on individual net investments in non-U.S. operations are reclassified from accumulated other comprehensive income/(loss) to earnings when such net investments are sold or substantially liquidated. The gross and net gains/(losses) reclassified to earnings from accumulated other comprehensive income/(loss) were not material for each of the three and nine months ended September 2024 and September 2023.

The firm had designated \$23.71 billion as of September 2024 and \$27.52 billion as of December 2023 of foreign currency-denominated debt, included in unsecured long- and short-term borrowings, as hedges of net investments in non-U.S. subsidiaries.

#### Note 8. Investments

Investments includes equity securities and debt instruments that are accounted for at fair value and are generally held by the firm in connection with its long-term investing activities. In addition, investments includes debt securities classified as available-for-sale and held-to-maturity that are generally held in connection with the firm's asset-liability management activities. Investments also consists of equity securities that are accounted for under the equity method.

The table below presents information about investments.

	As of					
	September	December				
\$ in millions	2024		2023			
Equity securities, at fair value	\$ 13,999	\$	13,747			
Debt instruments, at fair value	11,492		12,879			
Available-for-sale securities, at fair value	78,018		49,141			
Investments, at fair value	103,509		75,767			
Held-to-maturity securities	79,309		70,310			
Equity-method investments	842		762			
Total investments	\$ 183,660	\$	146,839			

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of investments, and Note 5 for information about investments within the fair value hierarchy.

#### Equity Securities and Debt Instruments, at Fair Value

Equity securities and debt instruments, at fair value are accounted for at fair value either under the fair value option or in accordance with other U.S. GAAP, and the related fair value gains and losses are recognized in the consolidated statements of earnings.

**Equity Securities, at Fair Value.** Equity securities, at fair value consists of the firm's public and private equity investments in corporate and real estate entities.

The table below presents information about equity securities, at fair value.

	As of				
	Se	December			
\$ in millions		2024		2023	
Equity securities, at fair value	\$	13,999	\$	13,747	
Equity Type					
Public equity		9%		9%	
Private equity		91%		91%	
Total		100%		100%	
Asset Class					
Corporate		74%		73%	
Real estate		26%		27%	
Total		100%		100%	

In the table above:

- Equity securities, at fair value included investments accounted for at fair value under the fair value option where the firm would otherwise apply the equity method of accounting of \$5.19 billion as of September 2024 and \$5.18 billion as of December 2023. Gains/(losses) recognized as a result of changes in the fair value of equity securities for which the fair value option was elected were not material for the three months ended September 2024, \$(179) million for the nine months ended September 2024 and \$(591) million for the nine months ended September 2023. These gains/(losses) are included in other principal transactions.
- Equity securities, at fair value included \$1.03 billion as of September 2024 and \$1.27 billion as of December 2023 of investments in funds that are measured at NAV.
- Equity securities subject to contractual sale restrictions were not material as of both September 2024 and December 2023.

**Debt Instruments, at Fair Value.** Debt instruments, at fair value primarily includes mezzanine, senior and distressed debt.

The table below presents information about debt instruments, at fair value.

	As of				
	Se	December			
\$ in millions		2024		2023	
Corporate debt securities	\$	7,778	\$	8,992	
Securities backed by real estate		576		689	
Money market instruments		1,312		1,051	
Other		1,826		2,147	
Total	\$	11,492	\$	12,879	

- Money market instruments primarily consist of time deposits.
- Other included \$1.38 billion as of September 2024 and \$1.73 billion as of December 2023 of investments in credit funds that are measured at NAV.

#### Investments in Funds at Net Asset Value Per Share.

Equity securities and debt instruments, at fair value include investments in funds that are measured at NAV of the investment fund. The firm uses NAV to measure the fair value of fund investments when (i) the fund investment does not have a readily determinable fair value and (ii) the NAV of the investment fund is calculated in a manner consistent with the measurement principles of investment company accounting, including measurement of the investments at fair value.

Substantially all of the firm's investments in funds at NAV consist of investments in firm-sponsored private equity, credit, real estate and hedge funds where the firm co-invests with third-party investors.

Private equity funds primarily invest in a broad range of industries worldwide, including leveraged buyouts, recapitalizations, growth investments and distressed investments. Credit funds generally invest in loans and other fixed income instruments and are focused on providing private high-yield capital for leveraged and management buyout transactions, recapitalizations, financings, refinancings, acquisitions and restructurings for private equity firms, private family companies and corporate issuers. Real estate funds invest globally, primarily in real estate companies, loan portfolios, debt recapitalizations and property. Substantially all private equity, credit and real estate funds are closed-end funds in which the firm's investments are generally not eligible for redemption. Distributions will be received from these funds as the underlying assets are liquidated or distributed, the timing of which is uncertain.

The firm also invests in hedge funds, primarily multidisciplinary hedge funds that employ a fundamental bottomup investment approach across various asset classes and strategies. The firm's investments in hedge funds primarily include interests where the underlying assets are illiquid in nature, and proceeds from redemptions will not be received until the underlying assets are liquidated or distributed, the timing of which is uncertain. The table below presents the fair value of investments in funds at NAV and the related unfunded commitments.

\$ in millions	Fair Value of Investments			Unfunded Commitments
As of September 2024				
Private equity funds	\$	662	\$	441
Credit funds		1,379		366
Hedge funds		30		_
Real estate funds		340		88
Total	\$	2,411	\$	895
As of December 2023				
Private equity funds	\$	875	\$	484
Credit funds		1,733		248
Hedge funds		46		_
Real estate funds		346		65
Total	\$	3,000	\$	797

#### **Available-for-Sale Securities**

Available-for-sale securities are accounted for at fair value, and the related unrealized fair value gains and losses are included in accumulated other comprehensive income/(loss) unless designated in a fair value hedging relationship. See Note 7 for information about available-for-sale securities that are designated in a hedging relationship.

The table below presents information about available-forsale securities by tenor.

\$ in millions	Д	mortized Cost	Fair Value
As of September 2024			
Less than 1 year	\$	9,689	\$ 9,531
1 year to 5 years		59,168	58,869
5 years to 10 years		4,846	4,819
Greater than 10 years		559	551
Total U.S. government obligations		74,262	73,770
1 year to 5 years		3,540	3,310
5 years to 10 years		1,051	938
Total non-U.S. government obligations		4,591	4,248
Total available-for-sale securities	\$	78,853	\$ 78,018
As of December 2023			
Less than 1 year	\$	20,027	\$ 19,687
1 year to 5 years		27,592	26,500
5 years to 10 years		586	544
Total U.S. government obligations		48,205	46,731
Less than 1 year		11	11
1 year to 5 years		1,635	1,420
5 years to 10 years		1,150	979
Total non-U.S. government obligations		2,796	2,410
Total available-for-sale securities	\$	51,001	\$ 49,141

In the table above:

- The weighted average yield for available-for-sale securities was 3.29% as of September 2024 and 1.21% as of December 2023. The weighted average yield is presented on a pre-tax basis and computed using the effective interest rate of each security at the end of the period, weighted based on the fair value of each security. The effective interest rate considers the contractual coupon, the amortization of premiums and accretion of discounts, and excludes the effect of related hedges.
- The gross unrealized gains included in accumulated other comprehensive income/(loss) were \$321 million and the gross unrealized losses included in accumulated other comprehensive income/(loss) were \$1.16 billion as of September 2024, and such losses primarily related to U.S. government obligations in a continuous unrealized loss position for more than a year. The gross unrealized gains included in accumulated other comprehensive income/ (loss) were not material and the gross unrealized losses included in accumulated other comprehensive income/ (loss) were \$1.89 billion as of December 2023 and primarily related to U.S. government obligations in a continuous unrealized loss position for more than a year. Net unrealized gains included in other comprehensive income/ (loss) were \$674 million (\$504 million, net of tax) for the three months ended September 2024, \$431 million (\$317 million, net of tax) for the three months ended September 2023, \$1.03 billion (\$766 million, net of tax) for the nine months ended September 2024 and \$945 million (\$720 million, net of tax) for the nine months ended September 2023.
- Substantially all available-for-sale securities were classified in level 1 of the fair value hierarchy.
- If the fair value of available-for-sale securities is less than amortized cost, such securities are considered impaired. If the firm has the intent to sell the debt security, or if it is more likely than not that the firm will be required to sell the debt security before recovery of its amortized cost, the difference between the amortized cost (net of allowance, if any) and the fair value of the securities is recognized as an impairment loss in earnings. The firm did not record any such impairment losses during either the three or nine months ended September 2024 or September 2023. Impaired available-for-sale debt securities that the firm has the intent and ability to hold are reviewed to determine if an allowance for credit losses should be recorded. The firm considers various factors in such determination, including market conditions, changes in issuer credit ratings and severity of the unrealized losses. The firm did not record any provision for credit losses on such securities during either the three or nine months ended September 2024 or September 2023.

The table below presents cash inflows/(outflows) related to available-for-sale securities.

	Nine M Ended Sep	
\$ in millions	2024	2023
Purchases	\$ (52,927)	\$ (4,783)
Proceeds from sales	\$ 13,387	\$ 3,161
Proceeds from maturities	\$ 12,784	\$ 2,355

The firm sold available-for-sale securities of \$5.70 billion during the three months ended September 2024 and \$540 million during the three months ended September 2023, and gross realized gains and gross realized losses relating to the sales of available-for-sale securities were not material for each of the three and nine months ended September 2024 and September 2023. The specific identification method is used to determine realized gains on available-for-sale securities.

#### **Held-to-Maturity Securities**

Held-to-maturity securities are accounted for at amortized cost.

The table below presents information about held-to-maturity securities by type and tenor.

\$ in millions	Д	mortized Cost		Fair Value
As of September 2024				
Less than 1 year	\$	14,433	\$	14,367
1 year to 5 years		44,675		44,905
5 years to 10 years		219		223
Total government obligations		59,327		59,495
Greater than 10 years		19,763		20,011
Total U.S. agency obligations		19,763		20,011
1 year to 5 years		2		2
Greater than 10 years		217		218
Total securities backed by real estate		219		220
Total held-to-maturity securities	\$	79,309	\$	79,726
A of Danish at 2022				
As of December 2023			_	
Less than 1 year	\$	13,475		13,382
1 year to 5 years		54,789		54,352
5 years to 10 years		1,848		1,861
Total government obligations		70,112		69,595
1 year to 5 years		3		2
·		-		_
Greater than 10 years		195		195
Total securities backed by real estate		198		197
Total held-to-maturity securities	\$	70,310	\$	69,792

- Substantially all of the government obligations consist of U.S. government obligations.
- U.S. agency obligations consist of U.S. agency issued mortgage-backed securities.
- Substantially all of the securities backed by real estate consist of securities backed by residential real estate.

- As these securities are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these securities been included in the firm's fair value hierarchy, government obligations would have been classified in level 1, U.S. agency obligations would have been classified in level 2 and securities backed by real estate would have been primarily classified in level 2 of the fair value hierarchy.
- The weighted average yield for held-to-maturity securities was 4.06% as of September 2024 and 3.47% as of December 2023. The weighted average yield is presented on a pre-tax basis and computed using the effective interest rate of each security at the end of the period, weighted based on the amortized cost of each security. The effective interest rate considers the contractual coupon and the amortization of premiums and accretion of discounts.
- The gross unrealized gains were \$792 million as of September 2024 and \$383 million as of December 2023. The gross unrealized losses were \$375 million as of September 2024 and \$901 million as of December 2023.
- Held-to-maturity securities are reviewed to determine if an allowance for credit losses should be recorded in the consolidated statements of earnings. The firm considers various factors in such determination, including market conditions, changes in issuer credit ratings, historical credit losses and sovereign guarantees. Provision for credit losses on such securities was not material during either the three or nine months ended September 2024 or September 2023.

The table below presents cash inflows/(outflows) related to held-to-maturity securities.

	Nine Months Ended September
\$ in millions	<b>2024</b> 2023
Purchases	<b>\$(20,660)</b> \$(19,729)
Proceeds from paydowns and maturities	<b>\$ 12.598</b> \$ 3.646

#### Note 9.

#### Loans

Loans includes (i) loans held for investment that are accounted for at amortized cost net of allowance for loan losses or at fair value under the fair value option and (ii) loans held for sale that are accounted for at the lower of cost or fair value. Interest on loans is recognized over the life of the loan and is recorded on an accrual basis.

The table below presents information about loans.

	Amortized		Fair		Held For		
\$ in millions		Cost	Value		Sale	Total	
As of September 2024							
Loan Type							
Corporate	\$	31,616	\$ 462	\$	741	\$ 32,819	
Commercial real estate		27,952	414		47	28,413	
Residential real estate		21,326	3,692		_	25,018	
Securities-based		16,014	-		_	16,014	
Other collateralized		71,029	1,206		461	72,696	
Consumer:							
Installment		-	-		196	196	
Credit cards		18,165	-		1,743	19,908	
Other		1,290	65		82	1,437	
Total loans, gross		187,392	5,839		3,270	196,501	
Allowance for loan losses		(4,752)	_		_	(4,752)	
Total loans	\$	182,640	\$ 5,839	\$	3,270	\$191,749	
As of December 2023							
Loan Type							
Corporate	\$	33,866	\$ 759	\$	1,249	\$ 35,874	
Commercial real estate		25,025	563		440	26,028	
Residential real estate		21,243	4,145		_	25,388	
Securities-based		14,621	_		_	14,621	
Other collateralized		61,105	911		209	62,225	
Consumer:							
Installment		250	_		3,048	3,298	
Credit cards		17,432	_		1,929	19,361	
Other		1,333	128		152	1,613	
Total loans, gross		174,875	6,506		7,027	188,408	
Allowance for loan losses		(5,050)	_		-	(5,050)	
Total loans	\$	169,825	\$ 6,506	\$	7,027	\$ 183,358	

- Loans held for investment that are accounted for at amortized cost include net deferred fees and costs, and unamortized premiums and discounts, which are amortized over the life of the loan. These amounts were less than 1% of loans accounted for at amortized cost as of both September 2024 and December 2023.
- Substantially all loans had floating interest rates as of both September 2024 and December 2023.
- During the third quarter of 2024, the firm transferred the seller financing loan portfolio (included in installment loans) to held for sale. The net carrying value of such loans at the time of transfer was not material. During the fourth quarter of 2024, the firm entered into an agreement to sell this portfolio and the sale is expected to be completed in the fourth quarter of 2024.
- During 2023, the firm sold \$3.24 billion of the Marcus loan portfolio (included in installment loans).
- During 2023, the firm sold approximately \$4.0 billion of the GreenSky loan portfolio (included in installment loans) and during the first quarter of 2024, sold the remaining GreenSky loan portfolio of \$3.69 billion.

- During 2023, the firm transferred approximately \$2.0 billion of the GM co-branded credit card portfolio to held for sale. During the fourth quarter of 2024, we entered into an agreement to transition the GM credit card program to another issuer. The transition is expected to be completed in the third quarter of 2025.
- During 2023, the firm purchased a portfolio of approximately \$15.0 billion of private equity capital call credit facilities (including approximately \$9.0 billion of funded loans) from the FDIC's auction of Signature Bank's loans.

The following is a description of the loan types in the table above:

- **Corporate.** Corporate loans includes term loans, revolving lines of credit, letter of credit facilities and bridge loans, and are principally used for operating and general corporate purposes, or in connection with acquisitions. Corporate loans are secured (typically by a senior lien on the assets of the borrower) or unsecured, depending on the loan purpose, the risk profile of the borrower and other factors.
- Commercial Real Estate. Commercial real estate loans includes originated loans that are directly or indirectly secured by hotels, retail stores, multifamily housing complexes and commercial and industrial properties. Commercial real estate loans also includes loans extended to clients who warehouse assets that are directly or indirectly backed by commercial real estate. In addition, commercial real estate includes loans purchased by the firm.
- **Residential Real Estate.** Residential real estate loans primarily includes loans extended to wealth management clients and to clients who warehouse assets that are directly or indirectly secured by residential real estate. In addition, residential real estate includes loans purchased by the firm.
- **Securities-Based**. Securities-based loans includes loans that are secured by stocks, bonds, mutual funds, and exchange-traded funds. These loans are primarily extended to the firm's wealth management clients and used for purposes other than purchasing, carrying or trading margin stocks. Securities-based loans require borrowers to post additional collateral on a daily basis (daily margin requirement) based on changes in the underlying collateral's fair value.

- Other Collateralized. Other collateralized loans includes loans that are backed by specific collateral (other than securities-based loans where there is a daily margin requirement and real estate loans). Such loans are extended to clients who warehouse assets that are directly or indirectly secured by corporate loans, consumer loans and other assets. Other collateralized loans also includes loans to investment funds (managed by third parties) that are collateralized by capital commitments of the funds' investors or assets held by the fund, as well as other secured loans extended to the firm's wealth management and corporate clients.
- **Installment**. Installment loans are unsecured loans that were originated by the firm.
- **Credit Cards.** Credit card loans are loans made pursuant to revolving lines of credit issued to consumers by the firm.
- Other. Other loans primarily includes unsecured loans extended to wealth management clients and unsecured consumer loans purchased by the firm.

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of loans, and Note 5 for information about loans within the fair value hierarchy.

#### **Credit Quality**

Risk Assessment. The firm's risk assessment process includes evaluating the credit quality of its loans by the firm's independent risk oversight and control function. For corporate loans and a majority of securities-based, real estate, other collateralized and other loans, the firm performs credit analyses which incorporate initial and ongoing evaluations of the capacity and willingness of a borrower to meet its financial obligations. These credit evaluations are performed on an annual basis or more frequently if deemed necessary as a result of events or changes in circumstances. The firm determines an internal credit rating for the borrower by considering the results of the credit evaluations and assumptions with respect to the nature of and outlook for the borrower's industry and the economic environment. For collateralized loans, the firm also takes into consideration collateral received or other credit support arrangements when determining an internal credit rating. For consumer loans and for loans that are not assigned an internal credit rating, including U.S. residential mortgage loans extended to wealth management clients, the firm reviews certain key metrics, including, but not limited to, the Fair Isaac Corporation (FICO) credit scores, loan to value ratios, delinquency status, collateral value and other risk factors.

The table below presents gross loans by an internally determined public rating agency equivalent or other credit metrics and the concentration of secured and unsecured loans.

	In		N	on-Investment-	Ot			
\$ in millions		Grade		Grade		Unrated		Total
As of September 202	4							
Accounting Method								
Amortized cost	\$	106,876	\$	49,575	\$	30,941	\$	187,392
Fair value		919		860		4,060		5,839
Held for sale		487		646		2,137	_	3,270
Total	\$	108,282	\$	51,081	\$	37,138	\$	196,501
Loan Type								
Corporate	\$	9,213	\$	23,485	\$	121	\$	32,819
Real estate:								
Commercial		14,778		13,483		152		28,413
Residential		9,453		3,515		12,050		25,018
Securities-based		12,239		262		3,513		16,014
Other collateralized		61,435		10,189		1,072		72,696
Consumer:								
Installment		-		_		196		196
Credit cards		_		_		19,908		19,908
Other		1,164		147		126		1,437
Total	\$	108,282	\$	51,081	\$	37,138	\$	196,501
Secured		92%		89%		45%		82%
Unsecured		8%		11%		55%		18%
Total		100%		100%		100%		100%
Total								
Total As of December 2023								
Total	\$	100%	\$	100%	\$	100%	\$	100%
Total As of December 2023 Accounting Method	\$		\$		\$		\$	
As of December 2023 Accounting Method Amortized cost	\$	<b>100%</b> 91,324	\$	<b>100%</b> 54,200	\$	<b>100%</b> 29,351	\$	<b>100%</b> 174,875
As of December 2023 Accounting Method Amortized cost Fair value	\$	91,324 1,212	\$	54,200 1,213	\$	29,351 4,081	\$	100% 174,875 6,506
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total		91,324 1,212 255		54,200 1,213 1,628		29,351 4,081 5,144		174,875 6,506 7,027
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type	\$	91,324 1,212 255 92,791	\$	54,200 1,213 1,628 57,041	\$	29,351 4,081 5,144 38,576	\$	174,875 6,506 7,027 188,408
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate		91,324 1,212 255		54,200 1,213 1,628		29,351 4,081 5,144		174,875 6,506 7,027
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate:	\$	91,324 1,212 255 92,791 9,408	\$	54,200 1,213 1,628 57,041 26,328	\$	29,351 4,081 5,144 38,576	\$	174,875 6,506 7,027 188,408
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial	\$	91,324 1,212 255 92,791 9,408 12,097	\$	54,200 1,213 1,628 57,041 26,328 13,574	\$	29,351 4,081 5,144 38,576	\$	174,875 6,506 7,027 188,408 35,874 26,028
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate:	\$	91,324 1,212 255 92,791 9,408	\$	54,200 1,213 1,628 57,041 26,328	\$	29,351 4,081 5,144 38,576	\$	174,875 6,506 7,027 188,408
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential	\$	91,324 1,212 255 92,791 9,408 12,097 10,771	\$	54,200 1,213 1,628 57,041 26,328 13,574 3,217	\$	29,351 4,081 5,144 38,576 138 357 11,400	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential Securities-based	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991	\$	54,200 1,213 1,628 57,041 26,328 13,574 3,217 561	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential Securities-based Other collateralized Consumer: Installment	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991	\$	54,200 1,213 1,628 57,041 26,328 13,574 3,217 561	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069 482 3,298	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621 62,225 3,298
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential Securities-based Other collateralized Consumer: Installment Credit cards	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991 48,536	\$	100%  54,200 1,213 1,628 57,041  26,328  13,574 3,217 561 13,207	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069 482 3,298 19,361	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621 62,225 3,298 19,361
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential Securities-based Other collateralized Consumer: Installment Credit cards Other	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991 48,536	\$	100%  54,200 1,213 1,628 57,041  26,328  13,574 3,217 561 13,207  - 154	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069 482 3,298 19,361 471	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621 62,225 3,298 19,361 1,613
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential Securities-based Other collateralized Consumer: Installment Credit cards	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991 48,536	\$	100%  54,200 1,213 1,628 57,041  26,328  13,574 3,217 561 13,207	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069 482 3,298 19,361	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621 62,225 3,298 19,361
As of December 2023 Accounting Method Amortized cost Fair value Held for sale Total Loan Type Corporate Real estate: Commercial Residential Securities-based Other collateralized Consumer: Installment Credit cards Other	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991 48,536	\$	100%  54,200 1,213 1,628 57,041  26,328  13,574 3,217 561 13,207  - 154	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069 482 3,298 19,361 471	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621 62,225 3,298 19,361 1,613
Total  As of December 2023  Accounting Method  Amortized cost  Fair value  Held for sale  Total  Loan Type  Corporate  Real estate:  Commercial  Residential  Securities-based  Other collateralized  Consumer:  Installment  Credit cards  Other  Total	\$	91,324 1,212 255 92,791 9,408 12,097 10,771 10,991 48,536 - 988 92,791	\$	100%  54,200 1,213 1,628 57,041  26,328  13,574 3,217 561 13,207  154 57,041	\$	29,351 4,081 5,144 38,576 138 357 11,400 3,069 482 3,298 19,361 471 38,576	\$	174,875 6,506 7,027 188,408 35,874 26,028 25,388 14,621 62,225 3,298 19,361 1,613 188,408

In the table above:

- Substantially all residential real estate loans included in the other metrics/unrated category consists of loans extended to wealth management clients. As of both September 2024 and December 2023, substantially all of such loans had a loan-to-value ratio of less than 80% and were performing in accordance with the contractual terms. Additionally, as of both September 2024 and December 2023, the vast majority of such loans had a FICO credit score of greater than 740.
- The vast majority of securities-based loans included in the other metrics/unrated category had a loan-to-value ratio of less than 80% and were performing in accordance with the contractual terms as of both September 2024 and December 2023.
- For installment and credit card loans included in the other metrics/unrated category, the evaluation of credit quality incorporates the borrower's FICO credit score. FICO credit scores are periodically refreshed by the firm to assess the updated creditworthiness of the borrower. See "Vintage" below for information about installment and credit card loans by FICO credit scores.

The firm also assigns a regulatory risk rating to its loans based on the definitions provided by the U.S. federal bank regulatory agencies. Total loans included 93% of loans as of September 2024 and 92% of loans as of December 2023 that were rated pass/non-criticized.

**Vintage.** The tables below present gross loans accounted for at amortized cost (excluding installment and credit card loans) by an internally determined public rating agency equivalent or other credit metrics and origination year for term loans.

	As of September 2024						
			Non-		Other		
\$ in millions	In	vestment- Grade	Investment- Grade		Metrics/ Unrated		Total
2024	\$	1,243			1	\$	3,916
2023	Ф	1,555	ع 2,672 1,599			Ф	3,154
2022		1,035	2,150		_		3,185
2021		320	2,728		_		3,165
2020		113	1,391		_		1,504
2019 or earlier		392	2,715		40		3,147
Revolving		4,432	9,154		1		13,587
Revolving converted to term		7,732	75				75
Corporate		9,090	22,484		42		31,616
2024		1,627	2,005		35		3,667
2023		1,005	1,437		_		2,442
2022		1,029	2,019		60		3,108
2021		664	2,407		_		3,071
2020		264	800		_		1,064
2019 or earlier		1,022	903		_		1,925
Revolving		8,697	3,557		5		12,259
Revolving converted to term		187	229		_		416
Commercial real estate		14,495	13,357		100		27,952
2024		294	_		1,209		1,503
2023		330	11		1,467		1,808
2022		93	51		2,570		2,714
2021		23	130		2,633		2,786
2020		_	23		41		64
2019 or earlier		_	30		305		335
Revolving		8,713	3,268		135		12,116
Residential real estate		9,453	3,513		8,360		21,326
2024		1,483	-		66		1,549
2023		39	-		-		39
2022		5	_		-		5
2019 or earlier		-	22		-		22
Revolving		10,712	240		3,447		14,399
Securities-based 2024		12,239	262 2,710		3,513 152		16,014
2023		3,256 4,879	1,332		148		6,118 6,359
2022		973	1,332		47		1,164
2021		1,213	611		78		1,104
2020		887	586		27		1,502
2019 or earlier		411	26		27		464
Revolving		47,787	4,307		259		52,353
Revolving converted to term		1,070	99				1,169
Other collateralized		60,476	9,815		738		71,029
2024		64	26		-		90
2023		100	8		_		108
2022		57	8		_		65
2021		6	_		23		29
2020		_	3				3
Revolving		896	99		_		995
Other		1,123	144		23		1,290
Total	\$	106,876	\$ 49,575		12,776	\$	169,227
Percentage of total		63%	29%		8%		100%

	As of December 2023						
			Non-		Other		
	Investment-		Investment-		Metrics/		
\$ in millions	Grade		Grade		Unrated		Total
2023	\$ 2,475	\$	1,912	\$	16	\$ 4	,403
2022	1,223		3,284		-	4	,507
2021	848		4,045		-	4	,893
2020	306		2,098		-	2	,404
2019	45		1,909		-	1	,954
2018 or earlier	371		2,102		-	2	,473
Revolving	3,857		9,355		20	13	,232
Corporate	9,125		24,705		36	33	,866
2023	553		1,547		38	2	,138
2022	1,251		2,838		_	4	,089
2021	1,134		2,661		_	3	,795
2020	271		1,234		_	1	,505
2019	430		631		_		,061
2018 or earlier	832		744		_		,576
Revolving	7,129		3,192		309		,630
Revolving converted to term	231		-		_		231
Commercial real estate	11,831		12,847		347	25	,025
2023	619		54		1,627		,300
2022	108		41		2,687		,836
2021	22		249		2,724		,995
2020	3		23		81		107
2019	6		23		89		95
2018 or earlier	-		20		254		274
					204	10	
Revolving  Residential real setate	9,813		2,823		7,462		,636
Residential real estate 2023	10,571		3,210		7,402	21	,243
	8		_		_		8
2022	5		-		_		5
2018 or earlier	10.070		303		- 000	1.4	303
Revolving	10,978		258		3,069		,305
Securities-based	10,991		561		3,069		,621
2023	5,412		2,767		245		,424
2022	1,940		293		69		,302
2021	1,883		845		102		,830
2020	1,256		469		32	1	,757
2019	177		74		9		260
2018 or earlier	436		66		21		523
Revolving	35,605		8,242		1	43	,848
Revolving converted to term	1,161						,161
Other collateralized	47,870		12,756		479	61	,105
2023	60		21		-		81
2022	67		9		-		76
2021	6		8		51		65
2020	_		3		218		221
2019	_		_		4		4
2018 or earlier	_		_		3		3
Revolving	803		80		-		883
Other	936		121		276	1	,333
Total	\$ 91,324	\$	54,200	\$	11,669	\$ 157	,193
Percentage of total	58%		35%		7%	1.	00%
i ercentage or total	50%		30%		/ 70	- 1	JU 70

The table below presents gross installment loans accounted for at amortized cost by refreshed FICO credit scores and origination year and gross credit card loans by refreshed FICO credit scores.

	Grea	ater than or		Less than	
\$ in millions	equal to 660			660	Total
As of September 2024					
Credit cards	\$	11,886	\$	6,279	\$ 18,165
Percentage		65%		35%	100%
As of December 2023					
2023	\$	79	\$	10	\$ 89
2022		132		18	150
2021 or earlier		11		_	11
Installment		222		28	250
Credit cards		11,119		6,313	17,432
Total	\$	11,341	\$	6,341	\$ 17,682
Percentage of total:					
Installment		89%		11%	100%
Credit cards		64%		36%	100%
Total		64%		36%	100%

In the table above, credit card loans consist of revolving lines of credit.

**Credit Concentrations.** The table below presents the concentration of gross loans by region.

	Carrying				
\$ in millions	Value	Americas	EMEA	Asia	Total
As of September 2024					
Corporate	\$ 32,819	66%	26%	8%	100%
Commercial real estate	28,413	78%	19%	3%	100%
Residential real estate	25,018	95%	4%	1%	100%
Securities-based	16,014	75%	25%	_	100%
Other collateralized	72,696	84%	15%	1%	100%
Consumer:					
Installment	196	100%	-	_	100%
Credit cards	19,908	100%	-	_	100%
Other	1,437	96%	4%	_	100%
Total	\$196,501	83%	15%	2%	100%
As of December 2023					
Corporate	\$ 35,874	63%	29%	8%	100%
Commercial real estate	26,028	80%	17%	3%	100%
Residential real estate	25,388	95%	4%	1%	100%
Securities-based	14,621	79%	20%	1%	100%
Other collateralized	62,225	89%	10%	1%	100%
Consumer:					
Installment	3,298	100%	-	-	100%
Credit cards	19,361	100%	-	-	100%
Other	1,613	97%	3%		100%
Total	\$188,408	84%	13%	3%	100%

In the table above:

- EMEA represents Europe, Middle East and Africa.
- The top five industry concentrations for corporate loans as
  of September 2024 were 23% for technology, media &
  telecommunications, 18% for diversified industrials, 14%
  for real estate, 10% for consumer & retail and 9% for
  healthcare.
- The top five industry concentrations for corporate loans as of December 2023 were 25% for technology, media & telecommunications, 17% for diversified industrials, 13% for real estate, 11% for consumer & retail and 9% for healthcare.

Nonaccrual, Past Due and Modified Loans. Loans accounted for at amortized cost (other than credit card loans) are placed on nonaccrual status when it is probable that the firm will not collect all principal and interest due under the contractual terms, regardless of the delinquency status or if a loan is past due for 90 days or more, unless the loan is both well collateralized and in the process of collection. At that time, all accrued but uncollected interest is reversed against interest income and interest subsequently collected is recognized on a cash basis to the extent the loan balance is deemed collectible. Otherwise, all cash received is used to reduce the outstanding loan balance. A loan is considered past due when a principal or interest payment has not been made according to its contractual terms. Credit card loans are not placed on nonaccrual status and accrue interest until the loan is paid in full or is charged off.

The table below presents information about past due loans.

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				90 days		
\$ in millions	30-	89 days		or more		Total
As of September 2024						
Corporate	\$	-	\$	19	\$	19
Commercial real estate		9		455		464
Residential real estate		21		21		42
Securities-based		7		_		7
Other collateralized		_		6		6
Consumer:						
Credit cards		441		453		894
Other		_		10		10
Total	\$	478	\$	964	\$	1,442
Total divided by gross loans a  As of December 2023	t amortized (	cost				0.8%
Corporate	\$	45	\$	73	\$	118
Commercial real estate	Ψ	137	Ψ	352	Ψ	489
Residential real estate		12		4		16
Securities-based		2		_		2
Other collateralized		9		7		16
Consumer:						
Installment		6		7		13
Credit cards		463		486		949
Other		7		11		18
Total	\$	681	\$	940	\$	1,621
Total divided by gross loans at a	mortized cost					0.9%

The table below presents information about nonaccrual loans.

	As of				
	September			December	
\$ in millions		2024		2023	
Corporate	\$	2,042	\$	1,779	
Commercial real estate		1,298		1,466	
Residential real estate		124		19	
Securities-based		49		_	
Other collateralized		755		860	
Other		13		17	
Total	\$	4,281	\$	4,141	
Total divided by gross loans at amortized cost		2.3%		2.4%	

In the table above:

- Nonaccrual loans included \$509 million as of September 2024 and \$600 million as of December 2023 of loans that were 30 days or more past due.
- Loans that were 90 days or more past due and still accruing were not material as of both September 2024 and December 2023.
- Allowance for loan losses as a percentage of total nonaccrual loans was 111.0% as of September 2024 and 122.0% as of December 2023.
- Commercial real estate, residential real estate, securities-based and other collateralized loans are collateral dependent loans and the repayment of such loans is generally expected to be provided by the operation or sale of the underlying collateral. The allowance for credit losses for such nonaccrual loans is determined by considering the fair value of the collateral less estimated cost to sell, if applicable. See Note 4 for further information about fair value measurements.

The firm may modify the terms of a loan agreement for a borrower experiencing financial difficulty. Such modifications may include, among other things, forbearance of interest or principal, payment extensions or interest rate reductions.

The table below presents the carrying value of loans, as of both September 2024 and September 2023, that were modified during each of the three and nine months ended September 2024 and September 2023.

	Three Month	าร	Nine Months				
	Ended September			<b>Ended September</b>			
\$ in millions	 2024	2023		2024	2023		
Modified loans	\$ <b>500</b> \$	172	\$	1,115 \$	755		

- Loan modifications during each of the three and nine months ended September 2024 and September 2023 were primarily in the form of term extensions. These extensions increased the weighted average term by 23 months for loans modified during the three months ended September 2024, by 20 months for loans modified during the three months ended September 2023, by 19 months for loans modified during the nine months ended September 2024 and by 15 months for loans modified during the nine months ended September 2023.
- Substantially all of the modified loans were related to corporate loans, commercial real estate loans and credit cards. Modified loans represented approximately 2% of corporate loans (at amortized cost), and approximately 1% of both commercial real estate (at amortized cost) and credit card loans (at amortized cost).
- Lending commitments related to modified loans were \$132 million as of September 2024 and were not material as of September 2023.
- During the nine months ended September 2024, loans that defaulted after being modified were not material. During the nine months ended September 2023, the firm charged off approximately \$100 million of loans that had defaulted after being modified. Substantially all of the remaining modified loans were performing in accordance with the modified contractual terms as of both September 2024 and September 2023.

#### **Allowance for Credit Losses**

The firm's allowance for credit losses consists of the allowance for losses on loans and lending commitments accounted for at amortized cost. Loans and lending commitments accounted for at fair value or accounted for at the lower of cost or fair value are not subject to an allowance for credit losses.

To determine the allowance for credit losses, the firm classifies its loans and lending commitments accounted for at amortized cost into wholesale and consumer portfolios. These portfolios represent the level at which the firm has developed and documented its methodology to determine the allowance for credit losses. The allowance for credit losses is measured on a collective basis for loans that exhibit similar risk characteristics using a modeled approach and on an asset-specific basis for loans that do not share similar risk characteristics.

The allowance for credit losses takes into account the weighted average of a range of forecasts of future economic conditions over the expected life of the loans and lending commitments. The expected life of each loan or lending commitment is determined based on the contractual term adjusted for extension options or demand features, or is modeled in the case of revolving credit card loans. The forecasts include baseline, favorable and adverse economic scenarios over a three-year period. For loans with expected lives beyond three years, the model reverts to historical loss information based on a non-linear modeled approach. The forecasted economic scenarios consider a number of risk factors relevant to the wholesale and consumer portfolios described below. The firm applies judgment in weighing individual scenarios each quarter based on a variety of factors, including the firm's internally derived economic market outlook, consensus, recent macroeconomic conditions and industry trends.

The allowance for credit losses also includes qualitative components which allow management to reflect the uncertain nature of economic forecasting, capture uncertainty regarding model inputs, and account for model imprecision and concentration risk.

Management's estimate of credit losses entails judgment about the expected life of the loan and loan collectability at the reporting dates, and there are uncertainties inherent in those judgments. The allowance for credit losses is subject to a governance process that involves review and approval by senior management within the firm's independent risk oversight and control functions. Personnel within the firm's independent risk oversight and control functions are responsible for forecasting the economic variables that underlie the economic scenarios that are used in the modeling of expected credit losses. While management uses the best information available to determine this estimate, future adjustments to the allowance may be necessary based on, among other things, changes in the economic environment or variances between actual results and the original assumptions used.

The table below presents gross loans and lending commitments accounted for at amortized cost by portfolio.

	As of						
	Septer	mber 2024	Decer	mber 2023			
\$ in millions	Loans	Lending Commitments	Loans	Lending Commitments			
Wholesale							
Corporate	\$ 31,616	\$ 157,650	\$ 33,866	\$ 141,976			
Commercial real estate	27,952	3,965	25,025	3,379			
Residential real estate	21,326	2,182	21,243	1,431			
Securities-based	16,014	1,535	14,621	691			
Other collateralized	71,029	29,692	61,105	23,020			
Other	1,290	775	1,333	888			
Consumer							
Installment	_	-	250	1			
Credit cards	18,165	63,104	17,432	56,479			
Total	\$ 187,392	\$ 258,903	\$ 174,875	\$ 227,865			

In the table above, wholesale loans included \$4.28 billion as of September 2024 and \$4.14 billion as of December 2023 of nonaccrual loans for which the allowance for credit losses was measured on an asset-specific basis. The allowance for credit losses on these loans was \$842 million as of September 2024 and \$778 million as of December 2023. These loans included \$794 million as of September 2024 and \$625 million as of December 2023 of loans which did not require a reserve as the loan was deemed to be recoverable.

See Note 18 for further information about lending commitments.

The following is a description of the methodology used to calculate the allowance for credit losses:

Wholesale. The allowance for credit losses for wholesale loans and lending commitments that exhibit similar risk characteristics is measured using a modeled approach. These models determine the probability of default and loss given default based on various risk factors, including internal credit ratings, industry default and loss data, expected life, macroeconomic indicators, the borrower's capacity to meet its financial obligations, the borrower's country of risk and industry, loan seniority and collateral type. For lending commitments, the methodology also considers the probability of drawdowns or funding. In addition, for loans backed by real estate, risk factors include the loan-to-value ratio, debt service ratio and home price index. The most significant inputs to the forecast model for wholesale loans and lending commitments include unemployment rates, GDP, credit spreads, commercial and industrial delinquency rates, short- and long-term interest rates, and oil prices.

The allowance for loan losses for wholesale loans that do not share similar risk characteristics, such as nonaccrual loans, is calculated using the present value of expected future cash flows discounted at the loan's effective rate, the observable market price of the loan, or, in the case of collateral dependent loans, the fair value of the collateral less estimated costs to sell, if applicable. Wholesale loans are charged off against the allowance for loan losses when deemed to be uncollectible.

Consumer. The allowance for credit losses for consumer loans that exhibit similar risk characteristics is calculated using a modeled approach which classifies consumer loans into pools based on borrower-related and exposure-related characteristics that differentiate a pool's risk characteristics from other pools. The factors considered in determining a pool are generally consistent with the risk characteristics used for internal credit risk measurement and management and include key metrics, such as FICO credit scores, delinquency status, loan vintage and macroeconomic indicators. The most significant inputs to the forecast model for consumer loans include unemployment rates and delinquency rates. The expected life of revolving credit card loans is determined by modeling expected future draws and the timing and amount of repayments allocated to the funded balance. The firm does not recognize an allowance for credit losses on credit card lending commitments as they are cancellable by the firm.

Credit card loans are charged off when they are 180 days past due. Installment loans were charged off when they were 120 days past due.

#### Allowance for Credit Losses Rollforward

The table below presents information about the allowance for credit losses.

\$ in millions	W	holesale	Co	onsumer	Total
Three Months Ended September 202	4				
Allowance for loan losses	_				
Beginning balance	\$	2,420	\$	2,388 \$	4,808
Charge-offs		(61)		(337)	(398)
Recoveries		72		27	99
Net (charge-offs)/recoveries		11		(310)	(299)
Provision		(97)		452	355
Other		(32)		(80)	(112)
	•		Φ.		
Ending balance	\$	2,302	\$	2,450 \$	4,752
Allowance ratio		1.4%		13.5%	2.5%
Net charge-off ratio		-		6.9%	0.7%
Allowance for losses on lending com	mitme	nts			
Beginning balance	\$	652	\$	- \$	652
Provision		44		_	44
Other		1		-	1
Ending balance	\$	697	\$	- \$	697
Three Months Ended September 2023					
Allowance for loan losses			_		
Beginning balance	\$	,	\$	2,735 \$	5,232
Charge-offs		(166)		(302)	(468)
Recoveries		9		26	35
Net (charge-offs)/recoveries		(157)		(276)	(433)
Provision		149		(37)	112
Other		(16)		_	(16)
Ending balance	\$	2,473	\$	2,422 \$	4,895
Allowance ratio		1.7%		13.3%	2.9%
		0.4%			1.0%
Net charge-off ratio Allowance for losses on lending com	mitmo			5.1%	1.076
	\$		\$	48 \$	777
Beginning balance	Ф		Φ		777
Provision		(57)		(48)	(105)
Other		(2)			(2)
Ending belongs	Φ		Φ		
Ending balance	\$	670	\$	- \$	670
Ending balance Nine Months Ended September 2024	\$		\$	- \$	
	\$		\$	- \$	
Nine Months Ended September 2024	\$ <b>\$</b>			- \$ 2,474 <b>\$</b>	
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance		670			670
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs		670 <b>2,576</b>		2,474 \$	670 <b>5,050</b>
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries		2,576 (117) 114		2,474 \$ (1,110) 75	5,050 (1,227) 189
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries		2,576 (117) 114 (3)		2,474 \$ (1,110) 75 (1,035)	5,050 (1,227) 189 (1,038)
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision		2,576 (117) 114 (3) (212)		2,474 \$ (1,110) 75 (1,035) 1,091	5,050 (1,227) 189 (1,038) 879
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other	\$	2,576 (117) 114 (3) (212) (59)	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80)	5,050 (1,227) 189 (1,038) 879 (139)
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision		2,576 (117) 114 (3) (212) (59) 2,302		2,474 \$ (1,110) 75 (1,035) 1,091	5,050 (1,227) 189 (1,038) 879 (139) 4,752
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other	\$	2,576 (117) 114 (3) (212) (59)	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80)	5,050 (1,227) 189 (1,038) 879 (139)
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio	\$	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio	\$	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5%
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio	\$	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5%
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com	\$ \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% —nts	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8%
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance	\$ \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8%
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other	\$ \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8%
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Beginning balance Provision Other Ending balance	\$ s	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023	\$ s	2,576 (117) 114 (3) (212) (59) 2,302 1.4%	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% nts 620 76 1 697	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance	\$ s	2,576 (117) 114 (3) (212) (59) 2,302 1.4% nts 620 76 1 697	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for Ioan Iosses Beginning balance Charge-offs	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% nts 620 76 1 697	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for Ioan Iosses Beginning balance Charge-offs	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% nts 620 76 1 697	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% nts 620 76 1 697	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%  - \$ \$ 2,981 \$ (893)	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 10 697	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$ 2,981 \$ (893) 76	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697
Nine Months Ended September 2024 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for Iosses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for Ioan Iosses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 10 697 2,562 (350) 32 (318)	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ - \$ 2,981 \$ (893) 76 (817)	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other	\$ mitme \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 10 697 2,562 (350) 32 (318) 293	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%  - \$ \$ 2,981 \$ (893) 76 (817) 258 -	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64)
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance	\$ mitmee \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% nts 620 76 1 697 2,562 (350) 32 (318) 293 (64) 2,473	\$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance for loan losses	\$ mitmee \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 10 697 2,562 (350) 32 (318) 293 (64) 2,473 1.7%	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ - \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$ 13.3%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off slyrecoveries Provision Other Ending balance Allowance ratio Net charge-off ratio	\$ mitmee \$ \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 10 (50) 32 (318) 293 (64) 2,473 1.7% 0.3%	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9% - \$ \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com	\$  mitme \$ \$  mitme	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 105 (350) 32 (318) 293 (64) 2,473 1.7% 0.3% ints	\$ \$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%  - \$ - \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$ 13.3% 5.1%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895 2.9% 0.9%
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Provision Other Ending balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance	\$ mitmee \$ \$	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 105 (350) 32 (318) 293 (64) 2,473 1.7% 0.3% ints 711	\$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%  - \$ - \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$ 13.3% 5.1%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895 2.9% 0.9%
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-offsolomous losses Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision	\$  mitme \$ \$  mitme	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 105 (350) 32 (318) 293 (64) 2,473 1.7% 0.3% ints 711 (37)	\$ \$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%  - \$ - \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$ 13.3% 5.1%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 0.8% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895 2.9% 0.9%
Nine Months Ended September 2024 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance Provision Other Ending balance Nine Months Ended September 2023 Allowance for loan losses Beginning balance Charge-offs Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-offsolomous losses Recoveries Net (charge-offs)/recoveries Provision Other Ending balance Allowance ratio Net charge-off ratio Allowance for losses on lending com Beginning balance	\$  mitme \$ \$  mitme	2,576 (117) 114 (3) (212) (59) 2,302 1.4% - 105 (350) 32 (318) 293 (64) 2,473 1.7% 0.3% ints 711	\$ \$ \$	2,474 \$ (1,110) 75 (1,035) 1,091 (80) 2,450 \$ 13.5% 7.9%  - \$ - \$ 2,981 \$ (893) 76 (817) 258 -  2,422 \$ 13.3% 5.1%	5,050 (1,227) 189 (1,038) 879 (139) 4,752 2.5% 620 76 1 697 5,543 (1,243) 108 (1,135) 551 (64) 4,895 2.9% 0.9%

In the table above:

- Other, for both the three and nine months ended September 2024, primarily represented the reduction to the allowance related to loans transferred to held for sale.
- The allowance ratio is calculated by dividing the allowance for loan losses by gross loans accounted for at amortized cost.
- The net charge-off ratio is calculated by dividing annualized net (charge-offs)/recoveries by average gross loans accounted for at amortized cost.

#### Forecast Model Inputs as of September 2024

When modeling expected credit losses, the firm employs a weighted, multi-scenario forecast, which includes baseline, adverse and favorable economic scenarios. As of September 2024, this multi-scenario forecast was weighted towards the baseline and adverse economic scenarios.

The table below presents the forecasted U.S. unemployment and U.S. GDP growth rates used in the baseline economic scenario of the forecast model.

	As of September 2024
U.S. unemployment rate	
Forecast for the quarter ended:	
December 2024	4.5%
June 2025	4.4%
December 2025	4.2%
Growth in U.S. GDP	
Forecast for the year:	
2024	2.6%
2025	1.8%
2026	1.8%

The adverse economic scenario of the forecast model reflects a global recession in the fourth quarter of 2024 through the third quarter of 2025, resulting in an economic contraction and rising unemployment rates. In this scenario, the U.S. unemployment rate peaks at approximately 7.4% during the fourth quarter of 2025 and the maximum decline in the quarterly U.S. GDP relative to the third quarter of 2024 is approximately 2.7%, which occurs during the third quarter of 2025.

In the table above:

- U.S. unemployment rate represents the rate forecasted as of the respective quarter-end.
- Growth in U.S. GDP represents the year-over-year growth rate forecasted for the respective years.
- While the U.S. unemployment and U.S. GDP growth rates are significant inputs to the forecast model, the model contemplates a variety of other inputs across a range of scenarios to provide a forecast of future economic conditions. Given the complex nature of the forecasting process, no single economic variable can be viewed in isolation and independently of other inputs.

#### **Allowance for Credit Losses Commentary**

Three Months Ended September 2024. The allowance for credit losses decreased by \$11 million during the three months ended September 2024, reflecting a reserve release relating to recoveries on previously impaired loans in the wholesale portfolio and a reserve reduction associated with the transfer of the seller financing loan portfolio to held for sale, partially offset by growth in the credit card portfolio.

Charge-offs for the three months ended September 2024 for wholesale loans were not material and charge-offs for consumer loans were related to credit cards.

**Nine Months Ended September 2024.** The allowance for credit losses decreased by \$221 million during the nine months ended September 2024, primarily reflecting a reserve release relating to the wholesale portfolio.

Charge-offs for the nine months ended September 2024 for wholesale loans were primarily related to corporate loans (principally related to term loans originated in 2022) and charge-offs for consumer loans were primarily related to credit cards.

Three Months Ended September 2023. The allowance for credit losses decreased by \$444 million during the three months ended September 2023, reflecting a net release related to the GreenSky loan portfolio (including a reserve reduction of \$637 million related to the transfer of the portfolio to held for sale) and lower modeled expected credit losses relating to the wholesale portfolio due to increased stability in the macroeconomic environment, partially offset by asset specific provisions in the wholesale portfolio and seasoning of the credit card portfolio.

Charge-offs for the three months ended September 2023 for wholesale loans (principally related to term loans originated in 2021) were primarily related to commercial real estate loans and charge-offs for consumer loans were primarily related to credit cards.

Nine Months Ended September 2023. The allowance for credit losses decreased by \$752 million during the nine months ended September 2023, reflecting a net release related to the GreenSky loan portfolio (including a reserve reduction of \$637 million related to the transfer of the GreenSky loan portfolio to held for sale), a reserve reduction of approximately \$440 million associated with the sale of Marcus loans and lower balances in corporate loans, partially offset by seasoning of the credit card portfolio.

Charge-offs for the nine months ended September 2023 for wholesale loans (principally related to term loans originated in 2021 and 2019) were primarily related to corporate loans and charge-offs for consumer loans were primarily related to credit cards.

#### **Estimated Fair Value**

The table below presents the estimated fair value of loans that are not accounted for at fair value and in what level of the fair value hierarchy they would have been classified if they had been included in the firm's fair value hierarchy.

	Carrying	Estimated Fair Value						
\$ in millions	Value	Level 2 Level 3 Total						
As of September 2024								
Amortized cost	\$ 182,640	\$ 95,364 \$ 89,394 \$ 184,758						
Held for sale	\$ 3,270	\$ 640 \$ 2,647 \$ 3,287						
As of December 2023								
Amortized cost	\$ 169,825	\$ 88,485 \$ 83,288 \$ 171,773						
Held for sale	\$ 7,027	\$ 3,992 \$ 3,038 \$ 7,030						

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of loans, and Note 5 for information about loans within the fair value hierarchy.

#### Note 10.

#### Fair Value Option

#### Other Financial Assets and Liabilities at Fair Value

In addition to trading assets and liabilities, and certain investments and loans, the firm accounts for certain of its other financial assets and liabilities at fair value, substantially all under the fair value option. The primary reasons for electing the fair value option are to:

- Reflect economic events in earnings on a timely basis;
- Mitigate volatility in earnings from using different measurement attributes (e.g., transfers of financial assets accounted for as financings are recorded at fair value, whereas the related secured financing would be recorded on an accrual basis absent electing the fair value option); and
- Address simplification and cost-benefit considerations (e.g., accounting for hybrid financial instruments at fair value in their entirety versus bifurcation of embedded derivatives and hedge accounting for debt hosts).

Hybrid financial instruments are instruments that contain bifurcatable embedded derivatives and do not require settlement by physical delivery of nonfinancial assets (e.g., physical commodities). If the firm elects to bifurcate the embedded derivative from the associated debt, the derivative is accounted for at fair value and the host contract is accounted for at amortized cost, adjusted for the effective portion of any fair value hedges. If the firm does not elect to bifurcate, the entire hybrid financial instrument is accounted for at fair value under the fair value option.

Other financial assets and liabilities accounted for at fair value under the fair value option include:

- Repurchase agreements and substantially all resale agreements;
- Certain securities borrowed and loaned transactions;
- Certain customer and other receivables and certain other assets and liabilities;
- Certain time deposits (deposits with no stated maturity are not eligible for a fair value option election), including structured certificates of deposit, which are hybrid financial instruments;
- Substantially all other secured financings, including transfers of assets accounted for as financings; and
- Certain unsecured short- and long-term borrowings, substantially all of which are hybrid financial instruments.

See Note 4 for an overview of the firm's fair value measurement policies, valuation techniques and significant inputs used to determine the fair value of other financial assets and liabilities, and Note 5 for information about other financial assets and liabilities within the fair value hierarchy.

# Gains and Losses on Other Financial Assets and Liabilities Accounted for at Fair Value Under the Fair Value Option

The table below presents the gains and losses recognized in earnings as a result of the election to apply the fair value option to certain financial assets and liabilities.

	Three Mo	nths	Nine Months			
	Ended Septe	ember	Ended Sept	tember		
\$ in millions	2024	2023	2024	2023		
Unsecured short-term borrowings	\$ (1,287) \$	(111)	\$ (2,477) \$	(2,934)		
Unsecured long-term borrowings	(3,707)	1,551	(4,781)	(890)		
Other	(316)	(38)	(525)	(177)		
Total	\$ (5,310) \$	1,402	\$ (7,783) \$	(4,001)		

- Gains/(losses) were substantially all included in market making.
- Gains/(losses) exclude contractual interest, which is included in interest income and interest expense, for all instruments other than hybrid financial instruments. See Note 23 for further information about interest income and interest expense.
- Gains/(losses) included in unsecured short- and long-term borrowings were substantially all related to the embedded derivative component of hybrid financial instruments. These gains and losses would have been recognized under other U.S. GAAP even if the firm had not elected to account for the entire hybrid financial instrument at fair value.

- Gains/(losses) included in other were primarily related to resale and repurchase agreements, deposits and other secured financings.
- Other financial assets and liabilities at fair value are frequently economically hedged with trading assets and liabilities. Accordingly, gains or losses on such other financial assets and liabilities can be partially offset by gains or losses on trading assets and liabilities. As a result, gains or losses on other financial assets and liabilities do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

Gains/(losses) on trading assets and liabilities accounted for at fair value under the fair value option are included in market making. See Note 6 for further information about gains/(losses) from market making. See Note 8 for information about gains/(losses) on equity securities and Note 9 for information about gains/(losses) on loans which are accounted for at fair value under the fair value option.

#### **Long-Term Debt Instruments**

The aggregate contractual principal amount of long-term other secured financings, for which the fair value option was elected, exceeded the related fair value by \$81 million as of September 2024 and \$147 million as of December 2023.

The aggregate contractual principal amount of unsecured long-term borrowings, for which the fair value option was elected, exceeded the related fair value by \$2.39 billion as of September 2024 and \$3.37 billion as of December 2023.

These debt instruments include both principal-protected and non-principal-protected long-term borrowings.

#### **Debt Valuation Adjustment**

The firm calculates the fair value of financial liabilities for which the fair value option is elected by discounting future cash flows at a rate which incorporates the firm's credit spreads.

The table below presents information about the net debt valuation adjustment (DVA) gains/(losses) on financial liabilities for which the fair value option was elected.

		Three Months			Nine Months			
	E	nded Septe	mber	Е	mber			
\$ in millions		2024	2023		2024	2023		
Pre-tax DVA	\$	(128) \$	443	\$	(514) \$	(370)		
After-tax DVA	\$	(95) \$	328	\$	(383) \$	(283)		

In the table above:

- After-tax DVA is included in debt valuation adjustment in the consolidated statements of comprehensive income.
- The gains/(losses) reclassified to market making in the consolidated statements of earnings from accumulated other comprehensive income/(loss) upon extinguishment of such financial liabilities were not material for each of the three and nine months ended September 2024 and September 2023.

#### **Loans and Lending Commitments**

The table below presents the difference between the aggregate fair value and the aggregate contractual principal amount for loans (included in trading assets and loans in the consolidated balance sheets) for which the fair value option was elected.

	As of					
	Se	ptember	D	ecember		
\$ in millions		2024		2023		
Performing loans						
Aggregate contractual principal in excess of fair value	\$	954	\$	1,893		
Loans on nonaccrual status and/or more than 90 days past due						
Aggregate contractual principal in excess of fair value	\$	2,072	\$	2,305		
Aggregate fair value	\$	1,168	\$	1,508		

In the table above, the aggregate contractual principal amount of loans on nonaccrual status and/or more than 90 days past due (which excludes loans carried at zero fair value and considered uncollectible) exceeds the related fair value primarily because the firm regularly purchases loans, such as distressed loans, at values significantly below the contractual principal amounts.

The total contractual amount of unfunded lending commitments for which the fair value option was elected was \$637 million as of September 2024 and \$878 million as of December 2023, and the related fair value of these lending commitments was not material as of both September 2024 and December 2023. See Note 18 for further information about lending commitments.

### Impact of Credit Spreads on Loans and Lending Commitments

The estimated net gain/(loss) attributable to changes in instrument-specific credit spreads on loans and lending commitments for which the fair value option was elected was not material for both the three and nine months ended September 2024. The estimated net loss was \$118 million for the three months ended September 2023 and \$170 million for the nine months ended September 2023. The firm generally calculates the fair value of loans and lending commitments for which the fair value option is elected by discounting future cash flows at a rate which incorporates the instrumentspecific credit spreads. For floating-rate loans and lending commitments, substantially all changes in fair value are attributable to changes in instrument-specific credit spreads, whereas for fixed-rate loans and lending commitments, changes in fair value are also attributable to changes in interest rates.

#### Note 11.

#### **Collateralized Agreements and Financings**

Collateralized agreements are resale agreements and securities borrowed. Collateralized financings are repurchase agreements, securities loaned and other secured financings. The firm enters into these transactions in order to, among other things, facilitate client activities, invest excess cash, acquire securities to cover short positions and finance certain firm activities.

Collateralized agreements and financings with the same settlement date are presented on a net-by-counterparty basis when such transactions meet certain settlement criteria and are subject to netting agreements. Interest on collateralized agreements, which is included in interest income, and collateralized financings, which is included in interest expense, is recognized over the life of the transaction. See Note 23 for further information about interest income and interest expense.

#### **Resale and Repurchase Agreements**

A resale agreement is a transaction in which the firm purchases financial instruments from a seller, typically in exchange for cash, and simultaneously enters into an agreement to resell the same or substantially the same financial instruments to the seller at a stated price plus accrued interest at a future date.

A repurchase agreement is a transaction in which the firm sells financial instruments to a buyer, typically in exchange for cash, and simultaneously enters into an agreement to repurchase the same or substantially the same financial instruments from the buyer at a stated price plus accrued interest at a future date.

Even though repurchase and resale agreements (including "repos- and reverses-to-maturity") involve the legal transfer of ownership of financial instruments, they are accounted for as financing arrangements because they require the financial instruments to be repurchased or resold before or at the maturity of the agreement. The financial instruments purchased or sold in resale and repurchase agreements typically include U.S. government and agency obligations, and investment-grade sovereign obligations.

The firm receives financial instruments purchased under resale agreements and makes delivery of financial instruments sold under repurchase agreements. To mitigate credit exposure, the firm monitors the market value of these financial instruments on a daily basis, and delivers or obtains additional collateral due to changes in the market value of the financial instruments, as appropriate. For resale agreements, the firm typically requires collateral with a fair value approximately equal to the carrying value of the relevant assets in the consolidated balance sheets.

Repurchase agreements and substantially all resale agreements are recorded at fair value under the fair value option. See Note 5 for further information about repurchase and resale agreements.

#### **Securities Borrowed and Loaned Transactions**

In a securities borrowed transaction, the firm borrows securities from a counterparty in exchange for cash or securities. When the firm returns the securities, the counterparty returns the cash or securities. Interest is generally paid periodically over the life of the transaction.

In a securities loaned transaction, the firm lends securities to a counterparty in exchange for cash or securities. When the counterparty returns the securities, the firm returns the cash or securities posted as collateral. Interest is generally paid periodically over the life of the transaction.

In a transaction where the firm lends securities and receives securities that can be delivered or pledged as collateral, the firm recognizes the securities received within securities borrowed and the obligation to return those securities within securities loaned in the consolidated balance sheets.

The firm receives securities borrowed and makes delivery of securities loaned. To mitigate credit exposure, the firm monitors the market value of these securities on a daily basis, and delivers or obtains additional collateral due to changes in the market value of the securities, as appropriate. For securities borrowed transactions, the firm typically requires collateral with a fair value approximately equal to the carrying value of the securities borrowed transaction.

Securities borrowed and loaned within FICC financing are recorded at fair value under the fair value option. See Note 5 for further information about securities borrowed and loaned accounted for at fair value.

Substantially all of the securities borrowed and loaned within Equities financing are recorded based on the amount of cash collateral advanced or received plus accrued interest. The firm also reviews such securities borrowed to determine if an allowance for credit losses should be recorded by taking into consideration the fair value of collateral received. As these agreements generally can be terminated on demand, they exhibit little, if any, sensitivity to changes in interest rates. Therefore, the carrying value of such agreements approximates fair value. As these agreements are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these agreements been included in the firm's fair value hierarchy, they would have been classified in level 2 as of both September 2024 and December 2023.

#### **Offsetting Arrangements**

The table below presents resale and repurchase agreements and securities borrowed and loaned transactions included in the consolidated balance sheets, as well as the amounts not offset in the consolidated balance sheets.

		Assets			Liabilities				
		Resale		Securities	F	Repurchase		Securities	
\$ in millions	а	greements		borrowed	a	greements		loaned	
As of September 202	4								
Included in the conso	lida	ated balan	се	sheets					
Gross carrying value	\$	314,611	\$	207,166	\$	364,072	\$	64,500	
Counterparty netting		(102,455)		(2,383)		(102,455)		(2,383)	
Total		212,156		204,783		261,617		62,117	
Amounts not offset									
		(20.120)		/7 O27\		(20.120)		/7 O27\	
Counterparty netting Collateral		(30,139)		(7,837)		(30,139)		(7,837)	
	_	(176,922)	_	(188,261)	_	(227,749)	_	(53,860)	
Total	\$	5,095	\$	8,685	\$	3,729	\$	420	
As of December 2023									
Included in the conso	lida	ated balan	се	sheets					
Gross carrying value	\$	315,112	\$	199,753	\$	341,194	\$	60,816	
Counterparty netting		(91,307)		(333)		(91,307)		(333)	
Total		223,805		199,420		249,887		60,483	
Amounts not offset									
Counterparty netting		(29,136)		(9,373)		(29,136)		(9,373)	
Collateral		(189,358)		(182,918)		(217,498)		(50,807)	
Total	\$	5,311	\$	7,129	\$		\$	303	

#### In the table above:

- Substantially all of the gross carrying values of these arrangements are subject to enforceable netting agreements.
- Where the firm has received or posted collateral under credit support agreements, but has not yet determined such agreements are enforceable, the related collateral has not been netted.
- Amounts not offset includes counterparty netting that does not meet the criteria for netting under U.S. GAAP and the fair value of collateral received or posted subject to enforceable credit support agreements.
- Resale agreements included in the consolidated balance sheets of \$211.87 billion as of September 2024 and \$223.54 billion as of December 2023 and all repurchase agreements included in the consolidated balance sheets are carried at fair value under the fair value option. See Note 5 for further information about resale agreements and repurchase agreements accounted for at fair value.
- Securities borrowed included in the consolidated balance sheets of \$47.03 billion as of September 2024 and \$44.93 billion as of December 2023, and securities loaned included in the consolidated balance sheets of \$10.67 billion as of September 2024 and \$8.93 billion as of December 2023 were at fair value under the fair value option. See Note 5 for further information about securities borrowed and securities loaned accounted for at fair value.

### Gross Carrying Value of Repurchase Agreements and Securities Loaned

The table below presents the gross carrying value of repurchase agreements and securities loaned by class of collateral pledged.

\$ in millions	Repurchase agreements			Securities loaned
As of September 2024				
Money market instruments	\$	209	\$	-
U.S. government and agency obligations		238,576		928
Non-U.S. government and agency obligations		97,675		1,485
Securities backed by commercial real estate		291		8
Securities backed by residential real estate		521		_
Corporate debt securities		14,881		495
State and municipal obligations		476		_
Other debt obligations		217		3
Equity securities		11,226		61,581
Total	\$	364,072	\$	64,500
As of December 2023				
Money market instruments	\$	3	\$	_
U.S. government and agency obligations		228,718		216
Non-U.S. government and agency obligations		85,230		376
Securities backed by commercial real estate		135		_
Securities backed by residential real estate		641		_
Corporate debt securities		10,585		230
State and municipal obligations		57		_
Other debt obligations		144		_
Equity securities		15,681		59,994
Total	\$	341,194	\$	60,816

The table below presents the gross carrying value of repurchase agreements and securities loaned by maturity.

	As of September 2024							
\$ in millions	R aç	Securities loaned						
No stated maturity and overnight	\$	135,136	\$	38,733				
2 - 30 days		113,573		1,676				
31 - 90 days		46,562		1,348				
91 days - 1 year		44,623		11,018				
Greater than 1 year		24,178		11,725				
Total	\$	364,072	\$	64,500				

- Repurchase agreements and securities loaned that are repayable prior to maturity at the option of the firm are reflected at their contractual maturity dates.
- Repurchase agreements and securities loaned that are redeemable prior to maturity at the option of the holder are reflected at the earliest dates such options become exercisable.

#### **Other Secured Financings**

In addition to repurchase agreements and securities loaned transactions, the firm funds certain assets through the use of other secured financings and pledges financial instruments and other assets as collateral in these transactions. These other secured financings include:

- Liabilities of CIEs and consolidated VIEs;
- Transfers of assets accounted for as financings rather than sales (e.g., pledged commodities, bank loans and mortgage whole loans); and
- Other structured financing arrangements.

Other secured financings included nonrecourse arrangements. Nonrecourse other secured financings were \$4.46 billion as of September 2024 and \$5.57 billion as of December 2023.

The firm has elected to apply the fair value option to substantially all other secured financings because the use of fair value eliminates non-economic volatility in earnings that would arise from using different measurement attributes. See Note 5 for further information about other secured financings that are accounted for at fair value.

Other secured financings that are not recorded at fair value are recorded based on the amount of cash received plus accrued interest, which generally approximates fair value. As these financings are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these financings been included in the firm's fair value hierarchy, substantially all would have been classified in level 3 as of both September 2024 and December 2023.

The table below presents information about other secured financings.

		U.S.	1	Non-U.S.	
\$ in millions		Dollar		Dollar	Total
As of September 2024					
Other secured financings (short-term):					
At fair value	\$	10,784	\$	4,650	\$ 15,434
At amortized cost		-		-	-
Other secured financings (long-term):					
At fair value		1,134		6,754	7,888
At amortized cost		186			186
Total other secured financings	\$	12,104	\$	11,404	\$ 23,508
Other secured financings collateralized I	oy:				
Financial instruments	\$	11,389	\$	9,381	\$ 20,770
Other assets	\$	715	\$	2,023	\$ 2,738
As of December 2023					
Other secured financings (short-term):					
At fair value	\$	3,385	\$	3,451	\$ 6,836
At amortized cost		_		368	368
Other secured financings (long-term):					
At fair value		1,872		3,846	5,718
At amortized cost		272		_	272
Total other secured financings	\$	5,529	\$	7,665	\$ 13,194
Other secured financings collateralized by:					
Financial instruments	\$	3,122	\$	6,755	\$ 9,877
Other assets	\$	2,407	\$	910	\$ 3,317

- Short-term other secured financings includes financings maturing within one year of the financial statement date and financings that are redeemable within one year of the financial statement date at the option of the holder.
- Non-U.S. dollar-denominated short-term other secured financings at amortized cost had a weighted average interest rate of 0.47% as of December 2023. This rate includes the effect of hedging activities.
- U.S. dollar-denominated long-term other secured financings at amortized cost had a weighted average interest rate of 3.31% as of September 2024 and 3.44% as of December 2023. These rates include the effect of hedging activities.
- Total other secured financings included \$3.04 billion as of September 2024 and \$2.34 billion as of December 2023 related to transfers of financial assets accounted for as financings rather than sales. Such financings were collateralized by financial assets, primarily included in trading assets, of \$3.07 billion as of September 2024 and \$2.36 billion as of December 2023.
- Other secured financings collateralized by financial instruments included \$19.99 billion as of September 2024 and \$8.38 billion as of December 2023 of other secured financings collateralized by trading assets, investments and loans, and included \$786 million as of September 2024 and \$1.49 billion as of December 2023 of other secured financings collateralized by financial instruments received as collateral and repledged.

The table below presents other secured financings by maturity.

		As of
\$ in millions	Septe	ember 2024
Other secured financings (short-term)	\$	15,434
Other secured financings (long-term):		
2025		1,885
2026		3,302
2027		512
2028		1,362
2029		211
2030 - thereafter		802
Total other secured financings (long-term)		8,074
Total other secured financings	\$	23,508

In the table above:

- Long-term other secured financings that are repayable prior to maturity at the option of the firm are reflected at their contractual maturity dates.
- Long-term other secured financings that are redeemable prior to maturity at the option of the holder are reflected at the earliest dates such options become exercisable.

#### **Collateral Received and Pledged**

The firm receives cash and securities (e.g., U.S. government and agency obligations, other sovereign and corporate obligations, as well as equity securities) as collateral, primarily in connection with resale agreements, securities borrowed, derivative transactions and customer margin loans. The firm obtains cash and securities as collateral on an upfront or contingent basis for derivative instruments and collateralized agreements to reduce its credit exposure to individual counterparties.

In many cases, the firm is permitted to deliver or repledge financial instruments received as collateral when entering into repurchase agreements and securities loaned transactions, primarily in connection with secured client financing activities. The firm is also permitted to deliver or repledge these financial instruments in connection with other secured financings, collateralized derivative transactions and firm or customer settlement requirements.

The firm also pledges certain trading assets in connection with repurchase agreements, securities loaned transactions and other secured financings, and other assets (substantially all real estate and cash) in connection with other secured financings to counterparties who may or may not have the right to deliver or repledge them.

The table below presents financial instruments at fair value received as collateral that were available to be delivered or repledged and were delivered or repledged.

	As of			
	September Decemb			
\$ in millions	2024	2023		
Collateral available to be delivered or repledged	\$ 1,058,968	\$ 1,002,891		
Collateral that was delivered or repledged	\$ 909,251	\$ 862,988		

The table below presents information about assets pledged.

		As of			
	S	eptember		December	
\$ in millions		2024		2023	
Pledged to counterparties that had the right to	del	iver or re	ple	dge	
Trading assets	\$	136,863	\$	110,567	
Pledged to counterparties that did not have the ri	ght	t to delive	r o	r repledge	
Trading assets	\$	187,118	\$	138,404	
Investments	\$	14,483	\$	22,165	
Loans	\$	12,331	\$	8,865	
Other assets	\$	2,005	\$	3,924	

The firm also segregates securities for regulatory and other purposes related to client activity. Such securities are segregated from trading assets and investments, as well as from securities received as collateral under resale agreements and securities borrowed transactions. Securities segregated by the firm were \$52.31 billion as of September 2024 and \$49.26 billion as of December 2023.

#### Note 12.

#### **Other Assets**

The table below presents other assets by type.

	As of			
	Se	ptember	D	ecember
\$ in millions		2024		2023
Property, leasehold improvements and equipment	\$	8,504	\$	11,244
Goodwill		5,909		5,916
Identifiable intangible assets		925		1,177
Operating lease right-of-use assets		2,072		2,171
Income tax-related assets		8,986		8,157
Miscellaneous receivables and other		8,461		7,925
Total	\$	34,857	\$	36,590

#### **Property, Leasehold Improvements and Equipment**

Property, leasehold improvements and equipment is net of accumulated depreciation and amortization of \$14.33 billion as of September 2024 and \$13.64 billion as of December 2023. Property, leasehold improvements and equipment included \$6.57 billion as of September 2024 and \$6.65 billion as of December 2023 that the firm uses in connection with its operations, and \$29 million as of September 2024 and \$124 million as of December 2023 of foreclosed real estate. The remainder is held by investment entities, including VIEs, consolidated by the firm. Substantially all property and equipment is depreciated on a straight-line basis over the useful life of the asset. Leasehold improvements are amortized on a straight-line basis over the shorter of the useful life of the improvement or the term of the lease. Capitalized costs of software developed or obtained for internal use are amortized on a straight-line basis over three years.

The firm tests property, leasehold improvements and equipment for impairment when events or changes in circumstances suggest that an asset's or asset group's carrying value may not be fully recoverable. To the extent the carrying value of an asset or asset group exceeds the projected undiscounted cash flows expected to result from the use and eventual disposal of the asset or asset group, the firm determines the asset or asset group is impaired and records an impairment equal to the difference between the estimated fair value and the carrying value of the asset or asset group. In addition, the firm will recognize an impairment prior to the sale of an asset or asset group if the carrying value of the asset or asset group exceeds its estimated fair value. Any impairments recognized are included in depreciation and amortization.

The firm had no material impairments during the three months ended September 2024, \$358 million during the nine months ended September 2024 and \$1.20 billion during the nine months ended September 2024 and \$1.20 billion during the nine months ended September 2023, related to commercial real estate in CIEs within Asset & Wealth Management. In addition, the firm had impairments related to capitalized software which were not material for each of the three and nine months ended September 2024, \$80 million during the three months ended September 2023, and \$113 million during the nine months ended September 2023, substantially all of which were included within Platform Solutions and Asset & Wealth Management.

#### Goodwill

Goodwill is the cost of acquired companies in excess of the fair value of net assets, including identifiable intangible assets, at the acquisition date.

The table below presents the carrying value of goodwill by reporting unit.

	As of				
	Se	ptember	De	ecember	
\$ in millions		2024		2023	
Global Banking & Markets:					
Investment banking	\$	267	\$	267	
FICC		269		269	
Equities		2,647		2,647	
Asset & Wealth Management:					
Asset management		1,417		1,410	
Wealth management		1,309		1,309	
Platform Solutions:					
Transaction banking and other		-		14	
Total	\$	5,909	\$	5,916	

Goodwill is assessed for impairment annually in the fourth quarter or more frequently if events occur or circumstances change that indicate an impairment may exist. When assessing goodwill for impairment, first, a qualitative assessment can be made to determine whether it is more likely than not that the estimated fair value of a reporting unit is less than its carrying value. If the results of the qualitative assessment are not conclusive, a quantitative goodwill test is performed. Alternatively, a quantitative goodwill test can be performed without performing a qualitative assessment.

The quantitative goodwill test compares the estimated fair value of each reporting unit with its carrying value (including goodwill and identifiable intangible assets). If the reporting unit's estimated fair value exceeds its carrying value, goodwill is not impaired. An impairment is recognized if the estimated fair value of a reporting unit is less than its carrying value and any such impairment is included in depreciation and amortization.

When performing a quantitative goodwill test, the estimated fair value of each reporting unit is based on valuation techniques the firm believes market participants would use to value these reporting units. Estimated fair values are generally derived from utilizing a relative value technique, which applies observable price-to-earnings multiples or price-to-book multiples of comparable competitors to the reporting units' net earnings or net book value, or a discounted cash flow valuation approach, for reporting units with businesses in early stages of development. The carrying value of each reporting unit reflects an allocation of total shareholders' equity and represents the estimated amount of total shareholders' equity required to support the activities of the reporting unit under currently applicable regulatory capital requirements.

In the fourth quarter of 2023, the firm performed its annual assessment of goodwill for impairment, for each of its reporting units with goodwill, by performing a qualitative assessment. Multiple factors, including performance indicators, macroeconomic indicators, firm and industry events, and fair value indicators, were considered with respect to each of these reporting units to determine whether it was more likely than not that the estimated fair value of each of those reporting units was less than its carrying value. As a result of the qualitative assessment, the firm determined that it was more likely than not that the estimated fair value of each reporting unit with goodwill exceeded its respective carrying value. Therefore, the firm determined that goodwill for each reporting unit was not impaired and that a quantitative goodwill test was not required.

During the third quarter of 2024, in connection with the planned sale of the firm's seller financing loan portfolio, the firm performed a quantitative goodwill test and determined that the goodwill associated with Transaction banking and other was impaired, and accordingly, recorded a \$14 million impairment. There were no events or changes in circumstances during the three or nine months ended September 2024 that would indicate that it was more likely than not that the estimated fair value of each of the other reporting units with goodwill did not exceed its respective carrying value as of September 2024.

#### **Identifiable Intangible Assets**

The table below presents identifiable intangible assets by type.

	As of				
	September			December	
\$ in millions		2024		2023	
Customer lists					
Gross carrying value	\$	2,250	\$	2,339	
Accumulated amortization		(1,348)		(1,292)	
Net carrying value		902		1,047	
Other					
Gross carrying value		97		866	
Accumulated amortization		(74)		(736)	
Net carrying value		23		130	
Total gross carrying value		2,347		3,205	
Total accumulated amortization		(1,422)		(2,028)	
Total net carrying value	\$	925	\$	1,177	

In the table above:

- The decrease in the net carrying value of identifiable intangible assets from December 2023 to September 2024 reflected a \$110 million reduction due to the sale of GreenSky Holdings, LLC (GreenSky) in the first quarter of 2024 and a \$72 million write-down in connection with the classification of the GM credit card program (included within Platform Solutions) as held for sale in the third quarter of 2024.
- Substantially all of the firm's identifiable intangible assets have finite useful lives and are amortized over their estimated useful lives generally using the straight-line method.

The tables below present information about the amortization of identifiable intangible assets.

	Three	Mo	nths		Nine N	∕lor	iths
	 Ended September		ptember Ended Se			epte	ember
\$ in millions	2024		2023		2024		2023
Amortization	\$ 95	\$	554	\$	154	\$	654

In the table above, amortization for both the three and nine months ended September 2024 included the write-down related to the GM credit card program noted above. Amortization for both the three and nine months ended September 2023 included a \$506 million write-down related to GreenSky. Both of these write-downs are included in depreciation and amortization.

		AS OT
\$ in millions	Septem	ber 2024
Estimated future amortization		
Remainder of 2024	\$	22
2025	\$	83
2026	\$	77
2027	\$	77
2028	\$	76
2029	\$	76

The firm tests identifiable intangible assets for impairment when events or changes in circumstances suggest that an asset's or asset group's carrying value may not be fully recoverable. To the extent the carrying value of an asset or asset group exceeds the projected undiscounted cash flows expected to result from the use and eventual disposal of the asset or asset group, the firm determines the asset or asset group is impaired and records an impairment equal to the difference between the estimated fair value and the carrying value of the asset or asset group. In addition, the firm will recognize an impairment prior to the sale of an asset or asset group if the carrying value of the asset or asset group exceeds its estimated fair value. Other than as noted above, there were no material impairments or write-downs during each of the three or nine months ended September 2024 or September 2023.

#### **Operating Lease Right-of-Use Assets**

The firm enters into operating leases for real estate, office equipment and other assets, substantially all of which are used in connection with its operations. For leases longer than one year, the firm recognizes a right-of-use asset representing the right to use the underlying asset for the lease term, and a lease liability representing the liability to make payments. The lease term is generally determined based on the contractual maturity of the lease. For leases where the firm has the option to terminate or extend the lease, an assessment of the likelihood of exercising the option is incorporated into the determination of the lease term. Such assessment is initially performed at the inception of the lease and is updated if events occur that impact the original assessment.

An operating lease right-of-use asset is initially determined based on the operating lease liability, adjusted for initial direct costs, lease incentives and amounts paid at or prior to lease commencement. This amount is then amortized over the lease term. Right-of-use assets and operating lease liabilities recognized (in non-cash transactions for leases entered into or assumed) by the firm were \$56 million for the three months ended September 2024, \$225 million for the nine months ended September 2023, \$109 million for the nine months ended September 2024 and \$306 million for the nine months ended September 2023. See Note 15 for information about operating lease liabilities.

For leases where the firm will derive no economic benefit from leased space that it has vacated or where the firm has shortened the term of a lease when space is no longer needed, the firm will record an impairment or accelerated amortization of right-of-use assets. There were no material impairments or accelerated amortizations during each of the three or nine months ended September 2024 or September 2023.

#### Miscellaneous Receivables and Other

Miscellaneous receivables and other included:

- Investments in qualified affordable housing projects of \$3.05 billion as of September 2024 and \$3.39 billion as of December 2023. The firm receives tax credits for such investments. See Note 17 for further information about these investments.
- Assets classified as held for sale were \$600 million as of September 2024 and \$518 million as of December 2023. See below for further information.

Assets Held for Sale. During the third quarter of 2024, in connection with the planned transition of the GM credit card program to another issuer, the firm classified the GM credit card program (within Platform Solutions) as held for sale. The firm had previously classified the GM co-branded credit card loans as held for sale in 2023. As of September 2024, the assets related to the GM credit card program consisted of the GM co-branded credit card portfolio of \$1.7 billion (included in loans). See Note 9 for further information about loans classified as held for sale.

Assets held for sale also included \$600 million as of September 2024 and \$327 million as of December 2023 of assets related to certain of the firm's consolidated investments within Asset & Wealth Management. Substantially all of these assets consisted of property and equipment and were included in miscellaneous receivables and other within other assets. In addition, as of December 2023, GreenSky (within Platform Solutions) was classified as held for sale. Assets related to GreenSky were approximately \$3.4 billion and consisted of loans of approximately \$3.0 billion (included in loans), segregated cash of approximately \$110 million (included in cash and cash equivalents), identifiable intangible assets of approximately \$110 million (included in identifiable intangible assets within other assets) and other assets of approximately \$190 million (included in miscellaneous receivables and other within other assets). During the first quarter of 2024, the firm completed the sale of GreenSky. See Note 9 for further information about loans classified as held for sale, above for further information about identifiable intangible assets, and Note 15 for information about liabilities classified as held for sale.

## Note 13. Deposits

The table below presents information about deposits.

	A	As of				
	Septembe	December				
\$ in millions	2024	2023				
U.S. offices	\$ 344,975	\$ 333,116				
Non-U.S. offices	100,336	95,301				
Total	\$ 445,311	\$ 428,417				

In the table above:

- Deposits include savings, demand and time deposits.
- All U.S. deposits were held at Goldman Sachs Bank USA (GS Bank USA). Substantially all non-U.S. deposits were held at Goldman Sachs International Bank (GSIB) and Goldman Sachs Bank Europe SE (GSBE).
- Substantially all deposits are interest-bearing.

The table below presents maturities of time deposits held in U.S. and non-U.S. offices.

	As of September 2024					
\$ in millions		U.S.		Non-U.S.		Total
Remainder of 2024	\$	29,735	\$	20,617	\$	50,352
2025		64,110		11,166		75,276
2026		4,588		319		4,907
2027		1,845		231		2,076
2028		945		205		1,150
2029		1,170		196		1,366
2030 - thereafter		1,080		51		1,131
Total	\$	103,473	\$	32,785	\$	136,258

In the table above:

- The aggregate amount of time deposits in denominations that met or exceeded the applicable insurance limits, or were otherwise not covered by insurance, were \$20.85 billion in U.S. deposits and \$32.30 billion in non-U.S. deposits.
- Time deposits included \$41.53 billion as of September 2024 and \$29.46 billion as of December 2023 of deposits accounted for at fair value under the fair value option. See Note 10 for further information about deposits accounted for at fair value.

The firm's savings and demand deposits are recorded based on the amount of cash received plus accrued interest, which approximates fair value. In addition, the firm designates certain derivatives as fair value hedges to convert a portion of its time deposits not accounted for at fair value from fixed-rate obligations into floating-rate obligations. The carrying value of time deposits not accounted for at fair value approximated fair value as of both September 2024 and December 2023. As these savings and demand deposits and time deposits are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these deposits been included in the firm's fair value hierarchy, they would have been classified in level 2 as of both September 2024 and December 2023.

### Note 14. Unsecured Borrowings

The table below presents information about unsecured borrowings.

	As of				
	S	December			
\$ in millions		2024	2023		
Unsecured short-term borrowings	\$	75,371	\$ 75,945		
Unsecured long-term borrowings		250,250	241,877		
Total	\$	325,621	\$ 317,822		

#### **Unsecured Short-Term Borrowings**

Unsecured short-term borrowings includes the portion of unsecured long-term borrowings maturing within one year of the financial statement date and unsecured long-term borrowings that are redeemable within one year of the financial statement date at the option of the holder.

The firm accounts for certain hybrid financial instruments at fair value under the fair value option. See Note 10 for further information about unsecured short-term borrowings that are accounted for at fair value. In addition, the firm designates certain derivatives as fair value hedges to convert a portion of its unsecured short-term borrowings not accounted for at fair value from fixed-rate obligations into floating-rate obligations. The carrying value of unsecured short-term borrowings that are not recorded at fair value generally approximates fair value due to the short-term nature of the obligations. As these unsecured short-term borrowings are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these borrowings been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both September 2024 and December 2023.

The table below presents information about unsecured short-term borrowings.

	As of			
	September Dec		ecember	
\$ in millions		2024		2023
Current portion of unsecured long-term borrowings	\$	38,551	\$	49,361
Hybrid financial instruments		33,158		23,073
Commercial paper		-		1,213
Other unsecured short-term borrowings		3,662		2,298
Total unsecured short-term borrowings	\$	75,371	\$	75,945
Weighted average interest rate		5.91%		3.64%

- Other unsecured short-term borrowings included \$1.50 billion of preferred stock for which the firm issued a notice of redemption in September 2024. See Note 19 for further information about the notice of redemption.
- The weighted average interest rates for these borrowings include the effect of hedging activities and exclude unsecured short-term borrowings accounted for at fair value under the fair value option. See Note 7 for further information about hedging activities.

#### **Unsecured Long-Term Borrowings**

The table below presents information about unsecured longterm borrowings.

	Non-U.S.					
\$ in millions	U.S. Dollar		Dollar	Total		
As of September 2024						
Fixed-rate obligations	\$ 120,492	\$	31,691	\$ 152,183		
Floating-rate obligations	64,768		33,299	98,067		
Total	\$ 185,260	\$	64,990	\$ 250,250		
As of December 2023						
Fixed-rate obligations	\$ 114,813	\$	34,762	\$ 149,575		
Floating-rate obligations	57,053		35,249	92,302		
Total	\$ 171,866	\$	70,011	\$ 241,877		

In the table above:

- Unsecured long-term borrowings consists principally of senior borrowings, which have maturities extending through 2061.
- Unsecured long-term borrowings included \$96.22 billion as of September 2024 and \$86.41 billion as of December 2023 of borrowings accounted for at fair value under the fair value option. The carrying value of unsecured long-term borrowings for which the firm did not elect the fair value option was \$154.03 billion as of September 2024 and \$155.47 billion as of December 2023. The estimated fair value of such unsecured long-term borrowings was \$157.37 billion as of September 2024 and \$157.75 billion as of December 2023. As these borrowings are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 4 and 5. Had these borrowings been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both September 2024 and December 2023.
- Floating-rate obligations includes equity-linked, creditlinked and indexed instruments. Floating interest rates are generally based on SOFR and Euro Interbank Offered Rate.
- U.S. dollar-denominated debt had interest rates ranging from 0.86% to 6.75% (with a weighted average rate of 4.03%) as of September 2024 and 0.86% to 6.75% (with a weighted average rate of 3.73%) as of December 2023. These rates exclude unsecured long-term borrowings accounted for at fair value under the fair value option.
- Non-U.S. dollar-denominated debt had interest rates ranging from 0.25% to 10.67% (with a weighted average rate of 2.00%) as of September 2024 and 0.25% to 7.25% (with a weighted average rate of 2.11%) as of December 2023. These rates exclude unsecured long-term borrowings accounted for at fair value under the fair value option.

The table below presents unsecured long-term borrowings by maturity.

		As of
\$ in millions	Septe	ember 2024
2025	\$	12,228
2026		34,312
2027		42,373
2028		31,263
2029		31,592
2030 - thereafter		98,482
Total	\$	250,250

In the table above:

- Unsecured long-term borrowings maturing within one year
  of the financial statement date and unsecured long-term
  borrowings that are redeemable within one year of the
  financial statement date at the option of the holder are
  excluded as they are included in unsecured short-term
  borrowings.
- Unsecured long-term borrowings that are repayable prior to maturity at the option of the firm are reflected at their contractual maturity dates.
- Unsecured long-term borrowings that are redeemable prior to maturity at the option of the holder are reflected at the earliest dates such options become exercisable.
- Unsecured long-term borrowings included \$(7.46) billion of adjustments to the carrying value of certain unsecured long-term borrowings resulting from the application of hedge accounting by year of maturity as follows: \$(50) million in 2025, \$(282) million in 2026, \$(744) million in 2027, \$(776) million in 2028, \$(693) million in 2029 and \$(4.91) billion in 2030 and thereafter.

The firm designates certain derivatives as fair value hedges to convert a portion of fixed-rate unsecured long-term borrowings not accounted for at fair value into floating-rate obligations. See Note 7 for further information about hedging activities.

The table below presents unsecured long-term borrowings, after giving effect to such hedging activities.

	As of					
	s	r Decembe				
\$ in millions		2024		2023		
Fixed-rate obligations	\$	23,523	\$	20,372		
Floating-rate obligations		226,727		221,505		
Total	\$	250,250	\$	241,877		

In the table above, the aggregate amounts of unsecured long-term borrowings had weighted average interest rates of 5.79% (4.49% related to fixed-rate obligations and 5.87% related to floating-rate obligations) as of September 2024 and 6.13% (3.44% related to fixed-rate obligations and 6.27% related to floating-rate obligations) as of December 2023. These rates exclude unsecured long-term borrowings accounted for at fair value under the fair value option.

#### **Subordinated Borrowings**

Unsecured long-term borrowings includes subordinated debt and junior subordinated debt. Subordinated debt that matures within one year is included in unsecured short-term borrowings. Junior subordinated debt is junior in right of payment to other subordinated borrowings, which are junior to senior borrowings. Long-term subordinated debt had maturities ranging from 2025 to 2045 as of both September 2024 and December 2023.

The table below presents information about subordinated borrowings.

\$ in millions	Par Amount	Carrying Value	Rate
As of September 2024	AITIOUITE	value	- I late
Subordinated debt	\$ 12,201	\$ 12,008	7.28%
Junior subordinated debt	968	1,062	5.80%
Total	\$ 13,169	\$ 13,070	7.17%
As of December 2023			
Subordinated debt	\$ 12,215	\$ 11,898	7.79%
Junior subordinated debt	968	1,053	6.30%
Total	\$ 13,183	\$ 12,951	7.68%

In the table above, the rate is the weighted average interest rate for these borrowings (excluding borrowings accounted for at fair value under the fair value option), including the effect of fair value hedges used to convert fixed-rate obligations into floating-rate obligations. See Note 7 for further information about hedging activities.

#### **Junior Subordinated Debt**

In 2004, Group Inc. issued \$2.84 billion of junior subordinated debt to Goldman Sachs Capital I, a Delaware statutory trust. Goldman Sachs Capital I issued \$2.75 billion of guaranteed preferred beneficial interests (Trust Preferred securities) to third parties and \$85 million of common beneficial interests to Group Inc. As of both September 2024 and December 2023, the outstanding par amount of junior subordinated debt held by Goldman Sachs Capital I was \$968 million and the outstanding par amount of Trust Preferred securities and common beneficial interests issued by Goldman Sachs Capital I was \$939 million and \$29 million, respectively. Goldman Sachs Capital I is a wholly-owned finance subsidiary of the firm for regulatory and legal purposes but is not consolidated for accounting purposes.

The firm pays interest semi-annually on the junior subordinated debt at an annual rate of 6.345% and the debt matures on February 15, 2034. The coupon rate and the payment dates applicable to the beneficial interests are the same as the interest rate and payment dates for the junior subordinated debt. The firm has the right, from time to time, to defer payment of interest on the junior subordinated debt, and therefore cause payment on Goldman Sachs Capital I's preferred beneficial interests to be deferred, in each case up to ten consecutive semi-annual periods. During any such deferral period, the firm will not be permitted to, among other things, pay dividends on or make certain repurchases of its common stock. Goldman Sachs Capital I is not permitted to pay any distributions on the common beneficial interests held by Group Inc. unless all dividends payable on the preferred beneficial interests have been paid in full.

# Note 15. Other Liabilities

The table below presents other liabilities by type.

	As of				
	Se	ptember	D	ecember	
\$ in millions		2024		2023	
Compensation and benefits	\$	7,796	\$	7,804	
Income tax-related liabilities		3,312		2,947	
Operating lease liabilities		2,175		2,232	
Noncontrolling interests		437		363	
Employee interests in consolidated funds		16		19	
Accrued expenses and other		9,424		10,438	
Total	\$	23,160	\$	23,803	

#### **Operating Lease Liabilities**

For leases longer than one year, the firm recognizes a rightof-use asset representing the right to use the underlying asset for the lease term, and a lease liability representing the liability to make payments. See Note 12 for information about operating lease right-of-use assets.

The table below presents information about operating lease liabilities.

Operating

\$ in millions lease		
As of September 2024		
Remainder of 2024	\$	64
2025		346
2026		313
2027		275
2028		249
2029 - thereafter		1,562
Total undiscounted lease payments		2,809
Imputed interest		(634)
Total operating lease liabilities	\$	2,175
Weighted average remaining lease term		12 years
Weighted average discount rate		4.18%
As of December 2023		
2024	\$	325
2025		325
2026		288
2027		256
2028		231
2029 - thereafter		1,462
Total undiscounted lease payments		2,887
Imputed interest		(655)
Total operating lease liabilities	\$	2,232
Weighted average remaining lease term		12 years
Weighted average discount rate		4.13%

In the table above, the weighted average discount rate represents the firm's incremental borrowing rate as of January 2019 for operating leases existing on the date of adoption of ASU No. 2016-02, "Leases (Topic 842)," and at the lease inception date for leases entered into subsequent to the adoption of this ASU.

Operating lease costs were \$119 million for the three months ended September 2024, \$124 million for the three months ended September 2023, \$361 million for the nine months ended September 2024 and \$362 million for the nine months ended September 2023. Variable lease costs, which are included in operating lease costs, were not material for each of the three and nine months ended September 2024 and September 2023. Total occupancy expenses for space held in excess of the firm's current requirements were not material for each of the three and nine months ended September 2024 and September 2023.

Lease payments relating to operating lease arrangements that were signed but had not yet commenced were \$1.10 billion as of September 2024.

#### **Accrued Expenses and Other**

Accrued expenses and other included:

- Liabilities classified as held for sale were not material as of September 2024 and were \$257 million as of December 2023, substantially all of which related to GreenSky within Platform Solutions and consisted primarily of customer and other payables. See Note 12 for further information about assets held for sale.
- Contract liabilities, which represent consideration received by the firm in connection with its contracts with clients prior to providing the service, were \$115 million as of September 2024 and \$76 million as of December 2023.
- Accrued unfunded commitments related to investments in qualified affordable housing projects were \$2.00 billion as of September 2024 and \$2.26 billion as of December 2023. See Note 17 for further information about these investments.

### Note 16. Securitization Activities

The firm securitizes residential and commercial mortgages, corporate bonds, loans and other types of financial assets by selling these assets to securitization vehicles (e.g., trusts, corporate entities and limited liability companies) or through a resecuritization. The firm acts as underwriter of the beneficial interests that are sold to investors. The firm's residential mortgage securitizations are primarily in connection with government agency securitizations.

The firm accounts for a securitization as a sale when it has relinquished control over the transferred financial assets. Prior to securitization, the firm generally accounts for assets pending transfer at fair value and therefore does not typically recognize significant gains or losses upon the transfer of assets. Net revenues from underwriting activities are recognized in connection with the sales of the underlying beneficial interests to investors.

The firm generally receives cash in exchange for the transferred assets but may also have continuing involvement with the transferred financial assets, including ownership of beneficial interests in securitized financial assets, primarily in the form of debt instruments. The firm may also purchase senior or subordinated securities issued by securitization vehicles (which are typically VIEs) in connection with secondary market-making activities.

The primary risks included in beneficial interests and other interests from the firm's continuing involvement with securitization vehicles are the performance of the underlying collateral, the position of the firm's investment in the capital structure of the securitization vehicle and the market yield for the security. Interests accounted for at fair value are primarily classified in level 2 of the fair value hierarchy. Interests not accounted for at fair value are carried at amounts that approximate fair value. See Note 4 for further information about fair value measurements.

The table below presents the amount of financial assets securitized and the cash flows received on retained interests in securitization entities in which the firm had continuing involvement as of the end of the period.

	Three Months Ended September		Er		Months eptember		
\$ in millions	2024	-	2023		2024		2023
Residential mortgages	\$10,708	\$	6,894	\$2	2,588	\$1	8,267
Commercial mortgages	1,600		1,798		4,201	;	3,196
Other financial assets	1,046		_		1,268		996
Total financial assets securitized	\$13,354	\$	8,692	\$2	8,057	\$2	2,459
Retained interests cash flows	\$ 218	\$	187	\$	503	\$	407

The firm securitized assets of \$120 million during the three months ended September 2024, \$39 million during the three months ended September 2023, \$250 million during the nine months ended September 2024 and \$149 million during the nine months ended September 2023, in a non-cash exchange for loans and investments.

The table below presents information about nonconsolidated securitization entities to which the firm sold assets and had continuing involvement as of the end of the period.

	O	utstanding Principal	Retained	Ρ	urchased
\$ in millions		Amount	Interests		Interests
As of September 2024					
U.S. government agency-issued CMOs	\$	34,620	\$ 3,101	\$	-
Other residential mortgage-backed		31,845	1,316		65
Other commercial mortgage-backed		58,737	1,011		101
Corporate debt and other asset-backed		10,954	459		54
Total	\$	136,156	\$ 5,887	\$	220
As of December 2023					
U.S. government agency-issued CMOs	\$	31,140	\$ 2,260	\$	_
Other residential mortgage-backed		28,767	1,162		78
Other commercial mortgage-backed		61,648	1,192		61
Corporate debt and other asset-backed		12,501	685		56
Total	\$	134,056	\$ 5,299	\$	195

In the table above:

- CMOs represents collateralized mortgage obligations.
- The outstanding principal amount is presented for the purpose of providing information about the size of the securitization entities and is not representative of the firm's risk of loss.
- The firm's risk of loss from retained or purchased interests is limited to the carrying value of these interests.
- Purchased interests represent senior and subordinated interests, purchased in connection with secondary marketmaking activities, in securitization entities in which the firm also holds retained interests.
- Substantially all of the total outstanding principal amount and total retained interests relate to securitizations during 2019 and thereafter.
- The fair value of retained interests was \$5.87 billion as of September 2024 and \$5.26 billion as of December 2023.

In addition to the interests in the table above, the firm had other continuing involvement in the form of derivative transactions and commitments with certain nonconsolidated VIEs. The carrying value of these derivatives and commitments was a net asset of \$857 million as of September 2024 and \$120 million as of December 2023, and the notional amount of these derivatives and commitments was \$2.64 billion as of September 2024 and \$1.95 billion as of December 2023. The notional amounts of these derivatives and commitments are included in maximum exposure to loss in the nonconsolidated VIE table in Note 17. Additionally, the firm provided seller financing of \$1.73 billion in connection with the sale of \$3.93 billion of loans (substantially all of which were related to GreenSky) during the nine months ended September 2024 and of approximately \$2.7 billion in connection with the sale of \$3.24 billion of Marcus loans during the nine months ended September 2023. The principal and interest repayments received from these financings were \$1.43 billion for the three months ended September 2024 and \$2.11 billion for the nine months ended September 2024 and were not material for both the three and nine months ended September 2023. The total outstanding principal amount of these seller financings were \$1.57 billion as of September 2024 and \$1.81 billion as of December 2023.

The table below presents information about the weighted average key economic assumptions used in measuring the fair value of mortgage-backed retained interests.

	As of				
	September			December	
\$ in millions		2024		2023	
Fair value of retained interests	\$	5,412	\$	4,590	
Weighted average life (years)		5.2		5.7	
Constant prepayment rate		14.9%		12.2%	
Impact of 10% adverse change	\$	(74)	\$	(50)	
Impact of 20% adverse change	\$	(136)	\$	(94)	
Discount rate		6.6%		7.6%	
Impact of 10% adverse change	\$	(134)	\$	(117)	
Impact of 20% adverse change	\$	(259)	\$	(226)	

#### In the table above:

- Amounts do not reflect the benefit of other financial instruments that are held to mitigate risks inherent in these retained interests.
- Changes in fair value based on an adverse variation in assumptions generally cannot be extrapolated because the relationship of the change in assumptions to the change in fair value is not usually linear.
- The impact of a change in a particular assumption is calculated independently of changes in any other assumption. In practice, simultaneous changes in assumptions might magnify or counteract the sensitivities disclosed above.
- The constant prepayment rate is included only for positions for which it is a key assumption in the determination of fair value.
- The discount rate for retained interests that relate to U.S. government agency-issued CMOs does not include any credit loss. Expected credit loss assumptions are reflected in the discount rate for the remainder of retained interests.

The firm has other retained interests not reflected in the table above with a fair value of \$458 million and a weighted average life of 5.4 years as of September 2024, and a fair value of \$674 million and a weighted average life of 5.0 years as of December 2023. Due to the nature and fair value of certain of these retained interests, the weighted average assumptions for constant prepayment and discount rates and the related sensitivity to adverse changes are not meaningful as of both September 2024 and December 2023. The firm's maximum exposure to adverse changes in the value of these interests is the carrying value of \$459 million as of September 2024 and \$685 million as of December 2023.

#### **Note 17.**

#### Variable Interest Entities

A variable interest in a VIE is an investment (e.g., debt or equity) or other interest (e.g., derivatives or loans and lending commitments) that will absorb portions of the VIE's expected losses and/or receive portions of the VIE's expected residual returns.

The firm's variable interests in VIEs include senior and subordinated debt; loans and lending commitments; limited and general partnership interests; preferred and common equity; derivatives that may include foreign currency, equity and/or credit risk; guarantees; and certain of the fees the firm receives from investment funds. Certain interest rate, foreign currency and credit derivatives the firm enters into with VIEs are not variable interests because they create, rather than absorb, risk.

VIEs generally finance the purchase of assets by issuing debt and equity securities that are either collateralized by or indexed to the assets held by the VIE. The debt and equity securities issued by a VIE may include tranches of varying levels of subordination. The firm's involvement with VIEs includes securitization of financial assets, as described in Note 16, and investments in and loans to other types of VIEs, as described below. See Note 3 for the firm's consolidation policies, including the definition of a VIE.

#### **VIE Consolidation Analysis**

The enterprise with a controlling financial interest in a VIE is known as the primary beneficiary and consolidates the VIE. The firm determines whether it is the primary beneficiary of a VIE by performing an analysis that principally considers:

- Which variable interest holder has the power to direct the activities of the VIE that most significantly impact the VIE's economic performance;
- Which variable interest holder has the obligation to absorb losses or the right to receive benefits from the VIE that could potentially be significant to the VIE;
- The VIE's purpose and design, including the risks the VIE
  was designed to create and pass through to its variable
  interest holders;
- The VIE's capital structure;
- The terms between the VIE and its variable interest holders and other parties involved with the VIE; and
- Related-party relationships.

The firm reassesses its evaluation of whether an entity is a VIE when certain reconsideration events occur. The firm reassesses its determination of whether it is the primary beneficiary of a VIE on an ongoing basis based on current facts and circumstances.

#### **VIE Activities**

The firm is principally involved with VIEs through the following business activities:

**Mortgage-Backed VIEs.** The firm sells residential and commercial mortgage loans and securities to mortgage-backed VIEs and may retain beneficial interests in the assets sold to these VIEs. The firm purchases and sells beneficial interests issued by mortgage-backed VIEs in connection with market-making activities. In addition, the firm may enter into derivatives with certain of these VIEs, primarily interest rate swaps, which are typically not variable interests. The firm generally enters into derivatives with other counterparties to mitigate its risk.

Real Estate, Credit- and Power-Related, Tax Credit and Other Investing VIEs. The firm purchases equity and debt securities issued by and makes loans to VIEs that hold real estate, performing and nonperforming debt, distressed loans, power-related assets and equity securities. The firm also makes equity investments in VIEs that invest in qualified affordable housing and renewable energy projects designed to generate a return through the realization of tax credits and related tax benefits. The firm generally does not sell assets to, or enter into derivatives with, these VIEs.

Corporate Debt and Other Asset-Backed VIEs. The firm structures VIEs that issue notes to clients, purchases and sells beneficial interests issued by corporate debt and other assetbacked VIEs in connection with market-making activities, and makes loans to VIEs that warehouse corporate debt. Certain of these VIEs synthetically create the exposure for the beneficial interests they issue by entering into credit derivatives with the firm, rather than purchasing the underlying assets. In addition, the firm may enter into derivatives, such as total return swaps, with certain corporate debt and other asset-backed VIEs, under which the firm pays the VIE a return due to the beneficial interest holders and receives the return on the collateral owned by the VIE. The collateral owned by these VIEs is primarily other assetbacked loans and securities. The firm may be removed as the total return swap counterparty and may enter into derivatives with other counterparties to mitigate its risk related to these swaps. The firm may sell assets to the corporate debt and other asset-backed VIEs it structures.

**Principal-Protected Note VIEs.** The firm structures VIEs that issue principal-protected notes to clients. These VIEs own portfolios of assets, principally with exposure to hedge funds. Substantially all of the principal protection on the notes issued by these VIEs is provided by the asset portfolio rebalancing that is required under the terms of the notes. The firm enters into total return swaps with these VIEs under which the firm pays the VIE the return due to the principal-protected note holders and receives the return on the assets owned by the VIE. The firm may enter into derivatives with other counterparties to mitigate its risk. The firm also obtains funding through these VIEs.

**Investments in Funds.** The firm makes equity investments in certain investment fund VIEs it manages and is entitled to receive fees from these VIEs. The firm has generally not sold assets to, or entered into derivatives with, these VIEs.

#### **Nonconsolidated VIEs**

The table below presents a summary of the nonconsolidated VIEs in which the firm holds variable interests.

	As of			
	S	eptember	[	December
\$ in millions		2024		2023
Total nonconsolidated VIEs				
Assets in VIEs	\$	198,282	\$	193,934
Carrying value of variable interests — assets	\$	16,530	\$	15,478
Carrying value of variable interests — liabilities	\$	2,500	\$	2,750
Maximum exposure to loss:				
Retained interests	\$	5,887	\$	5,299
Purchased interests		837		902
Commitments and guarantees		4,100		4,159
Derivatives		9,183		8,636
Debt and equity		6,642		6,927
Total	\$	26,649	\$	25,923

- The nature of the firm's variable interests is described in the rows under maximum exposure to loss.
- The firm's exposure to the obligations of VIEs is generally limited to its interests in these entities. In certain instances, the firm provides guarantees, including derivative guarantees, to VIEs or holders of variable interests in VIEs.
- The maximum exposure to loss excludes the benefit of offsetting financial instruments that are held to mitigate the risks associated with these variable interests.
- The maximum exposure to loss from retained interests, purchased interests, and debt and equity is the carrying value of these interests.
- The maximum exposure to loss from commitments and guarantees, and derivatives is the notional amount, which does not represent anticipated losses and has not been reduced by unrealized losses. As a result, the maximum exposure to loss exceeds liabilities recorded for commitments and guarantees, and derivatives.

The table below presents information, by principal business activity, for nonconsolidated VIEs included in the summary table above.

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	As of			
	S	eptember		ecember
\$ in millions		2024		2023
Mortgage-backed				
Assets in VIEs	\$	126,768	\$	123,108
Carrying value of variable interests — assets	\$	5,747	\$	4,867
Maximum exposure to loss:				
Retained interests	\$	5,428	\$	4,614
Purchased interests		319		253
Commitments and guarantees		34		35
Derivatives		1		2
Total	\$	5,782	\$	4,904
Real estate, credit- and power-related, tax cred	lit an	d other in	wa	etina
Assets in VIEs	\$	47,702		43,035
Carrying value of variable interests — assets	\$	6,288		6,625
Carrying value of variable interests — assets  Carrying value of variable interests — liabilities	\$	2,019		2,220
Maximum exposure to loss:		2,013	Ψ	2,220
Commitments and guarantees	\$	3,688	\$	3,891
Debt and equity	Ψ	4,288	Ψ	4,733
Total	\$	7,976	\$	8,624
	Ť	1,010	Ψ	0,021
Corporate debt and other asset-backed				
Assets in VIEs	\$	22,048		23,188
Carrying value of variable interests — assets	\$	4,485		3,895
Carrying value of variable interests — liabilities	\$	481	\$	530
Maximum exposure to loss:				
Retained interests	\$	459	\$	685
Purchased interests		518		649
Commitments and guarantees		377		231
Derivatives		9,182		8,634
Debt and equity		2,344		2,103
Total	\$	12,880	\$	12,302
Investments in funds				
Assets in VIEs	\$	1,764	\$	4,603
Carrying value of variable interests — assets	\$	10	\$	91
Maximum exposure to loss:	· ·			
Commitments and guarantees	\$	1	\$	2
Debt and equity		10		91
Total	\$	11	\$	93
			_	

As of both September 2024 and December 2023, the carrying values of the firm's variable interests in nonconsolidated VIEs are included in the consolidated balance sheets as follows:

- Mortgage-backed: Assets primarily included in trading assets and loans.
- Real estate, credit- and power-related, tax credit and other investing: Assets primarily included in investments and other assets, and liabilities included in trading liabilities and other liabilities.
- Corporate debt and other asset-backed: Assets included in loans and trading assets, and liabilities included in trading liabilities.
- Investments in funds: Assets included in investments.

#### Tax Credit VIEs

The firm makes equity investments in nonconsolidated tax credit VIEs that invest in qualified affordable housing and renewable energy projects. These VIEs are generally organized as limited partnerships or similar entities and a third-party is typically the general partner or the managing member. The firm invests in the entity as a limited partner and receives income tax credits and other income tax benefits for such investments. In connection with the adoption of ASU No. 2023-02, as of January 1, 2024, the firm elected the proportional amortization method for qualified affordable housing and renewable energy projects that receive production tax credits. The investments that meet the criteria for the proportional amortization method of accounting are amortized in proportion to the income tax credits and other income tax benefits received on such investments. The amortization of investments and the related income tax credits and other income tax benefits are recorded as a component of the provision for taxes, and are included in other operating activities in the consolidated statements of cash flows.

The table below presents information about investments (included in miscellaneous receivables and other within other assets in the consolidated balance sheets) in qualified affordable housing projects that met the criteria of the proportional amortization method of accounting.

		A5 01				
	Se	ptember	D	ecember		
\$ in millions		2024		2023		
Carrying value of investments	\$	3,047	\$	3,394		

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In the table above, investments included \$2.00 billion as of September 2024 and \$2.26 billion as of December 2023 of accrued unfunded commitments. As of September 2024, a majority of such accrued unfunded commitments were expected to be funded by year-end 2026.

The table below presents information about the amortization and income tax credits and other income tax benefits related to investments in qualified affordable housing projects that met the criteria of the proportional amortization method of accounting.

	Three Months			Nine Months				
	Er	nded S	epte	ember	Er	nded S	epte	ember
\$ in millions		2024		2023		2024		2023
Amortization	\$	96	\$	68	\$	315	\$	210
Tax credits and other benefits	\$	117	\$	102	\$	382	\$	257

Investments in qualified affordable housing projects that did not meet the criteria for the proportional amortization method of accounting were not material as of both September 2024 and December 2023.

The firm's investments in renewable energy projects that receive production tax credits were not eligible for transition to the proportional amortization method of accounting. Such investments were \$1.42 billion as of September 2024 and \$1.40 billion as of December 2023, were included in investments in the consolidated balance sheets and were accounted for at fair value under the fair value option.

#### **Consolidated VIEs**

The table below presents a summary of the carrying value and balance sheet classification of assets and liabilities in consolidated VIEs.

	As of				
	September December			cember	
\$ in millions		2024		2023	
Total consolidated VIEs					
Assets					
Cash and cash equivalents	\$	179	\$	439	
Customer and other receivables		350		347	
Trading assets		134		95	
Investments		181		80	
Loans		8		267	
Other assets		73		248	
Total	\$	925	\$	1,476	
Liabilities					
Other secured financings	\$	710	\$	850	
Customer and other payables		8		2	
Unsecured short-term borrowings		6		14	
Unsecured long-term borrowings		17		17	
Other liabilities		170		91	
Total	\$	911	\$	974	

#### In the table above:

- Assets and liabilities are presented net of intercompany eliminations and exclude the benefit of offsetting financial instruments that are held to mitigate the risks associated with the firm's variable interests.
- VIEs in which the firm holds a majority voting interest are excluded if (i) the VIE meets the definition of a business and (ii) the VIE's assets can be used for purposes other than the settlement of its obligations.
- Substantially all assets can only be used to settle obligations of the VIE.

The table below presents information, by principal business activity, for consolidated VIEs included in the summary table above.

	As of				
	Se	ptember	December		
\$ in millions		2024		2023	
Real estate, credit-related and other investing					
Assets					
Cash and cash equivalents	\$	17	\$	417	
Customer and other receivables		1		-	
Trading assets		19		28	
Investments		181		80	
Loans		8		267	
Other assets		73		248	
Total	\$	299	\$	1,040	
Liabilities					
Other secured financings	\$	3	\$	143	
Customer and other payables	•	8	Ψ	2	
Other liabilities		170		91	
Total	\$	181	\$	236	
Corporate debt and other asset-backed					
Assets	_				
Cash and cash equivalents	\$	162	\$	22	
Total	\$	162	\$	22	
Liabilities					
Other secured financings	\$	366	\$	374	
Total	\$	366	\$	374	
Principal-protected notes					
Assets					
Customer and other receivables	\$	349	\$	347	
Trading assets		115		67	
Total	\$	464	\$	414	
Liabilities					
Other secured financings	\$	341	\$	333	
Unsecured short-term borrowings	Ψ	6	Ψ	14	
Unsecured long-term borrowings		17		17	
Total	\$	364	\$	364	
10.00	Ψ	504	Ψ	504	

In the table above, creditors and beneficial interest holders of real estate, credit-related and other investing VIEs do not have recourse to the general credit of the firm.

Note 18.

#### **Commitments, Contingencies and Guarantees**

#### **Commitments**

The table below presents commitments by type.

	As of				
	Septembe	r December			
\$ in millions	2024	2023			
Commitment Type		_			
Commercial lending:					
Investment-grade	\$ 122,062	\$ 111,202			
Non-investment-grade	68,251	54,298			
Warehouse financing	14,543	9,184			
Consumer	77,446	73,074			
Total lending	282,302	247,758			
Risk participations	6,966	8,167			
Collateralized agreement	187,933	100,503			
Collateralized financing	50,923	84,276			
Investment	4,845	4,592			
Other	9,059	8,258			
Total commitments	\$ 542,028	\$ 453,554			

The table below presents commitments by expiration.

	As of September 2024							
	Remainder		2025 -		2027 -	2029 -		
\$ in millions	of 2024		2026		2028	Thereafter		
Commitment Type								
Commercial lending:								
Investment-grade	\$	4,352	\$	37,545	\$	48,957	\$	31,208
Non-investment-grade		1,193		18,188		25,383		23,487
Warehouse financing		1		6,069		6,904		1,569
Consumer		77,446		_		-		_
Total lending		82,992		61,802		81,244		56,264
Risk participations		620		2,871		3,015		460
Collateralized agreement		181,891		6,042		-		-
Collateralized financing		50,811		112		-		-
Investment		1,022		544		1,078		2,201
Other		7,433		1,435		40		151
Total commitments	\$	324,769	\$	72,806	\$	85,377	\$	59,076

#### **Lending Commitments**

The firm's commercial and warehouse financing lending commitments are agreements to lend with fixed termination dates and depend on the satisfaction of all contractual conditions to borrowing. These commitments are presented net of amounts syndicated to third parties. The total commitment amount does not necessarily reflect actual future cash flows because the firm may syndicate portions of these commitments. In addition, commitments can expire unused or be reduced or cancelled at the counterparty's request. The firm also provides credit to consumers by issuing credit card lines. The firm also provided credit to consumers through commitments to extend unsecured installment loans and beginning in the third quarter of 2024, ceased providing such commitments.

The table below presents information about lending commitments.

	As of			
	September			
\$ in millions		2024	2023	
Held for investment	\$	258,903	\$ 227,865	
Held for sale		22,553	19,129	
At fair value		846	764	
Total	\$	282,302	\$ 247,758	

- Held for investment lending commitments are accounted for at amortized cost. The carrying value of lending commitments was a liability of \$947 million (including allowance for credit losses of \$697 million) as of September 2024 and \$845 million (including allowance for credit losses of \$620 million) as of December 2023. The estimated fair value of such lending commitments was a liability of \$5.55 billion as of September 2024 and \$5.29 billion as of December 2023. Had these lending commitments been carried at fair value and included in the fair value hierarchy, \$3.28 billion as of September 2024 and \$3.10 billion as of December 2023 would have been classified in level 2, and \$2.27 billion as of September 2024 and \$2.19 billion as of December 2023 would have been classified in level 3.
- Held for sale lending commitments are accounted for at the lower of cost or fair value. The carrying value of lending commitments held for sale was a liability of \$66 million as of September 2024 and \$70 million as of December 2023. The estimated fair value of such lending commitments approximates the carrying value. Had these lending commitments been included in the fair value hierarchy, they would have been primarily classified in level 3 as of both September 2024 and December 2023.
- Gains or losses related to lending commitments at fair value, if any, are generally recorded net of any fees in other principal transactions.

**Commercial Lending.** The firm's commercial lending commitments were primarily extended to investment-grade corporate borrowers. Such commitments primarily included \$149.21 billion as of September 2024 and \$137.11 billion as of December 2023, related to relationship lending activities (principally used for operating and general corporate purposes), and \$14.49 billion as of September 2024 and \$4.21 billion as of December 2023, related to other investment banking activities (generally extended for contingent acquisition financing and are often intended to be short-term in nature, as borrowers often seek to replace them with other funding sources). The firm also extends lending commitments in connection with other types of corporate lending, commercial real estate financing and other collateralized lending. See Note 9 for further information about funded loans.

To mitigate the credit risk associated with the firm's commercial lending activities, the firm obtains credit protection on certain loans and lending commitments through credit default swaps, both single-name and indexbased contracts, and through the issuance of credit-linked notes.

**Warehouse Financing.** The firm provides financing to clients who warehouse financial assets. These arrangements are collateralized by the warehoused assets, primarily consisting of residential real estate, consumer and corporate loans.

**Consumer.** The firm's consumer lending commitments includes:

- Credit card lines issued by the firm to consumers were \$77.45 billion as of September 2024 and \$70.82 billion as of December 2023. Such credit card lines included \$14.34 billion as of September 2024 and \$14.35 billion as of December 2023 of commitments classified as held for sale in connection with the planned sale of the GM co-branded credit card portfolio. These credit card lines are cancellable by the firm.
- Commitments to provide unsecured installment loans to consumers were \$2.25 billion as of December 2023 and such commitments were classified as held for sale in connection with the planned sale of GreenSky. During the first quarter of 2024, the firm completed the sale of GreenSky.

#### **Risk Participations**

The firm also risk participates certain of its commercial lending commitments to other financial institutions. In the event of a risk participant's default, the firm will be responsible to fund the borrower.

### Collateralized Agreement Commitments/ Collateralized Financing Commitments

Collateralized agreement commitments includes forward starting resale and securities borrowing agreements, and collateralized financing commitments includes forward starting repurchase and secured lending agreements that settle at a future date. Collateralized agreement commitments also includes transactions where the firm has entered into commitments to provide contingent financing to its clients and counterparties through resale agreements. The firm's funding of these commitments depends on the satisfaction of all contractual conditions to the resale agreement and these commitments can expire unused.

#### **Investment Commitments**

Investment commitments includes commitments to invest in private equity, real estate and other assets directly and through funds that the firm raises and manages. Investment commitments included \$1.05 billion as of September 2024 and \$963 million as of December 2023, related to commitments to invest in funds managed by the firm. If these commitments are called, they would be funded at market value on the date of investment.

#### **Contingencies**

**Legal Proceedings.** See Note 27 for information about legal proceedings.

#### Guarantees

The table below presents derivatives that meet the definition of a guarantee, securities lending and clearing guarantees and certain other financial guarantees.

				Securities	Other
			le	ending and	financial
\$ in millions		Derivatives		clearing	guarantees
As of September 2024					
Carrying Value of Net Liability	\$	3,465	\$	-	\$ 440
Maximum Payout/Notional Amou	nt b	y Period	of E	xpiration	
Remainder of 2024	\$	54,229	\$	37,782	\$ 361
2025 - 2026		204,199		-	3,621
2027 - 2028		29,250		-	2,580
2029 - thereafter		45,018		-	1,021
Total	\$	332,696	\$	37,782	\$ 7,583
As of December 2023					
Carrying Value of Net Liability	\$	5,240	\$	_	\$ 430
Maximum Payout/Notional Amou	nt b	y Period	of E	xpiration	
2024	\$	177,895	\$	28,787	\$ 2,325
2025 - 2026		98,843		_	3,108
2027 - 2028		19,282		_	2,109
2029 - thereafter		29,030		_	231
Total	\$	325,050	\$	28,787	\$ 7,773

#### In the table above:

- The maximum payout is based on the notional amount of the contract and does not represent anticipated losses.
- Amounts exclude certain commitments to issue standby letters of credit that are included in lending commitments.
   See the tables in "Commitments" above for a summary of the firm's commitments.
- The carrying value for derivatives included derivative assets of \$438 million as of September 2024 and \$359 million as of December 2023, and derivative liabilities of \$3.90 billion as of September 2024 and \$5.60 billion as of December 2023.

**Derivative Guarantees.** The firm enters into various derivatives that meet the definition of a guarantee under U.S. GAAP, including written equity and commodity put options, written currency contracts and interest rate caps, floors and swaptions. These derivatives are risk managed together with derivatives that do not meet the definition of a guarantee, and therefore the amounts in the table above do not reflect the firm's overall risk related to derivative activities. Disclosures about derivatives are not required if they may be cash settled and the firm has no basis to conclude it is probable that the counterparties held the underlying instruments at the inception of the contract. The firm has concluded that these conditions have been met for certain large, internationally active commercial and investment bank counterparties, central clearing counterparties, hedge funds and certain other counterparties. Accordingly, the firm has not included such contracts in the table above. See Note 7 for information about credit derivatives that meet the definition of a guarantee, which are not included in the table above.

Derivatives are accounted for at fair value and therefore the carrying value is considered the best indication of payment/performance risk for individual contracts. However, the carrying values in the table above exclude the effect of counterparty and cash collateral netting.

**Securities Lending and Clearing Guarantees.** Securities lending and clearing guarantees include the indemnifications and guarantees that the firm provides in its capacity as an agency lender and in its capacity as a sponsoring member of the Fixed Income Clearing Corporation.

As an agency lender, the firm indemnifies most of its securities lending customers against losses incurred in the event that borrowers do not return securities and the collateral held is insufficient to cover the market value of the securities borrowed. The maximum payout of such indemnifications was \$10.47 billion as of September 2024 and \$14.19 billion as of December 2023. Collateral held by the lenders in connection with securities lending indemnifications was \$10.99 billion as of September 2024 and \$14.63 billion as of December 2023. Because the contractual nature of these arrangements requires the firm to obtain collateral with a market value that exceeds the value of the securities lent to the borrower, there is minimal performance risk associated with these indemnifications.

As a sponsoring member of the Government Securities Division of the Fixed Income Clearing Corporation, the firm guarantees the performance of its sponsored member clients to the Fixed Income Clearing Corporation in connection with certain resale and repurchase agreements. To minimize potential losses on such guarantees, the firm obtains a security interest in the collateral that the sponsored client placed with the Fixed Income Clearing Corporation. Therefore, the risk of loss on such guarantees is minimal. The maximum payout on this guarantee was \$27.31 billion as of September 2024 and \$14.60 billion as of December 2023. The related collateral held was \$27.23 billion as of September 2024 and \$14.69 billion as of December 2023.

Other Financial Guarantees. In the ordinary course of business, the firm provides other financial guarantees of the obligations of third parties (e.g., standby letters of credit and other guarantees to enable clients to complete transactions and fund-related guarantees). These guarantees represent obligations to make payments to beneficiaries if the guaranteed party fails to fulfill its obligation under a contractual arrangement with that beneficiary. Other financial guarantees also include a guarantee that the firm has provided to the Government of Malaysia that it will receive, by August 2025, at least \$1.4 billion in assets and proceeds from assets seized by governmental authorities around the world related to 1Malaysia Development Berhad, a sovereign wealth fund in Malaysia (1MDB). In connection with this guarantee, the firm agreed to make a one-time interim payment of \$250 million towards the \$1.4 billion if the Government of Malaysia did not receive at least \$500 million in assets and proceeds by August 2022. The firm does not believe that any interim payment is required. Any amounts paid by the firm would, in any event, be subject to reimbursement in the event the assets and proceeds received by the Government of Malaysia through August 18, 2028 exceed \$1.4 billion.

On October 11, 2023, the firm filed a demand for arbitration alleging that the Government of Malaysia had, as of August 2022, recovered assets and proceeds well in excess of \$500 million; it had recovered substantial additional assets and proceeds that should be credited against the guarantee; and it had not used all reasonable efforts to recover other assets and proceeds that could be credited against the guarantee. On November 8, 2023, the Government of Malaysia filed a response to the firm's demand for arbitration and on June 10, 2024, filed an application for a partial award to immediately enforce the interim payment (plus interest). On July 24, 2024, the arbitral tribunal rejected that application. Final determinations on all remaining issues, including any subsequent enforcement of the interim payment, are to be made at a final hearing. The arbitral process is ongoing. See Note 27 for further information about matters related to 1MDB.

**Guarantees of Securities Issued by Trusts.** The firm has established trusts, including Goldman Sachs Capital I, Goldman Sachs Capital II and Goldman Sachs Capital III (the Trusts), and other entities, for the limited purpose of issuing securities to third parties, lending the proceeds to the firm and entering into contractual arrangements with the firm and third parties related to this purpose. The firm does not consolidate these entities. See Notes 14 and 19 for further information about the transactions involving the Trusts.

The firm effectively provides for the full and unconditional guarantee of the securities issued by these entities. Timely payment by the firm of amounts due to these entities under the guarantee, borrowing, preferred stock and related contractual arrangements will be sufficient to cover payments due on the securities issued by these entities. No subsidiary of Group Inc. guarantees the securities of the Trusts.

Management believes that it is unlikely that any circumstances will occur, such as nonperformance on the part of paying agents or other service providers, that would make it necessary for the firm to make payments related to these entities other than those required under the terms of the guarantee, borrowing, preferred stock and related contractual arrangements and in connection with certain expenses incurred by these entities.

**Indemnities and Guarantees of Service Providers.** In the ordinary course of business, the firm indemnifies and guarantees certain service providers, such as clearing and custody agents, trustees and administrators, against specified potential losses in connection with their acting as an agent of, or providing services to, the firm or its affiliates.

The firm may also be liable to some clients or other parties for losses arising from its custodial role or caused by acts or omissions of third-party service providers, including subcustodians and third-party brokers. In certain cases, the firm has the right to seek indemnification from these third-party service providers for certain relevant losses incurred by the firm. In addition, the firm is a member of payment, clearing and settlement networks, as well as securities exchanges around the world that may require the firm to meet the obligations of such networks and exchanges in the event of member defaults and other loss scenarios.

In connection with the firm's prime brokerage and clearing businesses, the firm agrees to clear and settle transactions entered into by clients with other brokerage firms. The firm's obligations in respect of such transactions are secured by the assets in the client's account and proceeds received from the transactions cleared and settled by the firm on behalf of the client. In connection with joint venture investments, the firm may issue loan guarantees under which it may be liable in the event of fraud, misappropriation, environmental liabilities and other matters involving the borrower.

The firm is unable to develop an estimate of the maximum payout under these guarantees and indemnifications as this depends upon the occurrence of future events, including an assessment of claims that have not yet occurred. However, management believes that it is unlikely the firm will have to make any material payments under these arrangements, and no material liabilities related to these guarantees and indemnifications have been recognized in the consolidated balance sheets as of both September 2024 and December 2023.

**Other Representations, Warranties and Indemnifications.** The firm provides representations and warranties to counterparties in connection with a variety of commercial transactions and occasionally indemnifies them against potential losses caused by the breach of those representations and warranties. The firm may also provide indemnifications protecting against changes in or adverse application of certain U.S. tax laws in connection with ordinary-course transactions, such as securities issuances, borrowings or derivatives.

In addition, the firm may provide indemnifications to some counterparties to protect them in the event additional taxes are owed or payments are withheld, due either to a change in or an adverse application of certain non-U.S. tax laws. These indemnifications, as well as indemnifications provided by the firm on other contractual or other obligations, generally are standard contractual terms and are entered into in the ordinary course of business. Generally, there are no stated or notional amounts included in these indemnifications, and the contingencies triggering the obligation to indemnify are not expected to occur. Future changes in tax laws and how such laws would apply to these indemnifications cannot be determined. Therefore, the firm is unable to develop an estimate of the maximum payout under these guarantees and indemnifications. However, management believes that it is unlikely the firm will have to make any material payments under these arrangements, and no material liabilities related to these arrangements have been recognized in the consolidated balance sheets as of both September 2024 and December 2023.

**Guarantees of Subsidiaries.** Group Inc. is the entity that fully and unconditionally guarantees the securities issued by GS Finance Corp., a wholly-owned finance subsidiary of the firm. Group Inc. has guaranteed the payment obligations of Goldman Sachs & Co. LLC (GS&Co.), GS Bank USA and Goldman Sachs Paris Inc. et Cie, subject to certain exceptions. In addition, Group Inc. has provided guarantees to Goldman Sachs International (GSI) and GSBE related to agreements that each entity has entered into with certain of its counterparties. Group Inc. guarantees many of the obligations of its other consolidated subsidiaries on a transaction-by-transaction basis, as negotiated with counterparties. Given these obligations of the consolidated subsidiaries are recognized in the consolidated balance sheets or reflected as commitments, Group Inc.'s liabilities as guarantor are not separately disclosed.

#### **Note 19.**

### Shareholders' Equity

#### **Common Equity**

As of both September 2024 and December 2023, the firm had 4.00 billion authorized shares of common stock and 200 million authorized shares of nonvoting common stock, each with a par value of \$0.01 per share.

The firm's share repurchase program is intended to help maintain the appropriate level of common equity. The share repurchase program is effected primarily through regular open-market purchases (which may include repurchase plans designed to comply with Rule 10b5-1 and accelerated share repurchases), the amounts and timing of which are determined primarily by the firm's current and projected capital position, and capital deployment opportunities, but which may also be influenced by general market conditions and the prevailing price and trading volumes of the firm's common stock.

The table below presents information about common stock repurchases.

	Three Months		Nine Months		
	Ended Se	Ended September		eptember	
in millions, except per share amounts	2024	2023	2024	2023	
Common share repurchases	2.0	4.2	13.9	13.5	
Average cost per share	\$489.50	\$354.79	\$430.34	\$354.13	
Total cost of common share repurchases	\$ 1,000	\$ 1,500	\$ 6,000	\$ 4,796	

Pursuant to the terms of certain share-based compensation plans, employees may remit shares to the firm or the firm may cancel share-based awards to satisfy statutory employee tax withholding requirements. Under these plans, during the nine months ended September 2024, 1,197 shares were remitted with a total value of \$0.5 million and the firm cancelled 3.4 million share-based awards with a total value of \$1.33 billion. The cash settlement of share-based awards is included in other in additional paid-in capital in the consolidated statements of shareholders' equity and in other financing, net in the consolidated statements of cash flows. For both the nine months ended September 2024 and September 2023, the amount of cash used to settle sharebased awards was not material.

The table below presents common stock dividends declared.

		Three Months			Nine Months			
	Er	Ended September			er Ended Septer			
		2024	2023		2024		2023	
Dividends declared per common share	\$	3.00	\$ 2.75	\$	8.50	\$	7.75	

On October 11, 2024, the Board of Directors of Group Inc. declared a dividend of \$3.00 per common share to be paid on December 30, 2024 to common shareholders of record on December 2, 2024.

### **Preferred Equity**

The tables below present information about the perpetual preferred stock issued and outstanding as of September 2024.

				Depositary
	Shares	Shares	Shares	Shares
Series	Authorized	Issued	Outstanding	Per Share
A	50,000	30,000	29,999	1,000
С	25,000	8,000	8,000	1,000
D	60,000	54,000	53,999	1,000
E	17,500	7,667	7,667	N.A.
F	5,000	1,615	1,615	N.A.
0	26,000	26,000	26,000	25
Q	20,000	20,000	20,000	25
R	24,000	24,000	24,000	25
S	14,000	14,000	14,000	25
T	27,000	27,000	27,000	25
U	30,000	30,000	30,000	25
V	30,000	30,000	30,000	25
W	60,000	60,000	60,000	25
Χ	90,000	90,000	90,000	25
Υ	80,000	80,000	80,000	25
Total	558,500	502,282	502,280	

Series	Earliest Redemption Date	Liquidation Preference	Redemption Value (\$ in millions)
Α	Currently redeemable	\$ 25,000	\$ 750
С	Currently redeemable	\$ 25,000	200
D	Currently redeemable	\$ 25,000	1,350
E	Currently redeemable	\$ 100,000	767
F	Currently redeemable	\$ 100,000	161
0	November 10, 2026	\$ 25,000	650
Q	Currently redeemable	\$ 25,000	500
R	February 10, 2025	\$ 25,000	600
S	February 10, 2025	\$ 25,000	350
Τ	May 10, 2026	\$ 25,000	675
U	August 10, 2026	\$ 25,000	750
V	November 10, 2026	\$ 25,000	750
W	February 10, 2029	\$ 25,000	1,500
X	May 10, 2029	\$ 25,000	2,250
Υ	November 10, 2034	\$ 25,000	2,000
Total			\$ 13,253

In the tables above:

- All shares have a par value of \$0.01 per share and, where applicable, each share is represented by the specified number of depositary shares.
- The earliest redemption date represents the date on which each share of non-cumulative preferred stock is redeemable at the firm's option.
- Prior to redeeming preferred stock, the firm must receive approval from the Board of Governors of the Federal Reserve System (FRB).
- In April 2024, the firm issued 90,000 shares of Series X 7.50% Fixed-Rate Reset Non-Cumulative Preferred Stock (Series X Preferred Stock).
- In September 2024, the firm issued 80,000 shares of Series Y 6.125% Fixed-Rate Reset Non-Cumulative Preferred Stock (Series Y Preferred Stock).

- The redemption price per share for Series A through F and Series Q through Y Preferred Stock is the liquidation preference plus declared and unpaid dividends. The redemption price per share for Series O Preferred Stock is the liquidation preference plus accrued and unpaid dividends.
- All series of preferred stock are pari passu and have a preference over the firm's common stock on liquidation.
- The firm's ability to declare or pay dividends on, or purchase, redeem or otherwise acquire, its common stock is subject to certain restrictions in the event that the firm fails to pay or set aside full dividends on the preferred stock for the latest completed dividend period.
- Series E and Series F Preferred Stock are held by Goldman Sachs Capital II and Goldman Sachs Capital III, respectively. These trusts are Delaware statutory trusts sponsored by the firm and wholly-owned finance subsidiaries of the firm for regulatory and legal purposes but are not consolidated for accounting purposes.

In the second quarter of 2024, the firm redeemed all outstanding shares of its Series K 6.375% Fixed-to-Floating Rate Non-Cumulative Preferred Stock (Series K Preferred Stock) with a redemption value of \$700 million (\$25,000 per share), plus accrued and unpaid dividends. The difference between the redemption value and net carrying value was \$16 million, which was recorded as an addition to preferred stock dividends in the second quarter of 2024.

In the third quarter of 2023, the firm redeemed all outstanding shares of its Series J 5.50% Fixed-to-Floating Rate Non-Cumulative Preferred Stock (Series J Preferred Stock) with a redemption value of \$1 billion (\$25,000 per share), plus accrued and unpaid dividends. The difference between the redemption value and net carrying value was \$10 million, which was recorded as an addition to preferred stock dividends in the third quarter of 2023.

In September 2024, the firm issued a notice that it will redeem all outstanding shares of its Series P 5.00% Fixed-to-Floating Rate Non-Cumulative Preferred Stock (Series P Preferred Stock) with a redemption value of \$1.50 billion (\$25,000 per share). Upon the issuance of the notice of redemption, Series P Preferred Stock was reclassified to unsecured short-term borrowings in a non-cash transaction. The difference between its redemption value and net carrying value at the issuance of the notice of redemption was \$18 million, which was recorded as an addition to preferred stock dividends in the third quarter of 2024. The shares of Series P Preferred Stock were redeemed in October 2024.

The preferred stock issuance costs in the consolidated statements of shareholders' equity reflects reclassifications of issuance costs to retained earnings on redemptions, net of issuance costs relating to new issuances.

The table below presents the dividend rates of perpetual preferred stock as of September 2024.

Series	Per Annum Dividend Rate
А	3 month term SOFR + 1.01161%, with floor of 3.75%, payable quarterly
С	3 month term SOFR + 1.01161%, with floor of 4.00%, payable quarterly
D	3 month term SOFR + 0.93161%, with floor of 4.00%, payable quarterly
Е	3 month term SOFR + 1.02911%, with floor of 4.00%, payable quarterly
F	3 month term SOFR + 1.03161%, with floor of 4.00%, payable quarterly
0	5.30% , payable semi-annually, from issuance date to, but excluding, November 10, 2026; 3 month term SOFR + 4.09561%, payable quarterly, thereafter
Q	5 year treasury rate + 3.623%, payable semi-annually
R	4.95%, payable semi-annually, from issuance date to, but excluding, February 10, 2025; 5 year treasury rate $\pm$ 3.224%, payable semi-annually, thereafter
S	4.40% , payable semi-annually, from issuance date to, but excluding, February 10, 2025; 5 year treasury rate + 2.85%, payable semi-annually thereafter
Т	3.80%, payable semi-annually, from issuance date to, but excluding, May 10, 2026; 5 year treasury rate + 2.969%, payable semi-annually, thereafter
U	3.65%, payable semi-annually, from issuance date to, but excluding, August 10, 2026; 5 year treasury rate + 2.915%, payable semi-annually, thereafter
V	4.125%, payable semi-annually, from issuance date to, but excluding, November 10, 2026; 5 year treasury rate + 2.949%, payable semi-annually, thereafter
W	7.50%, payable semi-annually, from issuance date to, but excluding, February 10, 2029; 5 year treasury rate + 3.156%, payable semi-annually, thereafter
X	7.50%, payable semi-annually, from issuance date to, but excluding, May 10, 2029; 5 year treasury rate + 2.809%, payable semi-annually, thereafter
Υ	6.125%, payable semi-annually, from issuance date to, but excluding, November 10, 2034; 10 year treasury rate + 2.40%, payable semi-annually, thereafter

In the table above, dividends on each series of preferred stock are payable in arrears for the periods specified.

The table below presents preferred stock dividends declared.

	2024				20	23
Series	per share	\$ in million	ıs	Ľ	oer share	\$ in millions
Three Months Ended Septe	mber					
Α \$	413.68	\$ 1	2 9	8	388.88	\$ 12
C \$	413.68		4 9	8	388.88	3
D <b>\$</b>	408.45	2	2	8	383.77	20
E \$	1,629.22	1	3	5	1,600.67	13
F \$	1,629.85		3		1,601.31	2
J \$			- 5		573.52	23
K \$				6	398.44	11
P \$				6	524.58	32
Q <b>\$</b>		-		6	687.50	14
R \$		1		6	618.75	15
S \$				6	550.00	8
U <b>\$</b>				8	456.25	13
<u>W</u> \$	937.50			<u> </u>		
Total		\$ 19	2			\$ 166
Nine Months Ended Septer	nber					
A <b>\$</b>	1,215.99	\$ 3	6	8	1,076.86	\$ 32
C <b>\$</b>	1,215.99	1	0 9	8	1,076.86	9
D \$	1,200.65	6	5	6	1,061.69	57
E \$	4,911.94	3			4,447.01	34
F \$	4,913.85				4,448.90	7
J \$					1,261.02	51
K \$					1,195.32	33
0 \$		-		6	662.50	17
P \$	•				1,479.53	89
Q <b>\$</b>	-				1,375.00	28
R \$					1,237.50	30
S \$	-		5		1,100.00	16
Т \$				6	475.00	13
U \$				6	912.50	27
V <b>\$</b>				8	515.63	15
<u>W</u> \$	1,833.33	11		5	_	
Total		\$ 52	9			\$ 458

On October 7, 2024, Group Inc. declared dividends of \$390.64 per share of Series A Preferred Stock, \$390.64 per share of Series C Preferred Stock, \$385.53 per share of Series D Preferred Stock, \$662.50 per share of Series O Preferred Stock, \$475.00 per share of Series T Preferred Stock, \$515.63 per share of Series V Preferred Stock and \$1,026.04 per share of Series X Preferred Stock that will be paid on November 12, 2024 to preferred shareholders of record on October 28, 2024. In addition, the firm declared dividends of \$1,511.43 per share of Series E Preferred Stock and \$1,512.06 per share of Series F Preferred Stock that will be paid on December 2, 2024 to preferred shareholders of record on November 17, 2024.

### Accumulated Other Comprehensive Income/(Loss)

The table below presents changes in accumulated other comprehensive income/(loss), net of tax, by type.

			C	Other omprehensive income/(loss)		
•	В	eginning		adjustments,		Ending
\$ in millions		balance		net of tax		balance
Three Months Ended September 202		/\	_	()	_	()
Currency translation	\$	(825)	\$	(25)	5	(850)
Debt valuation adjustment		(411)		(95)		(506)
Pension and postretirement liabilities		(553)		13		(540)
Available-for-sale securities	_	(1,111)	_	504	_	(607)
Total	\$	(2,900)	\$	397	\$	(2,503)
Three Months Ended September 2023						
Currency translation	\$	(828)	\$	(16)	\$	(844)
Debt valuation adjustment		281		328		609
Pension and postretirement liabilities		(475)		9		(466)
Available-for-sale securities		(2,215)		317		(1,898)
Total	\$	(3,237)	\$	638	\$	(2,599)
Nine Months Ended September 2024	_					
· · · · · · · · · · · · · · · · · · ·	\$	(847)	4	(3)	φ.	(850)
Currency translation	Ф	(123)	Ф	(383)	Þ	(506)
Debt valuation adjustment Pension and postretirement liabilities				(303)		
Available-for-sale securities		(575) (1,373)		766		(540) (607)
Total	\$	(2,918)	•		\$	(2,503)
	Ψ	(2,310)	Ψ	713	Ψ	(2,303)
Nine Months Ended September 2023						
Currency translation	\$	(785)	\$	(59)	\$	(844)
Debt valuation adjustment		892		(283)		609
Pension and postretirement liabilities		(499)		33		(466)
Available-for-sale securities		(2,618)		720		(1,898)
Total	\$	(3,010)	\$	411	\$	(2,599)

#### Note 20.

### **Regulation and Capital Adequacy**

The FRB is the primary regulator of Group Inc., a bank holding company under the U.S. Bank Holding Company Act of 1956 and a financial holding company under amendments to this Act. The firm is subject to consolidated regulatory capital requirements which are calculated in accordance with the regulations of the FRB (Capital Framework).

The capital requirements are expressed as risk-based capital and leverage ratios that compare measures of regulatory capital to risk-weighted assets (RWAs), average assets and off-balance sheet exposures. Failure to comply with these capital requirements would result in restrictions being imposed by the firm's regulators and could limit the firm's ability to repurchase shares, pay dividends and make certain discretionary compensation payments. The firm's capital levels are also subject to qualitative judgments by the regulators about components of capital, risk weightings and other factors. Furthermore, certain of the firm's subsidiaries are subject to separate regulations and capital requirements.

#### **Capital Framework**

The regulations under the Capital Framework are largely based on the Basel Committee on Banking Supervision's (Basel Committee) capital framework for strengthening international capital standards (Basel III) and also implement certain provisions of the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act. Under the Capital Framework, the firm is an "Advanced approaches" banking organization and has been designated as a global systemically important bank (G-SIB).

The Capital Framework includes the minimum risk-based capital and the capital conservation buffer requirements. The buffer must consist entirely of capital that qualifies as Common Equity Tier 1 (CET1) capital.

The firm calculates its CET1 capital, Tier 1 capital and Total capital ratios in accordance with both the Standardized and Advanced Capital Rules. Each of the ratios calculated under the Standardized and Advanced Capital Rules must meet its respective capital requirements.

Under the Capital Framework, the firm is also subject to leverage requirements which consist of a minimum Tier 1 leverage ratio and a minimum supplementary leverage ratio (SLR), as well as the SLR buffer.

# Consolidated Regulatory Capital Requirements Risk-Based Capital Ratios. The table below presents the risk-based capital requirements.

	Standardized	Advanced
As of September 2024		
CET1 capital ratio	13.0%	10.0%
Tier 1 capital ratio	14.5%	11.5%
Total capital ratio	16.5%	13.5%
As of December 2023		
CET1 capital ratio	13.0%	10.0%
Tier 1 capital ratio	14.5%	11.5%
Total capital ratio	16.5%	13.5%

#### In the table above:

- Under both the Standardized and Advanced Capital Rules, the CET1 capital ratio requirement includes a minimum of 4.5%, the Tier 1 capital ratio requirement includes a minimum of 6.0% and the Total capital ratio requirement includes a minimum of 8.0%. These requirements also include the capital conservation buffer requirements, consisting of the G-SIB surcharge (Method 2) of 3.0% and the countercyclical capital buffer, which the FRB has set to zero percent. In addition, the capital conservation buffer requirements include the stress capital buffer (SCB) of 5.5% under the Standardized Capital Rules and a buffer of 2.5% under the Advanced Capital Rules.
- The G-SIB surcharge is updated annually based on financial data from the prior year and is generally applicable for the following year. The G-SIB surcharge is calculated using two methodologies, the higher of which is reflected in the firm's risk-based capital requirements. The first calculation (Method 1) is based on the Basel Committee's methodology which, among other factors, relies upon measures of the size, activity and complexity of each G-SIB. The second calculation (Method 2) uses similar inputs but includes a measure of reliance on short-term wholesale funding.

Based on the firm's 2024 Comprehensive Capital Analysis and Review submission, in June 2024, the FRB had preliminarily set the firm's SCB to 6.4% for the period from October 1, 2024 through September 30, 2025. In August 2024, the FRB revised the firm's final SCB to 6.2%. As a result, beginning on October 1, 2024, the firm's Standardized requirements are 13.7% for the CET1 capital ratio, 15.2% for the Tier 1 capital ratio and 17.2% for the Total capital ratio.

The table below presents information about risk-based capital ratios.

\$ in millions	St	Advanced	
As of September 2024			
CET1 capital	\$	102,261	\$ 102,261
Tier 1 capital	\$	115,138	\$ 115,138
Tier 2 capital	\$	14,723	\$ 10,715
Total capital	\$	129,861	\$ 125,853
RWAs	\$	698,198	\$ 658,397
CET1 capital ratio		14.6%	15.5%
Tier 1 capital ratio		16.5%	17.5%
Total capital ratio		18.6%	19.1%
As of December 2023			
CET1 capital	\$	99,442	\$ 99,442
Tier 1 capital	\$	110,288	\$ 110,288
Tier 2 capital	\$	14,874	\$ 10,684
Total capital	\$	125,162	\$ 120,972
RWAs	\$	692,737	\$ 665,348
CET1 capital ratio		14.4%	14.9%
Tier 1 capital ratio		15.9%	16.6%
Total capital ratio		18.1%	18.2%

**Leverage Ratios.** The table below presents the leverage requirements.

	As	of	
	September	December	
	2024	2023	
Tier 1 leverage ratio	4.0%	4.0%	
SLR	5.0%	5.0%	

In the table above, the SLR requirement of 5% includes a minimum of 3% and a 2% buffer applicable to G-SIBs.

The table below presents information about leverage ratios.

	For the Three Months			
	Ended or as of			
	September	December		
\$ in millions	2024	2023		
Tier 1 capital	\$ 115,138	\$ 110,288		
Average total assets	\$ 1,691,651	\$ 1,579,237		
Deductions from Tier 1 capital	(6,739)	(7,167)		
Average adjusted total assets	1,684,912	1,572,070		
Off-balance sheet and other exposures	425,560	423,686		
Total leverage exposure	\$ 2,110,472	\$ 1,995,756		
Tier 1 leverage ratio	6.8%	7.0%		
SLR	5.5%	5.5%		

In the table above:

- Average total assets represents the average daily assets for the quarter adjusted for the impact of Current Expected Credit Losses (CECL) transition.
- Off-balance sheet and other exposures primarily includes the monthly average of off-balance sheet exposures, consisting of derivatives, securities financing transactions, commitments and guarantees.
- Tier 1 leverage ratio is calculated as Tier 1 capital divided by average adjusted total assets.
- SLR is calculated as Tier 1 capital divided by total leverage exposure.

**Risk-Based Capital.** The table below presents information about risk-based capital.

	As of			
	S	eptember		December
\$ in millions		2024		2023
Common shareholders' equity	\$	107,947	\$	105,702
Impact of CECL transition		276		553
Deduction for goodwill		(5,216)		(5,224)
Deduction for identifiable intangible assets		(720)		(950)
Other adjustments		(26)		(639)
CET1 capital		102,261		99,442
Preferred stock		13,253		11,203
Deduction for investments in covered funds		(374)		(354)
Other adjustments		(2)		(3)
Tier 1 capital	\$	115,138	\$	110,288
Standardized Tier 2 and Total capital				
Tier 1 capital	\$	115,138	Φ.	110,288
Qualifying subordinated debt	Ψ	9,636	Ψ	9,886
Allowance for credit losses		5,120		5,012
Other adjustments		(33)		(24)
Standardized Tier 2 capital		14,723		14,874
Standardized Total capital	\$	129,861	\$	125,162
Otandardized Total Supritur	Ψ	120,001	Ψ	120,102
Advanced Tier 2 and Total capital				
Tier 1 capital	\$	115,138	\$	110,288
Standardized Tier 2 capital		14,723		14,874
Allowance for credit losses		(5,120)		(5,012)
Other adjustments		1,112		822
Advanced Tier 2 capital		10,715		10,684
Advanced Total capital	\$	125,853	\$	120,972

In the table above:

• Beginning in January 2022, the firm started to phase in the estimated reduction to regulatory capital as a result of adopting the CECL model. The total amount of reduction to be phased in from January 1, 2022 through January 1, 2025 (at 25% per year) was \$1.11 billion, of which \$829 million had been phased in as of September 2024. The total amount to be phased in includes the impact of adopting CECL as of January 1, 2020, as well as 25% of the increase in the allowance for credit losses from January 1, 2020 through December 31, 2021. The impact of CECL transition reflects the remaining amount of reduction to be phased in as of both September 2024 and December 2023.

- Deduction for goodwill was net of deferred tax liabilities of \$693 million as of September 2024 and \$692 million as of December 2023.
- Deduction for identifiable intangible assets was net of deferred tax liabilities of \$205 million as of September 2024 and \$227 million as of December 2023.
- Deduction for investments in covered funds represents the firm's aggregate investments in applicable covered funds as defined in the Volcker Rule.
- Other adjustments within CET1 capital and Tier 1 capital primarily include CVAs on derivative liabilities, the overfunded portion of the firm's defined benefit pension plan obligation net of associated deferred tax liabilities, disallowed deferred tax assets, debt valuation adjustments and other required credit risk-based deductions. Other adjustments within Advanced Tier 2 capital include eligible credit reserves.
- Qualifying subordinated debt is subordinated debt issued by Group Inc. with an original maturity of five years or greater. The outstanding amount of subordinated debt qualifying for Tier 2 capital is reduced upon reaching a remaining maturity of five years. See Note 14 for further information about the firm's subordinated debt.

The table below presents changes in CET1 capital, Tier 1 capital and Tier 2 capital.

\$ in millions	St	andardized		Advanced
Nine Months Ended September 2024				
CET1 capital				
Beginning balance	\$	99,442	\$	99,442
Change in:				
Common shareholders' equity		2,245		2,245
Impact of CECL transition		(277)		(277)
Deduction for goodwill		8		8
Deduction for identifiable intangible assets		230		230
Other adjustments		613		613
Ending balance	\$	102,261	\$	102,261
Tier 1 capital				
Beginning balance	\$	110,288	\$	110,288
Change in:	*	110,200	Ψ.	110,200
CET1 capital		2,819		2,819
Preferred stock		2,050		2,050
Deduction for investments in covered funds		(20)		(20)
Other adjustments		1		1
Ending balance		115,138		115,138
Tier 2 capital		,		,
Beginning balance		14,874		10,684
Change in:				•
Qualifying subordinated debt		(250)		(250)
Allowance for credit losses		108		_
Other adjustments		(9)		281
Ending balance		14,723		10,715
Total capital	\$	129,861	\$	125,853

**RWAs.** RWAs are calculated in accordance with both the Standardized and Advanced Capital Rules.

#### Credit Risk

Credit RWAs are calculated based on measures of exposure, which are then risk weighted under the Standardized and Advanced Capital Rules:

- The Standardized Capital Rules apply prescribed riskweights, which depend largely on the type of counterparty. The exposure measures for derivatives and securities financing transactions are based on specific formulas which take certain factors into consideration.
- Under the Advanced Capital Rules, the firm computes riskweights for wholesale and retail credit exposures in accordance with the Advanced Internal Ratings-Based approach. The exposure measures for derivatives and securities financing transactions are computed utilizing internal models.
- For both Standardized and Advanced credit RWAs, the risk-weights for securitizations and equities are based on specific required formulaic approaches.

#### Market Risk

RWAs for market risk in accordance with the Standardized and Advanced Capital Rules are generally consistent. Market RWAs are calculated based on measures of exposure which include the following:

 Value-at-Risk (VaR) is the potential loss in value of trading assets and liabilities, as well as certain investments, loans, and other financial assets and liabilities accounted for at fair value, due to adverse market movements over a defined time horizon with a specified confidence level. For both risk management purposes and regulatory capital calculations, the firm uses a single VaR model which captures risks, including those related to interest rates, equity prices, currency rates and commodity prices. However, VaR used for risk management purposes differs from VaR used for regulatory capital requirements (regulatory VaR) due to differences in time horizons, confidence levels and the scope of positions on which VaR is calculated. For risk management purposes, a 95% one-day VaR is used, whereas for regulatory capital requirements, a 99% 10-day VaR is used to determine Market RWAs and a 99% one-day VaR is used to determine regulatory VaR exceptions. In addition, the daily net revenues used to determine risk management VaR exceptions (i.e., comparing the daily net revenues to the VaR measure calculated as of the end of the prior business day) include intraday activity, whereas the Capital Framework requires that intraday activity be excluded from daily net revenues when calculating regulatory VaR exceptions. Intraday activity includes bid/offer net revenues, which are more likely than not to be positive by their nature. As a result, there may be differences in the number of VaR exceptions and the amount of daily net revenues calculated for regulatory VaR compared to the amounts calculated for risk management VaR.

The firm's positional losses observed on a single day exceeded its 99% one-day regulatory VaR on two occasions during the nine months ended September 2024 and exceeded its 99% one-day regulatory VaR on one occasion during 2023. There was no change in the firm's VaR multiplier used to calculate Market RWAs;

- Stressed VaR is the potential loss in value of trading assets and liabilities, as well as certain investments, loans, and other financial assets and liabilities accounted for at fair value, during a period of significant market stress;
- Incremental risk is the potential loss in value of nonsecuritized positions due to the default or credit migration of issuers of financial instruments over a one-year time horizon;
- Comprehensive risk is the potential loss in value, due to price risk and defaults, within the firm's credit correlation positions; and
- Specific risk is the risk of loss on a position that could result from factors other than broad market movements, including event risk, default risk and idiosyncratic risk. The standardized measurement method is used to determine specific risk RWAs, by applying supervisory defined riskweighting factors after applicable netting is performed.

#### **Operational Risk**

Operational RWAs are only required to be included under the Advanced Capital Rules. The firm utilizes an internal risk-based model to quantify Operational RWAs.

The table below presents information about RWAs.

\$ in millions	Standardized			Advanced		
As of September 2024						
Credit RWAs						
Derivatives	\$	150,399	\$	94,938		
Commitments, guarantees and loans		246,288		197,458		
Securities financing transactions		111,325		23,339		
Equity investments		30,760		32,229		
Other		73,605		97,987		
Total Credit RWAs		612,377		445,951		
Market RWAs						
Regulatory VaR		18,729		18,729		
Stressed VaR		39,872		39,872		
Incremental risk		6,117		6,117		
Comprehensive risk		2,415		2,415		
Specific risk		18,688		18,688		
Total Market RWAs		85,821		85,821		
Total Operational RWAs		_		126,625		
Total RWAs	\$	698,198	\$	658,397		
As of December 2023						
Credit RWAs						
Derivatives	\$	146,357	\$	96,322		
Commitments, guarantees and loans		243,094		194,236		
Securities financing transactions		103,704		23,637		
Equity investments		34,223		36,920		
Other		76,481		96,755		
Total Credit RWAs		603,859		447,870		
Market RWAs						
Regulatory VaR		16,457		16,457		
Stressed VaR		48,496		48,496		
Incremental risk		5,032		5,032		
Comprehensive risk		2,718		2,718		
Specific risk		16,175		16,175		
Total Market RWAs		88,878		88,878		
Total Operational RWAs				128,600		
Total RWAs	\$	692,737	\$	665,348		

In the table above:

- Securities financing transactions represents resale and repurchase agreements and securities borrowed and loaned transactions.
- Other includes receivables, certain debt securities, cash and cash equivalents, and other assets.

The table below presents changes in RWAs.

\$ in millions	St	Advanced	
Nine Months Ended September 2024			
RWAs			
Beginning balance	\$	692,737 \$	665,348
Credit RWAs			
Change in:			
Derivatives		4,042	(1,384)
Commitments, guarantees and loans		3,194	3,222
Securities financing transactions		7,621	(298)
Equity investments		(3,463)	(4,691)
Other		(2,876)	1,232
Change in Credit RWAs		8,518	(1,919)
Market RWAs			
Change in:			
Regulatory VaR		2,272	2,272
Stressed VaR		(8,624)	(8,624)
Incremental risk		1,085	1,085
Comprehensive risk		(303)	(303)
Specific risk		2,513	2,513
Change in Market RWAs		(3,057)	(3,057)
Change in Operational RWAs		_	(1,975)
Ending balance	\$	698,198 \$	658,397

#### **RWAs Rollforward Commentary**

Nine Months Ended September 2024. Standardized Credit RWAs as of September 2024 increased by \$8.52 billion compared with December 2023, reflecting an increase in securities financing transactions (principally due to increased funding exposures), an increase in derivatives (principally due to increased exposures), an increase in commitments, guarantees and loans (principally due to increased lending exposures). These increases were partially offset by a decrease in equity investments (principally due to reduced exposures) and a decrease in other credit RWAs (principally due to decreases in other assets and customer and other receivables). Standardized Market RWAs as of September 2024 decreased by \$3.06 billion compared with December 2023, primarily reflecting a decrease in stressed VaR (principally due to reduced exposures to interest rates), partially offset by an increase in specific risk (principally due to increased exposures to debt and equity instruments held for market-making purposes) and an increase in regulatory VaR (principally due to higher levels of volatility in equity markets).

Advanced Credit RWAs as of September 2024 decreased by \$1.92 billion compared with December 2023, primarily reflecting a decrease in equity investments (principally due to reduced exposures), partially offset by an increase in commitments, guarantees and loans (principally due to increased lending exposures). Advanced Market RWAs as of September 2024 decreased by \$3.06 billion compared with December 2023, primarily reflecting a decrease in stressed VaR (principally due to reduced exposures to interest rates), partially offset by an increase in specific risk (principally due to increased exposures to debt and equity instruments held for market-making purposes) and an increase in regulatory VaR (principally due to higher levels of volatility in equity markets).

#### **GS Bank USA**

GS Bank USA is the firm's primary U.S. bank subsidiary. GS Bank USA is a New York State-chartered bank and a member of the Federal Reserve System, is supervised and regulated by the FRB, the FDIC, the New York State Department of Financial Services (NYDFS) and the Consumer Financial Protection Bureau (CFPB), and is subject to regulatory capital requirements that are calculated under the Capital Framework. GS Bank USA is an "Advanced approaches" banking organization under the Capital Framework. The deposits of GS Bank USA are insured by the FDIC to the extent provided by law.

The Capital Framework includes the minimum risk-based capital and the capital conservation buffer requirements (consisting of a 2.5% buffer and the countercyclical capital buffer). The buffer must consist entirely of capital that qualifies as CET1 capital. In addition, the Capital Framework includes the leverage ratio requirement. GS Bank USA is required to calculate the CET1 capital. Tier 1 capital and Total capital ratios in accordance with both the Standardized and Advanced Capital Rules. The lower of each risk-based capital ratio under the Standardized and Advanced Capital Rules is the ratio against which GS Bank USA's compliance with its risk-based capital requirements is assessed. In addition, under the regulatory framework for prompt corrective action applicable to GS Bank USA, in order to meet the quantitative requirements for a "wellcapitalized" depository institution, GS Bank USA must also meet the "well-capitalized" requirements in the table below. GS Bank USA's capital levels and prompt corrective action classification are also subject to qualitative judgments by the regulators about components of capital, risk weightings and other factors. Failure to comply with the capital requirements, including a breach of the buffers described below, would result in restrictions being imposed by the regulators.

The table below presents GS Bank USA's risk-based capital, leverage and "well-capitalized" requirements.

	As of				
	September	December	September	December	
	2024	2023	2024	2023	
			"Well-cap	italized"	
	Require	ments	Require	ments	
Risk-based capital require	ements				
CET1 capital ratio	7.0%	7.0%	6.5%	6.5%	
Tier 1 capital ratio	8.5%	8.5%	8.0%	8.0%	
Total capital ratio	10.5%	10.5%	10.0%	10.0%	
Leverage requirements					
Tier 1 leverage ratio	4.0%	4.0%	5.0%	5.0%	
SLR	3.0%	3.0%	6.0%	6.0%	

In the table above:

- The CET1 capital ratio requirement includes a minimum of 4.5%, the Tier 1 capital ratio requirement includes a minimum of 6.0% and the Total capital ratio requirement includes a minimum of 8.0%. These requirements also include the capital conservation buffer requirements consisting of a 2.5% buffer and the countercyclical capital buffer, which the FRB has set to zero percent.
- The "well-capitalized" requirements are the binding requirements for leverage ratios.

The table below presents information about GS Bank USA's risk-based capital ratios.

Advanced		
60,354		
60,354		
930		
61,284		
287,399		
21.0%		
21.0%		
21.3%		
53,781		
53,781		
2,951		
56,732		
288,938		
18.6%		
18.6%		
19.6%		

In the table above:

- The lower of the Standardized or Advanced ratio is the ratio against which GS Bank USA's compliance with the capital requirements is assessed under the risk-based Capital Rules, and therefore, the Standardized ratios applied to GS Bank USA as of both September 2024 and December 2023.
- Beginning in January 2022, GS Bank USA started to phase in the estimated reduction to regulatory capital as a result of adopting the CECL model at 25% per year through January 2025. The total amount to be phased in includes the impact of adopting CECL as of January 1, 2020, as well as 25% of the increase in the allowance for credit losses from January 1, 2020 through December 31, 2021.
- The Standardized and Advanced risk-based capital ratios increased from December 2023 to September 2024, reflecting an increase in capital, principally due to net earnings, and a decrease in Market RWAs, partially offset by an increase in Credit RWAs.

The table below presents information about GS Bank USA's leverage ratios.

	For the Three Months Ended or as of					
	September Decemb					
\$ in millions	2024			2023		
Tier 1 capital	\$	60,354	\$	53,781		
Average adjusted total assets	\$	554,355	\$	523,546		
Total leverage exposure	\$	764,073	\$	722,465		
Tier 1 leverage ratio SLR		10.9% 7.9%		10.3% 7.4%		

In the table above:

- Average adjusted total assets represents the average daily assets for the quarter adjusted for deductions from Tier 1 capital and the impact of CECL transition.
- Tier 1 leverage ratio is calculated as Tier 1 capital divided by average adjusted total assets.
- SLR is calculated as Tier 1 capital divided by total leverage exposure.

The FRB requires that GS Bank USA maintain cash reserves with the Federal Reserve. As of both September 2024 and December 2023, the reserve requirement ratio was zero percent. See Note 26 for further information about cash deposits held by the firm at the Federal Reserve.

GS Bank USA is a registered swap dealer with the CFTC and a registered security-based swap dealer with the SEC. As of both September 2024 and December 2023, GS Bank USA was subject to and in compliance with applicable capital requirements for swap dealers and security-based swap dealers.

#### **Restrictions on Payments**

Group Inc. may be limited in its ability to access capital held at certain subsidiaries as a result of regulatory, tax or other constraints. These limitations include provisions of applicable law and regulations and other regulatory restrictions that limit the ability of those subsidiaries to declare and pay dividends without prior regulatory approval. For example, the amount of dividends that may be paid by GS Bank USA are limited to the lesser of the amounts calculated under a recent earnings test and an undivided profits test.

In addition, subsidiaries not subject to separate regulatory capital requirements may hold capital to satisfy local tax and legal guidelines, rating agency requirements (for entities with assigned credit ratings) or internal policies, including policies concerning the minimum amount of capital a subsidiary should hold based on its underlying level of risk.

Group Inc.'s equity investment in subsidiaries was \$139.74 billion as of September 2024 and \$133.75 billion as of December 2023, of which Group Inc. was required to maintain \$99.59 billion as of September 2024 and \$95.80 billion as of December 2023, of minimum equity capital in its regulated subsidiaries in order to satisfy the regulatory requirements of such subsidiaries.

Group Inc.'s capital invested in certain non-U.S. dollar functional currency subsidiaries is exposed to foreign exchange risk, substantially all of which is managed through a combination of non-U.S. dollar-denominated debt and derivatives. See Note 7 for information about the firm's net investment hedges used to hedge this risk.

#### Note 21.

### **Earnings Per Common Share**

Basic earnings per common share (EPS) is calculated by dividing net earnings to common by the weighted average number of common shares outstanding and RSUs for which the delivery of the underlying common stock is not subject to satisfaction of future service, performance or market conditions (collectively, basic shares). Diluted EPS includes the determinants of basic EPS and, in addition, reflects the dilutive effect of the common stock deliverable for RSUs for which the delivery of the underlying common stock is subject to satisfaction of future service, performance or market conditions.

The table below presents information about basic and diluted EPS.

	Three Months Ended September			Nine Months Ended Septemb				
in millions, except per share amounts		2024		2023		2024		2023
Net earnings to common	\$	2,780	\$	1,882	\$	9,602	\$	6,040
Weighted average basic shares		324.8		338.7		330.0		342.5
Effect of dilutive RSUs		6.0		5.2		5.3		4.9
Weighted average diluted shares		330.8		343.9		335.3		347.4
Basic EPS Diluted EPS	\$ \$	8.52 8.40	\$	5.52 5.47	\$ \$	28.98 28.64	\$	17.52 17.39

In the table above:

- Net earnings to common represents net earnings applicable to common shareholders, which is calculated as net earnings less preferred stock dividends.
- Unvested share-based awards that have non-forfeitable rights to dividends or dividend equivalents are treated as a separate class of securities under the two-class method. Distributed earnings allocated to these securities reduce net earnings to common to calculate EPS under this method. The impact of applying this methodology was a reduction in basic EPS of \$0.04 for both the three months ended September 2024 and September 2023, and \$0.12 for both the nine months ended September 2024 and September 2023.
- Diluted EPS does not include antidilutive RSUs, including those that are subject to market or performance conditions, of 0.2 million for the three months ended September 2024, 0.3 million for the three months ended September 2023, 0.3 million for the nine months ended September 2024 and 0.4 million for the nine months ended September 2023.

#### Note 22.

#### Transactions with Affiliated Funds

The firm has formed nonconsolidated investment funds with third-party investors. As the firm generally acts as the investment manager for these funds, it is entitled to receive management fees and, in certain cases, advisory fees or incentive fees from these funds. Additionally, the firm invests alongside the third-party investors in certain funds.

The tables below present information about affiliated funds.

	Three	Mor	nths	Nine N	/lontl	าร
	Ended S	epte	mber	Ended Se	epter	nber
\$ in millions	2024		2023	2024		2023
Fees earned from funds	\$ 1,386	\$	1,179	\$ 3,905	\$	3,496

	As of			
	Sep	otember	De	ecember
\$ in millions		2024		2023
Fees receivable from funds	\$	1,482	\$	1,536
Aggregate carrying value of interests in funds	\$	3,862	\$	4,042

In the ordinary course of business, the firm may choose to provide voluntary financial support to funds, although any such support is not expected to be material to the results of operations of the firm. The firm has waived or deferred collection of management fees and has deferred reimbursement of expenses, and in the future may waive or defer collection of management fees, from select funds. The impact of these waivers and deferrals was not material to the firm's results of operations for each of the three and nine months ended September 2024 and September 2023. Except as noted above, the firm did not provide any additional financial support to its affiliated funds during each of the three and nine months ended September 2024 and September 2023.

In addition, in the ordinary course of business, the firm may also engage in other activities with its affiliated funds, including, among others, securities lending, trade execution, market-making, custody, and acquisition and bridge financing. See Note 18 for information about the firm's investment commitments related to these funds.

#### Note 23.

### **Interest Income and Interest Expense**

Interest is recorded over the life of the instrument on an accrual basis based on contractual interest rates.

The table below presents sources of interest income and interest expense.

	Three	Months	Nine Months				
	Ended S	eptember	Ended Se	Ended September			
\$ in millions	2024	2023	2024	2023			
Deposits with banks	\$ 2,354	\$ 3,065	\$ 7,589	\$ 8,331			
Collateralized agreements	5,147	4,287	15,060	11,744			
Trading assets	4,063	2,222	10,340	5,990			
Investments	1,656	1,001	4,253	2,729			
Loans	4,230	3,797	12,146	10,942			
Other interest	3,998	3,885	12,055	10,295			
Total interest income	21,448	18,257	61,443	50,031			
Deposits	5,298	4,433	15,554	11,959			
Collateralized financings	4,447	3,635	12,960	9,131			
Trading liabilities	759	633	2,081	1,769			
Short-term borrowings	589	317	1,628	848			
Long-term borrowings	2,874	2,913	8,372	8,285			
Other interest	4,858	4,779	14,375	13,027			
Total interest expense	18,825	16,710	54,970	45,019			
Net interest income	\$ 2,623	\$ 1,547	\$ 6,473	\$ 5,012			

#### In the table above:

- Collateralized agreements includes rebates paid and interest income on securities borrowed.
- Loans excludes interest on loans held for sale that are accounted for at the lower of cost or fair value. Such interest is included within other interest.
- Other interest income includes interest income on customer debit balances, other interest-earning assets and loans held for sale that are accounted for at the lower of cost or fair value.
- Collateralized financings consists of repurchase agreements and securities loaned.
- Short- and long-term borrowings include both secured and unsecured borrowings.
- Other interest expense includes rebates received on other interest-bearing liabilities and interest expense on customer credit balances.

#### Note 24.

### **Income Taxes**

#### **Provision for Income Taxes**

Income taxes are provided for using the asset and liability method under which deferred tax assets and liabilities are recognized for temporary differences between the financial reporting and tax bases of assets and liabilities. The firm reports interest expense related to income tax matters in provision for taxes and income tax penalties in other expenses.

#### **Deferred Income Taxes**

Deferred income taxes reflect the net tax effects of temporary differences between the financial reporting and tax bases of assets and liabilities. These temporary differences result in taxable or deductible amounts in future years and are measured using the tax rates and laws that will be in effect when such differences are expected to reverse. Valuation allowances are established to reduce deferred tax assets to the amount that more likely than not will be realized and primarily relate to the ability to utilize losses and tax credits in various tax jurisdictions. Tax assets are included in other assets and tax liabilities are included in other liabilities.

### **Unrecognized Tax Benefits**

The firm recognizes tax positions in the consolidated financial statements only when it is more likely than not that the position will be sustained on examination by the relevant taxing authority based on the technical merits of the position. A position that meets this standard is measured at the largest amount of benefit that will more likely than not be realized on settlement. A liability is established for differences between positions taken in a tax return and amounts recognized in the consolidated financial statements.

### **Regulatory Tax Examinations**

The firm is subject to examination by the U.S. Internal Revenue Service (IRS) and other taxing authorities in jurisdictions where the firm has significant business operations, such as the United Kingdom, Japan, Hong Kong and various states, such as New York. The tax years under examination vary by jurisdiction. The firm does not expect completion of these audits to have a material impact on the firm's financial condition, but it may be material to operating results for a particular period, depending, in part, on the operating results for that period.

The table below presents the earliest tax years that remain subject to examination by major jurisdiction.

	As of
Jurisdiction	September 2024
U.S. Federal	2011
New York State and City	2015
United Kingdom	2017
Japan	2018
Hong Kong	2018

The firm has been accepted into the Compliance Assurance Process (CAP) program by the IRS for each of the tax years from 2013 through 2024. This program allows the firm to work with the IRS to identify and resolve potential U.S. Federal tax issues before the filing of tax returns. All issues addressed through the CAP program for the 2011 through 2018 tax years have been resolved and completion is pending final review by the Joint Committee on Taxation. All issues for the 2019 through 2022 tax years have been resolved and will be effectively settled pending administrative completion by the IRS. Final completion of tax years 2011 through 2022 will not have a material impact on the effective tax rate. The 2023 tax year remains subject to post-filing review. New York State and City examinations of tax years 2015 through 2018 commenced during 2021.

All years, including and subsequent to the years in the table above, remain open to examination by the taxing authorities. The firm believes that the liability for unrecognized tax benefits it has established is adequate in relation to the potential for additional assessments.

#### Note 25.

### **Business Segments**

The firm manages and reports its activities in three business segments: Global Banking & Markets, Asset & Wealth Management and Platform Solutions. See Note 1 for information about the firm's business segments.

Compensation and benefits expenses in the firm's segments reflect, among other factors, the overall performance of the firm, as well as the performance of individual businesses. Consequently, pre-tax margins in one segment of the firm's business may be significantly affected by the performance of the firm's other business segments.

The firm allocates assets (including allocations of global core liquid assets and cash, secured client financing and other assets), revenues and expenses among the three business segments. Due to the integrated nature of these segments, estimates and judgments are made in allocating certain assets, revenues and expenses. The allocation process is based on the manner in which management currently views the performance of the segments.

The allocation of common shareholders' equity and preferred stock dividends to each segment is based on the estimated amount of equity required to support the activities of the segment under relevant regulatory capital requirements.

Net earnings for each segment is calculated by applying the firmwide tax rate to each segment's pre-tax earnings.

Management believes that this allocation provides a reasonable representation of each segment's contribution to consolidated net earnings to common, return on average common equity and total assets. Transactions between segments are based on specific criteria or approximate third-party rates.

### **Segment Results**

The table below presents a summary of the firm's segment results.

	Three Months			Nine Months					
		Ended September				Ended September			
\$ in millions		2024		2023		2024		2023	
Global Banking & Markets									
Non-interest revenues	\$	7,441	\$	7,838	\$	24,293	\$	22,922	
Net interest income		1,113		171		2,171		720	
Total net revenues		8,554		8,009		26,464		23,642	
Provision for credit losses		54		29		95		214	
Operating expenses		4,969		4,791		15,197		13,702	
Pre-tax earnings	\$	3,531	\$	3,189	\$	11,172	\$	9,726	
Net earnings	\$	2,653	\$	2,383	\$	8,643	\$	7,460	
Net earnings to common	\$	2,490	\$	2,250	\$	8,205	\$	7,108	
Average common equity	\$	76,039	\$	72,517	\$	75,575	\$	70,968	
Return on average common equity		13.1%		12.4%		14.5%		13.4%	
Asset & Wealth Management									
Non-interest revenues	\$	2,988	\$	2,544	\$	9,241	\$	7,100	
Net interest income	*	766	Ψ	686	Ť	2,180	•	2,393	
Total net revenues	_	3,754		3,230		11,421		9,493	
Provision for credit losses		(109)		51		(189)		(499)	
Operating expenses		2,848		3,005		8,819		9,448	
Pre-tax earnings	\$	1,015	\$	174	\$	2,791	\$	544	
Net earnings	\$	767	\$	129	\$	2,159	\$	417	
Net earnings to common	\$	727	\$	93	\$	2,053	\$	318	
Average common equity	\$	26,475	\$	28,601	\$	26,348	\$	30,806	
Return on average common equity		11.0%		1.3%		10.4%		1.4%	
Platform Solutions									
Non-interest revenues	\$	(353)	Φ	(112)	\$	(364)	Φ	(98)	
Net interest income	Ф	744	Φ	690	Ф	2,122	Φ	1,899	
Total net revenues		391		578		1.758		1,801	
Provision for credit losses		452		(73)		1,091		736	
Operating expenses		498		1,258		1,490		2,850	
Pre-tax earnings/(loss)	\$	(559)	Φ	(607)	\$	(823)	Φ.	(1,785)	
Net earnings/(loss)	\$	(430)		(454)	\$	(637)		(1,369)	
Net earnings/(loss) to common	\$	(437)		(461)	\$	(656)		(1,386)	
Average common equity	\$	4,508	\$	4,227	\$	4,547	\$	4,060	
Return on average common equity	Ψ	(38.8)%	Ψ	(43.6)%	Ψ	(19.2)%	Ψ	(45.5)%	
Trotain on avorage common equity		(00.0)70		(10.0/70		(10.2)70		(10.0) 70	
Total									
Non-interest revenues	\$	10,076	\$	10,270	\$	33,170	\$	29,924	
Net interest income		2,623		1,547		6,473		5,012	
Total net revenues		12,699		11,817		39,643		34,936	
Provision for credit losses		397		7		997		451	
Operating expenses	_	8,315	Φ	9,054	•	25,506	Φ	26,000	
Pre-tax earnings	\$	3,987	\$	2,756		13,140	\$	8,485	
Net earnings	\$	2,990	\$	2,058		10,165	\$	6,508	
Net earnings to common	\$	2,780	\$	1,882	\$	9,602	\$	6,040	
Average common equity	\$	107,022	ф.	105,345	\$	106,470	ф.	105,834	
Return on average common equity		10.4%		7.1%		12.0%		7.6%	

#### In the table above:

- Revenues and expenses directly associated with each segment are included in determining pre-tax earnings.
- Net revenues in the firm's segments include allocations of interest income and expense to specific positions in relation to the cash generated by, or funding requirements of, such positions. Net interest is included in segment net revenues as it is consistent with how management assesses segment performance.
- Expenses not directly associated with specific segments are allocated based on an estimate of support provided to each segment.

The table below presents depreciation and amortization expense by segment.

	Е	Three Months Ended September			Nine Months Ended September			
\$ in millions		2024		2023		2024		2023
Global Banking & Markets	\$	276	\$	275	\$	854	\$	837
Asset & Wealth Management		216		607		825		1,954
Platform Solutions		129		630		215		1,285
Total	\$	621	\$	1,512	\$	1,894	\$	4,076

In the table above:

- The decrease in Asset & Wealth Management for both the three and nine months ended September 2024 primarily reflected significantly lower impairments related to commercial real estate in CIEs.
- The decrease in Platform Solutions primarily reflected a write-down related to GreenSky of \$506 million for both the three and nine months ended September 2023, and an impairment of goodwill related to Consumer platforms of \$504 million for the nine months ended September 2023.

#### **Segment Assets**

The table below presents assets by segment.

	As of				
	September Decem				
\$ in millions	2024	2023			
Global Banking & Markets	\$ 1,471,242	\$1,381,247			
Asset & Wealth Management	196,460	191,863			
Platform Solutions	60,378	68,484			
Total	\$ 1,728,080	\$ 1,641,594			

#### **Geographic Information**

Due to the highly integrated nature of international financial markets, the firm manages its businesses based on the profitability of the enterprise as a whole. The methodology for allocating profitability to geographic regions is dependent on estimates and management judgment because a significant portion of the firm's activities require cross-border coordination in order to facilitate the needs of the firm's clients. Geographic results are generally allocated as follows:

- Global Banking & Markets: Investment banking fees and Other: location of the client and investment banking team;
   FICC intermediation and Equities intermediation: location of the market-making desk;
   FICC financing and Equities financing: location of the desk.
- Asset & Wealth Management (excluding direct-toconsumer business, Equity investments and Debt investments): location of the sales team; Direct-toconsumer business: location of the client; Equity investments and Debt investments: location of the investment or investment professional.
- Platform Solutions: location of the client.

The table below presents total net revenues and pre-tax earnings by geographic region.

\$ in millions	2024			2023		
Three Months Ended September						
Americas	\$ 8,0	45 63%	\$	7,570	64%	
EMEA	3,0	76 24%		2,811	24%	
Asia	1,5	78 13%		1,436	12%	
Total net revenues	\$ 12,6	99 100%	\$	11,817	100%	
Americas	\$ 2,3	89 60%	\$	1,590	58%	
EMEA	1.1		•	927	33%	
Asia	4	16 10%		239	9%	
Total pre-tax earnings	\$ 3,9	87 100%	\$	2,756	100%	
Nine Months Ended September						
Americas	\$ 25,3	51 64%	\$	21,565	62%	
EMEA	9,4		Ψ	9.263	26%	
Asia	4,8			4,108	12%	
Total net revenues	\$ 39,6		\$	34,936	100%	
	<b>.</b>	00 000/	•	4.000	E00/	
Americas	\$ 8,1		\$	4,209	50%	
EMEA	3,6			3,391	40%	
Asia	1,2	75 10%		885	10%	
Total pre-tax earnings	\$ 13,1	40 100%	\$	8,485	100%	

In the table above:

- Americas pre-tax earnings for both the three and nine months ended September 2023 were impacted by impairments related to commercial real estate in CIEs and the write-down related to GreenSky. Additionally, Americas pre-tax earnings for the nine months ended September 2023 were impacted by an impairment of goodwill related to Consumer platforms.
- Substantially all of the amounts in the Americas were attributable to the U.S.
- Asia includes Australia and New Zealand.

#### Note 26.

#### Credit Concentrations

The firm's concentrations of credit risk arise from its market-making, client facilitation, investing, underwriting, lending and collateralized transactions, and cash management activities, and may be impacted by changes in economic, industry or political factors. These activities expose the firm to many different industries and counterparties, and may also subject the firm to a concentration of credit risk to a particular central bank, counterparty, borrower or issuer, including sovereign issuers, or to a particular clearinghouse or exchange. The firm seeks to mitigate credit risk by actively monitoring exposures and obtaining collateral from counterparties as deemed appropriate.

The firm measures and monitors its credit exposure based on amounts owed to the firm after taking into account risk mitigants that the firm considers when determining credit risk. Such risk mitigants include netting and collateral arrangements and economic hedges, such as credit derivatives, futures and forward contracts. Netting and collateral agreements permit the firm to offset receivables and payables with such counterparties and/or enable the firm to obtain collateral on an upfront or contingent basis.

The table below presents the credit concentrations included in trading cash instruments and investments.

	As of			
	S	eptember	[	December
\$ in millions		2024		2023
U.S. government and agency obligations	\$	389,164	\$	260,531
Percentage of total assets		22.5%		15.9%
Non-U.S. government and agency obligations	\$	104,139	\$	90,681
Percentage of total assets		6.0%		5.5%

In addition, the firm had \$120.96 billion as of September 2024 and \$206.07 billion as of December 2023 of cash deposits held at central banks (included in cash and cash equivalents), of which \$77.21 billion as of September 2024 and \$105.66 billion as of December 2023 was held at the Federal Reserve.

As of both September 2024 and December 2023, the firm did not have credit exposure to any other counterparty that exceeded 2% of total assets.

Collateral obtained by the firm related to derivative assets is principally cash and is held by the firm or a third-party custodian. Collateral obtained by the firm related to resale agreements and securities borrowed transactions is primarily U.S. government and agency obligations, and non-U.S. government and agency obligations. See Note 11 for further information about collateralized agreements and financings.

The table below presents U.S. government and agency obligations, and non-U.S. government and agency obligations that collateralize resale agreements and securities borrowed transactions.

	As of		
	S	eptember	December
\$ in millions		2024	2023
U.S. government and agency obligations	\$	159,191	\$ 154,056
Non-U.S. government and agency obligations	\$	78,618	\$ 92,833

#### In the table above:

- Non-U.S. government and agency obligations primarily consists of securities issued by the governments of the U.K., Japan, Germany, France and Italy.
- Given that the firm's primary credit exposure on such transactions is to the counterparty to the transaction, the firm would be exposed to the collateral issuer only in the event of counterparty default.

#### Note 27.

### **Legal Proceedings**

The firm is involved in a number of judicial, regulatory and arbitration proceedings (including those described below) concerning matters arising in connection with the conduct of the firm's businesses. Many of these proceedings are in early stages, and many of these cases seek an indeterminate amount of damages.

Under ASC 450, an event is "reasonably possible" if "the chance of the future event or events occurring is more than remote but less than likely" and an event is "remote" if "the chance of the future event or events occurring is slight." Thus, references to the upper end of the range of reasonably possible loss for cases in which the firm is able to estimate a range of reasonably possible loss mean the upper end of the range of loss for cases for which the firm believes the risk of loss is more than slight.

With respect to matters described below for which management has been able to estimate a range of reasonably possible loss where (i) actual or potential plaintiffs have claimed an amount of money damages, (ii) the firm is being, or threatened to be, sued by purchasers in a securities offering and is not being indemnified by a party that the firm believes will pay the full amount of any judgment, or (iii) the purchasers are demanding that the firm repurchase securities, management has estimated the upper end of the range of reasonably possible loss based on (a) in the case of (i), the amount of money damages claimed, (b) in the case of (ii), the difference between the initial sales price of the securities that the firm sold in such offering and the estimated lowest subsequent price of such securities prior to the action being commenced and (c) in the case of (iii), the price that purchasers paid for the securities less the estimated value, if any, as of September 2024 of the relevant securities, in each of cases (i), (ii) and (iii), taking into account any other factors believed to be relevant to the particular matter or matters of that type. As of the date hereof, the firm has estimated the upper end of the range of reasonably possible aggregate loss for such matters and for any other matters described below where management has been able to estimate a range of reasonably possible aggregate loss to be approximately \$2.0 billion in excess of the aggregate reserves for such matters.

Management is generally unable to estimate a range of reasonably possible loss for matters other than those included in the estimate above, including where (i) actual or potential plaintiffs have not claimed an amount of money damages, except in those instances where management can otherwise determine an appropriate amount, (ii) matters are in early stages, (iii) matters relate to regulatory investigations or reviews, except in those instances where management can otherwise determine an appropriate amount, (iv) there is uncertainty as to the likelihood of a class being certified or the ultimate size of the class, (v) there is uncertainty as to the outcome of pending appeals or motions, (vi) there are significant factual issues to be resolved, and/or (vii) there are novel legal issues presented. For example, the firm's potential liabilities with respect to the investigations and reviews described below in "Regulatory Investigations and Reviews and Related Litigation" generally are not included in management's estimate of reasonably possible loss. However, management does not believe, based on currently available information, that the outcomes of such other matters will have a material adverse effect on the firm's financial condition, though the outcomes could be material to the firm's operating results for any particular period, depending, in part, upon the operating results for such period.

#### **1MDB-Related Matters**

Between 2012 and 2013, subsidiaries of the firm acted as arrangers or purchasers of approximately \$6.5 billion of debt securities of 1MDB.

On November 1, 2018, the U.S. Department of Justice (DOJ) unsealed a criminal information and guilty plea by Tim Leissner, a former participating managing director of the firm, and an indictment against Ng Chong Hwa, a former managing director of the firm. On August 28, 2018, Leissner was adjudicated guilty by the U.S. District Court for the Eastern District of New York of conspiring to launder money and to violate the U.S. Foreign Corrupt Practices Act's (FCPA) anti-bribery and internal accounting controls provisions. Ng was charged with conspiring to launder money and to violate the FCPA's anti-bribery and internal accounting controls provisions, and on April 8, 2022, Ng was found guilty on all counts following a trial.

On August 18, 2020, the firm announced that it entered into a settlement agreement with the Government of Malaysia to resolve the criminal and regulatory proceedings in Malaysia involving the firm, which includes a guarantee that the Government of Malaysia receives at least \$1.4 billion in assets and proceeds from assets seized by governmental authorities around the world related to 1MDB. See Note 18 for further information about this guarantee, including related arbitration proceedings.

On October 22, 2020, the firm announced that it reached settlements of governmental and regulatory investigations relating to 1MDB with the DOJ, the SEC, the FRB, the NYDFS, the Financial Conduct Authority, the Prudential Regulation Authority, the Singapore Attorney General's Chambers, the Singapore Commercial Affairs Department, the Monetary Authority of Singapore and the Hong Kong Securities and Futures Commission. Group Inc. entered into a three-year deferred prosecution agreement with the DOJ, in which a charge against the firm, one count of conspiracy to violate the FCPA, was filed and was later dismissed on May 6, 2024 in accordance with the agreement. In addition, GS Malaysia pleaded guilty to one count of conspiracy to violate the FCPA, and was sentenced on June 9, 2021. In May 2021, the U.S. Department of Labor granted the firm a five-year exemption to maintain its status as a qualified professional asset manager (QPAM).

On December 20, 2018, a putative securities class action lawsuit was filed in the U.S. District Court for the Southern District of New York against Group Inc. and certain former officers of the firm alleging violations of the anti-fraud provisions of the Exchange Act with respect to Group Inc.'s disclosures and public statements concerning 1MDB and seeking unspecified damages. The plaintiff filed the second amended complaint on October 28, 2019. On June 28, 2021, the court dismissed the claims against one of the individual defendants but denied the defendants' motion to dismiss with respect to the firm and the remaining individual defendants. On August 4, 2023, the plaintiff filed a third amended complaint. On September 29, 2023, the plaintiff moved for class certification. On April 5, 2024, the Magistrate Judge recommended that the plaintiff's motion for class certification be granted in part and denied in part. On May 3, 2024, the defendants filed objections to the Magistrate Judge's report and recommendation with the district court.

### **Mortgage-Related Matters**

Complaints were filed in the U.S. District Court for the Southern District of New York on July 25, 2019 and May 29, 2020 against Goldman Sachs Mortgage Company and GS Mortgage Securities Corp. by U.S. Bank National Association, as trustee for two residential mortgage-backed securitization trusts that issued \$1.7 billion of securities. The complaints generally allege that mortgage loans in the trusts failed to conform to applicable representations and warranties and seek specific performance or, alternatively, compensatory damages and other relief. On November 23, 2020, the court granted in part and denied in part defendants' motion to dismiss the complaint in the first action and denied defendants' motion to dismiss the complaint in the second action. On January 14, 2021, amended complaints were filed in both actions.

### **Currencies-Related Litigation**

GS&Co. is among the defendants named in a putative class action filed in the U.S. District Court for the Southern District of New York on August 4, 2021. The amended complaint, filed on January 6, 2022, generally asserts claims under federal antitrust law and state common law in connection with an alleged conspiracy among the defendants to manipulate auctions for foreign exchange transactions on an electronic trading platform, as well as claims under the Racketeer Influenced and Corrupt Organizations Act. The complaint seeks declaratory and injunctive relief, as well as unspecified amounts of treble and other damages. On May 18, 2023, the court dismissed certain state common law claims, but denied dismissal of the remaining claims. On July 7, 2023, the plaintiffs filed a second amended complaint.

#### Banco Espirito Santo S.A. and Oak Finance

In December 2014, September 2015 and December 2015, the Bank of Portugal (BoP) rendered decisions to reverse an earlier transfer to Novo Banco of an \$835 million facility agreement (the Facility), structured by GSI, between Oak Finance Luxembourg S.A. (Oak Finance), a special purpose vehicle formed in connection with the Facility, and Banco Espirito Santo S.A. (BES) prior to the failure of BES. In response, GSI and, with respect to the BoP's December 2015 decision, GSIB commenced actions beginning in February 2015 against Novo Banco S.A. (Novo Banco) in the English Commercial Court and the BoP in the Portuguese Administrative Court. In July 2018, the English Supreme Court found that the English courts will not have jurisdiction over GSI's action unless and until the Portuguese Administrative Court finds against BoP in GSI's parallel action. In July 2018, the Liquidation Committee for BES issued a decision seeking to claw back from GSI \$54 million paid to GSI and \$50 million allegedly paid to Oak Finance in connection with the Facility, alleging that GSI acted in bad faith in extending the Facility, including because GSI allegedly knew that BES was at risk of imminent failure. In October 2018, GSI commenced an action in the Lisbon Commercial Court challenging the Liquidation Committee's decision and has since also issued a claim against the Portuguese State seeking compensation for losses of approximately \$222 million related to the failure of BES, together with a contingent claim for the \$104 million sought by the Liquidation Committee. On April 11, 2023, GSI commenced administrative proceedings against the BoP, seeking the nullification of the BoP's September 2015 and December 2015 decisions on new grounds.

#### **Financial Advisory Services**

Group Inc. and certain of its affiliates are from time to time parties to various civil litigation and arbitration proceedings and other disputes with clients and third parties relating to the firm's financial advisory activities. These claims generally seek, among other things, compensatory damages and, in some cases, punitive damages, and in certain cases allege that the firm did not appropriately disclose or deal with conflicts of interest.

#### **Archegos-Related Matters**

GS&Co. is among the underwriters named as defendants in a putative securities class action filed on August 13, 2021 in New York Supreme Court, County of New York, relating to ViacomCBS Inc.'s (ViacomCBS) March 2021 public offerings of \$1.7 billion of common stock and \$1.0 billion of preferred stock. In addition to the underwriters, the defendants include ViacomCBS and certain of its officers and directors, GS&Co. underwrote 646,154 shares of common stock representing an aggregate offering price of approximately \$55 million and 323,077 shares of preferred stock representing an aggregate offering price of approximately \$32 million. The complaint asserts claims under the federal securities laws and alleges that the offering documents contained misstatements and omissions, including, among other things, that the offering documents failed to disclose that Archegos Capital Management, LP (Archegos) had substantial exposure to ViacomCBS, including through total return swaps to which certain of the underwriters (the trading underwriters), including GS&Co., were counterparties, and that such underwriters failed to disclose their exposure to Archegos. On December 21, 2021, the plaintiffs filed a corrected amended complaint. The complaint seeks rescission and compensatory damages in unspecified amounts. On February 6, 2023, the trial court dismissed the claims against ViacomCBS and the individual defendants, but denied the defendants' motions to dismiss with respect to GS&Co. and the other underwriter defendants. On January 4, 2024, the trial court granted the plaintiffs' motion for class certification, and on February 14, 2024, the underwriter defendants appealed. On April 4, 2024, the Appellate Division for the First Department affirmed the trial court's dismissal of the claims against ViacomCBS and the individual defendants, reversed the trial court's failure to dismiss the claims against the non-trading underwriter defendants, and affirmed the trial court's denial of the motion to dismiss claims against the trading underwriter defendants, including GS&Co.

Group Inc. is also a defendant in putative securities class actions filed beginning in October 2021 and consolidated in the U.S. District Court for the Southern District of New York. The complaints allege that Group Inc., along with another financial institution, sold shares in Baidu Inc. (Baidu), Discovery Inc. (Discovery), GSX Techedu Inc. (Gaotu), iQIYI Inc. (iQIYI), Tencent Music Entertainment Group (Tencent), ViacomCBS, and Vipshop Holdings Ltd. (Vipshop) based on material nonpublic information regarding the liquidation of Archegos' position in Baidu, Discovery, Gaotu, iQIYI, Tencent, ViacomCBS and Vipshop, respectively. The complaints generally assert violations of Sections 10(b), 20A and 20(a) of the Exchange Act and seek unspecified damages. In May 2023, the plaintiffs in the class actions filed second amended complaints, and on March 28, 2024, the court granted the defendants' motion to dismiss the second amended complaints with prejudice. On April 26, 2024, the plaintiffs appealed to the U.S. Court of Appeals for the Second Circuit.

#### Silicon Valley Bank Matters

GS&Co. is among the underwriters named as defendants in a putative securities class action filed on April 7, 2023 and consolidated in the U.S. District Court for the Northern District of California and an individual action filed on January 25, 2024 in the same court relating to SVB Financial Group's (SVBFG) January 2021 public offerings of \$500 million principal amount of senior notes and \$750 million of depositary shares representing interests in preferred stock, March 2021 public offering of approximately \$1.2 billion of common stock, May 2021 public offerings of \$1.0 billion of depositary shares representing interests in preferred stock and \$500 million principal amount of senior notes, August 2021 public offering of approximately \$1.3 billion of common stock, and April 2022 public offering of \$800 million aggregate principal amount of senior notes, among other public offerings of securities. In addition to the underwriters, the defendants include certain of SVBFG's officers and directors and its auditor. GS&Co. underwrote an aggregate of 831,250 depositary shares representing an aggregate offering price of approximately \$831 million, an aggregate of 3,266,108 shares of common stock representing an aggregate offering price of approximately \$1.8 billion and senior notes representing an aggregate price to the public of approximately \$727 million. The complaints generally assert claims under the federal securities laws and allege that the offering documents contained material misstatements and omissions. The complaints seek compensatory damages in unspecified amounts. On March 17, 2023, SVBFG filed for Chapter 11 bankruptcy in the U.S. Bankruptcy Court for the Southern District of New York. On January 16, 2024, the plaintiffs filed a consolidated amended complaint in the putative class action, and on April 3, 2024, the defendants moved to dismiss the consolidated amended complaint.

The firm is also cooperating with and providing information to various governmental bodies in connection with their investigations and inquiries regarding SVBFG and its affiliates (collectively SVB), including the firm's business with SVB in or around March 2023, when SVB engaged the firm to assist with a proposed capital raise and SVB sold the firm a portfolio of securities.

#### **Underwriting Litigation**

Firm affiliates are among the defendants in a number of proceedings in connection with securities offerings. In these proceedings, including those described below, the plaintiffs assert class action or individual claims under federal and state securities laws and in some cases other applicable laws, allege that the offering documents for the securities that they purchased contained material misstatements and omissions, and generally seek compensatory and rescissory damages in unspecified amounts, as well as rescission. Certain of these proceedings involve additional allegations.

**Uber Technologies, Inc.** GS&Co. is among the underwriters named as defendants in several putative securities class actions filed beginning in September 2019 in California Superior Court, County of San Francisco and the U.S. District Court for the Northern District of California, relating to Uber Technologies, Inc.'s (Uber) \$8.1 billion May 2019 initial public offering. In addition to the underwriters, the defendants include Uber and certain of its officers and directors. GS&Co. underwrote 35,864,408 shares of common stock representing an aggregate offering price approximately \$1.6 billion. On November 16, 2020, the court in the state court action granted defendants' motion to dismiss the consolidated amended complaint filed on February 11, 2020, and on December 16, 2020, plaintiffs appealed. On August 7, 2020, defendants' motion to dismiss the district court action was denied. On September 25, 2020, the plaintiffs in the district court action moved for class certification. On December 5, 2020, the plaintiffs in the state court action filed a complaint in the district court, which was consolidated with the existing district court action on January 25, 2021. On May 14, 2021, the plaintiffs filed a second amended complaint in the district court, purporting to add the plaintiffs from the state court action as additional class representatives. On October 1, 2021, defendants' motion to dismiss the additional class representatives from the second amended complaint was denied, and on July 26, 2022, the district court granted the plaintiffs' motion for class certification. On February 27, 2023, the U.S. Court of Appeals for the Ninth Circuit denied the defendants' petition seeking interlocutory review of the district court's grant of class certification. On August 9, 2024, the court in the federal court action preliminarily approved a settlement, which will not require a contribution from GS&Co.

Array Technologies, Inc. GS&Co. is among the underwriters named as defendants in a putative securities class action filed on May 14, 2021 in the U.S. District Court for the Southern District of New York relating to Array Technologies, Inc.'s (Array) \$1.2 billion October 2020 initial public offering of common stock, \$1.3 billion December 2020 offering of common stock and \$993 million March 2021 offering of common stock. In addition to the underwriters, the defendants include Array and certain of its officers and directors. GS&Co. underwrote an aggregate of 31,912,213 shares of common stock in the three offerings representing an aggregate offering price of approximately \$877 million. On December 7, 2021, the plaintiffs filed an amended consolidated complaint, and on May 19, 2023, the court granted the defendants' motion to dismiss the amended consolidated complaint. On July 5, 2023, the court denied the plaintiffs' request for leave to amend the amended consolidated complaint and dismissed the case with prejudice. On August 4, 2023, plaintiffs appealed to the U.S. Court of Appeals for the Second Circuit.

**ContextLogic Inc.** GS&Co. is among the underwriters named as defendants in putative securities class actions filed beginning on May 17, 2021 and consolidated in the U.S. District Court for the Northern District of California, relating to ContextLogic Inc.'s (ContextLogic) \$1.1 billion December 2020 initial public offering of common stock. In addition to the underwriters, the defendants include ContextLogic and certain of its officers and directors. GS&Co. underwrote 16,169,000 shares of common stock representing an aggregate offering price of approximately \$388 million. On July 15, 2022, the plaintiffs filed a consolidated amended complaint, and on March 10, 2023, the court granted the defendants' motion to dismiss the consolidated amended complaint with leave to amend. On April 10, 2023, the plaintiffs filed a second consolidated amended complaint, and on December 22, 2023, the court granted in part and denied in part the defendants' motion to dismiss the second consolidated amended complaint with leave to amend. On February 15, 2024, the plaintiffs filed a third consolidated amended complaint, and on August 22, 2024, the court granted the defendants' motion to dismiss the third consolidated amended complaint without leave to amend. On September 19, 2024, the plaintiffs filed a motion to alter the court's judgment.

**DiDi Global Inc.** Goldman Sachs (Asia) L.L.C. (GS Asia) is among the underwriters named as defendants in putative securities class actions filed beginning on July 6, 2021 in the U.S. District Courts for the Southern District of New York and the Central District of California and New York Supreme Court, County of New York, relating to DiDi Global Inc.'s (DiDi) \$4.4 billion June 2021 initial public offering of American Depositary Shares (ADS). In addition to the underwriters, the defendants include DiDi and certain of its officers and directors. GS Asia underwrote 104,554,000 representing an aggregate offering price of approximately \$1.5 billion. On September 22, 2021, plaintiffs in the California action voluntarily dismissed their claims without prejudice. On May 5, 2022, plaintiffs in the consolidated federal action filed a second consolidated amended complaint, which includes allegations of violations of Sections 10(b) and 20A of the Exchange Act against the underwriter defendants. On March 14, 2024, the court denied the defendants' motions to dismiss the second consolidated amended complaint.

**Vroom Inc.** GS&Co. is among the underwriters named as defendants in an amended complaint for a putative securities class action filed on October 4, 2021 in the U.S. District Court for the Southern District of New York relating to Vroom Inc.'s (Vroom) approximately \$589 million September 2020 public offering of common stock. In addition to the underwriters, the defendants include Vroom and certain of its officers and directors. GS&Co. underwrote 3,886,819 shares of common stock representing an aggregate offering price of approximately \$212 million. On December 20, 2021, the defendants served a motion to dismiss the consolidated complaint.

**Zymergen Inc.** GS&Co. is among the underwriters named as defendants in a putative securities class action filed on August 4, 2021 in the U.S. District Court for the Northern District of California relating to Zymergen Inc.'s (Zymergen) \$575 million April 2021 initial public offering of common stock. In addition to the underwriters, the defendants include Zymergen, certain of its officers and directors and certain of its shareholders. GS&Co. underwrote 5,750,345 shares of common stock representing an aggregate offering price of approximately \$178 million. On February 24, 2022, the plaintiffs filed an amended complaint, and on November 29, 2022, the court granted in part and denied in part the defendants' motion to dismiss the amended complaint, denying dismissal of the claims for violations of Section 11 of the Securities Act. On August 11, 2023, the court granted the plaintiffs' motion for class certification. On October 3, 2023, Zymergen and three affiliates filed Chapter 11 bankruptcy petitions in the U.S. Bankruptcy Court for the District of Delaware. On March 4, 2024, the plaintiffs filed a second amended complaint.

**Sea Limited.** GS Asia is among the underwriters named as defendants in putative securities class actions filed on February 11, 2022 and June 17, 2022, respectively, in New York Supreme Court, County of New York, relating to Sea Limited's approximately \$4.0 billion September 2021 public offering of ADS and approximately \$2.9 billion September 2021 public offering of convertible senior notes, respectively. In addition to the underwriters, the defendants include Sea Limited, certain of its officers and directors and certain of its shareholders. GS Asia underwrote 8,222,500 representing an aggregate offering price of approximately \$2.6 billion and convertible senior notes representing an aggregate offering price of approximately \$1.9 billion. On August 3, 2022, the actions were consolidated, and on August 9, 2022, the plaintiffs filed a consolidated amended complaint. The defendants had previously moved to dismiss the action on July 15, 2022, with the parties stipulating that the motion would apply to the consolidated amended complaint. On May 15, 2023, the court granted the defendants' motion to dismiss the consolidated amended complaint with prejudice. On May 28, 2024, the Appellate Division for the First Department reversed the trial court's dismissal of the consolidated amended complaint, and on June 27, 2024, the defendants moved to reargue or alternatively, for leave to appeal the reversal.

**Rivian Automotive Inc.** GS&Co. is among the underwriters named as defendants in putative securities class actions filed on March 7, 2022 and February 28, 2023 in the U.S. District Court for the Central District of California and in the Superior Court of the State of California, County of Orange, respectively, relating to Rivian Automotive Inc.'s (Rivian) approximately \$13.7 billion November 2021 initial public offering. In addition to the underwriters, the defendants include Rivian and certain of its officers and directors. GS&Co. underwrote 44,733,050 shares of common representing an aggregate offering price approximately \$3.5 billion. On March 2, 2023, the plaintiffs in the federal court action filed an amended consolidated complaint, and on July 3, 2023, the court denied the defendants' motion to dismiss the amended consolidated complaint. On June 30, 2023, the court in the state court action granted the defendants' motion to dismiss the complaint, and on September 1, 2023, the plaintiffs appealed. On July 17, 2024, the court in the federal court action granted the plaintiffs' motion for class certification.

**Natera Inc.** GS&Co. is among the underwriters named as defendants in putative securities class actions in New York Supreme Court, County of New York and the U.S. District Court for the Western District of Texas filed on March 10, 2022 and October 7, 2022, respectively, relating to Natera Inc.'s (Natera) approximately \$585 million July 2021 public offering of common stock. In addition to the underwriters, the defendants include Natera and certain of its officers and directors. GS&Co. underwrote 1,449,000 shares of common stock representing an aggregate offering price approximately \$164 million. On July 15, 2022, the parties in the state court action filed a stipulation and proposed order approving the discontinuance of the action without prejudice. On September 11, 2023, the federal court granted in part and denied in part the defendants' motion to dismiss. On June 4, 2024, the plaintiffs in the federal court action moved for class certification.

Robinhood Markets, Inc. GS&Co. is among the underwriters named as defendants in a putative securities class action filed on December 17, 2021 in the U.S. District Court for the Northern District of California relating to Robinhood Markets, Inc.'s (Robinhood) approximately \$2.2 billion July 2021 initial public offering. In addition to the underwriters, the defendants include Robinhood and certain of its officers and directors. GS&Co. underwrote 18,039,706 shares of common stock representing an aggregate offering price of approximately \$686 million. On February 10, 2023, the court granted the defendants' motion to dismiss the complaint with leave to amend, and on March 13, 2023, the plaintiffs filed a second amended complaint. On January 24, 2024, the court granted the defendants' motion to dismiss the second amended complaint without leave to amend. On February 21, 2024, the plaintiffs appealed to the U.S. Court of Appeals for the Ninth Circuit.

**ON24, Inc.** GS&Co. is among the underwriters named as defendants in a putative securities class action filed on November 3, 2021 in the U.S. District Court for the Northern District of California relating to ON24, Inc.'s (ON24) approximately \$492 million February 2021 initial public offering of common stock. In addition to the underwriters, the defendants include ON24 and certain of its officers and directors, including a director who was a Managing Director of GS&Co. at the time of the initial public offering. GS&Co. underwrote 3,616,785 shares of common stock representing an aggregate offering price of approximately \$181 million. On March 18, 2022, the plaintiffs filed a consolidated complaint, and on July 7, 2023, the court granted the defendants' motion to dismiss the consolidated complaint with leave to amend. On September 1, 2023, the plaintiffs filed an amended consolidated complaint, and on March 5, 2024, the court granted the defendants' motion to dismiss the amended consolidated complaint with prejudice. On April 4, 2024, the plaintiffs appealed to the U.S. Court of Appeals for the Ninth Circuit.

**Oscar Health, Inc.** GS&Co. is among the underwriters named as defendants in a putative securities class action filed on May 12, 2022 in the U.S. District Court for the Southern District of New York relating to Oscar Health, Inc.'s (Oscar Health) approximately \$1.4 billion March 2021 initial public offering. In addition to the underwriters, the defendants include Oscar Health and certain of its officers and directors. GS&Co. underwrote 12,760,633 shares of common stock representing an aggregate offering price of approximately \$498 million. On December 5, 2022, the plaintiffs filed an amended complaint. On April 4, 2023, the defendants moved to dismiss the amended complaint.

Oak Street Health, Inc. GS&Co. is among the underwriters named as defendants in an amended complaint for a putative securities class action filed on May 25, 2022 in the U.S. District Court for the Northern District of Illinois relating to Oak Street Health, Inc.'s (Oak Street) \$377 million August 2020 initial public offering, \$298 million December 2020 secondary equity offering, \$691 million February 2021 secondary equity offering and \$747 million May 2021 secondary equity offering. In addition to the underwriters, the defendants include Oak Street, certain of its officers and directors and certain of its shareholders. GS&Co. underwrote 4,157,103 shares of common stock in the August 2020 initial public offering representing an aggregate offering price of approximately \$87 million, 1,503,944 shares of common stock in the December 2020 secondary equity offering representing an aggregate offering price of approximately \$69 million, 3,083,098 shares of common stock in the February 2021 secondary equity offering representing an aggregate offering price of approximately \$173 million and 3,013,065 shares of common stock in the May 2021 secondary equity offering representing an aggregate offering price of approximately \$187 million. On February 10, 2023, the court granted in part and denied in part the defendants' motion to dismiss, dismissing the claim alleging a violation of Section 12(a)(2) of the Securities Act and, with respect to the May 2021 secondary equity offering only, the claim alleging a violation of Section 11 of the Securities Act, but declining to dismiss the remaining claims. On December 15, 2023, the plaintiffs moved for class certification. On September 19, 2024, the court preliminarily approved a settlement, which will not require a contribution from GS&Co.

**Bright Health Group, Inc.** GS&Co. is among the underwriters named as defendants in an amended complaint for a putative securities class action filed on June 24, 2022 in the U.S. District Court for the Eastern District of New York relating to Bright Health Group, Inc.'s (Bright Health) approximately \$924 million June 2021 initial public offering of common stock. In addition to the underwriters, the defendants include Bright Health and certain of its officers and directors. GS&Co. underwrote 11,297,000 shares of common stock representing an aggregate offering price of approximately \$203 million. On September 30, 2024, the court granted the defendants' motion to dismiss the amended complaint.

MINISO Group Holding Limited. GS Asia is among the underwriters named as defendants in a putative securities class action filed on August 17, 2022 in the U.S. District Court for the Central District of California and transferred to the U.S. District Court for the Southern District of New York on November 18, 2022 relating to MINISO Group Holding Limited's (MINISO) approximately \$656 million October 2020 initial public offering of ADS. In addition to the underwriters, the defendants include MINISO and certain of its officers and directors. GS Asia underwrote 16,408,093 ADS representing an aggregate offering price of approximately \$328 million. On April 24, 2023, the plaintiffs filed a second amended complaint, and on February 23, 2024, the court granted the defendants' motion to dismiss the second amended complaint with leave to amend.

**Coupang, Inc.** GS&Co. is among the underwriters named as defendants in a putative securities class action filed on August 26, 2022 in the U.S. District Court for the Southern District of New York relating to Coupang, Inc.'s (Coupang) approximately \$4.6 billion March 2021 initial public offering of common stock. In addition to the underwriters, the defendants include Coupang and certain of its officers and directors. GS&Co. underwrote 42,900,000 shares of common stock representing an aggregate offering price of approximately \$1.5 billion. On May 24, 2023, the plaintiffs filed an amended complaint, and on July 28, 2023, the defendants moved to dismiss the amended complaint.

Yatsen Holding Limited. GS Asia is among the underwriters named as defendants in a putative securities class action filed on September 23, 2022 in the U.S. District Court for the Southern District of New York relating to Yatsen Holding Limited's (Yatsen) approximately \$617 million November 2020 initial public offering of ADS. In addition to the underwriters, the defendants include Yatsen and certain of its officers and directors. GS Asia underwrote 22,912,500 ADS representing an aggregate offering price of approximately \$241 million. On October 4, 2023, the plaintiffs filed an amended complaint, and on July 22, 2024, the court granted the defendants' motion to dismiss the amended complaint.

Rent the Runway, Inc. GS&Co. is among the underwriters named as defendants in a putative securities class action filed on November 14, 2022 in the U.S. District Court for the Eastern District of New York relating to Rent the Runway, Inc.'s (Rent the Runway) \$357 million October 2021 initial public offering of common stock. In addition to the underwriters, the defendants include Rent the Runway and certain of its officers and directors. GS&Co. underwrote 5,254,304 shares of common stock representing an aggregate offering price of approximately \$110 million. On September 5, 2023, the plaintiffs filed an amended complaint, and on September 25, 2024, the court granted in part and denied in part the defendants' motion to dismiss the amended complaint.

Opendoor Technologies Inc. GS&Co. is among the underwriters named as defendants in a putative securities class action filed on November 22, 2022 in the U.S. District Court for the District of Arizona relating to, among other Opendoor Technologies Inc.'s (Opendoor) approximately \$886 million February 2021 public offering of common stock. In addition to the underwriters, the defendants include Opendoor and certain of its officers and directors. GS&Co. underwrote 10,173,401 shares of common stock representing an aggregate offering price approximately \$275 million. On April 17, 2023, the plaintiffs filed a consolidated amended complaint, and on February 28, 2024, the court granted the defendants' motion to dismiss the consolidated amended complaint with leave to amend. On May 14, 2024, the court granted the plaintiffs' motion for reconsideration and vacated the dismissal of certain of the plaintiffs' claims, and on September 9, 2024, the court denied the defendants' motion for certification of an interlocutory appeal as to the plaintiffs' surviving claims.

**FIGS, Inc.** GS&Co. is among the underwriters named as defendants in a putative securities class action filed on December 8, 2022 in the U.S. District Court for the Central District of California relating to FIGS, Inc.'s (FIGS) approximately \$668 million May 2021 initial public offering and approximately \$413 million September 2021 secondary equity offering. In addition to the underwriters, the defendants include FIGS, certain of its officers and directors and certain of its shareholders. GS&Co. underwrote 9,545,073 shares of common stock in the May 2021 initial public offering representing an aggregate offering price of approximately \$210 million and 3,179,047 shares of common stock in the September 2021 secondary equity offering representing an aggregate offering price of approximately \$128 million. On April 10, 2023, the plaintiffs filed a consolidated complaint, and on January 17, 2024, the court granted the defendants' motions to dismiss the consolidated complaint with leave to amend. On March 19, 2024, the plaintiffs filed a first amended complaint. On May 3, 2024, the defendants moved to dismiss the first amended complaint.

Silvergate Capital Corporation. GS&Co. is among the underwriters and sales agents named as defendants in a putative securities class action filed on January 19, 2023 in the U.S. District Court for the Southern District of California, as amended on May 11, 2023, relating to Silvergate Capital Corporation's (Silvergate) approximately \$288 million January 2021 public offering of common stock, approximately \$300 million "at-the-market" offering of common stock conducted from March through May 2021, approximately \$200 million July 2021 public offering of depositary shares representing interests in preferred stock, and approximately \$552 million December 2021 public offering of common stock. In addition to the underwriters and sales agents, the defendants include Silvergate and certain of its officers and directors. GS&Co. underwrote 1,711,313 shares of common stock in the January 2021 public offering of common stock representing an aggregate offering price of approximately \$108 million, acted as a sales agent with respect to up to a \$300 million aggregate offering price of shares of common stock in the March through May 2021 "atthe-market" offering, underwrote 1,600,000 depositary shares in the July 2021 public offering representing an aggregate offering price of approximately \$40 million, and underwrote 1,375,397 shares of common stock in the December 2021 public offering of common stock representing an aggregate offering price of approximately \$199 million. On July 10, 2023, the defendants moved to dismiss the consolidated amended complaint. On September 17, 2024, Silvergate and two affiliates filed Chapter 11 bankruptcy petitions in the U.S. Bankruptcy Court for the District of Delaware.

**Centessa Pharmaceuticals plc.** GS&Co. is among the underwriters named as defendants in an amended complaint for a putative securities class action filed on February 10, 2023 in the U.S. District Court for the Southern District of New York relating to Centessa Pharmaceuticals plc's (Centessa) approximately \$380 million May 2021 initial public offering of ADS. In addition to the underwriters, the defendants include Centessa and certain of its officers and directors. GS&Co. underwrote 6,072,000 ADS representing an aggregate offering price of approximately \$121 million. On August 26, 2024, the court granted the defendants' motion to dismiss the amended complaint with prejudice.

**iQIYI, Inc.** GS Asia is among the underwriters named as defendants in a putative securities class action filed on June 1, 2021 in the U.S. District Court for the Eastern District of New York relating to iQIYI's approximately \$2.4 billion March 2018 initial public offering of ADS. In addition to the underwriters, the defendants include iQIYI, certain of its officers and directors and its controlling shareholder. GS Asia underwrote 69,751,212 ADS representing an aggregate offering price of approximately \$1.3 billion. On March 11, 2024, the plaintiffs filed a second amended complaint, and on September 30, 2024, the court granted the defendants' motion to dismiss this action without leave to amend.

F45 Training Holdings Inc. GS&Co. is among the underwriters named as defendants in an amended complaint for a putative securities class action filed on May 19, 2023 in the U.S. District Court for the Western District of Texas relating to F45 Training Holdings Inc.'s (F45) approximately \$350 million July 2021 initial public offering of common stock. In addition to the underwriters, the defendants include F45, certain of its officers and directors and certain of its shareholders. GS&Co. acted as a qualified independent underwriter for the offering and underwrote 8,303,744 shares of common stock representing an aggregate offering price of approximately \$133 million. On August 7, 2023, the defendants filed a motion to dismiss the amended complaint. On January 25, 2024, the plaintiffs filed a second amended complaint, and on March 11, 2024, the defendants moved to dismiss the second amended complaint.

**Olaplex Holdings, Inc.** GS&Co. is among the underwriters named as defendants in a putative securities class action filed on April 28, 2023 in the U.S. District Court for the Central District of California relating to Olaplex Holdings, Inc.'s (Olaplex) approximately \$1.8 billion September 2021 initial public offering of common stock. In addition to the underwriters, the defendants include Olaplex, certain of its officers and directors and selling shareholders. GS&Co. underwrote 19,419,420 shares of common stock representing an aggregate offering price of approximately \$408 million. On June 22, 2023, the plaintiffs filed a revised consolidated complaint. On July 19, 2023, the defendants moved to dismiss the revised consolidated complaint. On August 23, 2024, the court stayed the proceedings pending the resolution of a case involving a relevant question of law before the United States Supreme Court.

**agilon health, inc.** GS&Co. is among the underwriters named as defendants in putative securities class actions filed beginning on March 19, 2024 and consolidated in the U.S. District Court for the Western District of Texas, relating to agilon health, inc.'s (agilon) approximately \$1.2 billion April 2021 initial public offering, approximately \$587 million September 2021 secondary equity offering and approximately \$1.8 billion May 2023 secondary equity offering. In addition to the underwriters, the defendants include agilon, certain of its officers and directors and certain of its shareholders. GS&Co. underwrote 10,631,949 shares of common stock in the April 2021 initial public offering representing an aggregate offering price of approximately \$245 million, 3,759,588 shares of common stock in the September 2021 secondary equity offering representing an aggregate offering price of approximately \$113 million and 26,879,772 shares of common stock in the May 2023 secondary equity offering, of which 2,731,638 shares were purchased by agilon, representing an aggregate offering price of approximately \$519 million sold to third parties. On September 6, 2024, the plaintiffs filed a consolidated complaint.

#### **Investment Management Services**

Group Inc. and certain of its affiliates are parties to various civil litigation and arbitration proceedings and other disputes with clients relating to losses allegedly sustained as a result of the firm's investment management services. These claims generally seek, among other things, restitution or other compensatory damages and, in some cases, punitive damages.

### **Securities Lending Antitrust Litigation**

Group Inc. and GS&Co. were among the defendants named in a putative antitrust class action and three individual actions relating to securities lending practices filed in the U.S. District Court for the Southern District of New York beginning in August 2017. The complaints generally assert claims under federal and state antitrust law and state common law in connection with an alleged conspiracy among the defendants to preclude the development of electronic platforms for securities lending transactions. The individual complaints also assert claims for tortious interference with business relations and under state trade practices law and, in the second and third individual actions, unjust enrichment under state common law. The complaints seek declaratory and injunctive relief, as well as unspecified amounts of compensatory, treble, punitive and other damages. Group Inc. was voluntarily dismissed from the putative class action on January 26, 2018. Defendants' motion to dismiss the class action complaint was denied on September 27, 2018. Defendants' motion to dismiss the first individual action was granted on August 7, 2019. On September 30, 2021, the defendants' motion to dismiss the second and third individual actions, which were consolidated in June 2019, was granted, and on March 24, 2023, the U.S. Court of Appeals for the Second Circuit affirmed the dismissal. On June 30, 2022, the Magistrate Judge recommended that the plaintiffs' motion for class certification in the putative class action be granted in part and denied in part. On August 15, 2022, the plaintiffs and defendants filed objections to the Magistrate Judge's report and recommendation with the district court. On September 11, 2024, the court approved a final settlement among the plaintiffs and certain defendants, including the firm, to resolve this action. The firm has paid the full amount of its contribution to the settlement.

#### **Variable Rate Demand Obligations Antitrust Litigation**

Group Inc. and GS&Co. were among the defendants named in a putative class action relating to variable rate demand obligations (VRDOs), filed beginning in February 2019 under separate complaints and consolidated in the U.S. District Court for the Southern District of New York. The consolidated amended complaint, filed on May 31, 2019, generally asserts claims under federal antitrust law and state common law in connection with an alleged conspiracy among the defendants to manipulate the market for VRDOs. The complaint seeks declaratory and injunctive relief, as well as unspecified amounts of compensatory, treble and other damages. Group Inc. was voluntarily dismissed from the putative class action on June 3, 2019. On November 2, 2020, the court granted in part and denied in part the defendants' motion to dismiss, dismissing the state common law claims against GS&Co., but denying dismissal of the federal antitrust law claims.

GS&Co. is also among the defendants named in a related putative class action filed on June 2, 2021 in the U.S. District Court for the Southern District of New York. The complaint alleges the same conspiracy in the market for VRDOs as that alleged in the consolidated amended complaint filed on May 31, 2019, and asserts federal antitrust law, state law and state common law claims against the defendants. The complaint seeks declaratory and injunctive relief, as well as unspecified amounts of compensatory, treble and other damages. On August 6, 2021, plaintiffs in the May 31, 2019 action filed an amended complaint consolidating the June 2, 2021 action with the May 31, 2019 action. On September 14, 2021, defendants filed a joint partial motion to dismiss the August 6, 2021 amended consolidated complaint. On June 28, 2022, the court granted in part and denied in part the defendants' motion to dismiss, dismissing the state breach of fiduciary duty claim against GS&Co., but declining to dismiss any portion of the federal antitrust law claims. On September 21, 2023, the court granted the plaintiffs' motion for class certification. On February 5, 2024, the U.S. Court of Appeals for the Second Circuit granted the defendants' petition seeking interlocutory review of the district court's grant of class certification. On February 15, 2024, the district court granted the defendants' request to stay the proceedings pending their appeal of the district court's grant of class certification.

#### **Interest Rate Swap Antitrust Litigation**

Group Inc., GS&Co., GSI, GS Bank USA and Goldman Sachs Financial Markets, L.P. are among the defendants named in a putative antitrust class action relating to the trading of interest rate swaps, filed in November 2015 and consolidated in the U.S. District Court for the Southern District of New York. The same Goldman Sachs entities are also among the defendants named in two antitrust actions relating to the trading of interest rate swaps, commenced in April 2016 and June 2018, respectively, in the U.S. District Court for the Southern District of New York by three operators of swap execution facilities and certain of their affiliates. These actions have been consolidated for pretrial proceedings. The complaints generally assert claims under federal antitrust law and state common law in connection with an alleged conspiracy among the defendants to preclude exchange trading of interest rate swaps. The complaints in the individual actions also assert claims under state antitrust law. The complaints seek declaratory and injunctive relief, as well as treble damages in an unspecified amount. Defendants moved to dismiss the class and the first individual action and the district court dismissed the state common law claims asserted by the plaintiffs in the first individual action and otherwise limited the state common law claim in the putative class action and the antitrust claims in both actions to the period from 2013 to 2016. On November 20, 2018, the court granted in part and denied in part the defendants' motion to dismiss the second individual action, dismissing the state common law claims for unjust enrichment and tortious interference, but denying dismissal of the federal and state antitrust claims. On March 13, 2019, the court denied the plaintiffs' motion in the putative class action to amend their complaint to add allegations related to conduct from 2008 to 2012, but granted the motion to add limited allegations from 2013 to 2016, which the plaintiffs added in a fourth consolidated amended complaint filed on March 22, 2019. On December 15, 2023, the court denied the plaintiffs' motion for class certification, and on December 28, 2023, the plaintiffs filed a petition with the U.S. Court of Appeals for the Second Circuit seeking interlocutory review of the district court's denial of class certification. On July 11, 2024, the court preliminarily approved a settlement among the plaintiffs and certain defendants, including the firm, to resolve the class action. The firm has paid the full amount of its proposed contribution to the settlement into an escrow account. The individual actions remain pending.

#### **Commodities-Related Litigation**

GSI is among the defendants named in putative class actions relating to trading in platinum and palladium, filed beginning on November 25, 2014 and most recently amended on May 15, 2017, in the U.S. District Court for the Southern District of New York. The amended complaint generally alleges that the defendants violated federal antitrust laws and the Commodity Exchange Act in connection with an alleged conspiracy to manipulate a benchmark for physical platinum and palladium prices and seek declaratory and injunctive relief, as well as treble damages in an unspecified amount. On March 29, 2020, the court granted the defendants' motions to dismiss and for reconsideration, resulting in the dismissal of all claims, and on February 27, 2023, the U.S. Court of Appeals for the Second Circuit reversed the district court's dismissal of certain plaintiffs' antitrust claims and vacated the district court's dismissal of the plaintiffs' Commodity Exchange Act claim. On April 12, 2023, the defendants' petition for rehearing or rehearing en banc with the U.S. Court of Appeals for the Second Circuit was denied. On July 21, 2023, the defendants filed a motion for judgment on the pleadings. On August 24, 2024, the court preliminarily approved a settlement among the plaintiffs and all defendants to resolve this action. The firm has paid the full amount of its proposed contribution to the settlement into an escrow account.

#### **Corporate Bonds Antitrust Litigation**

Group Inc. and GS&Co. are among the dealers named as defendants in a putative class action relating to the secondary market for odd-lot corporate bonds, filed on April 21, 2020 in the U.S. District Court for the Southern District of New York. The amended consolidated complaint, filed on October 29, 2020, asserts claims under federal antitrust law in connection with alleged anti-competitive conduct by the defendants in the secondary market for odd-lots of corporate bonds, and seeks declaratory and injunctive relief, as well as unspecified monetary damages, including treble and punitive damages and restitution. On October 25, 2021, the court granted defendants' motion to dismiss with prejudice. On November 10, 2022, the district court denied the plaintiffs' motion for an indicative ruling that the judgment should be vacated because the wife of the district judge owned stock in one of the defendants and the district judge did not recuse himself. On July 2, 2024, the U.S. Court of Appeals for the Second Circuit vacated the district court's dismissal and remanded the case for further proceedings. On September 3, 2024, the plaintiffs filed a second amended complaint, and on October 18, 2024, the defendants moved to dismiss the second amended complaint.

### **Credit Default Swap Antitrust Litigation**

Group Inc., GS&Co. and GSI were among the defendants named in a putative antitrust class action relating to the settlement of credit default swaps, filed on June 30, 2021 in the U.S. District Court for the District of New Mexico. The complaint generally asserts claims under federal antitrust law and the Commodity Exchange Act in connection with an alleged conspiracy among the defendants to manipulate the benchmark price used to value credit default swaps for settlement. The complaint also asserts a claim for unjust enrichment under state common law. The complaint seeks declaratory and injunctive relief, as well as unspecified amounts of treble and other damages. On November 15, 2021, the defendants filed a motion to dismiss the complaint. On February 4, 2022, the plaintiffs filed an amended complaint and voluntarily dismissed Group Inc. from the action. On June 5, 2023, the court dismissed the claims against certain foreign defendants for lack of personal jurisdiction but denied the defendants' motion to dismiss with respect to GS&Co., GSI and the remaining defendants. On January 24, 2024, the court granted the defendants' motion to stay the proceedings pending the resolution of the motion filed by the defendants on November 3, 2023 in the U.S. District Court for the Southern District of New York to enforce a 2015 settlement and release among the parties. On January 26, 2024, the U.S. District Court for the Southern District of New York granted the defendants' motion to enforce the settlement and release and enjoined the plaintiffs from pursuing any claims against the defendants in the New Mexico action for any alleged violation of law based on conduct before June 30, 2014, and on February 23, 2024, the plaintiffs appealed to the U.S. Court of Appeals for the Second Circuit.

#### **Consumer Investigation and Review**

The firm has been cooperating with the CFPB and other governmental bodies relating to investigations and/or inquiries concerning GS Bank USA's credit card account management practices and is providing information regarding the application of refunds, crediting of billing nonconforming payments, error resolution, advertisements, reporting to credit bureaus, and any other consumer-related information requested by them, and GS Bank USA has entered into a consent order, without admitting or denying the findings, to resolve the CFPB's investigation. The consent order requires a \$45 million penalty, approximately \$20 million in restitution (to be offset by restitution GS Bank USA has already provided to consumers), and certain non-monetary remedial measures. The firm has reserved the full amount of the settlement.

### Regulatory Investigations and Reviews and Related Litigation

Group Inc. and certain of its affiliates are subject to a number of other investigations and reviews by, and in some cases have received subpoenas and requests for documents and information from, various governmental and regulatory bodies and self-regulatory organizations and litigation and shareholder requests relating to various matters relating to the firm's businesses and operations, including:

- The securities offering process and underwriting practices;
- The firm's investment management and financial advisory services;
- Conflicts of interest;
- Research practices, including research independence and interactions between research analysts and other firm personnel, including investment banking personnel, as well as third parties;
- Transactions involving government-related financings and other matters, municipal securities, including wall-cross procedures and conflict of interest disclosure with respect to state and municipal clients, the trading and structuring of municipal derivative instruments in connection with municipal offerings, political contribution rules, municipal advisory services and the possible impact of credit default swap transactions on municipal issuers;
- Consumer lending, as well as residential mortgage lending, servicing and securitization, and compliance with related consumer laws;

- The offering, auction, sales, trading and clearance of and government securities, commodities and other financial products and related sales and other communications and activities, as well as the firm's supervision and controls relating to such activities, including compliance with applicable short sale rules, algorithmic, high-frequency and quantitative trading, the firm's U.S. alternative trading system (dark pool), futures trading, options trading, when-issued trading, transaction and regulatory reporting, technology systems and controls, communications recordkeeping and recording, securities lending practices, prime brokerage activities, trading and clearance of credit derivative instruments and interest rate swaps, commodities activities and metals storage, private placement practices, allocations of and trading in securities, and trading activities and communications in connection with the establishment of benchmark rates, such as currency rates;
- Compliance with the FCPA;
- The firm's hiring and compensation practices;
- The firm's system of risk management and controls; and
- Insider trading, the potential misuse and dissemination of material nonpublic information regarding corporate and governmental developments and the effectiveness of the firm's insider trading controls and information barriers.

The firm is cooperating with all such governmental and regulatory investigations and reviews.

# Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of The Goldman Sachs Group, Inc.

### Results of Review of Interim Financial Statements

We have reviewed the accompanying consolidated balance sheet of The Goldman Sachs Group, Inc. and its subsidiaries (the Company) as of September 30, 2024, the related consolidated statements of earnings, comprehensive income and changes in shareholders' equity for the three and nine month periods ended September 30, 2024 and 2023, and the consolidated statements of cash flows for the nine month periods ended September 30, 2024 and 2023, including the related notes (collectively referred to as the "interim financial statements"). Based on our reviews, we are not aware of any material modifications that should be made to the accompanying interim financial statements for them to be in conformity with accounting principles generally accepted in the United States of America.

We have previously audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheet of the Company as of December 31, 2023, and the related consolidated statements of earnings, comprehensive income, changes in shareholders' equity and cash flows for the year then ended (not presented herein), and in our report dated February 22, 2024, we expressed an unqualified opinion on those consolidated financial statements. In our opinion, the information set forth in the accompanying consolidated balance sheet as of December 31, 2023, is fairly stated, in all material respects, in relation to the consolidated balance sheet from which it has been derived.

#### Basis for Review Results

These interim financial statements are the responsibility of the Company's management. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB. We conducted our review in accordance with the standards of the PCAOB. A review of interim financial information consists principally of applying analytical procedures and making inquiries of persons responsible for financial and accounting matters. It is substantially less in scope than an audit conducted in accordance with the standards of the PCAOB, the objective of which is the expression of an opinion regarding the financial statements taken as a whole. Accordingly, we do not express such an opinion.

/s/ PricewaterhouseCoopers LLP

New York, New York November 1, 2024

### **Statistical Disclosures**

### Distribution of Assets, Liabilities and Shareholders' **Equity**

The tables below present information about average balances, interest and average interest rates.

Final Properties         Nine Pro		Average Balance for the					
Sin millionis         2024         2023         2024         2023           Assets           U.S.         \$ 106,919         \$ 140,127         \$ 113,867         \$ 127,841           Non-U.S.         92,195         130,387         106,516         127,841           Deposits with banks         199,114         220,137         206,009           U.S.         241,309         210,743         248,150         206,009           Non-U.S.         144,107         155,246         142,367         161,926           Collateralized agreements         385,497         365,989         390,517         388,016           U.S.         300,110         209,673         279,894         196,817           Non-U.S.         151,922         367,264         471,213         336,994           U.S.         155,993         126,566         471,213         336,994           U.S.         156,993         154,943         144,583         120,499           Non-U.S.         169,233         154,948         145,583         120,499           Non-U.S.         169,233         154,949         144,583         174,627           U.S.         30,366         188,061         142,247         16,526		Three I		Nine N			
Assets         Jus.         \$ 106,919         \$ 140,127         \$ 133,857         127,841           Deposits with banks         199,114         270,514         220,373         266,308           U.S.         241,390         210,743         248,150         266,008           U.S.         241,390         210,743         248,150         266,008           Collateralized agreements         385,497         365,993         390,517         368,016           U.S.         300,110         209,673         279,894         196,817           Non-U.S.         211,812         147,591         191,319         140,177           Trading assets         515,993         126,566         144,583         120,499           Non-U.S.         14,831         15,049         144,438         125,649           U.S.         169,233         164,548         165,842         155,035           U.S.         169,233         154,548         165,842         154,604           Non-U.S.         16,42         187,777         16,253         135,637           U.S.         77,846         85,603         80,956         88,061           Non-U.S.         77,846         85,033         80,956         88,021							
US.         10.0         10.0         10.0         10.0         10.0         10.0         12.7         8.4         10.0         12.7         8.4         10.0         12.7         8.4         10.0         12.7         8.4         12.7         8.4         12.0         2.0         9.0         10.0         10.0         12.0         22.0         23.0         20.0 </th <th></th> <th>2024</th> <th>2023</th> <th>2024</th> <th>2023</th>		2024	2023	2024	2023		
Non-U.S.         92,195         130,387         106,516         127,841           Deposits with banks         199,114         270,514         220,373         266,308           U.S.         241,309         210,743         248,150         206,038           U.S.         144,107         155,246         142,367         161,926           Collateralized agreements         385,497         365,989         390,517         388,016           U.S.         301,10         209,673         279,984         196,817           Non-U.S.         151,922         357,264         471,213         330,994           U.S.         155,993         126,566         144,583         120,499           Non-U.S.         169,233         156,566         144,583         120,499           Non-U.S.         169,233         154,548         165,842         154,604           Non-U.S.         169,233         154,548         165,842         154,604           Non-U.S.         77,846         85,503         80,556         38,061           Non-U.S.         77,846         85,503         80,556         182,091           Other interest-earning assets         1,558,216         1,557,216         138,282         1,532,20							
Deposits with banks         199,114         270,514         220,373         268,080           U.S.         241,330         210,743         248,150         206,090           Non-U.S.         144,107         155,246         142,367         161,926           Collateralized agreements         385,497         365,989         390,517         368,016           U.S.         300,110         209,673         279,894         196,817           Non-U.S.         211,812         147,591         191,319         140,177           U.S.         155,993         126,566         144,583         120,499           Non-U.S.         14,831         15,049         144,432         15,1368           U.S.         169,233         154,948         165,842         154,604           Non-U.S.         16,422         18,777         16,253         19,663           U.S.         16,422         18,777         16,253         19,663           U.S.         77,346         85,503         88,061         174,257           U.S.         77,346         85,503         58,972         56,507           Other interest-earning asset         1,582,16         1449,233         1562,141         142,579 <tr< th=""><th></th><th></th><th></th><th>-</th><th></th></tr<>				-			
U.S.         241,390         210,743         248,150         200,090           Non-U.S.         144,107         155,246         142,367         161,926           Collateralized agreements         385,497         365,989         390,517         368,016           U.S.         300,110         209,673         2279,894         196,817           Non-U.S.         211,812         147,591         191,319         140,177           Trading assets         511,922         357,264         471,213         330,994           Non-U.S.         14,831         15,049         14,432         15,138           Investments         170,824         141,615         159,015         135,637           U.S.         16,442         18,777         16,253         174,667           U.S.         77,846         85,507         16,253         174,667           U.S.         77,846         85,507         80,567         174,267           U.S.         77,846         85,507         80,521         1,425,790           U.S.         77,846         85,003         1,562,141         1,425,790           U.S.         5,323         1,582,141         1,425,790           Cash and due from banks							
Non-U.S.         144,107         155,246         142,367         308,016           Collateralized agreements         385,497         365,989         390,517         386,016           U.S.         300,10         209,673         279,894         198,817           Non-U.S.         211,812         147,591         191,319         140,177           Trading assets         511,922         357,264         471,213         330,994           U.S.         14,831         15,066         144,583         120,499           Non-U.S.         16,923         164,948         165,842         155,633           U.S.         16,923         154,948         165,842         154,604           Non-U.S.         16,923         154,948         165,842         154,604           Non-U.S.         77,846         85,503         80,055         39,065         88,061           U.S.         77,846         85,503         80,055         38,075         144,563         144,563           U.S.         77,846         145,524         144,503         156,214         144,563           U.S.         30,601         1,582,21         1,449,233         1562,141         142,5790           U.S.         30,							
Collateralized agreements         385,497         365,989         390,517         368,016           U.S.         300,110         209,673         279,894         196,817           Non-U.S.         211,812         147,591         191,319         140,177           Trading assets         511,922         357,264         471,213         336,994           U.S.         155,993         126,666         144,583         120,499           Non-U.S.         169,233         154,948         165,842         155,604           Non-U.S.         16,422         18,777         16,253         19,663           Los.         16,422         18,777         16,253         19,663           Los.         77,846         85,503         80,056         88,061           Non-U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         5,822         5,507           Other interest-earning assets         5,508         5,523         6,330           Other non-interest-earning assets         97,651         102,421         100,487         110,522           Assets         \$334,829         \$30,7812         \$32,098         \$30,490							
U.S.         300,110         209,673         279,894         196,817           Non-U.S.         211,812         147,591         191,319         140,177           Trading assets         1155,993         126,666         144,583         120,499           Non-U.S.         14,831         15,049         14,432         15,138           Investments         170,824         141,615         159,015         135,637           U.S.         16,442         18,777         16,253         19,663           Non-U.S.         16,442         18,777         16,253         19,663           Los.         77,846         85,503         80,565         88,601           Non-U.S.         77,846         85,503         80,565         88,601           Non-U.S.         75,338         54,623         58,872         65,607           Other interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         97,651         102,421         100,487         110,822           Assets         133,4828         9,78,61         102,421         100,487         110,822           Assets         133,4828         8,594         9,7259 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>							
Non-U.S.         211,812         147,591         191,319         140,177           Trading assets         511,922         357,264         471,213         336,994           U.S.         14,831         115,049         144,382         151,318           Investments         170,824         141,615         159,015         135,637           U.S.         166,422         187,777         182,095         174,267           U.S.         77,846         85,503         80,056         80,061           Non-U.S.         77,846         85,503         80,056         80,061           Non-U.S.         77,846         85,503         80,056         80,061           Non-U.S.         77,846         85,503         80,056         80,061           Interest-earning assets         1,588,216         1,442,233         158,214         144,525           Interest-earning assets         1,588,216         1,442,233         1,582,141         1,142,579           Q.S.         8,348,29         8,757         8,522,14         1,042,579           Assets         9,7651         1,042,41         100,487         110,422           Assets         8,348,29         8,70,25         8,342         8,342 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>							
Trading assets         511,922         357,264         471,213         336,994           U.S.         155,993         126,566         144,583         120,499           Non-U.S.         148,31         150,099         144,322         151,308           Investments         170,824         141,615         159,015         135,637           U.S.         16,422         18,777         16,253         19,663           Loans         185,675         17,725         182,095         174,267           U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         135,184         140,126         138,928         144,568           Interest-earning assets         5,508         5,508         5,823         6,330           Other non-interest-earning assets         79,651         102,421         100,487         110,227           Assets         \$1,691,375         \$1557,120         \$10,684,51         \$10,422,94           U.S.         \$344,829         \$307,812         \$332,098         \$30,490           Non-U.S.         \$34,931         303,716         \$23,525			•				
U.S.         155,993         126,666         144,883         120,499           Non-U.S.         14,881         15,049         14,482         15,3637           U.S.         169,233         154,948         185,687         159,015         135,637           U.S.         16,422         118,777         16,253         19,663           Loans         185,675         173,725         182,095         174,267           U.S.         77,846         85,503         80,056         88,061           Non-U.S.         75,338         54,623         58,872         65,507           Other interest-earning assets         135,184         140,126         138,928         144,568           Interest-earning assets         5,508         5,503         5,822         6,507           Other interest-earning assets         15,88,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         5,508         5,508         5,823         6,330           Other interest-earning assets         15,891,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         5,508         5,508         5,503         5,503         5,503         5,503         5,224							
Non-U.S.         14,831         15,049         14,321         15,031         135,637           U.S.         169,232         154,498         165,842         154,604           Non-U.S.         16,422         18,777         16,253         174,267           U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         5,508         5,508         5,823         6,330           Other non-interest-earning assets         1,691,375         1,562,141         1,425,790           Assets         3,348,29         3,557,162         1,562,41         1,425,790           Assets         3,348,29         3,508,29         7,694,20           Libilities         3,348,29         3,078,12         3,320,89         3,949,20           Non-U.S.         431,991         393,716         429,325         7,666           Libilities         431,991         393,716         429,325<							
Investments         170,824         141,615         159,015         135,637           U.S.         169,233         154,948         165,842         164,604           Non-U.S.         185,675         173,725         182,095         174,267           U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         135,184         140,126         138,928         144,568           Interest-earning assets         5,508         5,508         5,823         6,330           Other non-interest-earning assets         5,508         5,508         5,823         6,330           Other non-interest-earning assets         166,1375         102,421         100,487         110,822           Assets         1,691,375         1,557,162         \$106,855         1,542,942           U.S.         \$34,842         \$307,812         \$32,098         \$304,903           Non-U.S.         \$34,842         \$30,812         \$32,098         \$304,903           Non-U.S.         \$34,933         \$30,931         \$42,935         \$34,669           Non-U.S.         \$32,934         \$66,256 <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>							
U.S.         169,233         154,948         165,842         154,604           Non-U.S.         16,442         18,777         16,253         19,663           Loans         185,675         173,725         182,095         174,267           U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         135,184         140,126         138,928         144,568           Interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         5,508         5,557,162         100,487         110,822           Assets         1,691,375         \$1,557,162         100,487         110,822           Assets         \$1,691,375         \$1,557,162         \$10,689,151         \$11,622,141         1,425,790           U.S.         \$334,829         \$7,575         \$6,233         0,30         0,30           U.S.         \$334,829         \$307,812         \$332,098         \$30,4903           Non-U.S.         \$31,931         393,716         \$429,357         736,611           U.S.         \$57,355         <							
Non-U.S.         16,462         18,775         16,253         174,267           Loans         185,675         173,725         182,095         174,267           U.S.         77,846         85,633         80,605         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         13,518         140,126         138,928         144,568           Interest-earning assets         1,588,216         1,500         5,503         5,633         1,632         1,632           Sah and due from banks         5,768         5,508         5,623         1,632         1,522,90           Assets         37,691         155,7,162         10,684         1,524,942           Lishilities         334,829         \$332,908         \$304,000           U.S.         \$341,991         393,716         \$32,938         \$304,000           Non-U.S.         \$31,992         39,756         \$34,609         \$34,609         \$34,609           U.S.         \$32,934         166,256         \$39,909         79,661         \$34,609         \$34,609         \$34,609         \$34,609         \$34,609         \$34,609         \$34,609         \$34,609         \$34,609							
Loans         185,675         173,725         182,095         174,267           U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         1,588,216         1,441,203         138,928         144,568           Interest-earning assets         1,588,216         1,580,33         1,562,141         1,425,790           Cash and due from banks other non-interest-earning assets         97,651         102,421         100,487         110,822           Assets         \$1,691,375         \$307,812         \$320,098         \$304,903           Non-U.S.         \$334,829         \$307,812         \$320,098         \$304,903           Non-U.S.         \$97,62         \$5,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,284         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57							
U.S.         77,846         85,503         80,056         88,061           Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         5,508         5,508         5,823         6,330           Other non-interest-earning assets         97,651         102,421         100,487         1,1542,942           Assets         91,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Liabilities         334,829         \$307,812         \$32,098         \$304,903           Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         333,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         53,583         50,0							
Non-U.S.         57,338         54,623         58,872         56,507           Other interest-earning assets         1,351,84         140,126         138,928         144,568           Interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks         5,508         5,508         5,823         6,330           Other non-interest-earning assets         10,2421         100,487         110,822           Assets         \$1,691,375         \$1,557,102         \$168,451         \$1,542,942           Lishilities         334,829         \$307,812         \$32,098         \$304,903           Non-U.S.         97,162         85,904         97,255         79,661           Interest-bearing deposits         431,991         393,716         429,357         79,661           U.S.         97,162         85,904         97,255         79,661           U.S.         107,253         106,256         198,090         148,679           On-U.S.         203,294         166,256         198,090         148,679           Ob. S.         57,335         68,727         75,255         63,401           Non-U.S.         39,83         77,769         79,633 <th></th> <th></th> <th></th> <th></th> <th></th>							
Other interest-earning assets         135,184         140,126         138,928         144,568           Interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks Other non-interest-earning assets         5,508         5,508         5,823         6,330           Assets         97,651         102,421         100,487         110,822           Assets         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Liabilities         \$334,829         \$307,812         \$332,098         \$304,903           Non-U.S.         97,162         85,904         97,255         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         336,933         25,944         361,40         26,483           Short-term borrowings <th></th> <th></th> <th>•</th> <th></th> <th></th>			•				
Interest-earning assets         1,588,216         1,449,233         1,562,141         1,425,790           Cash and due from banks Other non-interest-earning assets         5,508         5,508         5,823         6,330           Other non-interest-earning assets         97,651         102,421         100,487         110,822           Assets         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Liabilities         U.S.         \$334,829         \$307,812         \$332,098         \$304,903           Non-U.S.         97,162         85,904         97,259         79,601         110,2827         334,564         429,357         384,564           U.S.         203,294         166,256         198,090         148,679         148,67							
Cash and due from banks Other non-interest-earning assets         5,508 97,651         102,421         100,487         110,822           Assets         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Liabilities         \$334,829         \$307,812         \$332,098         \$304,903           Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,250           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,933         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429							
Other non-interest-earning assets         97,651         102,421         100,487         110,822           Assets         1,691,375         1,557,162         1,668,451         1,542,942           Liabilities         U.S.         334,829         307,812         332,098         304,903           Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         36,993         25,974         36,149         246,391           Non-U.S.         36,993         25,974         36,149         246,831           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429<							
Liabilities         \$334,829         \$307,812         \$332,098         \$304,903           Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532							
Liabilities         U.S.         \$ 334,829         \$ 307,812         \$ 332,098         \$ 304,903           Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         48,271         144,613         53,659							
U.S.         \$334,829         \$307,812         \$332,098         \$304,903           Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,933         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         379,355         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         38,289         93,142         245,532         245,156           U.S.         4148,771         144,973         144,863         152,537	Assets	\$1,031,373	\$1,557,102	\$1,000,451	\$1,042,342		
Non-U.S.         97,162         85,904         97,259         79,661           Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,935         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,153           Non-U.S.         38,280         93,142         89,139         95,673	Liabilities						
Interest-bearing deposits         431,991         393,716         429,357         384,564           U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         445,156           U.S.         148,772         144,973         144,863         152,537           Non-increst-bearing liabilities         1,465,175         1,348,518         1,445,020	U.S.	\$ 334,829	\$ 307,812	\$ 332,098	\$ 304,903		
U.S.         203,294         166,256         198,090         148,679           Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         445,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294 </th <th>Non-U.S.</th> <th>97,162</th> <th>85,904</th> <th>97,259</th> <th>79,661</th>	Non-U.S.	97,162	85,904	97,259	79,661		
Non-U.S.         107,253         102,897         113,216         93,525           Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         1,465,175         1,348,518         1,445,020         <	Interest-bearing deposits	431,991	393,716	429,357	384,564		
Collateralized financings         310,547         269,153         311,306         242,204           U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4	U.S.	203,294	166,256	198,090	148,679		
U.S.         57,335         58,727         57,255         63,401           Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing liabilities         1,514         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615	Non-U.S.	107,253	102,897	113,216	93,525		
Non-U.S.         82,983         77,769         79,633         74,885           Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         10,156         87,615         99,811         90,261           Liabilities         12,878         10,953 <th< th=""><th>Collateralized financings</th><th>310,547</th><th>269,153</th><th>311,306</th><th>242,204</th></th<>	Collateralized financings	310,547	269,153	311,306	242,204		
Trading liabilities         140,318         136,496         136,888         138,286           U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity         10,953 <t< th=""><th>U.S.</th><th>57,335</th><th>58,727</th><th>57,255</th><th>63,401</th></t<>	U.S.	57,335	58,727	57,255	63,401		
U.S.         53,583         50,022         51,795         46,391           Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345<	Non-U.S.	82,983	77,769	79,633	74,885		
Non-U.S.         36,993         25,974         36,140         26,483           Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900	Trading liabilities	140,318	136,496	136,888	138,286		
Short-term borrowings         90,576         75,996         87,935         72,874           U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity	U.S.	53,583	50,022	51,795	46,391		
U.S.         197,449         190,429         191,882         200,382           Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,263,05           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942 <td colspa<="" th=""><th></th><th>36,993</th><th>25,974</th><th>36,140</th><th>26,483</th></td>	<th></th> <th>36,993</th> <th>25,974</th> <th>36,140</th> <th>26,483</th>		36,993	25,974	36,140	26,483	
Non-U.S.         57,242         44,613         53,650         44,774           Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,263,05           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         116,637         116,637           Shareholders' equity         119,909         116,298         118,653         116,637           Shareholders' equity         119,909         116,298         116,637         116,637 <t< th=""><th></th><th>90,576</th><th>75,996</th><th>87,935</th><th>72,874</th></t<>		90,576	75,996	87,935	72,874		
Long-term borrowings         254,691         235,042         245,532         245,156           U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,263,05           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,567,162         \$1,668,451         \$1,542,942           Percentage attributable to non-tuses-tusing assets         33.79%         36.00%	U.S.	197,449	190,429	191,882	200,382		
U.S.         148,772         144,973         144,863         152,537           Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,263,05           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,903         116,298         116,637         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-tuses           Interest-earning assets         33.79%         36.00%         33.91%         36.56%							
Non-U.S.         88,280         93,142         89,139         95,673           Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,246,305           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         116,637         116,637           Liabilities and shareholders' equity         1,691,375         1,557,162         1,668,451         1,542,942           Percentage attributable to non-training assets         33.79%         36.00%         33.91%         36.56%							
Other interest-bearing liabilities         237,052         238,115         234,002         248,210           Interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-US. operations           Interest-earning assets         33.79%         36.00%         33.91%         36.56%							
Interest-bearing liabilities         1,465,175         1,348,518         1,445,020         1,331,294           Non-interest-bearing deposits         5,144         4,731         4,967         4,750           Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-US. operations           Interest-earning assets         33.79%         36.00%         33.91%         36.56%							
Non-interest-bearing deposits Other non-interest-bearing liabilities         5,144         4,731         4,967         4,750           Liabilities         101,156         87,615         99,811         90,261           Shareholders' equity         1,571,475         1,440,864         1,549,798         1,426,305           Preferred stock         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to number statistics         33.79%         36.00%         33.91%         36.56%							
Other non-interest-bearing liabilities         101,156         87,615         99,811         90,261           Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity           Preferred stock         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-transport to state to stat							
Liabilities         1,571,475         1,440,864         1,549,798         1,426,305           Shareholders' equity           Preferred stock         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-US. operations           Interest-earning assets         33.79%         36.00%         33.91%         36.56%							
Shareholders' equity           Preferred stock         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to norther streaming assets         33.79%         36.00%         33.91%         36.56%							
Preferred stock         12,878         10,953         12,183         10,803           Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to number statement assets         33.79%         36.00%         33.91%         36.56%		1,5/1,4/5	1,440,864	1,549,/98	1,426,305		
Common stock         107,022         105,345         106,470         105,834           Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to normalization in the rest-earning assets         33.79%         36.00%         33.91%         36.56%		12.070	10.050	12 102	10.000		
Shareholders' equity         119,900         116,298         118,653         116,637           Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-U.S. operations           Interest-earning assets         33.79%         36.00%         33.91%         36.56%							
Liabilities and shareholders' equity         \$1,691,375         \$1,557,162         \$1,668,451         \$1,542,942           Percentage attributable to non-U.S. operations           Interest-earning assets         33.79%         36.00%         33.91%         36.56%							
Percentage attributable to non-U.S. operations Interest-earning assets 33.79% 36.00% 33.91% 36.56%							
Interest-earning assets <b>33.79%</b> 36.00% <b>33.91%</b> 36.56%	Liabilities and snareholders' equity	⊅1,091, <b>3/</b> 5	φ1,55/,162	<b>ͽι,υυ</b> δ,451	φ1,542,942		
•	Percentage attributable to non	-U.S. opera	tions				
•	Interest-earning assets	33.79%	36.00%	33.91%	36.56%		
	*						

	Interest for the					
	Three I	Months	Nine Months			
	Ended Se	eptember	Ended September			
\$ in millions	2024	2023	2024	2023		
Assets						
U.S.	\$ 1,473	\$ 1,911	\$ 4,751	\$ 5,522		
Non-U.S.	881	1,154	2,838	2,809		
Deposits with banks	2,354	3,065	7,589	8,331		
U.S.	3,623	2,892	10,715	8,028		
Non-U.S.	1,524	1,395	4,345	3,716		
Collateralized agreements	5,147	4,287	15,060	11,744		
U.S.	2,619	1,482	6,899	3,958		
Non-U.S.	1,444	740	3,441	2,032		
Trading assets	4,063	2,222	10,340	5,990		
U.S.	1,493	788	3,742	2,129		
Non-U.S.	163	213	511	600		
Investments	1,656	1,001	4,253	2,729		
U.S.	3,885	3,403	11,117	9,760		
Non-U.S.	345	394	1,029	1,182		
Loans	4,230	3,797	12,146	10,942		
U.S.	2,359	2,299	7,118	6,136		
Non-U.S.	1,639	1,586	4,937	4,159		
Other interest-earning assets	3,998	3,885	12,055	10,295		
Interest-earning assets	\$21,448	\$18,257	\$61,443	\$50,031		
Liabilities						
U.S.	\$ 4,138	\$ 3,580	\$12,080	\$ 9,900		
Non-U.S.	1,160	853	3,474	2,059		
Interest-bearing deposits	5,298	4,433	15,554	11,959		
U.S.	3,110	2,526	8,851	6,291		
Non-U.S.	1,337	1,109	4,109	2,840		
Collateralized financings	4,447	3,635	12,960	9,131		
U.S.	331	246	870	692		
Non-U.S.	428	387	1,211	1,077		
Trading liabilities	759	633	2,081	1,769		
U.S.	496	305	1,346	778		
Non-U.S.	93	12	282	70		
Short-term borrowings	589	317	1,628	848		
U.S.	2,795	2,842	8,154	8,090		
Non-U.S.	79	71	218	195		
Long-term borrowings	2,874	2,913	8,372	8,285		
U.S.	3,663	3,124	9,914	8,226		
Non-U.S.	1,195	1,655	4,461	4,801		
Other interest-bearing liabilities	4,858	4,779	14,375	13,027		
Interest-bearing liabilities	\$18,825	\$16,710	\$54,970	\$45,019		
Net interest income						
U.S.	\$ 919	\$ 152	\$ 3,127	\$ 1,556		
Non-U.S.	1,704	1,395	3,346	3,456		
Net interest income	\$ 2,623	\$ 1,547	\$ 6,473	\$ 5,012		
Test intologe modific	¥ 2,020	Ψ 1,047	ψ 0, <del>1</del> 70	Ψ 0,012		

### Statistical Disclosures

	Annualized Average Rate for the					
	Three N	Nonths	Nine M	lonths		
	Ended Se	eptember	Ended September			
	2024	2023	2024	2023		
Assets						
U.S.	5.39%	5.46%	5.56%	5.32%		
Non-U.S.	3.74%	3.54%	3.55%	2.93%		
Deposits with banks	4.63%	4.53%	4.59%	4.17%		
U.S.	5.88%	5.49%	5.76%	5.19%		
Non-U.S.	4.14%	3.59%	4.07%	3.06%		
Collateralized agreements	5.23%	4.69%	5.14%	4.25%		
U.S.	3.42%	2.83%	3.29%	2.68%		
Non-U.S.	2.67%	2.01%	2.40%	1.93%		
Trading assets	3.11%	2.49%	2.93%	2.37%		
U.S.	3.75%	2.49%	3.45%	2.36%		
Non-U.S.	4.30%	5.66%	4.72%	5.28%		
Investments	3.80%	2.83%	3.57%	2.68%		
U.S.	8.99%	8.78%	8.94%	8.42%		
Non-U.S.	8.21%	8.39%	8.44%	8.02%		
Loans	8.92%	8.74%	8.89%	8.37%		
U.S.	11.86%	10.76%	11.86%	9.29%		
Non-U.S.	11.19%	11.61%	11.18%	9.81%		
Other interest-earning assets	11.58%	11.09%	11.57%	9.49%		
Interest-earning assets	5.29%	5.04%	5.24%	4.68%		
Liabilities						
U.S.	4.84%	4.65%	4.85%	4.33%		
Non-U.S.	4.67%	3.97%	4.76%	3.45%		
Interest-bearing deposits	4.80%	4.50%	4.83%	4.15%		
U.S.	5.99%	6.08%	5.96%	5.64%		
Non-U.S.	4.88%	4.31%	4.84%	4.05%		
Collateralized financings	5.61%	5.40%	5.55%	5.03%		
U.S.	2.26%	1.68%	2.03%	1.46%		
Non-U.S.	2.02%	1.99%	2.03%	1.92%		
Trading liabilities	2.12%	1.85%	2.03%	1.71%		
U.S.	3.62%	2.44%	3.46%	2.24%		
Non-U.S.	0.98%	0.18%	1.04%	0.35%		
Short-term borrowings	2.55%	1.67%	2.47%	1.55%		
U.S.	5.54%	5.97%	5.67%	5.38%		
Non-U.S.	0.54%	0.64%	0.54%	0.58%		
Long-term borrowings	4.42%	4.96%	4.55%	4.51%		
U.S.	9.64%	8.62%	9.12%	7.19%		
Non-U.S.	5.30%	7.11%	6.67%	6.69%		
Other interest-bearing liabilities	8.02%	8.03%	8.19%	7.00%		
Interest-bearing liabilities	5.03%	4.96%	5.07%	4.51%		
Interest rate spread	0.26%	0.08%	0.17%	0.17%		
U.S.	0.34%	0.07%	0.40%	0.23%		
Non-U.S.	1.24%	1.07%	0.40 %	0.23 %		
Net yield on interest-earning assets	0.65%	0.43%	0.55%	0.66%		
iver yield on interest-earning assets	0.05%	U.43 %	0.55%	U.4/70		

In the tables above:

- Assets, liabilities and interest are classified as U.S. and non-U.S. based on the location of the legal entity in which the assets and liabilities are held.
- Derivative instruments and commodities are included in other non-interest-earning assets and other non-interestbearing liabilities.
- Average collateralized agreements included \$180.86 billion of resale agreements and \$204.64 billion of securities borrowed for the three months ended September 2024, \$174.40 billion of resale agreements and \$191.59 billion of securities borrowed for the three months ended September 2023, \$186.14 billion of resale agreements and \$204.38 billion of securities borrowed for the nine months ended September 2024, and \$175.00 billion of resale agreements and \$193.01 billion of securities borrowed for the nine months ended September 2023.
- Other interest-earning assets primarily consists of certain receivables from customers and counterparties.
- Collateralized financings included \$247.00 billion of repurchase agreements and \$63.55 billion of securities loaned for the three months ended September 2024, and \$215.00 billion of repurchase agreements and \$54.15 billion of securities loaned for the three months ended September 2023, \$246.53 billion of repurchase agreements and \$64.78 billion of securities loaned for the nine months ended September 2024, and \$195.28 billion of repurchase agreements and \$46.92 billion of securities loaned for the nine months ended September 2023.
- Substantially all other interest-bearing liabilities consists of certain payables to customers and counterparties.
- Interest rates for borrowings include the effects of interest rate swaps accounted for as hedges.
- Loans exclude loans held for sale that are accounted for at the lower of cost or fair value. Such loans are included within other interest-earning assets.
- Short- and long-term borrowings include both secured and unsecured borrowings.

### Item 2. Management's Discussion and Analysis of Financial Condition and **Results of Operations**

#### Introduction

The Goldman Sachs Group, Inc. (Group Inc. or parent company), a Delaware corporation, together with its consolidated subsidiaries, is a leading global financial institution that delivers a broad range of financial services to a large and diversified client base that includes corporations, financial institutions, governments and individuals. Founded in 1869, we are headquartered in New York and maintain offices in all major financial centers around the world. We manage and report our activities in three business segments: Global Banking & Markets, Asset & Wealth Management and Platform Solutions. See "Results of Operations" for further information about our business segments.

When we use the terms "we," "us" and "our," we mean Group Inc. and its consolidated subsidiaries. When we use the term "our subsidiaries," we mean the consolidated subsidiaries of Group Inc.

Group Inc. is a bank holding company and a financial holding company regulated by the Board of Governors of the Federal Reserve System (FRB).

This Management's Discussion and Analysis of Financial Condition and Results of Operations should be read in conjunction with our Annual Report on Form 10-K for the year ended December 31, 2023. References to "the 2023 Form 10-K" are to our Annual Report on Form 10-K for the year ended December 31, 2023. References to "this Form 10-Q" are to our Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2024. All references to "the consolidated financial statements" "Statistical Disclosures" are to Part I, Item 1 of this Form 10-Q. The consolidated financial statements are unaudited. All references to September 2024, June 2024 and September 2023 refer to our periods ended, or the dates, as the context requires, September 30, 2024, June 30, 2024 and September 30, 2023, respectively. All references to December 2023 refer to the date December 31, 2023. Any reference to a future year refers to a year ending on December 31 of that year. Certain reclassifications have been made to previously reported amounts to conform to the current presentation.

### **Executive Overview**

Three Months Ended September 2024 versus **September 2023.** We generated net earnings of \$2.99 billion for the third quarter of 2024, compared with \$2.06 billion for the third quarter of 2023. Diluted earnings per common share (EPS) was \$8.40 for the third quarter of 2024, compared with \$5.47 for the third quarter of 2023. Annualized return on average common shareholders' equity (ROE) was 10.4% for the third quarter of 2024, compared with 7.1% for the third quarter of 2023. Book value per common share was \$332.96 as of September 2024, 1.8% higher compared with June 2024 and 6.2% higher compared with December 2023.

Net revenues were \$12.70 billion for the third quarter of 2024, 7% higher than the third quarter of 2023, reflecting higher net revenues in Global Banking & Markets and Asset & Wealth Management, partially offset by lower net revenues in Platform Solutions. The increase in net revenues in Global Banking & Markets primarily reflected higher net revenues in Equities and significantly higher net revenues in Investment banking fees, partially offset by lower net revenues in Fixed Income, Currency and Commodities (FICC). The increase in net revenues in Asset & Wealth Management primarily reflected net gains in Equity investments compared with net losses in the prior year period and higher Management and other fees, partially offset by significantly lower net revenues in Debt investments. The decrease in net revenues in Platform Solutions primarily reflected significantly lower net revenues in Consumer platforms.

Provision for credit losses was \$397 million for the third quarter of 2024, compared with \$7 million for the third quarter of 2023. Provisions for the third quarter of 2024 reflected net provisions related to the credit card portfolio (primarily driven by net charge-offs), partially offset by a net benefit related to the wholesale portfolio (driven by recoveries on previously impaired loans). Provisions for the third quarter of 2023 reflected net provisions related to both the credit card portfolio (primarily driven by net charge-offs) and wholesale loans (driven by impairments, partially offset by a reserve reduction based on increased stability in the macroeconomic environment), offset by a net release related to the GreenSky loan portfolio (including a reserve reduction related to the transfer of the portfolio to held for sale).

### Management's Discussion and Analysis

Operating expenses were \$8.32 billion for the third quarter of 2024, 8% lower than the third quarter of 2023, reflecting decreases driven by the write-down of identifiable intangible assets related to GreenSky Holdings, LLC (GreenSky) in the prior year period and significantly lower expenses, including impairments, related to commercial real estate in consolidated investment entities (CIEs), partially offset by increases driven by higher transaction based expenses and the write-down of identifiable intangible assets related to the General Motors (GM) credit card program in the current period. Our efficiency ratio (total operating expenses divided by total net revenues) was 65.5% for the third quarter of 2024, compared with 76.6% for the third quarter of 2023.

During the third quarter of 2024, we returned a total of \$1.98 billion of capital to common shareholders, including \$1.00 billion of common share repurchases and \$978 million of common stock dividends. As of September 2024, our Common Equity Tier 1 (CET1) capital ratio was 14.6% under the Standardized Capital Rules and 15.5% under the Advanced Capital Rules. See Note 20 to the consolidated financial statements for further information about our capital ratios.

Nine Months Ended September 2024 versus September 2023. We generated net earnings of \$10.17 billion for the first nine months of 2024, compared with \$6.51 billion for the first nine months of 2023. Diluted EPS was \$28.64 for the first nine months of 2024, compared with \$17.39 for the first nine months of 2023. Annualized ROE was 12.0% for the first nine months of 2024, compared with 7.6% for the first nine months of 2023.

Net revenues were \$39.64 billion for the first nine months of 2024, 13% higher than the first nine months of 2023, reflecting higher net revenues in Global Banking & Markets and Asset & Wealth Management. The increase in net revenues in Global Banking & Markets primarily reflected significantly higher Investment banking fees, higher net revenues in Equities and slightly higher net revenues in FICC. The increase in net revenues in Asset & Wealth Management primarily reflected net gains in Equity investments compared with net losses in the prior year period, higher Management and other fees and higher net revenues in Private banking and lending. Net revenues in Platform Solutions were slightly lower.

Provision for credit losses was \$997 million for the first nine months of 2024, compared with \$451 million for the first nine months of 2023. Provisions for the first nine months of 2024 reflected net provisions related to the credit card portfolio (driven by net charge-offs). Provisions for the first nine months of 2023 reflected net provisions related to both the credit card portfolio (primarily driven by net charge-offs) and wholesale loans (primarily driven by impairments), partially offset by a reserve reduction related to the sale of substantially all of the *Marcus by Goldman Sachs* (Marcus) loan portfolio and a net release related to the GreenSky loan portfolio (including a reserve reduction related to the transfer of the portfolio to held for sale).

Operating expenses were \$25.51 billion for the first nine months of 2024, 2% lower than the first nine months of 2023, reflecting decreases driven by significantly lower expenses, including impairments, related to commercial real estate in CIEs, the write-down related to GreenSky in the prior year period and an impairment of goodwill related to Consumer platforms in the prior year period, partially offset by higher compensation and benefits expenses (reflecting improved operating performance) and higher transaction based expenses. Our efficiency ratio was 64.3% for the first nine months of 2024, compared with 74.4% for the first nine months of 2023.

During the first nine months of 2024, we returned a total of \$8.84 billion of capital to common shareholders, including \$6.00 billion of common stock repurchases and \$2.84 billion of common stock dividends.

### **Business Environment**

During the third quarter of 2024, economic activity continued to be impacted by concerns about inflation, although some measures had begun to improve, and ongoing geopolitical stresses, including tensions with China and conflicts in Ukraine and the Middle East. Despite these concerns, the economy in the U.S. has remained resilient. Additionally, markets were focused on policy interest rate cuts by several central banks, including the first rate cut by the U.S. Federal Reserve since it began increasing the rate in 2022, as well as the potential outcomes of national elections.

There remains uncertainty and concerns about geopolitical risks, central bank policy and inflation. See "Results of Operations — Segment Assets and Operating Results — Segment Operating Results" for further information about the operating environment for each of our business segments.

### Management's Discussion and Analysis

### **Critical Accounting Policies**

#### Fair Value

Fair Value Hierarchy. Trading assets and liabilities, certain investments and loans, and certain other financial assets and liabilities, are included in our consolidated balance sheets at fair value (i.e., marked-to-market), with related gains or losses generally recognized in our consolidated statements of earnings. The use of fair value to measure financial instruments is fundamental to our risk management practices and is our most critical accounting policy.

The fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. We measure certain financial assets and liabilities as a portfolio (i.e., based on its net exposure to market and/or credit risks). In determining fair value, the hierarchy under U.S. generally accepted accounting principles (U.S. GAAP) gives (i) the highest priority to unadjusted quoted prices in active markets for identical, unrestricted assets or liabilities (level 1 inputs), (ii) the next priority to inputs other than level 1 inputs that are observable, either directly or indirectly (level 2 inputs), and (iii) the lowest priority to inputs that cannot be observed in market activity (level 3 inputs). In evaluating the significance of a valuation input, we consider, among other factors, a portfolio's net risk exposure to that input. Assets and liabilities are classified in their entirety based on the lowest level of input that is significant to their fair value measurement.

The fair values for substantially all of our financial assets and liabilities are based on observable prices and inputs and are classified in levels 1 and 2 of the fair value hierarchy. Certain level 2 and level 3 financial assets and liabilities may require appropriate valuation adjustments that a market participant would require to arrive at fair value for factors, such as counterparty and our credit quality, funding risk, transfer restrictions, liquidity and bid/offer spreads.

Instruments classified in level 3 of the fair value hierarchy are those which require one or more significant inputs that are not observable. Level 3 financial assets represented 1.3% as of September 2024, 1.4% as of June 2024 and 1.5% as of December 2023 of our total assets. See Notes 4 and 5 to the consolidated financial statements for further information about level 3 financial assets, including changes in level 3 financial assets and related fair value measurements. Absent evidence to the contrary, instruments classified in level 3 of the fair value hierarchy are initially valued at transaction price, which is considered to be the best initial estimate of fair value. Subsequent to the transaction date, we use other methodologies to determine fair value, which vary based on the type of instrument. Estimating the fair value of level 3 financial instruments requires judgments to be made. These judgments include:

- Determining the appropriate valuation methodology and/ or model for each type of level 3 financial instrument;
- Determining model inputs based on an evaluation of all relevant empirical market data, including prices evidenced by market transactions, interest rates, credit spreads, volatilities and correlations; and
- Determining appropriate valuation adjustments, including those related to illiquidity or counterparty credit quality.

Regardless of the methodology, valuation inputs and assumptions are only changed when corroborated by substantive evidence.

### Controls Over Valuation of Financial Instruments. Market makers and investment professionals in our revenueproducing units are responsible for pricing our financial instruments. Our control infrastructure is independent of the revenue-producing units and is fundamental to ensuring that all of our financial instruments are appropriately valued at market-clearing levels. In the event that there is a difference of opinion in situations where estimating the fair value of financial instruments requires judgment (e.g., calibration to market comparables or trade comparison, as described below), the final valuation decision is made by senior managers in independent risk oversight and control functions. This independent price verification is critical to ensuring that our financial instruments are properly valued.

**Price Verification.** All financial instruments at fair value classified in levels 1, 2 and 3 of the fair value hierarchy are subject to our independent price verification process. The objective of price verification is to have an informed and independent opinion with regard to the valuation of financial instruments under review. Instruments that have one or more significant inputs which cannot be corroborated by external market data are classified in level 3 of the fair value hierarchy. Price verification strategies utilized by our independent risk oversight and control functions include:

- Trade Comparison. Analysis of trade data (both internal and external, where available) is used to determine the most relevant pricing inputs and valuations.
- External Price Comparison. Valuations and prices are compared to pricing data obtained from third parties (e.g., brokers or dealers, S&P Global Services, Bloomberg, ICE Data Services, Pricing Direct, TRACE). Data obtained from various sources is compared to ensure consistency and validity. When broker or dealer quotations or thirdparty pricing vendors are used for valuation or price verification, greater priority is generally given to executable quotations.
- Calibration to Market Comparables. Market-based transactions are used to corroborate the valuation of positions with similar characteristics, risks components.
- Relative Value Analyses. Market-based transactions are analyzed to determine the similarity, measured in terms of risk, liquidity and return, of one instrument relative to another or, for a given instrument, of one maturity relative to another.
- Collateral Analyses. Margin calls on derivatives are analyzed to determine implied values, which are used to corroborate our valuations.
- **Execution of Trades.** Where appropriate, market-making desks are instructed to execute trades in order to provide evidence of market-clearing levels.
- Backtesting. Valuations are corroborated by comparison to values realized upon sales.

See Note 4 to the consolidated financial statements for further information about fair value measurements.

**Review of Net Revenues.** Independent risk oversight and control functions ensure adherence to our pricing policy through a combination of daily procedures, including the explanation and attribution of net revenues based on the underlying factors. Through this process, we independently validate net revenues, identify and resolve potential fair value or trade booking issues on a timely basis and seek to ensure that risks are being properly categorized and quantified.

**Review of Valuation Models.** Our independent model risk management group (Model Risk), consisting of quantitative professionals who are separate from model developers, performs an independent model review and validation process of our valuation models. New or changed models are reviewed and approved prior to implementation. Models are reviewed annually to assess the impact of any changes in the product or market and any market developments in pricing theories. See "Risk Management - Model Risk Management" for further information about the review and validation of our valuation models.

#### Allowance for Credit Losses

We estimate and record an allowance for credit losses related to our loans held for investment that are accounted for at amortized cost. To determine the allowance for credit losses, we classify our loans accounted for at amortized cost into wholesale and consumer portfolios. These portfolios represent the level at which we have developed and documented our methodology to determine the allowance for credit losses. The allowance for credit losses is measured on a collective basis for loans that exhibit similar risk characteristics using a modeled approach and on an assetspecific basis for loans that do not share similar risk characteristics.

The allowance for credit losses takes into account the weighted average of a range of forecasts of future economic conditions over the expected life of the loans and lending commitments. The expected life of each loan or lending commitment is determined based on the contractual term adjusted for extension options or demand features, or is modeled in the case of revolving credit card loans. The forecasts include baseline, favorable and adverse economic scenarios over a three-year period. For loans with expected lives beyond three years, the model reverts to historical loss information based on a non-linear modeled approach. We apply judgment in weighting individual scenarios each quarter based on a variety of factors, including our internally derived economic outlook, market consensus, recent macroeconomic conditions and industry trends. The forecasted economic scenarios consider a number of risk factors relevant to the wholesale and consumer portfolios. Risk factors for wholesale loans include internal credit ratings, industry default and loss data, expected life, macroeconomic indicators (e.g., unemployment rates and GDP), the borrower's capacity to meet its financial obligations, the borrower's country of risk and industry, loan seniority and collateral type. In addition, for loans backed by real estate, risk factors include the loan-to-value ratio, debt service ratio and home price index. The allowance for loan losses for wholesale loans that do not share similar risk characteristics, such as nonaccrual loans, is calculated using the present value of expected future cash flows discounted at the loan's effective rate, the observable market price of the loan, or, in the case of collateral dependent loans, the fair value of the collateral less estimated costs to sell, if applicable. Risk factors for installment and credit card loans include Fair Isaac Corporation (FICO) credit scores, delinquency status, loan vintage and macroeconomic indicators.

The allowance for credit losses also includes qualitative components which allow management to reflect the uncertain nature of economic forecasting, capture uncertainty regarding model inputs, and account for model imprecision and concentration risk.

Our estimate of credit losses entails judgment about collectability at the reporting dates, and there are uncertainties inherent in those judgments. The allowance for credit losses is subject to a governance process that involves review and approval by senior management within our independent risk oversight and control functions. Personnel within our independent risk oversight and control functions are responsible for forecasting the economic variables that underlie the economic scenarios that are used in the modeling of expected credit losses. While we use the best information available to determine this estimate, future adjustments to the allowance may be necessary based on, among other things, changes in the economic environment or variances between actual results and the original assumptions used. Loans are charged off against the allowance for loan losses when deemed to be uncollectible.

We also record an allowance for credit losses on lending commitments which are held for investment that are accounted for at amortized cost. Such allowance is determined using the same methodology as the allowance for loan losses, while also taking into consideration the probability of drawdowns or funding, and whether such commitments are cancellable by us.

To estimate the potential impact of an adverse macroeconomic environment on our allowance for credit losses, we, among other things, compared the expected credit losses under the weighted average forecast used in the calculation of allowance for credit losses as of September 2024 (which was weighted towards the baseline and adverse economic scenarios) to the expected credit losses under a 100% weighted adverse economic scenario. The adverse economic scenario of the forecast model reflects a global recession in the fourth quarter of 2024 through the third quarter of 2025, resulting in an economic contraction and rising unemployment rates. A 100% weighting to the adverse economic scenario would have resulted in an approximate \$0.8 billion increase in our allowance for credit losses as of September 2024. This hypothetical increase does not take into consideration any potential adjustments to qualitative reserves. The forecasts of macroeconomic conditions are inherently uncertain and do not take into account any other offsetting or correlated effects. The actual credit loss in an adverse macroeconomic environment may differ significantly from this estimate. See Note 9 to the consolidated financial statements for further information about the allowance for credit losses.

### **Use of Estimates**

U.S. GAAP requires us to make certain estimates and assumptions. In addition to the estimates we make in connection with fair value measurements and the allowance for credit losses on loans and lending commitments held for investment and accounted for at amortized cost, the use of estimates and assumptions is also important in determining discretionary compensation accruals, the accounting for goodwill and identifiable intangible assets, provisions for losses that may arise from litigation and regulatory proceedings (including governmental investigations), and accounting for income taxes.

A substantial portion of our compensation and benefits represents discretionary compensation, which is finalized at year-end. We believe the most appropriate way to allocate estimated year-end discretionary compensation among interim periods is in proportion to the net revenues net of provision for credit losses earned in such periods. In addition to the level of net revenues net of provision for credit losses, our overall compensation expense in any given year is also influenced by, among other factors, overall financial performance, prevailing labor markets, business mix, the structure of our share-based compensation programs and the external environment.

Goodwill is assessed for impairment annually in the fourth quarter or more frequently if events occur or circumstances change that indicate an impairment may exist. When assessing goodwill for impairment, first, a qualitative assessment can be made to determine whether it is more likely than not that the estimated fair value of a reporting unit is less than its carrying value. If the results of the qualitative assessment are not conclusive, a quantitative goodwill test is performed. Alternatively, a quantitative goodwill test can be performed without performing a qualitative assessment. Estimating the fair value of our reporting units requires judgment. Critical inputs to the fair value estimates include projected earnings, allocated equity, price-to-earnings multiples and price-to-book multiples. There is inherent uncertainty in the projected earnings. The carrying value of each reporting unit reflects an allocation of total shareholders' equity and represents the estimated amount of total shareholders' equity required to support the activities of the reporting unit under currently applicable regulatory capital requirements. During the third quarter of 2024, in connection with the planned sale of our seller financing loan portfolio, we performed a quantitative goodwill test and determined that the goodwill associated with Transaction banking and other was impaired, and accordingly, recorded a \$14 million impairment. There were no events or changes in circumstances during the three or nine months ended September 2024 that would indicate that it was more likely than not that the estimated fair value of each of the other reporting units with goodwill did not exceed its respective carrying value as of September 2024. See Note 12 to the consolidated financial statements for further information about our annual assessment of goodwill for impairment. If we experience a prolonged or severe period of weakness in the business environment, financial markets, the performance of one or more of our reporting units or our common stock price, or additional increases in capital requirements, our goodwill could be impaired in the future.

Identifiable intangible assets are tested for impairment when events or changes in circumstances suggest that an asset's or asset group's carrying value may not be fully recoverable. Judgment is required to evaluate whether indications of potential impairment have occurred, and to test identifiable intangible assets for impairment, if required. An impairment is recognized if the estimated undiscounted cash flows relating to the asset or asset group is less than the corresponding carrying value. During the third quarter of 2024, in connection with the planned transition of the GM credit card program to another issuer, we classified the GM credit card program to held for sale and recognized a \$72 million write-down of identifiable intangible assets. See Note 12 to the consolidated financial statements for further information about identifiable intangible assets.

We also estimate and provide for potential losses that may arise out of litigation and regulatory proceedings to the extent that such losses are probable and can be reasonably estimated. In addition, we estimate the upper end of the range of reasonably possible aggregate loss in excess of the related reserves for litigation and regulatory proceedings where we believe the risk of loss is more than slight. See Notes 18 and 27 to the consolidated financial statements for information about certain judicial, litigation and regulatory proceedings. Significant judgment is required in making these estimates and our final liabilities may ultimately be materially different. Our total estimated liability in respect of litigation and regulatory proceedings is determined on a caseby-case basis and represents an estimate of probable losses after considering, among other factors, the progress of each case, proceeding or investigation, our experience and the experience of others in similar cases, proceedings or investigations, and the opinions and views of legal counsel.

In accounting for income taxes, we recognize tax positions in the financial statements only when it is more likely than not that the position will be sustained on examination by the relevant taxing authority based on the technical merits of the position. We use estimates to recognize current and deferred income taxes in the U.S. federal, state and local and non-U.S. jurisdictions in which we operate. The income tax laws in these jurisdictions are complex and can be subject to different interpretations between taxpayers and taxing authorities. Disputes may arise over these interpretations and can be settled by audit, administrative appeals or judicial proceedings. Our interpretations are reevaluated quarterly based on guidance currently available, tax examination experience and the opinions of legal counsel, among other factors. We recognize deferred taxes based on the amount that will more likely than not be realized in the future based on enacted income tax laws. Our estimate for deferred taxes includes estimates for future taxable earnings, including the level and character of those earnings, and various tax planning strategies. See Note 24 to the consolidated financial statements in Part II, Item 8 of the 2023 Form 10-K for further information about income taxes.

# **Recent Accounting Developments**

See Note 3 to the consolidated financial statements for information about Recent Accounting Developments.

### **Results of Operations**

The composition of our net revenues has varied over time as financial markets and the scope of our operations have changed. The composition of net revenues can also vary over the shorter term due to fluctuations in U.S. and global economic and market conditions. See "Risk Factors" in Part I. Item 1A of the 2023 Form 10-K for further information about the impact of economic and market conditions on our results of operations.

### **Financial Overview**

The table below presents an overview of our financial results and selected financial ratios.

	Three I	Мo	nths	Nine Months				
	 Ended Se	eptember Ended			Ended Se	epte	ember	
\$ in millions, except per share amounts	2024		2023		2024		2023	
Net revenues	\$ 12,699	\$	11,817	\$	39,643	\$	34,936	
Pre-tax earnings	\$ 3,987	\$	2,756	\$	13,140	\$	8,485	
Net earnings	\$ 2,990	\$	2,058	\$	10,165	\$	6,508	
Net earnings to common	\$ 2,780	\$	1,882	\$	9,602	\$	6,040	
Diluted EPS	\$ 8.40	\$	5.47	\$	28.64	\$	17.39	
ROE	10.4%		7.1%		12.0%		7.6%	
ROTE	11.1%		7.7%		12.9%		8.2%	
Net earnings to average assets	0.7%		0.5%		0.8%		0.6%	
Return on shareholders' equity	10.0%		7.1%		11.4%		7.4%	
Average equity to average assets	7.1%		7.5%		7.1%		7.6%	
Dividend payout ratio	35.7%		50.3%		29.7%		44.6%	

Our target (through-the-cycle) is to achieve ROE within a range of 14% to 16% and return on average tangible common shareholders' equity (ROTE) within a range of 15% to 17%.

In the table above:

- Net earnings to common represents net earnings applicable to common shareholders, which is calculated as net earnings less preferred stock dividends.
- ROE, ROTE, net earnings to average total assets and return on average shareholders' equity are annualized amounts.
- ROE is calculated by dividing annualized net earnings to common by average monthly common shareholders' equity.
- ROTE is calculated by dividing annualized net earnings to common by average monthly tangible common shareholders' equity. Tangible common shareholders' equity is calculated as total shareholders' equity less preferred stock, goodwill and identifiable intangible assets. We believe that tangible common shareholders' equity is meaningful because it is a measure that we and investors use to assess capital adequacy and that ROTE is meaningful because it measures the performance of businesses consistently, whether they were acquired or developed internally. Tangible common shareholders' equity and ROTE are non-GAAP measures and may not be comparable to similar non-GAAP measures used by other companies.

The table below presents our average equity and the reconciliation of average common shareholders' equity to average tangible common shareholders' equity.

	Average for the						
				e Months I September			
\$ in millions	2024	2023	2024	2023			
Total shareholders' equity	\$119,900	\$116,298	\$118,653	\$116,637			
Preferred stock	(12,878)	<b>2,878)</b> (10,953) <b>(12,183)</b> (1					
Common shareholders' equity	107,022	105,345	106,470	105,834			
Goodwill	(5,905)	(5,934)	(5,902)	(6,218)			
Identifiable intangible assets	(978)	(1,764)	(1,042)	(1,888)			
Tangible common shareholders' equity	\$100,139	\$ 97,647	\$99,526	\$97,728			

- Net earnings to average assets is calculated by dividing annualized net earnings by average total assets.
- Return on shareholders' equity is calculated by dividing annualized net earnings by average monthly shareholders' equity.
- Average equity to average assets is calculated by dividing average total shareholders' equity by average total assets.
- Dividend payout ratio is calculated by dividing dividends declared per common share by diluted EPS.

### **Net Revenues**

The table below presents our net revenues by line item.

	Three Months Ended September							ne Months d September		
\$ in millions		2024		2023		2024		2023		
Investment banking	\$	1,864	\$	1,555	\$	5,682	\$	4,565		
Investment management		2,649		2,409		7,673		7,054		
Commissions and fees		873		883		3,001		2,864		
Market making		4,005		4,958		14,222		14,742		
Other principal transactions		685		465		2,592		699		
Total non-interest revenues		10,076		10,270		33,170		29,924		
Interest income		21,448		18,257		61,443		50,031		
Interest expense		18,825		16,710		54,970		45,019		
Net interest income		2,623		1,547		6,473		5,012		
Total net revenues	\$	12,699	\$	11,817	\$	39,643	\$	34,936		

In the table above:

- Investment banking consists of revenues (excluding net interest) from financial advisory and underwriting assignments. These activities are included in Global Banking & Markets.
- Investment management consists of revenues (excluding net interest) from providing asset management and wealth advisory services across all major asset classes to a diverse set of clients. These activities are included in Asset & Wealth Management.
- Commissions and fees consists of revenues from executing and clearing client transactions on major stock, options and futures exchanges worldwide, as well as over-thecounter (OTC) transactions. Substantially all of these activities are included in Global Banking & Markets.

- Market making consists of revenues (excluding net interest) from client execution activities related to making markets in interest rate products, credit products, mortgages, currencies, commodities and equity products. These activities are included in Global Banking & Markets.
- Other principal transactions consists of revenues (excluding net interest) from our equity investing activities, including revenues related to our consolidated investments (included in Asset & Wealth Management), and debt investing and lending activities (included across our three segments).

**Operating Environment.** During the third quarter of 2024, the operating environment was generally characterized by continued broad macroeconomic concerns, including concerns and uncertainty about inflation, ongoing geopolitical tensions, central bank policy and the potential outcomes of national elections. Industry-wide investment banking activity levels generally declined, while marketmaking activity levels increased compared with the prior quarter. Global equity and bond prices were generally higher compared with the end of the second quarter of 2024, and concerns about the commercial real estate market persisted. In the U.S., the rate of unemployment remained low and the pace of growth in consumer spending increased slightly compared with the second quarter of 2024.

If uncertainty and concerns about geopolitical tensions and the economic outlook remain elevated or grow, including those about central bank policy, inflation and the commercial real estate sector, it may lead to a decline in asset prices, a decline in market-making activity levels, or a continued decline in investment banking activity levels, and net revenues and provision for credit losses would likely be negatively impacted. See "Segment Assets and Operating Results — Segment Operating Results" for information about the operating environment and material trends and uncertainties that may impact our results of operations.

Months Ended September 2024 versus **September 2023.** Net revenues in the consolidated statements of earnings were \$12.70 billion for the third quarter of 2024, 7% higher than the third quarter of 2023, reflecting significantly higher net interest income, investment banking revenues and other principal transactions revenues, as well as higher investment management revenues, partially offset by lower market making revenues.

Non-Interest Revenues. Investment banking revenues in the consolidated statements of earnings were \$1.86 billion for the third quarter of 2024, 20% higher than the third quarter of 2023, primarily reflecting significantly higher revenues in debt underwriting, driven by leveraged finance and investment-grade activity, and higher revenues in equity underwriting, driven by secondary offerings.

Investment management revenues in the consolidated statements of earnings were \$2.65 billion for the third quarter of 2024, 10% higher than the third quarter of 2023, primarily due to higher management and other fees, primarily reflecting the impact of higher average assets under supervision (AUS).

Commissions and fees in the consolidated statements of earnings were \$873 million for the third quarter of 2024, essentially unchanged compared with the third quarter of 2023, due to higher commissions and fees in Equities, reflecting generally higher market volumes and increased transaction fees, largely offset by a loss related to the planned transition of the GM credit card program to another issuer.

Market making revenues in the consolidated statements of earnings were \$4.01 billion for the third quarter of 2024, 19% lower than the third quarter of 2023, reflecting significantly lower revenues in intermediation and lower revenues in financing. The decrease from intermediation activities primarily reflected significantly lower revenues in interest rate products and commodities. The decrease from financing activities reflected significantly lower revenues from FICC financing, partially offset by higher revenues in equities financing.

Other principal transactions revenues in the consolidated statements of earnings were \$685 million for the third quarter of 2024, 47% higher than the third quarter of 2023, reflecting significantly higher net gains from investments in equities, driven by investments in corporate private and public equities.

Net Interest Income. Net interest income in the consolidated statements of earnings was \$2.62 billion for the third quarter of 2024, 70% higher than the third quarter of 2023, reflecting an increase in interest income, partially offset by an increase in interest expense. The increase in interest income primarily related to trading assets, collateralized agreements, and investments, each reflecting the impact of higher average balances and higher average interest rates, partially offset by deposits with banks, reflecting the impact of lower average balances. The increase in interest expense primarily related to deposits and collateralized financings, both reflecting the impact of higher average balances. See "Statistical Disclosures — Distribution of Assets, Liabilities and Shareholders' Equity" for further information about our sources of net interest income.

Nine Months Ended September 2024 **September 2023.** Net revenues in the consolidated statements of earnings were \$39.64 billion for the first nine months of 2024, 13% higher than the first nine months of 2023, primarily reflecting significantly higher other principal transactions revenues, net interest income and investment banking revenues.

Non-Interest Revenues. Investment banking revenues in the consolidated statements of earnings were \$5.68 billion for the first nine months of 2024, 24% higher than the first nine months of 2023, reflecting significantly higher revenues in debt underwriting, primarily driven by leveraged finance activity, significantly higher revenues in equity underwriting, primarily from secondary and initial public offerings, and higher revenues in advisory, reflecting an increase in completed mergers and acquisitions transactions.

Investment management revenues in the consolidated statements of earnings were \$7.67 billion for the first nine months of 2024, 9% higher than the first nine months of 2023, primarily due to higher management and other fees, primarily reflecting the impact of higher average AUS.

Commissions and fees in the consolidated statements of earnings were \$3.00 billion for the first nine months of 2024, 5% higher than the first nine months of 2023, due to higher commissions and fees in Equities, reflecting generally higher market volumes and increased transaction fees, partially offset by a loss related to the planned transition of the GM credit card program to another issuer.

Market making revenues in the consolidated statements of earnings were \$14.22 billion for the first nine months of 2024, 4% lower than the first nine months of 2023, reflecting slightly lower revenues in both intermediation and financing. The decrease from intermediation activities primarily reflected significantly lower revenues in commodities, partially offset by significantly higher revenues from currencies and mortgages. The decrease from financing activities reflected significantly lower revenues in FICC financing, largely offset by higher revenues from Equities financing.

Other principal transactions revenues in the consolidated statements of earnings were \$2.59 billion for the first nine months of 2024, compared with \$699 million for the first nine months of 2023, with the increase primarily reflecting significantly higher net gains from investments in equities, driven by investments in corporate private equities and real estate, and the impact of the sale of the Marcus loan portfolio in 2023 (including net revenues of approximately \$(370) million related to the sale of substantially all of the portfolio). **Net Interest Income.** Net interest income in the consolidated statements of earnings was \$6.47 billion for the first nine months of 2024, 29% higher than the first nine months of 2023, reflecting a significant increase in interest income, partially offset by a significant increase in interest expense. The increase in interest income primarily related to trading assets, collateralized agreements, and investments, each reflecting the impact of higher average balances and higher average interest rates, and, other interest-earning assets, reflecting the impact of higher average interest rates. The increase in interest expense primarily related to collateralized financings, deposits, and borrowings, each reflecting the impact of higher average balances and higher average interest rates, and other interest-bearing liabilities, reflecting the impact of higher average interest rates. See "Statistical Disclosures — Distribution of Assets, Liabilities and Shareholders' Equity" for further information about our sources of net interest income.

### **Provision for Credit Losses**

Provision for credit losses consists of provision for credit losses on financial assets and commitments accounted for at amortized cost, including loans and lending commitments held for investment. See Note 9 to the consolidated financial statements for further information about the provision for credit losses on loans and lending commitments.

The table below presents our provision for credit losses.

	ı	Three Mon Ended Septe		E	Nine Mon Ended Septe	
\$ in millions		2024	2023		2024	2023
Provision for credit losses	\$	397 \$	7	\$	997 \$	451

Three Months Ended September 2024 versus **September 2023.** Provision for credit losses in the consolidated statements of earnings was \$397 million for the third quarter of 2024, compared with \$7 million for the third quarter of 2023. Provisions for the third quarter of 2024 reflected net provisions related to the credit card portfolio (primarily driven by net charge-offs), partially offset by a net benefit related to the wholesale portfolio (driven by recoveries on previously impaired loans). Provisions for the third quarter of 2023 reflected net provisions related to both the credit card portfolio (primarily driven by net charge-offs) and wholesale loans (driven by impairments, partially offset by a reserve reduction based on increased stability in the macroeconomic environment), offset by a net release related to the GreenSky loan portfolio (including a reserve reduction of \$637 million related to the transfer of the portfolio to held for sale).

Nine September 2024 Months Ended versus **September 2023.** Provision for credit losses in the consolidated statements of earnings was \$997 million for the first nine months of 2024, compared with \$451 million for the first nine months of 2023. Provisions for the first nine months of 2024 reflected net provisions related to the credit card portfolio (primarily driven by net charge-offs). Provisions for the first nine months of 2023 reflected net provisions related to both the credit card portfolio (primarily driven by net charge-offs) and wholesale loans (primarily driven by impairments), partially offset by a reserve reduction of approximately \$440 million related to the sale of substantially all of the Marcus loan portfolio and a net release related to the GreenSky loan portfolio (including a reserve reduction of \$637 million related to the transfer of the portfolio to held for sale).

### **Operating Expenses**

Our operating expenses are primarily influenced by compensation, headcount and levels of business activity. Compensation and benefits includes salaries, estimated yearend discretionary compensation, amortization of equity awards and other items such as benefits. Discretionary compensation is significantly impacted by, among other factors, the level of net revenues, net of provision for credit losses, overall financial performance, prevailing labor markets, business mix, the structure of our share-based compensation programs and the external environment.

The table below presents our operating expenses by line item and headcount.

		Three I	Мo	nths	Nine M	1onths
	- 1	Ended Se	ept	ember	Ended Se	ptember
\$ in millions		2024		2023	2024	2023
Compensation and benefits	\$	4,122	\$	4,188	\$ 12,947	\$11,897
Transaction based		1,701		1,452	4,852	4,242
Market development		159		136	465	454
Communications and technology		498		468	1,468	1,416
Depreciation and amortization		621		1,512	1,894	4,076
Occupancy		242		267	733	785
Professional fees		400		377	1,177	1,152
Other expenses		572		654	1,970	1,978
Total operating expenses	\$	8,315	\$	9,054	\$ 25,506	\$26,000
Headcount at period-end		46,400		45,900	·	

Three Months Ended September 2024 versus **September 2023.** Operating expenses in the consolidated statements of earnings were \$8.32 billion for the third quarter of 2024, 8% lower than the third quarter of 2023. Our efficiency ratio was 65.5% for the third quarter of 2024, compared with 76.6% for the third quarter of 2023.

Operating expenses, compared with the third quarter of 2023, reflected decreases driven by the write-down of identifiable intangible assets related to GreenSky of \$506 million in the prior year period (in depreciation and amortization) and significantly lower expenses, including impairments, related to commercial real estate in CIEs (largely in depreciation and amortization), partially offset by increases driven by higher transaction based expenses and the write-down of identifiable intangible assets related to the GM credit card program of \$72 million in the current period (in depreciation and amortization). Net provisions for litigation and regulatory proceedings were \$41 million for the third quarter of 2024 compared with \$15 million for the third quarter of

As of September 2024, headcount increased 5% compared with June 2024, reflecting the timing of campus hires.

Nine Months Ended September 2024 versus **September 2023.** Operating expenses in the consolidated statements of earnings were \$25.51 billion for the first nine months of 2024, 2% lower than the first nine months of 2023. Our efficiency ratio was 64.3% for the first nine months of 2024, compared with 74.4% for the first nine months of 2023. The ratio of compensation and benefits to net revenues, net of provision for credit losses, was 33.5% for the first nine months of 2024, unchanged compared with the first half of 2024 and compared with 34.5% for the first nine months of

Operating expenses, compared with the first nine months of 2023, reflected decreases driven by significantly lower expenses, including impairments, related to commercial real estate in CIEs (largely in depreciation and amortization), the write-down related to GreenSky of \$506 million in the prior year period (in depreciation and amortization) and an impairment of goodwill related to Consumer platforms of \$504 million in the prior year period (in depreciation and amortization). These decreases were partially offset by higher compensation and benefits expenses (reflecting improved operating performance) and higher transaction based expenses. In the first and second quarters of 2024, the FDIC notified banks subject to the special assessment fee of the updated estimated cost to the Deposit Insurance Fund resulting from the closures in 2023 of Silicon Valley Bank and Signature Bank. In the third quarter of 2024, based on additional information received from the FDIC, the firm recognized a reduction in the estimated cost of the FDIC special assessment fee. As a result, we recognized an incremental pre-tax expense of \$80 million in the first nine months of 2024 (including a reduction of \$17 million in the third quarter of 2024). Net provisions for litigation and regulatory proceedings were \$168 million for the first nine months of 2024 compared with \$106 million for the first nine months of 2023.

As of September 2024, headcount increased 2% compared with December 2023.

#### **Provision for Taxes**

The effective income tax rate for the first nine months of 2024 was 22.6%, up from the full year income tax rate of 20.7% for 2023, primarily due to a decrease in permanent tax benefits, partially offset by a decrease in taxes on non-U.S. earnings and changes in the geographic mix of earnings. The increase compared with 21.6% for the first half of 2024 was primarily due to a decrease in the impact of permanent tax benefits.

The Organisation for Economic Co-operation and Development (OECD) Global Anti-Base Erosion Model Rules (Pillar II) aim to ensure that multinationals with revenues in excess of EUR 750 million pay a minimum effective corporate tax rate of 15% (minimum tax) in each jurisdiction in which they operate. The U.K. and other jurisdictions in which we operate have adopted certain portions of the OECD directive (Pillar II legislation) effective beginning in calendar year 2024. The Pillar II legislation did not have a material impact on our effective tax rate for the first nine months of 2024 and we do not expect a material impact on our 2024 annual effective tax rate based on our current interpretation of the guidance published by the OECD and enacted legislation. We expect additional guidance or legislation to be issued by the OECD and various jurisdictions in the fourth quarter of 2024 which could impact any minimum tax we owe in future periods, possibly materially, and our effective tax rate could increase in 2025 and thereafter. This minimum tax, if any, will be recognized in the period in which it is incurred.

We expect our 2024 annual effective tax rate to be approximately 22%.

# **Segment Assets and Operating Results Segment Assets.** The table below presents assets by segment.

	As of					
	September December					
\$ in millions	2024	2023				
Global Banking & Markets	\$1,471,242	\$1,381,247				
Asset & Wealth Management	196,460	191,863				
Platform Solutions	60,378	68,484				
Total	\$1,728,080	\$1,641,594				

The allocation process for segment assets is based on the activities of these segments. The allocation of assets includes allocation of global core liquid assets (GCLA) (which consists of unencumbered, highly liquid securities and cash), which is generally included within cash and cash equivalents, collateralized agreements and trading assets on our balance sheet. Due to the integrated nature of these segments, estimates and judgments are made in allocating these assets. See "Risk Management — Liquidity Risk Management" for further information about our GCLA.

**Segment Operating Results.** The table below presents our segment operating results.

		Three N Ended Se		Nine N Ended Se				
\$ in millions	_	2024	15.0	2023		2024		2023
Global Banking & Markets								
Net revenues	\$	8,554	\$	8,009	\$	26,464	\$	23,642
Provision for credit losses		54		29		95		214
Operating expenses		4,969		4,791		15,197		13,702
Pre-tax earnings	\$	3,531	\$	3,189	\$	11,172	\$	9,726
Net earnings to common	\$	2,490	\$	2,250	\$	8,205	\$	7,108
Average common equity	\$	76,039	\$	72,517	\$	75,575	\$	70,968
Return on average common equity		13.1%		12.4%		14.5%		13.4%
Asset & Wealth Management								
Net revenues	\$	3,754	\$	3,230	\$	11,421	\$	9,493
Provision for credit losses		(109)		51		(189)		(499)
Operating expenses		2,848		3,005		8,819		9,448
Pre-tax earnings	\$	1,015	\$	174	\$	2,791	\$	544
Net earnings to common	\$	727	\$	93	\$	2,053	\$	318
Average common equity	\$	26,475	\$	28,601	\$	26,348	\$	30,806
Return on average common equity		11.0%		1.3%		10.4%		1.4%
Platform Solutions								
Net revenues	\$	391	\$	578	\$	1,758	\$	1,801
Provision for credit losses		452		(73)		1,091		736
Operating expenses		498		1,258		1,490		2,850
Pre-tax earnings/(loss)	\$	(559)	\$	(607)	\$	(823)	\$	(1,785)
Net earnings/(loss) to common	\$	(437)	\$	(461)	\$	(656)	\$	(1,386)
Average common equity	\$	4,508	\$	4,227	\$	4,547	\$	4,060
Return on average common equity		(38.8)%		(43.6)%		(19.2)%		(45.5)%
Total								
Net revenues	\$	12,699	\$	11,817	\$	39,643	\$	34,936
Provision for credit losses		397		7		997		451
Operating expenses		8,315		9,054		25,506		26,000
Pre-tax earnings	\$	3,987	\$	2,756	\$	13,140	\$	8,485
Net earnings to common	\$	2,780	\$	1,882	\$	9,602	\$	6,040
Average common equity	\$	107,022	\$	105,345	\$	106,470	\$	105,834
Return on average common equity		10.4%		7.1%		12.0%		7.6%

Net revenues in our segments include allocations of interest income and expense to specific positions in relation to the cash generated by, or funding requirements of, such positions. See Note 25 to the consolidated financial statements for further information about our business segments.

The allocation of common shareholders' equity and preferred stock dividends to each segment is based on the estimated amount of equity required to support the activities of the segment under relevant regulatory capital requirements. Net earnings for each segment is calculated by applying the firmwide tax rate to each segment's pre-tax earnings.

Compensation and benefits expenses within our segments reflect, among other factors, our overall performance, as well as the performance of individual businesses. Consequently, pre-tax margins in one segment of our business may be significantly affected by the performance of our other business segments. A description of segment operating results follows.

### **Global Banking & Markets**

Global Banking & Markets generates revenues from the following:

Investment banking fees. We provide advisory and underwriting services and help companies raise capital to strengthen and grow their businesses. Investment banking fees includes the following:

- Advisory. Includes strategic advisory assignments with respect to mergers and acquisitions, divestitures, corporate defense activities, restructurings and spin-offs.
- Underwriting. Includes public offerings and private placements in both local and cross-border transactions of a wide range of securities and other financial instruments, including acquisition financing.

FICC. FICC generates revenues from intermediation and financing activities.

• FICC intermediation. Includes client execution activities related to making markets in both cash and derivative instruments, as detailed below.

Interest Rate Products. Government bonds (including inflation-linked securities) across maturities, government-backed securities, and interest rate swaps, options and other derivatives.

**Credit Products.** Investment-grade and high-yield corporate securities, credit derivatives, exchange-traded funds (ETFs), bank and bridge loans, municipal securities, distressed debt and trade claims.

**Mortgages.** Commercial mortgage-related securities, loans and derivatives, residential mortgage-related securities, loans and derivatives (including U.S. government agency-issued collateralized mortgage obligations and other securities and loans), and other asset-backed securities, loans and derivatives.

Currencies. Currency options, spot/forwards and other derivatives on G-10 currencies and emerging-market products.

Commodities. Commodity derivatives and, to a lesser extent, physical commodities, involving crude oil and petroleum products, natural gas, agricultural, base, precious and other metals, electricity, including renewable power, environmental products and other commodity products.

• **FICC financing.** Includes (i) secured lending to our clients through structured credit and asset-backed lending, including warehouse loans backed by mortgages (including residential and commercial mortgage loans), corporate loans and consumer loans (including auto loans and private student loans), (ii) financing through securities purchased under agreements to resell (resale agreements) and (iii) commodity financing to clients through structured transactions.

**Equities.** Equities generates revenues from intermediation and financing activities.

- Equities intermediation. We make markets in equity securities and equity-related products, including ETFs, convertible securities, options, futures and OTC derivative instruments. We also structure and make markets in derivatives on indices, industry sectors, financial measures and individual company stocks. Our exchange-based market-making activities include making markets in stocks and ETFs, futures and options on major exchanges worldwide. In addition, we generate commissions and fees from executing and clearing institutional client transactions on major stock, options and futures exchanges worldwide, as well as OTC transactions.
- Equities financing. Includes prime financing, which provides financing to our clients for their securities trading activities through margin loans that are collateralized by securities, cash or other collateral. Prime financing also includes services which involve lending securities to cover institutional clients' short sales and borrowing securities to cover our short sales and to make deliveries into the market. We are also an active participant in broker-tobroker securities lending and third-party agency lending activities. In addition, we execute swap transactions to provide our clients with exposure to securities and indices. Financing activities also include portfolio financing, which clients can utilize to manage their investment portfolios, and other equity financing activities, including securitiesbased loans to individuals.

### Market-Making Activities

As a market maker, we facilitate transactions in both liquid and less liquid markets, primarily for institutional clients, such as corporations, financial institutions, investment funds and governments, to assist clients in meeting their investment objectives and in managing their risks. In this role, we seek to earn the difference between the price at which a market participant is willing to sell an instrument to us and the price at which another market participant is willing to buy it from us, and vice versa (i.e., bid/offer spread). In addition, we maintain (i) market-making positions, typically for a short period of time, in response to, or in anticipation of, client demand, and (ii) positions to actively manage our risk exposures that arise from these market-making activities (collectively, inventory). Our inventory is recorded in trading assets (long positions) or trading liabilities (short positions) in our consolidated balance sheets.

Our results are influenced by a combination of interconnected drivers, including (i) client activity levels and transactional bid/offer spreads (collectively, client activity), and (ii) changes in the fair value of our inventory and interest income and interest expense related to the holding, hedging and funding of our inventory (collectively, market-making inventory changes). Due to the integrated nature of our market-making activities, disaggregation of net revenues into client activity and market-making inventory changes is judgmental and has inherent complexities and limitations.

The amount and composition of our net revenues vary over time as these drivers are impacted by multiple interrelated factors affecting economic and market conditions, including volatility and liquidity in the market, changes in interest rates, currency exchange rates, credit spreads, equity prices and commodity prices, investor confidence, and other macroeconomic concerns and uncertainties.

In general, assuming all other market-making conditions remain constant, increases in client activity levels or bid/offer spreads tend to result in increases in net revenues, and decreases tend to have the opposite effect. However, changes in market-making conditions can materially impact client activity levels and bid/offer spreads, as well as the fair value of our inventory. For example, a decrease in liquidity in the market could have the impact of (i) increasing our bid/offer spread, (ii) decreasing investor confidence and thereby decreasing client activity levels, and (iii) widening of credit spreads on our inventory positions.

Other. We lend to corporate clients, including through relationship lending and acquisition financing. The hedges related to this lending and financing activity are also reported as part of Other. Other also includes equity and debt investing activities related to our Global Banking & Markets activities.

The table below presents our Global Banking & Markets assets.

	As of					
	September	December				
\$ in millions	2024	2023				
Cash and cash equivalents	\$ 108,766	\$ 168,857				
Collateralized agreements	398,018	401,554				
Customer and other receivables	125,997	117,633				
Trading assets	529,456	435,275				
Investments	160,103	122,350				
Loans	129,080	117,464				
Other assets	19,822	18,114				
Total	\$ 1,471,242	\$ 1,381,247				

The table below presents details about our Global Banking & Markets loans.

	As of					
	S	December				
\$ in millions		2024	2023			
Corporate	\$	24,306	\$ 24,159			
Real estate		36,203	34,813			
Securities-based		4,057	3,758			
Other collateralized		65,588	55,527			
Installment		89	173			
Other		146	475			
Loans, gross		130,389	118,905			
Allowance for loan losses		(1,309)	(1,441)			
Total loans	\$	129,080	\$ 117,464			

Our average Global Banking & Markets gross loans were \$128.38 billion for the three months ended September 2024, \$109.89 billion for the three months ended September 2023, \$124.96 billion for the nine months ended September 2024 and \$109.75 billion for the nine months ended September 2023.

The table below presents our Global Banking & Markets operating results.

		Months eptember		Months eptember
\$ in millions	2024	2023	2024	2023
Advisory	\$ 875	\$ 831	\$ 2,574	\$ 2,294
Equity underwriting	385	308	1,178	901
Debt underwriting	605	415	1,926	1,369
Investment banking fees	1,865	1,554	5,678	4,564
FICC intermediation	2,013	2,654	7,814	8,023
FICC financing	949	730	2,651	2,003
FICC	2,962	3,384	10,465	10,026
Equities intermediation	2,209	1,713	5,984	4,987
Equities financing	1,291	1,248	3,996	3,955
Equities	3,500	2,961	9,980	8,942
Other	227	110	341	110
Net revenues	8,554	8,009	26,464	23,642
Provision for credit losses	54	29	95	214
Operating expenses	4,969	4,791	15,197	13,702
Pre-tax earnings	3,531	3,189	11,172	9,726
Provision for taxes	878	806	2,529	2,266
Net earnings	2,653	2,383	8,643	7,460
Preferred stock dividends	163	133	438	352
Net earnings to common	\$ 2,490	\$ 2,250	\$ 8,205	\$ 7,108
Average common equity	\$76,039	\$72,517	\$75,575	\$70,968
Return on average common equity	13.1%	12.4%	14.5%	13.4%

The table below presents our FICC and Equities net revenues by line item in the consolidated statements of earnings.

\$ in millions		FICC	Е	quities
Three Months Ended September 2024				
Market making	\$	1,855	\$	2,150
Commissions and fees		-		1,110
Other principal transactions		229		3
Net interest income		878		237
Total	\$	2,962	\$	3,500
Three Months Ended September 2023				
Market making	\$	3,060	\$	1,898
Commissions and fees		_		882
Other principal transactions		243		29
Net interest income		81		152
Total	\$	3,384	\$	2,961
Nine Months Ended September 2024				
Market making	\$	7,578	\$	6.644
Commissions and fees	·	_	Ċ	3.184
Other principal transactions		712		40
Net interest income		2,175		112
Total	\$1	10,465	\$	9,980
Nine Months Ended September 2023				
Market making	\$	8,945	\$	5,797
Commissions and fees		_		2,807
Other principal transactions		480		76
Net interest income		601		262
Total	\$ ^	10,026	\$	8,942

#### In the table above:

- See "Net Revenues" for information about market making revenues, commissions and fees, other principal transactions revenues and net interest income. See Note 25 to the consolidated financial statements for net interest income by segment.
- The primary driver of net revenues for FICC intermediation for all periods was client activity.
- The increase in net interest income across FICC and Equities for the third quarter of 2024 compared with the third quarter of 2023 reflected an increase in interestearning assets. Due to the nature of activities within FICC and Equities and the composition of their associated balance sheet, we assess the performance of these businesses based on total net revenues, as offsets can occur across revenue line items. For example, cash instruments that generate interest income are in some cases hedged or funded by derivatives for which changes in fair value are reflected in market making revenues. Also, certain activities produce market making revenues but incur interest expense related to the funding of the related inventory.

The table below presents our financial advisory and underwriting transaction volumes.

		Three Months			Nine Months				
	Er	Ended September			Er	nded S	ept	ember	
\$ in billions		2024		2023		2024		2023	
Announced mergers and acquisitions	\$	213	\$	240	\$	704	\$	545	
Completed mergers and acquisitions	\$	178	\$	317	\$	676	\$	677	
Equity and equity-related offerings	\$	14	\$	12	\$	44	\$	33	
Debt offerings	\$	72	\$	41	\$	228	\$	172	

### In the table above:

- Volumes are per Dealogic.
- Announced and completed mergers and acquisitions volumes are based on full credit to each of the advisors in a transaction. Equity and equity-related and debt offerings are based on full credit for single book managers and equal credit for joint book managers. Transaction volumes may not be indicative of net revenues in a given period. In addition, transaction volumes for prior periods may vary from amounts previously reported due to the subsequent withdrawal or a change in the value of a transaction.
- Equity and equity-related offerings includes Rule 144A and public common stock offerings, convertible offerings and rights offerings.
- Debt offerings includes non-convertible preferred stock, mortgage-backed securities, asset-backed securities and taxable municipal debt. It also includes publicly registered and Rule 144A issues and excludes leveraged loans.

**Operating Environment.** During the third quarter of 2024, Global Banking & Markets operated in an environment generally characterized by continued broad macroeconomic concerns, including concerns and uncertainty about inflation, prolonged geopolitical stresses, central bank policy and the potential outcomes of national elections.

In investment banking, industry-wide completed mergers and acquisitions transactions, as well as industry-wide debt and industry-wide equity underwriting volumes, declined compared with the second quarter of 2024.

In interest rates, the yields on 10-year U.S. and U.K. government bonds decreased during the quarter. In equities, both the S&P 500 Index and the MSCI World Index increased by 6% compared with the end of the second quarter of 2024.

In the future, if market and economic conditions deteriorate, and market-making activity levels decline or investment banking activity levels continue to decline, or credit spreads related to hedges on our relationship lending portfolio tighten, net revenues in Global Banking & Markets would likely be negatively impacted. In addition, if economic conditions deteriorate or if the creditworthiness of borrowers deteriorates, provision for credit losses would likely be negatively impacted.

Three Months Ended September 2024 versus September 2023. Net revenues in Global Banking & Markets were \$8.55 billion for the third quarter of 2024, 7% higher than the third quarter of 2023.

Investment banking fees were \$1.87 billion, 20% higher than the third quarter of 2023, primarily reflecting significantly higher net revenues in Debt underwriting, driven by leveraged finance and investment-grade activity, and higher net revenues in Equity underwriting, driven by secondary offerings. Net revenues in Advisory were slightly higher.

As of September 2024, our Investment banking fees backlog increased compared with June 2024, due to higher estimated net revenues from potential advisory transactions.

Our backlog represents an estimate of our net revenues from future transactions where we believe that future revenue realization is more likely than not. We believe changes in our backlog may be a useful indicator of client activity levels which, over the long term, impact our net revenues. However, the time frame for completion and corresponding revenue recognition of transactions in our backlog varies based on the nature of the assignment, as certain transactions may remain in our backlog for longer periods of time. In addition, our backlog is subject to certain limitations, such as assumptions about the likelihood that individual client transactions will occur in the future. Transactions may be cancelled or modified, and transactions not included in the estimate may also occur.

Net revenues in FICC were \$2.96 billion, 12% lower than the third quarter of 2023, reflecting significantly lower net revenues in FICC intermediation, due to significantly lower net revenues in interest rate products and commodities, partially offset by significantly higher net revenues in currencies and credit products and higher net revenues in mortgages. This decrease was partially offset by significantly higher net revenues in FICC financing, primarily driven by mortgages and structured lending.

The decrease in FICC intermediation net revenues reflected the impact of less favorable market-making conditions on our inventory. The following provides information about our FICC intermediation net revenues by business, compared with results for the third quarter of 2023:

- Net revenues in interest rate products and commodities reflected the impact of less favorable market-making conditions on our inventory.
- Net revenues in currencies and mortgages primarily reflected the impact of improved market-making conditions on our inventory.
- Net revenues in credit products reflected higher client activity.

Net revenues in Equities were \$3.50 billion, 18% higher than the third quarter of 2023, primarily reflecting significantly higher net revenues in Equities intermediation in both derivatives and cash products. Net revenues in Equities financing were slightly higher.

Net revenues in Other were \$227 million for the third quarter of 2024, compared with \$110 million for the third quarter of 2023, primarily reflecting higher net gains from direct investments.

Provision for credit losses was \$54 million for the third quarter of 2024, compared with \$29 million for the third quarter of 2023. Provisions for the third quarter of 2024 primarily reflected growth in the loan portfolio. Provisions for the third quarter of 2023 reflected impairments on loans, offset by a reserve reduction based on increased stability in the macroeconomic environment.

Operating expenses were \$4.97 billion for the third quarter of 2024, 4% higher than the third quarter of 2023, primarily due to higher transaction based expenses. Pre-tax earnings were \$3.53 billion for the third quarter of 2024, 11% higher than the third quarter of 2023.

Nine Months Ended September 2024 versus September 2023. Net revenues in Global Banking & Markets were \$26.46 billion for the first nine months of 2024, 12% higher than the first nine months of 2023.

Investment banking fees were \$5.68 billion, 24% higher than the first nine months of 2023, reflecting significantly higher net revenues in Debt underwriting, primarily driven by leveraged finance activity, significantly higher net revenues in Equity underwriting, primarily from secondary and initial public offerings, and higher net revenues in Advisory, reflecting an increase in completed mergers and acquisitions transactions.

As of September 2024, our Investment banking fees backlog increased compared with December 2023, due to higher estimated net revenues from potential advisory transactions and significantly higher estimated net revenues from potential debt underwriting transactions (primarily from leveraged finance transactions), partially offset by significantly lower estimated net revenues from potential equity underwriting transactions (primarily from initial public offerings).

Net revenues in FICC were \$10.47 billion, 4% higher than the first nine months of 2023, reflecting significantly higher net revenues in FICC financing, primarily driven by mortgages and structured lending. This increase was partially offset by slightly lower net revenues in FICC intermediation, due to lower net revenues in interest rate products and significantly lower net revenues in commodities, largely offset by significantly higher net revenues in currencies and mortgages and higher net revenues in credit products.

The decrease in FICC intermediation net revenues reflected lower client activity, largely offset by the impact of improved market-making conditions on our inventory. The following provides information about our FICC intermediation net revenues by business, compared with results for the first nine months of 2023:

- Net revenues in interest rate products and commodities primarily reflected lower client activity.
- Net revenues in currencies, mortgages and credit products reflected the impact of improved market-making conditions on our inventory.

Net revenues in Equities were \$9.98 billion, 12% higher than the first nine months of 2023, reflecting significantly higher net revenues in Equities intermediation, due to significantly higher net revenues in derivatives and higher net revenues in cash products. Net revenues in Equities financing were essentially unchanged.

Net revenues in Other were \$341 million for the first nine months of 2024, compared with \$110 million for the first nine months of 2023, primarily reflecting higher net revenues from relationship lending.

Provision for credit losses was \$95 million for the first nine months of 2024, compared with \$214 million for the first nine months of 2023. Provisions for the first nine months of 2023 primarily reflected net provisions related to the commercial real estate portfolio.

Operating expenses were \$15.20 billion for the first nine months of 2024, 11% higher than the first nine months of 2023, primarily due to higher compensation and benefits expenses (reflecting improved operating performance) and higher transaction based expenses. Pre-tax earnings were \$11.17 billion for the first nine months of 2024, 15% higher than the first nine months of 2023.

### **Asset & Wealth Management**

Asset & Wealth Management provides investment services to help clients preserve and grow their financial assets and achieve their financial goals. We provide these services to our clients, both institutional and individuals, including investors who primarily access our products through a network of third-party distributors around the world.

We manage client assets across a broad range of investment strategies and asset classes, including equity, fixed income and alternative investments. We provide investment solutions, including those managed on a fiduciary basis by our portfolio managers, as well as those managed by third-party managers. We offer our investment solutions in a variety of structures, including separately managed accounts, mutual funds, private partnerships and other commingled vehicles.

We also provide tailored wealth advisory services to clients across the wealth spectrum. We operate globally, serving individuals, families, family offices, and foundations and endowments. Our relationships are established directly or introduced through companies that sponsor financial wellness or financial planning programs for their employees, as well as through corporate referrals.

We offer personalized financial planning to individuals and also provide customized investment advisory solutions, and offer structuring and execution capabilities in securities and derivative products across all major global markets. In addition, we offer clients a full range of private banking services, including a variety of deposit alternatives and loans that our clients use to finance investments in both financial and nonfinancial assets, bridge cash flow timing gaps or provide liquidity and flexibility for other needs. We also accept deposits through Marcus.

We invest alongside our clients that invest in investment funds that we raise or manage. We also have investments in alternative assets across a range of asset classes. Our investing activities, which are typically longer-term, include investments in corporate equity, credit, real estate and infrastructure assets.

Asset & Wealth Management generates revenues from the following:

- Management and other fees. We receive fees related to managing assets for institutional and individual clients, providing investing and wealth advisory solutions, providing financial planning and counseling services, and executing brokerage transactions for wealth management clients. The vast majority of revenues in management and other fees consists of asset-based fees on client assets that we manage. For further information about assets under supervision, see "Assets Under Supervision" below. The fees that we charge vary by asset class, client channel and the types of services provided, and are affected by investment performance, as well as asset inflows and redemptions.
- **Incentive fees.** In certain circumstances, we also receive incentive fees based on a percentage of a fund's or a separately managed account's return, or when the return exceeds a specified benchmark or other performance targets. Such fees include overrides, which consist of the increased share of the income and gains derived primarily from our private equity and credit funds when the return on a fund's investments over the life of the fund exceeds certain threshold returns.
- Private banking and lending. Our private banking and lending activities include issuing loans to our wealth management clients. We also accept deposits from wealth management clients, including through Marcus. Private banking and lending revenues include net interest income allocated to deposits and net interest income earned on loans to individual clients.
- **Equity investments.** Includes investing activities related to our asset management activities primarily related to public and private equity investments in corporate, real estate and infrastructure assets. We also make investments through CIEs, substantially all of which are engaged in real estate investment activities. In addition, we make investments in connection with our activities to satisfy requirements under the Community Reinvestment Act, primarily through our Urban Investment Group.
- **Debt investments.** Includes lending activities related to our asset management activities, including investing in corporate debt, lending to middle-market clients, and providing financing for real estate and other assets. These activities include investments in mezzanine debt, senior debt and distressed debt securities.

The table below presents our Asset & Wealth Management assets.

	As of				
	S	Decembe			
\$ in millions		2024		2023	
Cash and cash equivalents	\$	32,692	\$	48,677	
Collateralized agreements		13,003		14,020	
Customer and other receivables		18,847		14,859	
Trading assets		49,349		27,324	
Investments		23,554		24,487	
Loans		45,104		45,866	
Other assets		13,911		16,630	
Total	\$	196,460	\$	191,863	

The table below presents details about our Asset & Wealth Management loans.

	As of				
	September				
\$ in millions		2024		2023	
Corporate	\$	8,513	\$	11,715	
Real estate		17,228		16,603	
Securities-based		11,957		10,863	
Other collateralized		7,108		6,698	
Other		1,291		1,121	
Loans, gross		46,097		47,000	
Allowance for loan losses		(993)		(1,134)	
Total loans	\$	45,104	\$	45,866	

In the table above, gross loans included \$36 billion of loans as of September 2024 and \$33 billion of loans as of December 2023 that were related to Private banking and lending.

The average Asset & Wealth Management gross loans were \$45.14 billion for the three months ended September 2024, \$49.61 billion for the three months ended September 2023, \$45.67 billion for the nine months ended September 2024 and \$53.26 billion for the nine months ended September 2023.

The table below presents our Asset & Wealth Management operating results.

	Three Months Ended September			Months eptember	
\$ in millions	2024	2023	2024	2023	
Management and other fees	\$ 2,619	\$ 2,405	\$ 7,607	\$ 7,041	
Incentive fees	85	24	219	102	
Private banking and lending	756	687	2,145	1,915	
Equity investments	116	(212)	630	(496)	
Debt investments	178	326	820	931	
Net revenues	3,754	3,230	11,421	9,493	
Provision for credit losses	(109)	51	(189)	(499)	
Operating expenses	2,848	3,005	8,819	9,448	
Pre-tax earnings	1,015	174	2,791	544	
Provision for taxes	248	45	632	127	
Net earnings	767	129	2,159	417	
Preferred stock dividends	40	36	106	99	
Net earnings to common	\$ 727	\$ 93	\$ 2,053	\$ 318	
Average common equity	\$26,475	\$ 28,601	\$26,348	\$30,806	
Return on average common equity	11.0%	1.3%	10.4%	1.4%	

In the table above, Management and other fees included fees from alternatives of \$527 million for the three months ended September 2024, \$542 million for the three months ended September 2023, and \$1.56 billion for both the nine months ended September 2024 and September 2023.

Our target is to achieve annual firmwide management and other fees of more than \$10 billion in 2024. This includes more than \$2 billion from alternatives, which was surpassed in 2023.

Our target is to achieve pre-tax margins in the mid-twenties and ROE in the mid-teens within the medium term (three to five year time horizon from year-end 2022) for Asset & Wealth Management. The pre-tax margin for Asset & Wealth Management was 24% for the first nine months of 2024.

The table below presents our Asset management and Wealth management net revenues by line item in Asset & Wealth Management.

Wealth Asset & Wealth

		Asset		VVealth	Α	Asset & Wealth
\$ in millions	r	management		management		Management
Three Months Ended Septe	ml	oer 2024				
Management and other fees	\$	1,179	\$	1,440	\$	2,619
Incentive fees		85		_		85
Private banking and lending		_		756		756
Equity investments		116		_		116
Debt investments		178		_		178
Total	\$	1,558	\$	2,196	\$	3,754
Three Months Ended Septem	nbe	r 2023				
Management and other fees		1,052	\$	1,353	\$	2,405
Incentive fees	Ψ	24	Ψ	1,000	Ψ	24
Private banking and lending				687		687
Equity investments		(212)		-		(212)
Debt investments		326		_		326
Total	\$	1,190	\$	2,040	\$	3,230
Nine Months Ended Septer	nb			, , , , ,		-,
Management and other fees			\$	4,216	\$	7,607
Incentive fees	Ф	219	Φ	4,210	Þ	7,607 219
Private banking and lending		213		2,145		2,145
Equity investments		628		2,143		630
Debt investments		820		_		820
Total	\$	5,058	\$	6,363	\$	11,421
	201		Ť	-,,,,,,,	Ť	,
Nine Months Ended Septeml						
Management and other fees	\$	3,114	\$	3,927	\$	7,041
Incentive fees		102		-		102
Private banking and lending				1,915		1,915
Equity investments		(496)		_		(496)
Debt investments		931	_		_	931
Total	\$	3,651	\$	5,842	\$	9,493

The table below presents our Equity investments net revenues by equity type and asset class.

		Three M	onths		Nine Mor	nths
	E	nded Sep	tember	E	nded Sept	ember
\$ in millions		2024	2023		2024	2023
Equity Type						
Private equity	\$	42 \$	(170)	\$	746 \$	(440)
Public equity		74	(42)		(116)	(56)
Total	\$	116 \$	(212)	\$	630 \$	(496)
Asset Class						
Real estate	\$	(60) \$	(129)	\$	192 \$	(369)
Corporate		176	(83)		438	(127)
Total	\$	116 \$	(212)	\$	630 \$	(496)

The table below presents details about our Debt investments net revenues.

	_	Three Mon		_	Nine Mo	
		nded Septe	mper		nded Sept	ember
\$ in millions		2024	2023		2024	2023
Fair value net gains/(losses)	\$	(63) \$	(2)	\$	41 \$	(146)
Net interest income		241	328		779	1,077
Total	\$	178 \$	326	\$	<b>820</b> \$	931

**Operating Environment.** During the third quarter of 2024, Asset & Wealth Management operated in an environment generally characterized by continued broad macroeconomic concerns, including persistent concerns about the commercial real estate market. However, global equity and bond prices were generally higher compared with the end of the second quarter of 2024, positively affecting assets under supervision.

In the future, if market and economic conditions deteriorate, it may lead to a decline in asset prices, or investors transitioning to asset classes that typically generate lower fees or withdrawing their assets, and net revenues in Asset & Wealth Management would likely be negatively impacted.

Three Months Ended September 2024 versus September 2023. Net revenues in Asset & Wealth Management were \$3.75 billion for the third quarter of 2024, 16% higher than the third quarter of 2023, primarily reflecting net gains in Equity investments compared with net losses in the prior year period and higher Management and other fees, partially offset by significantly lower net revenues in Debt investments. In addition, net revenues in Private banking and lending and Incentive fees were higher.

The increase in Equity investments net revenues primarily reflected net gains from investments in corporate private and public equities, compared with net losses in the prior year period. The increase in Management and other fees primarily reflected the impact of higher average assets under supervision. The decrease in Debt investments net revenues primarily reflected lower net interest income due to a reduction in the debt investments balance sheet. The increase in Private banking and lending net revenues primarily reflected the impact of higher deposit balances, and the increase in Incentive fees was driven by harvesting.

Provision for credit losses was a net benefit of \$109 million for the third quarter of 2024, compared with a net provision of \$51 million for the third quarter of 2023. The net benefit for the third quarter of 2024 reflected a net benefit related to the wholesale portfolio (driven by recoveries on previously impaired loans and paydowns). Provisions for the third quarter of 2023 reflected net provisions related to wholesale loans (driven by impairments).

Operating expenses were \$2.85 billion for the third quarter of 2024, 5% lower than the third quarter of 2023, due to significantly lower expenses, including impairments, related to commercial real estate in CIEs, partially offset by higher compensation and benefits expenses (reflecting improved operating performance). Pre-tax earnings were \$1.02 billion for the third quarter of 2024, compared with \$174 million for the third quarter of 2023.

Nine Ended September 2024 Months versus **September 2023.** Net revenues in Asset & Wealth Management were \$11.42 billion for the first nine months of 2024, 20% higher than the first nine months of 2023, primarily reflecting net gains in Equity investments compared with net losses in the prior year period, higher Management and other fees and higher net revenues in Private banking and lending. In addition, Incentive fees were higher, while net revenues in Debt investments were lower.

The increase in Equity investments net revenues reflected net gains from investments in corporate private equities and real estate, compared with net losses in the prior year period. The increase in Management and other fees primarily reflected higher average assets under supervision. The increase in Private banking and lending net revenues primarily reflected the impact of the sale of the Marcus loan portfolio in 2023 (including net revenues of approximately \$(370) million related to the sale of substantially all of the portfolio). The increase in Incentive fees was driven by harvesting. The decrease in Debt investments net revenues reflected significantly lower net interest income due to a reduction in the debt investments balance sheet, partially offset by net gains in the current period compared with net losses (particularly from real estate investments) in the prior year period.

Provision for credit losses was a net benefit of \$189 million for the first nine months of 2024, compared with a net benefit of \$499 million for the first nine months of 2023. The net benefit for the first nine months of 2024 reflected a net benefit related to the wholesale portfolio (driven by paydowns). The net benefit for the first nine months of 2023 reflected reserve reductions related to the sale of substantially all of the Marcus loan portfolio and lower balances in corporate loans, partially offset by impairments.

Operating expenses were \$8.82 billion for the first nine months of 2024, 7% lower than the first nine months of 2023, due to significantly lower expenses, including impairments, related to commercial real estate in CIEs, partially offset by higher compensation and benefits expenses (reflecting improved operating performance). Pre-tax earnings were \$2.79 billion for the first nine months of 2024, compared with \$544 million for the first nine months of 2023.

Assets Under Supervision. AUS includes our institutional clients' assets, assets sourced through third-party distributors and high-net-worth clients' assets where we earn a fee for managing assets on a discretionary basis. This includes net assets in our mutual funds, hedge funds, credit funds, private equity funds, real estate funds, and separately managed accounts for institutional and individual investors. AUS also includes client assets invested with third-party managers, private bank deposits and advisory relationships where we earn a fee for advisory and other services, but do not have investment discretion. AUS does not include the self-directed brokerage assets of our clients.

The table below presents information about our firmwide period-end AUS by asset class, client channel, region and vehicle.

	_As of Se	ptember
\$ in billions	2024	2023
Asset Class		
Alternative investments	\$ 328	\$ 267
Equity	780	607
Fixed income	1,220	1,031
Total long-term AUS	2,328	1,905
Liquidity products	775	775
Total AUS	\$ 3,103	\$ 2,680
Client Channel		
	A 4 400	Φ 004
Institutional	\$ 1,126	
Wealth management	913	771
Third-party distributed	1,064	985
Total AUS	\$ 3,103	\$ 2,680
Region		
Americas	\$ 2,171	\$ 1,914
EMEA	712	572
Asia	220	194
Total AUS	\$ 3,103	
Total AUS	φ 3,103	\$ 2,000
Vehicle		
Separate accounts	\$ 1,723	\$ 1,428
Public funds	962	891
Private funds and other	418	361
Total AUS	\$ 3,103	\$ 2,680

In the table above:

- Liquidity products includes money market funds and private bank deposits.
- EMEA represents Europe, Middle East and Africa.

Total wealth management client assets (consisting of AUS, brokerage assets and Marcus deposits) were approximately \$1.6 trillion as of September 2024.

The table below presents changes in our AUS.

	Three N Ended Se			Months eptember	
\$ in billions	2024	2023	2024	2023	
Beginning balance	\$ 2,934	\$2,714	\$ 2,812	\$ 2,547	
Net inflows/(outflows):					
Alternative investments	9	2	27	2	
Equity	4	-	11	(5)	
Fixed income	16	5	46	26	
Total long-term AUS net inflows/(outflows)	29	7	84	23	
Liquidity products	37	11	38	64	
Total AUS net inflows/(outflows)	66	18	122	87	
Net market appreciation/(depreciation)	103	(52)	169	46	
Ending balance	\$ 3,103	\$2,680	\$ 3,103	\$ 2,680	

During the third quarter of 2024, our AUS increased \$169 billion due to net market appreciation, primarily in fixed income and equity assets, and net inflows across all asset classes, particularly in liquidity products and fixed income assets. During the first nine months of 2024, our AUS increased \$291 billion due to net market appreciation, primarily in equity and fixed income assets, and net inflows across all asset classes.

The table below presents information about our total AUS net inflows/(outflows) by client channel.

		Three I	Mor	nths		Nine N	/lon	ths
	E	nded Se	epte	ember	E	nded Se	epte	ember
\$ in billions		2024		2023		2024		2023
Institutional	\$	13	\$	(1)	\$	42	\$	(6)
Wealth management		17		11		43		26
Third-party distributed		36		8		37		67
Total AUS net inflows/(outflows)	\$	66	\$	18	\$	122	\$	87

The table below presents information about our average monthly firmwide AUS by asset class.

		Average	e for the	
	Three Mor	Nine Months		
	Ended Septe	ember	Ended Sept	ember
\$ in billions	2024	2023	2024	2023
Asset Class				
Alternative investments	<b>\$ 322</b> \$	267	\$ 308 \$	266
Equity	757	628	718	606
Fixed income	1,185	1,054	1,154	1,044
Total long-term AUS	2,264	1,949	2,180	1,916
Liquidity products	751	768	733	748
Total AUS	\$ 3,015 \$	2,717	\$2,913 \$	2,664

In addition to our AUS, we have discretion over alternative investments where we currently do not earn management fees (non-fee-earning alternative assets).

We earn management fees on client assets that we manage and also receive incentive fees based on a percentage of a fund's or a separately managed account's return, or when the return exceeds a specified benchmark or other performance targets. These incentive fees are recognized when it is probable that a significant reversal of such fees will not occur. Our estimated unrecognized incentive fees were \$4.00 billion as of September 2024 and \$3.77 billion as of December 2023. Such amounts are based on the completion of the funds' financial statements, which is generally one quarter in arrears. These fees will be recognized, assuming no decline in fair value, if and when it is probable that a significant reversal of such fees will not occur, which is generally when such fees are no longer subject to fluctuations in the market value of the assets.

The table below presents our average effective management fee (which excludes non-asset-based fees) earned on our firmwide AUS by asset class.

	Three Mo Ended Sep	Nine Months Ended Septembe		
Effective fees (bps)	2024	2023	2024	2023
Alternative investments	62	65	62	65
Equity	55	57	55	58
Fixed income	17	17	17	18
Liquidity products	15	15	15	15
Total average effective fee	31	31	31	31

The table below presents details about our monthly average AUS for alternative investments and the average effective management fee we earned on such assets.

	Direct		Fund of		
\$ in billions	strategies		funds		Total
Three Months Ended September 2024					
Average AUS					
Corporate equity \$	34	\$	87	\$	121
Credit	49		13		62
Real estate	13 45		17 27		30 72
Hedge funds and other  Funds and discretionary accounts \$		\$	144	\$	285
Advisory accounts	171	Ψ	1-1-1	Ψ	37
Total average AUS for alternative investment	nents			\$	322
Effective Fees (bps)					
Corporate equity	121		56		75
Credit Real estate	83 82		13 33		71 54
Hedge funds and other	68		33 48		60
Funds and discretionary accounts	87		48		68
Advisory accounts					17
Total average effective fee					62
Three Months Ended September 2023					
Average AUS					
Corporate equity \$	29	\$	69	\$	98
Credit Real estate	44 11		2 9		46 20
Hedge funds and other	42		22		64
Funds and discretionary accounts \$		\$	102	\$	228
Advisory accounts					39
Total average AUS for alternative investmen	ts			\$	267
Effective Fees (bps)	100		60		00
Corporate equity Credit	123 79		62 40		80 77
Real estate	84		42		66
Hedge funds and other	68		54		63
Funds and discretionary accounts	86		58		73
Advisory accounts					17
Total average effective fee					65
Nine Months Ended September 2024					
Nine Months Ended September 2024 Average AUS	22	•	82	•	65
Nine Months Ended September 2024	33 48	\$	82 11	\$	
Nine Months Ended September 2024  Average AUS  Corporate equity \$		\$		\$	65 <b>115</b>
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit	48	\$	11	\$	115 59
Nine Months Ended September 2024  Average AUS  Corporate equity \$ Credit  Real estate  Hedge funds and other  Funds and discretionary accounts \$	48 13	\$	11 14	\$	115 59 27 68 269
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts	48 13 44 138		11 14 24	\$	65 115 59 27 68 269 39
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment	48 13 44 138		11 14 24		115 59 27 68 269
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts	48 13 44 138		11 14 24	\$	65 115 59 27 68 269 39
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps)	48 13 44 138		11 14 24 131	\$	65 115 59 27 68 269 39 308
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity  Credit  Real estate	48 13 44 138 ts		11 14 24 131 57 13 31	\$	65 115 59 27 68 269 39 308 75 71 57
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other	48 13 44 138 ts 120 82 87 67		11 14 24 131 57 13 31 51	\$	65 115 59 27 68 269 39 308 75 71 57 61
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts	48 13 44 138 ts 120 82 87		11 14 24 131 57 13 31	\$	65 115 59 27 68 269 39 308 75 71 57 61 69
Nine Months Ended September 2024  Average AUS  Corporate equity \$ Credit Real estate Hedge funds and other Funds and discretionary accounts \$ Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts Advisory accounts	48 13 44 138 ts 120 82 87 67		11 14 24 131 57 13 31 51	\$	65 115 59 27 68 269 39 308 75 71 57 61 69
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Advisory accounts	48 13 44 138 ts 120 82 87 67		11 14 24 131 57 13 31 51	\$	65 115 59 27 68 269 39 308 75 71 57 61 69
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average effective fee Nine Months Ended September 2023	48 13 44 138 ts 120 82 87 67		11 14 24 131 57 13 31 51	\$	65 115 59 27 68 269 39 308 75 71 57 61 69
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Advisory accounts	48 13 44 138 ts 120 82 87 67 87		11 14 24 131 57 13 31 51	\$	65 115 59 27 68 269 39 308 75 71 57 61 69
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit	48 13 44 138 ts 120 82 87 67 87	\$	11 14 24 131 57 13 31 51 49	\$	65 115 59 27 68 269 39 308 75 71 57 61 69 16 62
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Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average effective fee  Nine Months Ended September 2023  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other	48 13 44 138 ts 120 82 87 67 87 29 43 11 42	\$	11 14 24 131 57 13 31 51 49 69 2 8 22	<b>\$</b>	65 115 59 27 68 269 308 75 71 57 61 69 16 62
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average effective fee Nine Months Ended September 2023  Average AUS  Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts	48 13 44 138 ts 120 82 87 67 87 29 43 11 42	\$	11 14 24 131 57 13 31 51 49	\$	65 115 59 27 68 269 39 308 75 71 57 61 69 16 62
Nine Months Ended September 2024  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps)  Corporate equity  Credit  Real estate  Hedge funds and other  Funds and discretionary accounts  Advisory accounts  Total average effective fee  Nine Months Ended September 2023  Average AUS  Corporate equity  Credit  Real estate  Hedge funds and other	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125	\$	11 14 24 131 57 13 31 51 49 69 2 8 22	<b>\$</b>	65 115 59 27 68 269 308 75 71 57 61 69 16 62
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other  Source of the Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  Sadvisory accounts  Sadvisory accounts  Sadvisory accounts	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125	\$	11 14 24 131 57 13 31 51 49 69 2 8 22	<b>\$ \$</b> \$ \$	65 115 59 27 68 269 39 308 75 71 57 61 69 16 62
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Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125	\$	11 14 24 131 57 13 31 51 49 69 2 8 22 101	<b>\$ \$</b> \$ \$	65 115 59 27 68 269 39 308 75 71 57 61 69 16 62 98 45 19 64 226 41 267
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  \$Advisory accounts  Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125 ts	\$	11 14 24 131 57 13 31 51 49 2 8 22 101	<b>\$ \$</b> \$ \$	65 115 59 27 68 269 308 75 71 57 61 69 64 226 41 267
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts Advisory accounts  Average AUS Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  \$ Advisory accounts  Credit Real estate Hedge funds AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125 ts	\$	11 14 24 131 57 13 31 51 49 2 8 22 101	<b>\$ \$</b> \$ \$	65 115 59 27 68 269 308 75 71 57 61 69 16 62 98 45 19 64 226 41 267
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts  Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  Advisory accounts  Total average AUS for alternative investment  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125 ts	\$	11 14 24 131 57 13 31 51 49 2 8 22 101	<b>\$ \$</b> \$ \$	65 115 59 27 68 269 308 75 71 57 61 69 64 226 41 267
Nine Months Ended September 2024  Average AUS  Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts Advisory accounts Total average effective fee Nine Months Ended September 2023  Average AUS Corporate equity Credit Real estate Hedge funds and other  Funds and discretionary accounts Advisory accounts  Average AUS Corporate equity Credit Real estate Hedge funds and other Funds and discretionary accounts  \$ Advisory accounts  Credit Real estate Hedge funds AUS for alternative investmen  Effective Fees (bps) Corporate equity Credit Real estate Hedge funds and other	48 13 44 138 ts 120 82 87 67 87 29 43 11 42 125 ts	\$	11 14 24 131 57 13 31 51 49 2 8 22 101	<b>\$ \$</b> \$ \$	65 115 59 27 68 269 308 75 71 57 61 69 16 62 98 45 19 64 226 41 267 81 77 65 62 73

In the table above, direct strategies primarily includes our private equity, growth equity, private credit, liquid alternatives and real estate strategies. Fund of funds primarily includes our business which invests in leading private equity, hedge fund, real estate and credit third-party managers as a limited partner, secondary-market investor, co-investor or management company partner.

The table below presents information about our period-end AUS for alternative investments, non-fee-earning alternative investments and total alternative investments.

		Non-fee-earning	Total
		alternative	alternative
\$ in billions	AUS	assets	assets
As of September 2024			
Corporate equity	\$ 124	\$ 74	\$ 198
Credit	63	81	144
Real estate	29	25	54
Hedge funds and other	75	4	79
Funds and discretionary accounts	291	184	475
Advisory accounts	37	2	39
Total alternative investments	\$ 328	\$ 186	\$ 514
As of September 2023			
Corporate equity	\$ 98	\$ 80	\$ 178
Credit	46	75	121
Real estate	20	32	52
Hedge funds and other	64	2	66
Funds and discretionary accounts	228	189	417
Advisory accounts	39	_	39
Total alternative investments	\$ 267	\$ 189	\$ 456

In the table above:

- Corporate equity primarily includes private equity.
- Total alternative assets included uncalled capital that is available for future investing of \$61 billion as of September 2024 and \$55 billion as of September 2023.
- Non-fee-earning alternative assets primarily includes investments that we hold on our balance sheet, our unfunded commitments, unfunded commitments of our clients (where we do not charge fees on commitments), credit facilities collateralized by fund assets and employee funds. Our calculation of non-fee-earning alternative assets may not be comparable to similar calculations used by other companies.
- Non-fee-earning alternative assets primarily includes our direct investing strategies, including private equity, growth equity, private credit and real estate strategies.

We announced a strategic objective of growing our thirdparty alternatives business and established a target of achieving gross inflows of \$225 billion for alternative investments from the beginning of 2020 through the end of 2024. We surpassed this target in 2023. We also target growing our total credit alternative assets from \$130 billion as of December 2023 to \$300 billion over the next five years.

The table below presents information about third-party commitments raised in our alternatives business from the beginning of 2020 through the third quarter of 2024.

		As of
\$ in billions	Septer	nber 2024
Included in AUS	\$	221
Included in non-fee-earning alternative assets		82
Third-party commitments raised	\$	303

In the table above, commitments included in non-fee-earning alternative assets included approximately \$63 billion, which will begin to earn fees (and become AUS) if and when the commitments are drawn and assets are invested. In the third quarter of 2024, we raised \$16 billion in third-party commitments in our alternatives business, including \$6 billion in corporate equity, \$5 billion in credit, \$1 billion in real estate and \$4 billion in hedge funds and other. For the nine months ended September 2024, we have raised \$52 billion of third-party commitments in our alternatives business and expect to exceed \$60 billion in fundraising during 2024.

The table below presents information about alternative investments in Asset & Wealth Management that we hold on our balance sheet by asset type.

	As of		
	Septembe	r	December
\$ in billions	202	4	2023
Loans	\$ 9.4	1 9	12.9
Debt securities	9.4	1	10.8
Equity securities	13.4	1	13.2
CIE investments and other	6.3	3	9.3
Total	\$ 38.	5 3	\$ 46.2

The table below presents further information about our alternative investments in Asset & Wealth Management that we hold on our balance sheet.

	As of			
	Sep	otember	De	cember
\$ in billions		2024		2023
Client co-invest	\$	19.1	\$	21.3
Firmwide initiatives		8.5		8.6
Historical principal investments:				
Loans		2.0		3.5
Debt securities		2.8		3.6
Equity securities		3.6		4.0
CIE investments and other		2.5		5.2
Total historical principal investments		10.9		16.3
Total	\$	38.5	\$	46.2

In the table above:

- Client co-invest primarily includes our investments in funds that we raise and manage or where we have invested alongside the third-party investors.
- Firmwide initiatives primarily includes our investments related to the Community Reinvestment Act and our sponsored initiatives, such as One Million Black Women.

• Historical principal investments includes our remaining balance sheet alternative investments portfolio that we plan to reduce. This portfolio was approximately \$30 billion as of December 2022 and we expect to sell down the vast majority of this portfolio by the end of 2026. The impact of historical principal investments to our pre-tax earnings was \$135 million for the three months ended September 2024 and \$467 million for the nine months ended September 2024. Attributed equity associated with historical principal investments was approximately \$4.0 billion as of September 2024.

The table below presents the rollforward of our alternative investments categorized as historical principal investments for the third quarter of 2024.

		istorical
C in hillians		orincipal
\$ in billions	inve	stments
Beginning balance	\$	12.6
Additions		0.1
Dispositions		(2.0)
Net markups/(markdowns)		0.2
Ending balance	\$	10.9

The table below presents the commercial real estate investments in Asset & Wealth Management that we hold on our balance sheet.

		As of
\$ in billions	Septem	ber 2024
Loans	\$	1.5
Debt securities		0.4
Equity securities		3.7
CIE investments, net of financings		1.5
Total	\$	7.1

### In the table above:

- Office-related investments included in loans were \$0.2 billion, in debt securities were \$0.1 billion, in equity securities were \$0.3 billion, and in CIE investments, net of financings, were \$0.5 billion.
- Commercial real estate investments consisted of approximately 29% of historical principal investments.

**Loans and Debt Securities.** The table below presents the concentration of loans and debt securities within our alternative investments by accounting classification, region and industry.

	As of			
	Se	ptember	De	ecember
\$ in billions		2024		2023
Loans	\$	9.4	\$	12.9
Debt securities		9.4		10.8
Total	\$	18.8	\$	23.7
Accounting Classification				
Debt securities at fair value		50%		45%
Loans at amortized cost		47%		49%
Loans at fair value		2%		3%
Loans held for sale		1%		3%
Total		100%		100%
Region				
Americas		55%		52%
EMEA		34%		37%
Asia		11%		11%
Total		100%		100%
		10070		10070
Industry				
Consumer & Retail		12%		11%
Financial Institutions		9%		6%
Healthcare		13%		15%
Industrials		15%		18%
Natural Resources & Utilities		2%		2%
Real Estate		11%		11%
Technology, Media & Telecommunications		29%		28%
Other		9%		9%
Total		100%		100%

**Equity Securities.** The table below presents the concentration of equity securities within our alternative investments by region and industry.

	As of			
	Se	otember	Decembe	er
\$ in billions		2024	202	3
Equity securities	\$	13.4	\$ 13.	2
Region				
Americas		69%	709	%
EMEA		16%	159	%
Asia		15%	159	6
Total		100%	1009	6
Industry				
Consumer & Retail		5%	69	%
Financial Institutions		11%	119	6
Healthcare		6%	69	6
Industrials		10%	109	6
Natural Resources & Utilities		13%	139	6
Real Estate		28%	309	6
Technology, Media & Telecommunications		24%	229	6
Other		3%	29	6
Total		100%	100%	6

In the table above:

• Equity securities included \$12.4 billion as of September 2024 and \$12.1 billion as of December 2023 of private equity positions, and \$1.0 billion as of September 2024 and \$1.1 billion as of December 2023 of public equity positions that converted from private equity upon the initial public offerings of the underlying companies.

• The concentrations for real estate equity securities as of September 2024 were 14% for multifamily (13% as of December 2023), 2% for office (2% as of December 2023), 6% for mixed use (8% as of December 2023) and 6% for other real estate equity securities (7% as of December 2023).

The table below presents the concentration of equity securities within our alternative investments by vintage.

	Vintage
As of September 2024	
2017 or earlier	26%
2018 - 2020	29%
2021 - thereafter	45%
Total	100%
As of December 2023	
2016 or earlier	25%
2017 - 2019	26%
2020 - thereafter	49%
Total	100%

CIE Investments and Other. CIE investments and other included assets held by CIEs of \$3.2 billion as of September 2024 and \$5.9 billion as of December 2023, which were funded with liabilities of approximately \$1.5 billion as of September 2024 and \$3.5 billion as of December 2023. Substantially all such liabilities were nonrecourse, thereby reducing our equity at risk.

The table below presents the concentration of CIE assets, net of financings, within our alternative investments by region and asset class.

As o			of	of	
	Sep	tember	De	ecember	
\$ in billions		2024		2023	
CIE assets, net of financings	\$	1.7	\$	2.4	
Region					
Americas		60%		61%	
EMEA		29%		25%	
Asia		11%		14%	
Total		100%		100%	
Asset Class					
Hospitality		6%		6%	
Industrials		18%		16%	
Multifamily		17%		13%	
Office		30%		24%	
Retail		5%		7%	
Senior Housing		10%		15%	
Student Housing		3%		7%	
Other		11%		12%	
Total		100%		100%	

The table below presents the concentration of CIE assets, net of financings, within our alternative investments by vintage.

	Vintage
As of September 2024	
2017 or earlier	31%
2018 - 2020	43%
2021 - thereafter	26%
Total	100%
As of December 2023	
2016 or earlier	12%
2017 - 2019	57%
2020 - thereafter	31%
Total	100%

#### **Platform Solutions**

Platform Solutions includes our consumer platforms, such as partnerships offering credit cards, and transaction banking and other platform businesses.

Platform Solutions generates revenues from the following:

**Consumer platforms.** Our Consumer platforms business issues credit cards, and accepts deposits from Apple Card customers. Consumer platforms revenues primarily includes net interest income earned on credit card lending activities. See "Regulatory and Other Matters — Other Matters — Narrowing our Focus on Consumer-Related Activities" for further information.

Transaction banking and other. We provide transaction banking and other services, such as deposit-taking, payment solutions and other cash management services, for corporate and institutional clients. Transaction banking revenues include net interest income attributed to transaction banking deposits. We also have seller financing loans that were extended to small- and medium-sized retailers. See "Regulatory and Other Matters - Other Matters -Narrowing our Focus on Consumer-Related Activities" for further information.

The table below presents our Platform Solutions assets.

	As of			
	September Decen			December
\$ in millions		2024		2023
Cash and cash equivalents	\$	13,231	\$	24,043
Collateralized agreements		5,918		7,651
Customer and other receivables		77		3
Trading assets		22,460		14,911
Investments		3		2
Loans		17,565		20,028
Other assets		1,124		1,846
Total	\$	60,378	\$	68,484

The table below presents details about our Platform Solutions loans.

	As of			
	September Decem			
\$ in millions		2024		2023
Installment	\$	107	\$	3,125
Credit cards		19,908		19,361
Other		-		17
Loans, gross		20,015		22,503
Allowance for loan losses		(2,450)		(2,475)
Total loans	\$	17,565	\$	20,028

The average Platform Solutions gross loans were \$19.78 billion for the three months ended September 2024, \$23.04 billion for the three months ended September 2023, \$20.40 billion for the nine months ended September 2024 and \$20.56 billion for the nine months ended September 2023.

The table below presents our Platform Solutions operating results.

	Three Months			Nine Months		
	Er	nded Se	ptember	Ended Septemb		
\$ in millions		2024	2023	2024	2023	
Consumer platforms	\$	333	\$ 501	\$ 1,550	\$ 1,568	
Transaction banking and other		58	77	208	233	
Net revenues		391	578	1,758	1,801	
Provision for credit losses		452	(73)	1,091	736	
Operating expenses		498	1,258	1,490	2,850	
Pre-tax earnings/(loss)		(559)	(607)	(823)	(1,785)	
Provision/(benefit) for taxes		(129)	(153)	(186)	(416)	
Net earnings/(loss)		(430)	(454)	(637)	(1,369)	
Preferred stock dividends		7	7	19	17	
Net earnings/(loss) to common	\$	(437)	\$ (461)	\$ (656)	\$ (1,386)	
Average common equity	\$	4,508	\$ 4,227	\$ 4,547	\$ 4,060	
Return on average common equity	(3	38.8)%	(43.6)%	(19.2)%	(45.5)%	

Our target is to achieve pre-tax profitability by the end of 2025 for Platform Solutions.

**Operating Environment.** The operating environment for Platform Solutions is mainly impacted by the economic environment in the U.S., which, during the third quarter of 2024, was generally characterized by concerns about inflation (although some measures had begun to improve), a continued low rate of unemployment and a slight increase in the pace of growth in consumer spending compared with the second quarter of 2024.

In the future, if economic conditions deteriorate, it may lead to a decrease in consumer spending or a deterioration in consumer credit, and net revenues and provision for credit losses in Platform Solutions would likely be negatively impacted.

Three Months Ended September 2024 versus **September 2023.** Net revenues in Platform Solutions were \$391 million for the third quarter of 2024, 32% lower than the third quarter of 2023, primarily reflecting significantly lower net revenues in Consumer platforms.

The decrease in Consumer platforms net revenues reflected lower net revenues from the GM credit card program, including a loss related to the planned transition of the program to another issuer, partially offset by higher average credit card balances. Transaction banking and other net revenues were lower, primarily reflecting mark-downs related to the seller financing loan portfolio that was transferred to held for sale, and lower average deposit balances. See "Regulatory and Other Matters - Other Matters -Narrowing our Focus on Consumer-Related Activities" for further information.

Provision for credit losses was \$452 million for the third quarter of 2024, compared with a net benefit of \$73 million for the third quarter of 2023. Provisions for the third quarter of 2024 reflected net provisions related to the credit card portfolio (primarily driven by net charge-offs). The net benefit for the third quarter of 2023 reflected a net release related to the GreenSky loan portfolio (including a reserve reduction of \$637 million related to the transfer of the portfolio to held for sale), partially offset by net provisions related to the credit card portfolio (primarily driven by net charge-offs).

Operating expenses were \$498 million for the third quarter of 2024, 60% lower than the third quarter of 2023, primarily due to the write-down of identifiable intangible assets related to GreenSky of \$506 million in the prior year period, partially offset by a write-down of identifiable intangible assets related to the GM credit card program of \$72 million in the current period. Pre-tax loss was \$559 million for the third quarter of 2024, compared with a pre-tax loss of \$607 million for the third quarter of 2023.

September 2024 versus Months Ended **September 2023.** Net revenues in Platform Solutions were \$1.76 billion for the first nine months of 2024, 2% lower than the first nine months of 2023.

Notwithstanding our strategic decision to narrow our focus on consumer-related activities, Consumer platforms net revenues were essentially unchanged, reflecting lower net revenues from the GM credit card program, including a loss related to the planned transition of the program to another issuer, offset by higher average credit card balances and higher average deposit balances. Transaction banking and other net revenues were lower, reflecting lower average deposit balances, and mark-downs related to the seller financing loan portfolio that was transferred to held for sale. See "Regulatory and Other Matters - Other Matters -Narrowing our Focus on Consumer-Related Activities" for further information.

Provision for credit losses was \$1.09 billion for the first nine months of 2024, compared with \$736 million for the first nine months of 2023. Provisions for the first nine months of 2024 reflected net provisions related to the credit card portfolio (primarily driven by net charge-offs). Provisions for the first nine months of 2023 primarily reflected net provisions related to the credit card portfolio (primarily driven by net chargeoffs), partially offset by a net release related to the GreenSky loan portfolio (including a reserve reduction related to the transfer of the portfolio to held for sale).

Operating expenses were \$1.49 billion for the first nine months of 2024, 48% lower than the first nine months of 2023, primarily due to the write-down of identifiable intangible assets related to GreenSky of \$506 million and an impairment of goodwill related to Consumer platforms of \$504 million in the prior year period. Pre-tax loss was \$823 million for the first nine months of 2024, compared with a pre-tax loss of \$1.79 billion for the first nine months of 2023.

### **Geographic Data**

See Note 25 to the consolidated financial statements for a summary of our total net revenues and pre-tax earnings by geographic region.

# **Balance Sheet and Funding Sources**

### **Balance Sheet Management**

One of our risk management disciplines is our ability to manage the size and composition of our balance sheet. While our asset base changes due to client activity, market fluctuations and business opportunities, the size and composition of our balance sheet also reflects factors, including (i) our overall risk tolerance, (ii) the amount of capital we hold and (iii) our funding profile, among other factors. See "Capital Management and Regulatory Capital — Capital Management" for information about our capital management process.

Although our balance sheet fluctuates on a day-to-day basis, our total assets at quarter-end are generally not materially different from those occurring within our reporting periods.

In order to ensure appropriate risk management, we seek to maintain a sufficiently liquid balance sheet and have processes in place to dynamically manage our assets and liabilities, which include (i) balance sheet planning, (ii) balance sheet limits, (iii) monitoring of key metrics and (iv) scenario analyses.

Balance Sheet Planning. We prepare a balance sheet plan that combines our projected total assets and composition of assets with our expected funding sources over a three-year time horizon. This plan is reviewed quarterly and may be adjusted in response to changing business needs or market conditions. The objectives of this planning process are:

- To develop our balance sheet projections, taking into account the general state of the financial markets and expected business activity levels, as well as regulatory requirements;
- To allow Treasury and our independent risk oversight and control functions to objectively evaluate balance sheet limit requests from our revenue-producing units in the context of our overall balance sheet constraints, including our liability profile and capital levels, and key metrics; and
- To inform the target amount, tenor and type of funding to raise, based on our projected assets and contractual maturities.

Treasury and our independent risk oversight and control functions, along with our revenue-producing units, review current and prior period information and expectations for the year to prepare our balance sheet plan. The specific information reviewed includes asset and liability size and composition, limit utilization, risk and performance measures, and capital usage.

Our consolidated balance sheet plan, including our balance sheets by business, funding projections and projected key metrics, is reviewed and approved by the Firmwide Asset Liability Committee and the Firmwide Risk Appetite Committee. See "Risk Management - Overview and Structure of Risk Management" for an overview of our risk management structure.

Balance Sheet Limits. The Firmwide Asset Liability Committee and the Firmwide Risk Appetite Committee have the responsibility to review and approve balance sheet limits. These limits are set at levels which are close to actual operating levels, rather than at levels which reflect our maximum risk appetite, in order to ensure prompt escalation and discussion among our revenue-producing units, Treasury and our independent risk oversight and control functions on a routine basis. Requests for changes in limits are evaluated after giving consideration to their impact on our key metrics. Compliance with limits is monitored by our revenueproducing units and Treasury, as well as our independent risk oversight and control functions.

**Monitoring of Key Metrics.** We monitor key balance sheet metrics both by business and on a consolidated basis, including asset and liability size and composition, limit utilization and risk measures. We attribute assets to businesses and review and analyze movements resulting from new business activity, as well as market fluctuations.

Scenario Analyses. We conduct various scenario analyses, including as part of the Comprehensive Capital Analysis and Review (CCAR) and U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act Stress Tests (DFAST), as well as our resolution and recovery planning. See "Capital Management and Regulatory Capital — Capital Management" for further information about these scenario analyses. These scenarios cover short- and long-term time horizons using various macroeconomic and firm-specific assumptions, based on a range of economic scenarios. We use these analyses to assist us in developing our longer-term balance sheet management strategy, including the level and composition of assets, funding and capital. Additionally, these analyses help us develop approaches for maintaining appropriate funding, liquidity and capital across a variety of situations, including a severely stressed environment.

### **Balance Sheet Analysis and Metrics**

As of September 2024, total assets in our consolidated balance sheets were \$1.73 trillion, an increase of \$86.49 billion from December 2023, primarily reflecting increases in trading assets of \$123.76 billion (primarily due to increases in government obligations, reflecting the impact of our and our clients' activities), investments of \$36.82 billion (primarily due to an increase in U.S. government obligations accounted for as available-for-sale) and customer and other receivables of \$12.43 billion (primarily reflecting our clients' activities), partially offset by decreases in cash and cash equivalents of \$86.89 billion (primarily reflecting our activity). See "Liquidity Risk Management — Cash Flows" for further information about cash and cash equivalents.

As of September 2024, total liabilities in our consolidated balance sheets were \$1.61 trillion, an increase of \$82.19 billion from December 2023, primarily reflecting increases in collateralized financings of \$23.68 billion (reflecting the impact of our and our clients' activities), customer and other payables of \$19.63 billion (primarily reflecting our clients' activities), deposits of \$16.89 billion (due to an increase in consumer deposits, partially offset by a decrease in transaction banking deposits), and trading liabilities of \$14.84 billion (primarily reflecting the impact of equity price movements on derivative instruments, and an increase in corporate debt, driven by our clients' activities).

Our total securities sold under agreements to repurchase (repurchase agreements), accounted for as collateralized financings, were \$261.62 billion as of September 2024 and \$249.89 billion as of December 2023, which were 6% higher as of September 2024 and 21% higher as of December 2023 than the average daily amount of repurchase agreements over the respective quarters. As of September 2024, the increase in our repurchase agreements relative to the average daily amount of repurchase agreements during the quarter resulted from lower levels of our and our clients' activities at the end of the period.

The level of our repurchase agreements fluctuates between and within periods, primarily due to providing clients with access to highly liquid collateral, such as certain government and agency obligations, through collateralized financing activities.

The table below presents information about our balance sheet and leverage ratios.

	As of			
	September	December		
\$ in millions	2024	2023		
Total assets	\$ 1,728,080	\$ 1,641,594		
Unsecured long-term borrowings	\$ 250,250	\$ 241,877		
Total shareholders' equity	<b>\$ 121,200</b> §	116,905		
Leverage ratio	14.3x	14.0x		
Debt-to-equity ratio	2.1x	2.1x		

In the table above:

- The leverage ratio equals total assets divided by total shareholders' equity and measures the proportion of equity and debt we use to finance assets. This ratio is different from the leverage ratios included in Note 20 to the consolidated financial statements.
- The debt-to-equity ratio equals unsecured long-term borrowings divided by total shareholders' equity.

The table below presents information about our shareholders' equity and book value per common share, including the reconciliation of common shareholders' equity to tangible common shareholders' equity.

	As of			
	September			December
\$ in millions, except per share amounts		2024		2023
Total shareholders' equity	\$	121,200	\$	116,905
Preferred stock		(13,253)		(11,203)
Common shareholders' equity		107,947		105,702
Goodwill		(5,909)		(5,916)
Identifiable intangible assets		(925)		(1,177)
Tangible common shareholders' equity	\$	101,113	\$	98,609
Book value per common share	\$	332.96	\$	313.56
Tangible book value per common share	\$	311.88	\$	292.52

In the table above:

- Tangible common shareholders' equity is calculated as total shareholders' equity less preferred stock, goodwill and identifiable intangible assets. We believe that tangible common shareholders' equity is meaningful because it is a measure that we and investors use to assess capital adequacy. Tangible common shareholders' equity is a non-GAAP measure and may not be comparable to similar non-GAAP measures used by other companies.
- Book value per common share and tangible book value per common share are based on common shares outstanding and restricted stock units granted to employees with no future service requirements and not subject to performance or market conditions (collectively, basic shares) of 324.2 million as of September 2024 and 337.1 million as of December 2023. We believe that tangible book value per common share (tangible common shareholders' equity divided by basic shares) is meaningful because it is a measure that we and investors use to assess capital adequacy. Tangible book value per common share is a non-GAAP measure and may not be comparable to similar non-GAAP measures used by other companies.

### **Funding Sources**

Our primary sources of funding are deposits, collateralized financings, unsecured short- and long-term borrowings, and shareholders' equity. We seek to maintain broad and diversified funding sources globally across products, programs, markets, currencies and creditors to avoid funding concentrations.

The table below presents information about our funding sources.

	As of					
\$ in millions	- ;	September	2024		December	2023
Deposits	\$	445,311	36%	\$	428,417	36%
Collateralized financings		347,242	28%		323,564	27%
Unsecured short-term borrowings		75,371	6%		75,945	6%
Unsecured long-term borrowings		250,250	20%		241,877	21%
Total shareholders' equity		121,200	10%		116,905	10%
Total	\$	1,239,374	100%	\$	1,186,708	100%

Our funding is primarily raised in U.S. dollar, Euro, British pound and Japanese yen. We generally distribute our funding products through our own sales force and third-party distributors to a large, diverse creditor base in a variety of markets in the Americas, Europe and Asia. We believe that our relationships with our creditors are critical to our liquidity. Our creditors include banks, governments, securities lenders, corporations, pension funds, insurance companies, mutual funds and individuals. We have imposed various internal guidelines to monitor creditor concentration across our funding programs.

**Deposits.** Our deposits provide us with a diversified source of funding and reduce our reliance on wholesale funding. We raise deposits, including savings, demand and time deposits, from consumers, private bank clients, through internal and third-party broker-dealers, transaction banking clients and other institutional clients. Substantially all of our deposits are raised through Goldman Sachs Bank USA (GS Bank USA), Goldman Sachs International Bank (GSIB) and Goldman Sachs Bank Europe SE (GSBE).

The table below presents the types and sources of deposits.

	S	avings and		
\$ in millions		Demand	Time	Total
As of September 2024				
Consumer	\$	126,642	\$ 55,724	\$ 182,366
Private bank		89,245	8,416	97,661
Brokered certificates of deposit		-	43,417	43,417
Deposit sweep programs		32,804	-	32,804
Transaction banking		58,884	2,173	61,057
Other		1,478	26,528	28,006
Total	\$	309,053	\$ 136,258	\$ 445,311
As of December 2023				
Consumer	\$	120,211	\$ 36,903	\$ 157,114
Private bank		86,457	6,855	93,312
Brokered certificates of deposit		_	46,860	46,860
Deposit sweep programs		31,916	_	31,916
Transaction banking		68,177	3,643	71,820
Other		1,568	25,827	27,395
Total	\$	308,329	\$ 120,088	\$ 428,417

In the table above:

- Savings and demand accounts consist of money market deposit accounts, negotiable order of withdrawal accounts and demand deposit accounts that have no stated maturity or expiration date.
- Time deposits had a weighted average maturity of approximately 0.6 years as of both September 2024 and December 2023.
- Consumer deposits consist of deposits from both Marcus and Apple Card customers.
- Deposit sweep programs include contractual agreements with U.S. broker-dealers who sweep client cash to FDICinsured deposits.
- Transaction banking deposits consist of deposits that we raised through our cash management services business for corporate and other institutional clients.
- Other deposits are substantially all from institutional clients.
- Deposits insured by the FDIC were \$243.14 billion as of September 2024 and \$221.52 billion as of December 2023.
- Deposits insured by non-U.S. insurance programs were \$27.33 billion as of September 2024 and \$26.00 billion as of December 2023.

See Note 13 to the consolidated financial statements for further information about our deposits, including a maturity profile of our time deposits.

**Secured Funding.** We fund a significant amount of inventory and a portion of investments on a secured basis. Secured funding includes collateralized financings in the consolidated balance sheets. See Note 11 to the consolidated financial statements for further information about our collateralized financings, including its maturity profile. We may also pledge our inventory and investments as collateral for securities borrowed under a securities lending agreement. We also use our own inventory and investments to cover transactions in which we or our clients have sold securities that have not yet been purchased. Secured funding is less sensitive to changes in our credit quality than unsecured funding, due to our posting of collateral to our lenders. Nonetheless, we analyze the refinancing risk of our secured funding activities, taking into account trade tenors, maturity profiles, counterparty concentrations, collateral eligibility and counterparty rollover probabilities. We seek to mitigate our refinancing risk by executing term trades with staggered maturities, diversifying counterparties, raising excess secured funding and pre-funding residual risk through our GCLA.

We seek to raise secured funding with a term appropriate for the liquidity of the assets that are being financed, and we seek longer maturities for secured funding collateralized by asset classes that may be harder to fund on a secured basis, especially during times of market stress. Our secured funding, excluding funding collateralized by liquid government and agency obligations, is primarily executed for tenors of one month or greater and is primarily executed through term repurchase agreements and securities loaned contracts.

Assets that may be harder to fund on a secured basis during times of market stress include certain financial instruments in the following categories: mortgage- and other asset-backed loans and securities, non-investment-grade corporate debt securities, equity securities and emerging market securities.

We also raise financing through other types of collateralized financings, such as secured loans and notes. GS Bank USA has access to funding from the Federal Home Loan Bank. Our outstanding borrowings from the Federal Home Loan Bank were \$5.04 billion as of September 2024 and we had no outstanding borrowings as of December 2023. Additionally, we have access to funding through the Federal Reserve discount window, but we do not rely on this funding in our liquidity planning and stress testing.

**Unsecured Short-Term Borrowings.** A significant portion of our unsecured short-term borrowings was originally long-term debt that is scheduled to mature within one year of the reporting date. We use unsecured short-term borrowings, including U.S. and non-U.S. hybrid financial instruments and commercial paper, to finance liquid assets and for other cash management purposes. In accordance with regulatory requirements, Group Inc. does not issue debt with an original maturity of less than one year, other than to its subsidiaries. See Note 14 to the consolidated financial statements for further information about our unsecured short-term borrowings.

**Unsecured Long-Term Borrowings.** Unsecured long-term borrowings, including structured notes, are raised through syndicated U.S. registered offerings, U.S. registered and Rule 144A medium-term note programs, offshore medium-term note offerings and other debt offerings. We issue in different tenors, currencies and products to maximize the diversification of our investor base.

The table below presents our quarterly unsecured long-term borrowings maturity profile.

	First	Second	Third	Fourth	
\$ in millions	Quarter	Quarter	Quarter	Quarter	Total
As of September 2024					
2025	\$ -	\$ -	\$ -	\$12,228	\$ 12,228
2026	\$ 8,639	\$ 6,858	\$ 8,475	\$10,340	34,312
2027	\$13,206	\$ 8,830	\$ 8,467	\$11,870	42,373
2028	\$11,727	\$ 6,434	\$ 4,837	\$ 8,265	31,263
2029	\$ 4,685	\$11,105	\$ 6,755	\$ 9,047	31,592
2030 - thereafter					98,482
Total					\$ 250,250

The weighted average maturity of our unsecured long-term borrowings as of September 2024 was approximately six years. To mitigate refinancing risk, we seek to limit the principal amount of debt maturing over the course of any monthly, quarterly, semi-annual or annual time horizon. We enter into interest rate swaps to convert a portion of our unsecured long-term borrowings into floating-rate obligations to manage our exposure to interest rates. See Note 14 to the consolidated financial statements for further information about our unsecured long-term borrowings.

**Shareholders' Equity.** Shareholders' equity is a stable and perpetual source of funding. See Note 19 to the consolidated financial statements for further information about our shareholders' equity.

### Capital Management and Regulatory Capital

Capital adequacy is of critical importance to us. We have in place a comprehensive capital management policy that provides a framework, defines objectives and establishes guidelines to assist us in maintaining the appropriate level and composition of capital in both business-as-usual and stressed conditions.

### **Capital Management**

We determine the appropriate amount and composition of our capital by considering multiple factors, including our current and future regulatory capital requirements, the results of our capital planning and stress testing process, the results of resolution capital models and other factors, such as rating agency guidelines, subsidiary capital requirements, the business environment and conditions in the financial markets.

We manage our capital requirements and the levels of our capital usage principally by setting limits on the balance sheet and/or limits on risk, in each case at both the firmwide and business levels.

We principally manage the level and composition of our capital through issuances and repurchases of our common stock.

We may issue, redeem or repurchase our preferred stock and subordinated debt or other forms of capital as business conditions warrant. Prior to such redemptions or repurchases, we must receive approval from the FRB. See Notes 14 and 19 to the consolidated financial statements for further information about our subordinated debt and preferred stock.

Capital Planning and Stress Testing Process. As part of capital planning, we project sources and uses of capital given a range of business environments, including stressed conditions. Our stress testing process is designed to identify and measure material risks associated with our business activities, including market risk, credit risk, operational risk and liquidity risk, as well as our ability to generate revenues.

Our capital planning process incorporates an internal capital adequacy assessment with the objective of ensuring that we are appropriately capitalized relative to the risks in our businesses. We incorporate stress scenarios into our capital planning process with a goal of holding sufficient capital to ensure we remain adequately capitalized after experiencing a severe stress event. Our assessment of capital adequacy is viewed in tandem with our assessment of liquidity adequacy and is integrated into our overall risk management structure, governance and policy framework.

Our stress tests incorporate our internally designed stress scenarios, including our internally developed severely adverse scenario, and those required by the FRB, and are designed to capture our specific vulnerabilities and risks. We provide further information about our stress test processes and a summary of the results on our website as described in "Available Information."

As required by the FRB's CCAR rules, we submit an annual capital plan for review by the FRB. The purpose of the FRB's review is to ensure that we have a robust, forward-looking capital planning process that accounts for our unique risks and that permits continued operation during times of economic and financial stress.

The FRB evaluates us based, in part, on whether we have the capital necessary to continue operating under the baseline and severely adverse scenarios provided by the FRB and those developed internally. This evaluation also takes into account our process for identifying risk, our controls and governance for capital planning, and our guidelines for making capital planning decisions. In addition, the FRB evaluates our plan to make capital distributions (i.e., dividend payments and repurchases or redemptions of stock, subordinated debt or other capital securities) and issue capital, across the range of macroeconomic scenarios and firm-specific assumptions. The FRB determines the stress capital buffer (SCB) applicable to us based on its own annual stress test. The SCB under the Standardized approach is calculated as (i) the difference between our starting and minimum projected CET1 capital ratios under the supervisory severely adverse scenario and (ii) our planned common stock dividends for each of the fourth through seventh quarters of the planning horizon, expressed as a percentage of risk-weighted assets (RWAs).

Based on our 2024 CCAR submission, in June 2024, the FRB had preliminarily set our SCB to 6.4% for the period from October 1, 2024 through September 30, 2025. In August 2024, the FRB revised our final SCB to 6.2%, resulting in a Standardized CET1 capital ratio requirement of 13.7% beginning on October 1, 2024. See "Share Repurchase Program" for further information about common stock repurchases and dividends and "Consolidated Regulatory Capital" for further information about the global systemically important bank (G-SIB) surcharge. We published a summary of our annual DFAST results in June 2024. See "Available Information."

GS Bank USA is required to conduct stress tests on an annual basis and publish a summary of certain results. GS Bank USA published a summary of its annual DFAST results in June 2024. See "Available Information."

Goldman Sachs International (GSI), GSIB and GSBE also have their own capital planning and stress testing processes, which incorporate internally designed stress tests developed in accordance with the guidelines of their respective regulators.

Contingency Capital Plan. As part of our comprehensive capital management policy, we maintain a contingency capital plan. Our contingency capital plan provides a framework for analyzing and responding to a perceived or actual capital deficiency, including, but not limited to, identification of drivers of a capital deficiency, as well as mitigants and potential actions. It outlines the appropriate communication procedures to follow during a crisis period, including internal dissemination of information, as well as timely communication with external stakeholders.

Capital Attribution. We assess the capital usage of each of our businesses based on our attributed equity framework. This framework considers many factors, including our internal assessment of risks as well as the regulatory capital requirements related to our business activities.

We review and make any necessary adjustments to our attributed equity in January each year, to reflect, among other things, our most recent stress test results and changes to our regulatory capital requirements. On January 1, 2024, our allocation of attributed equity changed (relative to the allocation as of December 2023) as follows: attributed equity increased by approximately \$1.6 billion for Platform attributed equity Solutions, while decreased approximately \$1.2 billion for Asset & Wealth Management and approximately \$0.4 billion for Global Banking & Markets. See "Results of Operations — Segment Assets and Operating Results - Segment Operating Results" for information about our average quarterly attributed equity by segment.

**Share Repurchase Program.** We use our share repurchase program to help maintain the appropriate level of common equity. On an annual basis, we submit a Board of Directors of Group Inc. (Board) approved capital plan to the Federal Reserve, which includes planned share repurchases for each quarter. The share repurchases are effected primarily through regular open-market purchases (which may include repurchase plans designed to comply with Rule 10b5-1 and accelerated share repurchases), the amounts and timing of which are determined primarily by our current and projected capital position, and capital deployment opportunities, but which may also be influenced by general market conditions and the prevailing price and trading volumes of our common stock.

In February 2023, the Board approved a share repurchase program authorizing repurchases of up to \$30 billion of our common stock. The program has no set expiration or termination date. See "Unregistered Sales of Equity Securities and Use of Proceeds" in Part II, Item 2 of this Form 10-Q and Note 19 to the consolidated financial statements for further information about our share repurchase program, and see above for information about our capital planning and stress testing process.

During the third quarter of 2024, we returned a total of \$1.98 billion of capital to common shareholders, including \$1.00 billion of common share repurchases and \$978 million of common stock dividends. The Board approved an increase in our quarterly common stock dividend from \$2.75 to \$3.00 per share beginning in the third quarter of 2024. Consistent with our capital management philosophy, we will continue prioritizing deployment of capital for our clients where returns are attractive and distribute any excess capital to shareholders through dividends and share repurchases, while targeting a 50 to 100 basis point buffer above our capital requirement.

We are subject to a one percent non-deductible federal excise tax (buyback tax) that is applicable to the fair market value of certain corporate share repurchases. The fair market value of share repurchases subject to the tax is reduced by the fair market value of any applicable stock issued during the calendar year, including stock issued to employees. The buyback tax did not have a material impact on our financial condition, results of operations or cash flows for either the three or nine months ended September 2024.

Resolution Capital Models. In connection with our resolution planning efforts, we have established a Resolution Capital Adequacy and Positioning framework, which is designed to ensure that our major subsidiaries (GS Bank USA, Goldman Sachs & Co. LLC (GS&Co.), GSI, GSIB, GSBE, Goldman Sachs Japan Co., Ltd. (GSJCL), Goldman Sachs Asset Management, L.P. and Goldman Sachs Asset Management International) have access to sufficient lossabsorbing capacity (in the form of equity, subordinated debt and unsecured senior debt) so that they are able to wind down following a Group Inc. bankruptcy filing in accordance with our preferred resolution strategy.

In addition, we have established a triggers and alerts framework, which is designed to provide the Board with information needed to make an informed decision on whether and when to commence bankruptcy proceedings for Group Inc.

### **Rating Agency Guidelines**

The credit rating agencies assign credit ratings to the obligations of Group Inc., which directly issues or guarantees substantially all of our senior unsecured debt obligations. GS&Co. and GSI have been assigned long- and short-term issuer ratings by certain credit rating agencies. GS Bank USA, GSIB and GSBE have also been assigned long- and short-term issuer ratings, as well as ratings on their long- and short-term bank deposits. In addition, credit rating agencies have assigned ratings to debt obligations of certain other subsidiaries of Group Inc.

The level and composition of our capital are among the many factors considered in determining our credit ratings. Each agency has its own definition of eligible capital and methodology for evaluating capital adequacy, assessments are generally based on a combination of factors rather than a single calculation. See "Risk Management — Liquidity Risk Management — Credit Ratings" for further information about credit ratings of Group Inc., GS Bank USA, GSIB, GSBE, GS&Co. and GSI.

### **Consolidated Regulatory Capital**

We are subject to consolidated regulatory capital requirements which are calculated in accordance with the regulations of the FRB (Capital Framework). Under the Capital Framework, we are an "Advanced approaches" banking organization and have been designated as a G-SIB. In managing our capital, we consider a number of different capital requirements, the most binding of which can vary over time.

The capital requirements calculated under the Capital Framework include the capital conservation buffer requirements, which are comprised of a 2.5% buffer (under the Advanced Capital Rules), the SCB (under the Standardized Capital Rules), a countercyclical capital buffer (under both Capital Rules) and the G-SIB surcharge (under both Capital Rules). Our G-SIB surcharge is 3.0% for both 2024 and 2025. Based on financial data for 2023, we are in the 3.5% G-SIB surcharge threshold range. The earliest this surcharge could be effective is January 2026. The G-SIB surcharge and countercyclical capital buffer in the future may differ due to additional guidance from our regulators and/or positional changes, and our SCB is likely to change from year to year based on the results of the annual supervisory stress tests. Our target is to maintain capital ratios equal to the regulatory requirements plus a buffer of 50 to 100 basis points.

See Note 20 to the consolidated financial statements for further information about our risk-based capital ratios and leverage ratios, and the Capital Framework.

### **Total Loss-Absorbing Capacity (TLAC)**

We are also subject to the FRB's TLAC and related requirements. Failure to comply with the TLAC and related requirements would result in restrictions being imposed by the FRB and could limit our ability to repurchase shares, pay dividends and make certain discretionary compensation payments.

The table below presents TLAC and external long-term debt requirements.

	As of		
	September	December	
	2024	2023	
TLAC to RWAs	22.0%	22.0%	
TLAC to leverage exposure	9.5%	9.5%	
External long-term debt to RWAs	9.0%	9.0%	
External long-term debt to leverage exposure	4.5%	4.5%	

#### In the table above:

- The TLAC to RWAs requirement included (i) the 18% minimum, (ii) the 2.5% buffer, (iii) the countercyclical capital buffer, which the FRB has set to zero percent and (iv) the 1.5% G-SIB surcharge (Method 1).
- The TLAC to leverage exposure requirement includes (i) the 7.5% minimum and (ii) the 2.0% leverage exposure buffer.
- The external long-term debt to RWAs requirement includes (i) the 6% minimum and (ii) the 3.0% G-SIB surcharge (Method 2).
- The external long-term debt to total leverage exposure is the 4.5% minimum.

The table below presents information about our TLAC and external long-term debt ratios.

	For the Three Months Ended or as of			
		September		December
\$ in millions		2024		2023
TLAC	\$	273,138	\$	278,188
External long-term debt	\$	149,100	\$	154,300
RWAs	\$	698,198	\$	692,737
Leverage exposure	\$	2,110,472	\$	1,995,756
TLAC to RWAs		39.1%		40.2%
TLAC to leverage exposure		12.9%		13.9%
External long-term debt to RWAs		21.4%		22.3%
External long-term debt to leverage exposure		7.1%		7.7%

#### In the table above:

- TLAC includes common and preferred stock, and eligible long-term debt issued by Group Inc. Eligible long-term debt represents unsecured debt, which has a remaining maturity of at least one year and satisfies additional requirements.
- External long-term debt consists of eligible long-term debt subject to a haircut if it is due to be paid between one and two years.

- In accordance with the TLAC rules, the higher of Standardized or Advanced RWAs are used in the calculation of TLAC and external long-term debt ratios and applicable requirements. RWAs represent Standardized RWAs as of both September 2024 and December 2023.
- Leverage exposure consists of average adjusted total assets and certain off-balance sheet exposures.

See "Business — Regulation" in Part I, Item 1 of the 2023 Form 10-K for further information about TLAC.

### **Subsidiary Capital Requirements**

Many of our subsidiaries, including our bank and brokerdealer subsidiaries, are subject to separate regulation and capital requirements of the jurisdictions in which they operate.

**Bank Subsidiaries.** GS Bank USA is our primary U.S. banking subsidiary and GSIB and GSBE are our primary non-U.S. banking subsidiaries. These entities are subject to regulatory capital requirements. See Note 20 to the consolidated financial statements for further information about the regulatory capital requirements for GS Bank USA.

• **GSIB.** GSIB is our U.K. bank subsidiary regulated by the Prudential Regulation Authority (PRA) and the Financial Conduct Authority (FCA). GSIB is subject to the U.K. capital framework, which is largely based on the Basel Committee on Banking Supervision's (Basel Committee) capital framework for strengthening international capital standards (Basel III). The eligible retail deposits of GSIB are covered by the U.K. Financial Services Compensation Scheme to the extent provided by law.

The table below presents GSIB's risk-based capital requirements.

	As of		
	September	December	
	2024	2023	
Risk-based capital requirements			
CET1 capital ratio	10.2%	10.1%	
Tier 1 capital ratio	12.5%	12.4%	
Total capital ratio	15.5%	15.4%	

The table below presents information about GSIB's risk-based capital ratios.

	As of			
		September	D	ecember
\$ in millions		2024		2023
Risk-based capital and risk-weighted assets				
CET1 capital	\$	4,359	\$	3,936
Tier 1 capital	\$	4,359	\$	3,936
Tier 2 capital	\$	826	\$	826
Total capital	\$	5,185	\$	4,762
RWAs	\$	17,354	\$	16,546
Risk-based capital ratios				
CET1 capital ratio		25.1%		23.8%
Tier 1 capital ratio		25.1%		23.8%
Total capital ratio		29.9%		28.8%

In the table above, the risk-based capital ratios as of September 2024 reflected profits that are still subject to annual audit by GSIB's external auditors and approval by GSIB's Board of Directors for inclusion in risk-based capital. These profits contributed 216 basis points to the CET1 capital ratio as of September 2024.

The table below presents GSIB's leverage ratio requirement and leverage ratio.

	As o	f
	September	December
	2024	2023
Leverage ratio requirement	3.6%	3.6%
Leverage ratio	8.2%	7.4%

In the table above, the leverage ratio as of September 2024 reflected profits that are still subject to annual audit by GSIB's external auditors and approval by GSIB's Board of Directors for inclusion in risk-based capital. These profits contributed 70 basis points to the leverage ratio as of September 2024.

GSIB is subject to minimum reserve requirements at central banks in certain of the jurisdictions in which it operates. As of both September 2024 and December 2023, GSIB was in compliance with these requirements.

• **GSBE**. GSBE is our German bank subsidiary supervised by the European Central Bank, BaFin and Deutsche Bundesbank. GSBE is a non-U.S. banking subsidiary of GS Bank USA and is also subject to standalone regulatory capital requirements noted below. GSBE is subject to the capital requirements prescribed in the amended E.U. Capital Requirements Directive (CRD) and E.U. Capital Requirements Regulation (CRR), which are largely based on Basel III. The deposits of GSBE are covered by the German statutory deposit protection program to the extent provided by law. In addition, GSBE has elected to participate in the German voluntary deposit protection program which provides further insurance for certain eligible deposits beyond the coverage of the German statutory deposit program.

The table below presents GSBE's risk-based capital requirements.

	As of		
	September December		
	2024	2023	
Risk-based capital requirements			
CET1 capital ratio	10.3%	10.0%	
Tier 1 capital ratio	12.3%	12.1%	
Total capital ratio	15.0%	14.8%	

The table below presents information about GSBE's riskbased capital ratios.

	As of			
	September Dec			ecember
\$ in millions		2024		2023
Risk-based capital and risk-weighted assets				
CET1 capital	\$	14,807	\$	14,212
Tier 1 capital	\$	14,807	\$	14,212
Tier 2 capital	\$	23	\$	22
Total capital	\$	14,830	\$	14,234
RWAs	\$	47,718	\$	39,797
Risk-based capital ratios				
CET1 capital ratio		31.0%		35.7%
Tier 1 capital ratio		31.0%		35.7%
Total capital ratio		31.1%		35.8%

In the table above, the risk-based capital ratios as of September 2024 reflected profits that are still subject to annual audit by GSBE's external auditors and approval by GSBE's shareholder (GS Bank USA) for inclusion in riskbased capital. These profits contributed 138 basis points to the CET1 capital ratio as of September 2024.

The table below presents GSBE's leverage ratio requirement and leverage ratio.

	As of			
	September Decemb			
	2024	2023		
Leverage ratio requirement	3.0%	3.0%		
Leverage ratio	9.4%	11.4%		

In the table above, the leverage ratio as of September 2024 reflected profits that are still subject to annual audit by GSBE's external auditors and approval by GSBE's shareholder (GS Bank USA) for inclusion in risk-based capital. These profits contributed 42 basis points to the leverage ratio as of September 2024.

GSBE is subject to minimum reserve requirements at central banks in certain of the jurisdictions in which it operates. As of both September 2024 and December 2023, GSBE was in compliance with these requirements.

GSBE is a registered swap dealer with the CFTC and a registered security-based swap dealer with the SEC. As of both September 2024 and December 2023, GSBE was subject to and in compliance with applicable capital requirements for swap dealers and security-based swap dealers.

U.S. Regulated Broker-Dealer Subsidiaries. GS&Co., our primary U.S. regulated broker-dealer subsidiary, is also a registered futures commission merchant and a registered swap dealer with the CFTC, and a registered security-based swap dealer with the SEC, and therefore is subject to regulatory capital requirements imposed by the SEC, the Financial Industry Regulatory Authority, Inc., the CFTC, the Chicago Mercantile Exchange and the National Futures Association. Rule 15c3-1 of the SEC and Rules 1.17 and Part 23 Subpart E of the CFTC specify uniform minimum net capital requirements, as defined, for their registrants, and also effectively require that a significant part of the registrants' assets be kept in relatively liquid form. GS&Co. has elected to calculate its SEC minimum capital requirements in accordance with the "Alternative Net Capital Requirement" as permitted by Rule 15c3-1 of the SEC.

GS&Co. had regulatory net capital, as defined by Rule 15c3-1 of the SEC, of \$19.41 billion as of September 2024 and \$20.25 billion as of December 2023, which exceeded the greater of the minimum amounts required under Rule 15c3-1 of the SEC and Rules 1.17 and Part 23 Subpart E of the CFTC by \$14.02 billion as of September 2024 and \$15.07 billion as of December 2023. In addition to its alternative minimum net capital requirements, GS&Co. is also required to hold tentative net capital in excess of \$5 billion and net capital in excess of \$1 billion in accordance with Rule 15c3-1. GS&Co. is also required to notify the SEC in the event that its tentative net capital is less than \$6 billion. As of both September 2024 and December 2023, GS&Co. had tentative net capital and net capital in excess of both the minimum and the notification requirements.

Non-U.S. Regulated Broker-Dealer Subsidiaries. Our principal non-U.S. regulated broker-dealer subsidiaries include GSI and GSJCL.

GSI, our U.K. broker-dealer, is regulated by the PRA and the FCA. GSI is subject to the U.K. capital framework, which is largely based on Basel III.

The table below presents GSI's risk-based capital requirements.

	As of		
	September December		
	2024	2023	
Risk-based capital requirements			
CET1 capital ratio	9.1%	9.1%	
Tier 1 capital ratio	11.1%	11.0%	
Total capital ratio	13.7%	13.7%	

The table below presents information about GSI's risk-based capital ratios.

	As of September December			
				December
\$ in millions		2024		2023
Risk-based capital and risk-weighted assets				
CET1 capital	\$	32,313	\$	32,403
Tier 1 capital	\$	37,813	\$	37,903
Tier 2 capital	\$	6,877	\$	6,877
Total capital	\$	44,690	\$	44,780
RWAs	\$	269,509	\$	257,956
Risk-based capital ratios				
CET1 capital ratio		12.0%		12.6%
Tier 1 capital ratio		14.0%		14.7%
Total capital ratio		16.6%		17.4%

In the table above, the risk-based capital ratios as of September 2024 excluded GSI's profits from April 1, 2024 through September 30, 2024, all of which are expected to be distributed as dividends in the future, subject to approval by GSI's Board of Directors after verification by GSI's external auditors.

The table below presents GSI's leverage ratio requirement and leverage ratio.

	As	As of		
	September	December		
	2024	2023		
Leverage ratio requirement	3.6%	3.5%		
Leverage ratio	4.4%	4.9%		

In the table above, the leverage ratio as of September 2024 excluded GSI's profits from April 1, 2024 through September 30, 2024, all of which are expected to be distributed as dividends in the future, subject to approval by GSI's Board of Directors after verification by GSI's external auditors.

GSI is a registered swap dealer with the CFTC and a registered security-based swap dealer with the SEC. As of both September 2024 and December 2023, GSI was subject to and in compliance with applicable capital requirements for swap dealers and security-based swap dealers.

GSJCL, our Japanese broker-dealer, is regulated by Japan's Financial Services Agency. GSICL and certain other non-U.S. subsidiaries are also subject to capital requirements promulgated by authorities of the countries in which they operate. As of both September 2024 and December 2023, these subsidiaries were in compliance with their local capital requirements.

# Regulatory and Other Matters

### **Regulatory Matters**

Our businesses are subject to extensive regulation and supervision worldwide. Regulations have been adopted or are being considered by regulators and policy makers worldwide. Given that many of the new and proposed rules are highly complex, the full impact of regulatory reform will not be known until the rules are implemented and market practices develop under the final regulations.

See "Business — Regulation" in Part I, Item 1 of the 2023 Form 10-K for further information about the laws, rules and regulations and proposed laws, rules and regulations that apply to us and our operations.

Resolution Plan. We are required by the Federal Reserve Board and the FDIC to submit a periodic plan that describes our strategy for a rapid and orderly resolution in the event of material financial distress or failure (resolution plan). In June 2024, the Federal Reserve Board and the FDIC provided feedback on our 2023 resolution plan and identified one shortcoming, other areas for additional focus to address resolution readiness and additional information required to be included in our 2025 resolution plan. In August 2024, we submitted a description of our key actions to address the shortcoming. We will submit our targeted resolution plan by July 1, 2025. See "Available Information" for information about the public portion of our resolution plan submission.

#### **Other Matters**

#### Narrowing our Focus on Consumer-Related Activities.

During 2023, we made a strategic decision to narrow our focus with respect to consumer-related activities and took the following actions:

- We completed the sale of substantially all of the Marcus loan portfolio in 2023 (included within Asset & Wealth Management).
- We sold our Personal Financial Management (PFM) business in 2023 (included within Asset & Wealth Management).
- We sold the majority of the GreenSky loan portfolio in 2023 and, during the first quarter of 2024, completed the sale of GreenSky (included within Platform Solutions).
- During the fourth quarter of 2024, we entered into an agreement to transition the GM credit card program (included within Platform Solutions) to another issuer. The transition is expected to be completed in the third quarter of 2025.
- During the fourth quarter of 2024, we entered into an agreement to sell our seller financing loan portfolio (included within Platform Solutions). This portfolio consists of loans that were extended to small- and mediumsized retailers. The sale is expected to be completed in the fourth quarter of 2024.

• We remain committed to supporting the products and servicing customers through the various transition arrangements for our consumer-related activities.

The table below presents the impact to pre-tax earnings of the items that we sold or have announced the decision to sell (with respect to the narrowing of our focus on consumerrelated activities).

		Three Months			Nine Months			
	Er	nded Se	pte	ember	Ended September			ember
\$ in millions		2024		2023		2024		2023
Marcus Ioan portfolio	\$	-	\$	(37)	\$	-	\$	240
PFM		_		(25)		-		(69)
GreenSky		(5)		(203)		(26)		(1,073)
GM credit card program		(376)		(81)		(494)		(174)
Seller financing loan portfolio		(34)		(4)		(77)		(24)
Total	\$	(415)	\$	(350)	\$	(597)	\$	(1,100)

In the table above, pre-tax earnings related to GreenSky, the GM credit card program and the seller financing loan portfolio were included within Platform Solutions and the pre-tax earnings related to the Marcus loan portfolio and PFM were included within Asset & Wealth Management.

We have the following remaining consumer-related activities within Platform Solutions:

- We issue credit cards to and accept deposits from Apple Card customers.
- We will continue to support existing GM customers and issue credit cards to new GM customers until the transition of the GM credit card program to another issuer is completed.

Future decisions we may make in connection with the narrowing of our focus on consumer-related activities could have a material impact on our results of operations in the period such decisions are made.

See "Results of Operations — Platform Solutions" for the drivers of changes in our net revenues for Consumer platforms.

The Enhancement and Standardization of Climate-Related Disclosures for Investors. In March 2024, the SEC adopted final rules requiring registrants to provide certain climate-related disclosures, including Scope 1 and Scope 2 greenhouse gas emissions to the extent they are material. These rules require certain disclosures related to severe weather events and other natural conditions in the notes to audited financial statements. These disclosures are required to be phased-in over multiple years beginning with fiscal year 2025 for large accelerated filers like us. However, the SEC has stayed the implementation of these rules, pending the outcome of litigation challenging the rules.

# Off-Balance Sheet Arrangements

In the ordinary course of business, we enter into various types of off-balance sheet arrangements. Our involvement in these arrangements can take many different forms, including:

- Purchasing or retaining residual and other interests in special purpose entities, such as mortgage-backed and other asset-backed securitization vehicles;
- Holding senior and subordinated debt, interests in limited and general partnerships, and preferred and common stock in other nonconsolidated vehicles;
- Entering into interest rate, foreign currency, equity, commodity and credit derivatives, including total return swaps; and
- Providing guarantees, indemnifications, commitments, letters of credit and representations and warranties.

We enter into these arrangements for a variety of business purposes, including securitizations. The securitization vehicles that purchase mortgages, corporate bonds and other types of financial assets are critical to the functioning of several significant investor markets, including the mortgagebacked and other asset-backed securities markets, since they offer investors access to specific cash flows and risks created through the securitization process.

We also enter into these arrangements to underwrite client securitization transactions; provide secondary market liquidity; make investments performing in nonperforming debt, distressed loans, power-related assets, equity securities, real estate and other assets; and provide investors with credit-linked and asset-repackaged notes.

The table below presents where information about our various off-balance sheet arrangements may be found in this Form 10-O. In addition, see Note 3 to the consolidated financial statements for information about our consolidation policies.

Off-Balance Sheet Arrangement	Disclosure in Form 10-Q				
Variable interests and other obligations, including contingent obligations, arising from variable interests in nonconsolidated variable interest entities	See Note 17 to the consolidated financial statements.				
Guarantees, and lending and other commitments	See Note 18 to the consolidated financial statements.				
Derivatives	See "Risk Management — Credit Risk Management — Credit Exposures — OTC Derivatives" and Notes 4, 5, 7 and 18 to the consolidated financial statements.				

### **Risk Management**

Risks are inherent in our businesses and include liquidity, market, credit, operational, cybersecurity, model, legal, compliance, conduct, regulatory and reputational risks. For further information about our risk management processes, see "Overview and Structure of Risk Management," and for information about our areas of risk, see "Liquidity Risk Management," "Market Risk Management," "Credit Risk Management," "Operational Risk Management," "Cybersecurity Risk Management," "Model Management" and "Other Risk Management," as well as "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K.

### Overview and Structure of Risk Management

#### Overview

We believe that effective risk management is critical to our success. Accordingly, we have established an enterprise risk management framework that employs a comprehensive, integrated approach to risk management and is designed to enable comprehensive risk management processes through which we identify, assess, monitor and manage the risks we assume in conducting our activities. Our risk management structure is built around three core components: governance, processes and people.

**Governance.** Risk management governance starts with the Board, which both directly and through its committees, including its Risk Committee, oversees our risk management policies and practices implemented through the enterprise risk management framework. The Board is also responsible for the annual review and approval of our risk appetite statement. The risk appetite statement describes the levels and types of risk we are willing to accept or to avoid in order to achieve our objectives included in our strategic business plan, while remaining in compliance with regulatory requirements. The Board reviews our strategic business plan and is ultimately responsible for overseeing and providing direction about our strategy and risk appetite.

The Board, including through its committees, receives regular briefings on firmwide risks, including liquidity risk, market risk, credit risk, operational risk, cybersecurity risk, model risk and climate risk, from our independent risk oversight and control functions, including our chief risk officer, on cybersecurity threats and risks from our chief information security officer (CISO), on compliance risk and conduct risk from our chief compliance officer, on legal and regulatory enforcement matters from our chief legal officer, and on other matters impacting our reputation from the chair and/or vice-chairs of our Firmwide Reputational Risk Committee. The chief risk officer reports to our chief executive officer and to the Risk Committee of the Board. As part of the review of the firmwide risk portfolio, the chief risk officer regularly advises the Risk Committee of the Board of relevant risk metrics and material exposures, including risk limits and thresholds established in our risk appetite statement.

The implementation of our risk governance structure and core risk management processes is overseen by Enterprise Risk, which reports to our chief risk officer, and is responsible for ensuring that our enterprise risk management framework provides the Board, our risk committees and senior management with a consistent and integrated approach to managing our various risks in a manner consistent with our risk appetite.

Our revenue-producing units, as well as Treasury, Engineering, Human Capital Management, Corporate and Workplace Solutions, and Corporate Planning & Management, are considered our first line of defense. They are accountable for the outcomes of our risk-generating activities, as well as for assessing and managing those risks within our risk appetite.

Our independent risk oversight and control functions are considered our second line of defense and provide independent assessment, oversight and challenge of the risks taken by our first line of defense, as well as lead and participate in risk committees. Independent risk oversight and control functions include Compliance, Conflicts Resolution, Controllers, Legal, Risk and Tax.

Internal Audit is considered our third line of defense, and our director of Internal Audit reports to the Audit Committee of the Board and administratively to our chief executive officer. Internal Audit includes professionals with a broad range of audit and industry experience, including risk management expertise. Internal Audit is responsible for independently assessing and validating the effectiveness of key controls, including those within the risk management framework, and providing timely reporting to the Audit Committee of the Board, senior management and regulators.

The three lines of defense structure promotes the accountability of first line risk takers, provides a framework for effective challenge by the second line and empowers independent review from the third line.

**Processes.** We maintain various processes that are critical components of our risk management framework, including (i) risk identification and control assessment, (ii) risk appetite, limits, thresholds and alerts setting, (iii) risk metrics, reporting and monitoring, and (iv) risk decisionmaking.

• Risk Identification and Control Assessment. We believe the identification of our risks and related control assessment is a critical step in providing our Board and senior management transparency and insight into the range and materiality of our risks. We have a comprehensive data collection process, including firmwide policies and procedures that require all employees to report and escalate risk events. Our approach for risk identification and control assessment is comprehensive across all risk types, is dynamic and forward-looking to reflect and adapt to our changing risk profile and business environment, leverages subject matter expertise, and allows for prioritization of our most critical risks. This approach also encompasses our control assessment, led by our second line of defense, to review and challenge the control environment to help ensure it supports our strategic business plan.

To effectively assess our risks, we maintain a daily discipline of marking substantially all of our inventory to current market levels. We carry our inventory at fair value, with changes in valuation reflected immediately in our risk management systems and in net revenues. We do so because we believe this discipline is one of the most effective tools for assessing and managing risk and that it provides transparent and realistic insight into our inventory exposures.

An important part of our risk management process is firmwide stress testing. It allows us to quantify our exposure to tail risks, highlight potential loss concentrations, undertake risk/reward analysis, and assess and mitigate our risk positions. Firmwide stress tests are performed on a regular basis and are designed to ensure a comprehensive analysis of our vulnerabilities idiosyncratic risks combining financial and nonfinancial risks, including, but not limited to, credit, market, liquidity and funding, operational and compliance, climate, strategic, systemic and emerging risks into a single combined scenario. We also perform ad hoc stress tests in anticipation of market events or conditions. Stress tests are also used to assess capital adequacy as part of our capital planning and stress testing process. See "Capital Management and Regulatory Capital — Capital Management" for further information.

Risk Appetite, Limits, Thresholds and Alerts Setting.

We apply a framework of limits and thresholds to control and monitor risk across transactions, products, businesses and markets. The Board, directly or indirectly through its Risk Committee, approves limits, thresholds and alerts included in our risk appetite statement at firmwide, business and product levels. In addition, the Firmwide Risk Appetite Committee, through delegated authority from the Firmwide Enterprise Risk Committee, is responsible for approving our risk limits, thresholds and alerts policy, subject to the overall limits directly or indirectly approved by the Board, and monitoring these limits.

The Firmwide Risk Appetite Committee is responsible for approving limits at firmwide, business and product levels. Certain limits may be set at levels that will require periodic adjustment, rather than at levels that reflect our maximum risk appetite. This fosters an ongoing dialogue about risk among our first and second lines of defense, committees and senior management, as well as rapid escalation of riskrelated matters. Additionally, through delegated authority from the Firmwide Risk Appetite Committee, Market Risk sets limits at certain product and desk levels, and Credit Risk sets limits for individual counterparties and their subsidiaries, industries and countries. Limits are reviewed regularly and amended on a permanent or temporary basis to reflect changes to our strategic business plan, as well as changing market conditions, business conditions or risk tolerance.

• Risk Metrics, Reporting and Monitoring. Effective risk reporting and risk decision-making depends on our ability to get the right information to the right people at the right time. As such, we focus on the rigor and effectiveness of our risk systems, with the objective of ensuring that our risk management technology systems provide us with complete, accurate and timely information. Our risk metrics, reporting and monitoring processes are designed to take into account information about both existing and emerging risks, thereby enabling our risk committees and senior management to perform their responsibilities with the appropriate level of insight into risk exposures. Furthermore, our limit and threshold breach processes provide means for timely escalation. We evaluate changes in our risk profile and our businesses, including changes in business mix or jurisdictions in which we operate, by monitoring risk factors at a firmwide level.

• Risk Decision-Making. Our governance structure provides the protocol and responsibility for decision-making on risk management issues and is designed to ensure implementation of those decisions. We make extensive use of risk committees that meet regularly and serve as an important means to facilitate and foster ongoing discussions to manage and mitigate risks.

We maintain strong and proactive communication about risk and we have a culture of collaboration in decision-making among our first and second lines of defense, committees and senior management. While our first line of defense is responsible for management of their risk, we dedicate extensive resources to our second line of defense in order to ensure a strong oversight structure and an appropriate segregation of duties. We regularly reinforce our strong culture of escalation and accountability across all functions.

**People.** Even the best technology serves only as a tool for helping to make informed decisions in real time about the risks we are taking. Ultimately, effective risk management requires our people to interpret our risk data on an ongoing and timely basis and adjust risk positions accordingly. The experience of our professionals, and their understanding of the nuances and limitations of each risk measure, guides us in assessing exposures and maintaining them within prudent levels.

We reinforce a culture of effective risk management, consistent with our risk appetite, in our training and development programs, as well as in the way we evaluate performance, and recognize and reward our people. Our training and development programs, including certain sessions led by our most senior leaders, are focused on the importance of risk management, client relationships and reputational excellence. As part of our performance review process, we assess reputational excellence, including how an employee exercises good risk management and reputational judgment, and adheres to our code of conduct and compliance policies. Our review and reward processes are designed to communicate and reinforce to our professionals the link between behavior and how people are recognized, the need to focus on our clients and our reputation, and the need to always act in accordance with our highest standards.

#### Structure

Ultimate oversight of risk is the responsibility of our Board. The Board oversees risk both directly and through its committees, including its Risk Committee. We also have a series of committees that generally consist of senior managers from both our first and second lines of defense, with specific risk management mandates that have oversight or decisionmaking responsibilities for risk management activities. We have established procedures for these committees so that appropriate information barriers are in place. Our primary risk committees, most of which also have additional subcommittees, councils or working groups, are described below. In addition to these committees, we have other risk committees that provide oversight for different businesses, activities, products, regions and entities. All of our committees have responsibility for considering the impact on our reputation of the transactions and activities that they oversee.

Membership of our risk committees is reviewed regularly and updated to reflect changes in the responsibilities of the committee members. Accordingly, the length of time that members serve on the respective committees varies as determined by the committee chairs and based on the responsibilities of the members.

The chart below presents an overview of our risk management governance structure.



**Management Committee.** The Management Committee oversees our global activities. It provides this oversight directly and through authority delegated to committees it has established. This committee consists of our most senior leaders, and is chaired by our chief executive officer. Most members of the Management Committee are also members of other committees. The following are the committees that are principally involved in firmwide risk management.

Firmwide Enterprise Risk Committee. The Firmwide Enterprise Risk Committee is responsible for overseeing all of our financial and nonfinancial risks. As part of such oversight, the committee is responsible for the ongoing review, approval and monitoring of our enterprise risk management framework, as well as our risk limits, and thresholds and alerts policy, through delegated authority to the Firmwide Risk Appetite Committee. The Firmwide Enterprise Risk Committee also reviews new significant strategic business initiatives to determine whether they are consistent with our risk appetite and risk management capabilities. Additionally, the Firmwide Enterprise Risk Committee performs enhanced reviews of significant risk events, the top residual and emerging risks, and the overall risk and control environment in each of our business units in order to propose uplifts, identify elements that are common to all business units and analyze the consolidated residual risks that we face. This committee, which reports to the Management Committee, is co-chaired by our president and chief operating officer and our chief risk officer, who are appointed as chairs by our chief executive officer, and the vice-chair is our chief financial officer, who is appointed as vice-chair by the chairs of the Firmwide Enterprise Risk Committee. The Firmwide Enterprise Risk Committee also periodically provides updates to, and receives guidance from, the Risk Committee of the Board. The following are the primary committees or councils that report to the Firmwide Enterprise Risk Committee (unless otherwise noted):

- Firmwide Risk Council. The Firmwide Risk Council is responsible for the ongoing monitoring of relevant financial risks at the firmwide, business and product levels. This council is co-chaired by our chief financial officer and our chief risk officer.
- Firmwide New Activity Committee. The Firmwide New Activity Committee is responsible for reviewing new activities and may review previously approved activities that are significant and/or that have changed in complexity and/or structure or present different reputational and suitability concerns over time to consider whether these activities remain appropriate. This committee is chaired by our controller and chief accounting officer, who is appointed as chair by the chairs of the Firmwide Enterprise Risk Committee.

- Firmwide Technology Risk Committee. The Firmwide Technology Risk Committee is responsible for reviewing matters related to the design, development, deployment and use of technology. This committee oversees cybersecurity matters, as well as technology management frameworks and methodologies, monitors their effectiveness. This committee is co-chaired by our CISO and our chief technology officer, who are appointed as chairs by the chairs of the Firmwide Enterprise Risk Committee. To assist the Firmwide Technology Risk Committee in carrying out its mandate, the Firmwide Artificial Intelligence Risk and Controls Committee, which oversees risks associated with the use of artificial intelligence (AI), reports to the Firmwide Technology Risk Committee.
- Firmwide Risk Operational and Resilience **Committee.** The Firmwide Operational Risk and Resilience Committee is responsible for overseeing operational risk, and seeks to ensure our business and operational resilience. This committee is co-chaired by our chief administrative officer for EMEA and our head of Operational Risk, who are appointed as chairs by the chairs of the Firmwide Enterprise Risk Committee.
- Firmwide Conduct Committee. The Firmwide Conduct Committee is responsible for the ongoing approval and monitoring of the frameworks and policies which govern our conduct risks. Conduct risk is the risk that our people fail to act in a manner consistent with our Business Principles and related core values, policies or codes, or applicable laws or regulations, thereby falling short in fulfilling their responsibilities to us, our clients, colleagues, other market participants or the broader community. This committee is chaired by our chief legal officer, who is appointed as chair by the chairs of the Firmwide Enterprise Risk Committee.
- Firmwide Risk Appetite Committee. The Firmwide Risk Appetite Committee (through delegated authority from the Firmwide Enterprise Risk Committee) is responsible for the ongoing approval and monitoring of risk frameworks, policies and parameters related to our core risk management processes, as well as limits, thresholds and alerts, at firmwide, business and product levels. In addition, this committee is responsible for overseeing our financial risks and reviews the results of stress tests and scenario analyses. To assist the Firmwide Risk Appetite Committee in carrying out its mandate, a number of other risk committees with dedicated oversight for stress testing, model risks, Volcker Rule compliance, as well as our investments or other capital commitments that may give rise to financial risk, report into the Firmwide Risk Appetite Committee. This committee is chaired by our chief risk officer, who is appointed as chair by the chairs of the Firmwide Enterprise Risk Committee. The Firmwide Capital Committee and Firmwide Commitments Committee report to the Firmwide Risk Appetite Committee.

**Firmwide Capital Committee.** The Firmwide Capital Committee provides approval and oversight of debt-related transactions, including principal commitments of our capital. This committee aims to ensure that business, reputational and suitability standards for underwritings and capital commitments are maintained on a global basis. This committee is co-chaired by our head of Credit Risk and the head of our Global Financing Group, who are appointed as chairs by the chair of the Firmwide Risk Appetite Committee.

Firmwide Commitments Committee. The Firmwide Commitments Committee reviews our underwriting and distribution activities with respect to equity and equityrelated product offerings, and sets and maintains policies and procedures designed to ensure that legal, reputational, regulatory and business standards are maintained on a global basis. In addition to reviewing specific transactions, this committee periodically conducts general strategic reviews of sectors and products and establishes policies in connection with transaction practices. This committee is co-chaired by our chief equity underwriting officer for the Americas, head of our Financial Institutions Group in the Americas, and a co-head of our Global Investment Grade Capital Markets and Risk Management Group in Global Banking & Markets, who are appointed as chairs by the chair of the Firmwide Risk Appetite Committee.

• Firmwide Reputational Risk Committee. The Firmwide Reputational Risk Committee is responsible for assessing reputational risks arising from opportunities that have been identified as having potential heightened reputational risk, including transactions identified pursuant to the criteria established by the Firmwide Reputational Risk Committee and as determined by committee leadership. This committee is also responsible for overseeing client-related business standards and addressing client-related reputational risk. This committee is chaired by our president and chief operating officer, who is appointed as chair by our chief executive officer, and the vice-chairs are our chief legal officer and the head of Conflicts Resolution, who are appointed as vice-chairs by the chair of the Firmwide Reputational Risk Committee. This committee periodically provides updates to, and receives guidance from, the Public Responsibilities Committee of the Board. The Firmwide Suitability Committee reports to the Firmwide Reputational Risk Committee.

Firmwide Suitability Committee. The Firmwide Suitability Committee is responsible for setting standards and policies for product, transaction and client suitability and providing a forum for consistency across functions, regions and products on suitability assessments. This committee also reviews suitability matters escalated from other committees. This committee is co-chaired by our chief compliance officer and an advisory director, who are appointed as chairs by the chair of the Firmwide Reputational Risk Committee.

• Firmwide Data Governance Committee. The Firmwide Data Governance Committee is responsible for overseeing the firmwide data governance framework, and its implementation, to help ensure that data governance and data quality are appropriate. This committee is co-chaired by our chief information officer and our chief risk officer, who are appointed as chairs by the chairs of the Firmwide Enterprise Risk Committee.

Firmwide Asset Liability Committee. The Firmwide Asset Liability Committee reviews and approves the strategic direction for our financial resources, including capital, liquidity, funding and balance sheet. This committee has oversight responsibility for asset liability management, including interest rate and currency risk, funds transfer pricing, capital allocation and incentives, and credit ratings. This committee makes recommendations as to any adjustments to asset liability management and financial resource allocation in light of current events, risks, exposures, and regulatory requirements and approves related policies. This committee is co-chaired by our chief financial officer and our global treasurer, who are appointed as chairs by our chief executive officer, and reports to the Management Committee.

### **Liquidity Risk Management**

#### Overview

Liquidity risk is the risk that we will be unable to fund ourselves or meet our liquidity needs in the event of firmspecific, broader industry or market liquidity stress events. We have in place a comprehensive and conservative set of liquidity and funding policies. Our principal objective is to be able to fund ourselves and to enable our core businesses to continue to serve clients and generate revenues, even under adverse circumstances.

Treasury, which reports to our chief financial officer, has primary responsibility for developing, managing and executing our liquidity and funding strategy within our risk appetite.

Liquidity Risk, which is independent of our revenueproducing units and Treasury, and reports to our chief risk officer, has primary responsibility for identifying, monitoring and managing our liquidity risk through firmwide oversight across our global businesses and the establishment of stress testing and limits frameworks.

#### **Liquidity Risk Management Principles**

We manage liquidity risk according to three principles: (i) hold sufficient excess liquidity in the form of GCLA to cover outflows during a stressed period, (ii) maintain appropriate Asset-Liability Management and (iii) maintain a viable Contingency Funding Plan.

**GCLA.** GCLA is liquidity that we maintain to meet a broad range of potential cash outflows and collateral needs in a stressed environment. A primary liquidity principle is to prefund our estimated potential cash and collateral needs during a liquidity crisis and hold this liquidity in the form of unencumbered, highly liquid securities and cash. We believe that the securities held in our GCLA would be readily convertible to cash in a matter of days, through liquidation, by entering into repurchase agreements or from maturities of resale agreements, and that this cash would allow us to meet immediate obligations without needing to sell other assets or depend on additional funding from credit-sensitive markets.

Our GCLA reflects the following principles:

- The first days or weeks of a liquidity crisis are the most critical to a company's survival;
- Focus must be maintained on all potential cash and collateral outflows, not just disruptions to financing flows. Our businesses are diverse, and our liquidity needs are determined by many factors, including market movements, collateral requirements and client commitments, all of which can change dramatically in a difficult funding environment;
- During a liquidity crisis, credit-sensitive funding, including unsecured debt, certain deposits and some types of secured financing agreements, may be unavailable, and the terms (e.g., interest rates, collateral provisions and tenor) or availability of other types of secured financing may change and certain deposits may be withdrawn; and
- As a result of our policy to pre-fund liquidity that we estimate may be needed in a crisis, we hold more unencumbered securities and have larger funding balances than our businesses would otherwise require. We believe that our liquidity is stronger with greater balances of highly liquid unencumbered securities, even though it increases our total assets and our funding costs.

We maintain our GCLA across Group Inc., Goldman Sachs Funding LLC (Funding IHC) and Group Inc.'s major brokerdealer and bank subsidiaries, asset types and clearing agents with the goal of providing us with sufficient operating liquidity to ensure timely settlement in all major markets, even in a difficult funding environment. In addition to the GCLA, we maintain cash balances and securities in several of our other entities, primarily for use in specific currencies, entities or jurisdictions where we do not have immediate access to parent company liquidity.

**Asset-Liability** Management. Our liquidity management policies are designed to ensure we have a sufficient amount of financing, even when funding markets experience persistent stress. We manage the maturities and diversity of our funding across markets, products and counterparties, and seek to maintain a diversified funding profile with an appropriate tenor, taking into consideration the characteristics and liquidity profile of our assets.

Our approach to asset-liability management includes:

- Conservatively managing the overall characteristics of our funding book, with a focus on maintaining long-term, diversified sources of funding in excess of our current requirements. See "Balance Sheet and Funding Sources — Funding Sources" for further information;
- Actively managing and monitoring our asset base, with particular focus on the liquidity, holding period and ability to fund assets on a secured basis. We assess our funding requirements and our ability to liquidate assets in a stressed environment while appropriately managing risk. This enables us to determine the most appropriate funding products and tenors. See "Balance Sheet and Funding Sources — Balance Sheet Management" for further information about our balance sheet management process and "- Funding Sources - Secured Funding" for further information about asset classes that may be harder to fund on a secured basis; and
- Raising secured and unsecured financing that has a long tenor relative to the liquidity profile of our assets. This reduces the risk that our liabilities will come due in advance of our ability to generate liquidity from the sale of our assets. Because we maintain a highly liquid balance sheet, the holding period of certain of our assets may be materially shorter than their contractual maturity dates.

Our goal is to ensure that we maintain sufficient liquidity to fund our assets and meet our contractual and contingent obligations in normal times, as well as during periods of market stress. Through our dynamic balance sheet management process, we use actual and projected asset balances to determine secured and unsecured funding requirements. Funding plans are reviewed and approved by the Firmwide Asset Liability Committee. In addition, our independent risk oversight and control functions analyze, and the Firmwide Asset Liability Committee reviews, our total unsecured long-term borrowings and total shareholders' equity to help ensure that we maintain a level of long-term funding that is sufficient to meet our long-term financing requirements. In a liquidity crisis, we would begin by liquidating and monetizing our GCLA before selling other assets. However, we recognize that orderly asset sales may be prudent or necessary in a severe or persistent liquidity crisis.

#### **Subsidiary Funding Policies**

The majority of our unsecured borrowings is raised by Group Inc., which provides the necessary funds to Funding IHC and other subsidiaries, some of which are regulated, to meet their asset financing, liquidity and capital requirements. In addition, Group Inc. provides its regulated subsidiaries with the necessary capital to meet their regulatory requirements. The benefits of this approach to subsidiary funding are enhanced control and greater flexibility to meet the funding requirements of our subsidiaries. Funding is also raised at the subsidiary level through a variety of products, including deposits, secured funding and unsecured borrowings.

Our intercompany funding policies assume that a subsidiary's funds or securities are not freely available to its parent, Funding IHC or other subsidiaries unless (i) legally provided for and (ii) there are no additional regulatory, tax or other restrictions. In particular, many of our subsidiaries are subject to laws that authorize regulatory bodies to block or reduce the flow of funds from those subsidiaries to Group Inc. or Funding IHC. Regulatory action of that kind could impede access to funds that Group Inc. needs to make payments on its obligations. Accordingly, we assume that the capital provided to our regulated subsidiaries is not available to Group Inc. or other subsidiaries and any other financing provided to our regulated subsidiaries is not available to Group Inc. or Funding IHC until the maturity of such financing.

Group Inc. has provided substantial amounts of equity and subordinated indebtedness, directly or indirectly, to its regulated subsidiaries. For example, as of September 2024, Group Inc. had \$37.64 billion of equity and subordinated indebtedness invested in GS&Co., its principal U.S. registered broker-dealer; \$48.96 billion invested in GSI, a regulated U.K. broker-dealer; \$2.33 billion invested in GSJCL, a regulated Japanese broker-dealer; \$61.12 billion invested in GS Bank USA, a regulated New York Statechartered bank; and \$5.29 billion invested in GSIB, a regulated U.K. bank. Group Inc. also provides financing, directly or indirectly, in the form of: \$143.50 billion of unsubordinated loans (including secured loans \$49.11 billion) and \$28.12 billion of collateral and cash deposits to these entities as of September 2024. In addition, as of September 2024, Group Inc. had significant amounts of capital invested in and loans to its other regulated subsidiaries.

**Contingency Funding Plan.** We maintain a contingency funding plan to provide a framework for analyzing and responding to a liquidity crisis situation or periods of market stress. Our contingency funding plan outlines a list of potential risk factors, key reports and metrics that are reviewed on an ongoing basis to assist in assessing the severity of, and managing through, a liquidity crisis and/or market dislocation. The contingency funding plan also describes in detail our potential responses if our assessments indicate that we have entered a liquidity crisis, which include pre-funding for what we estimate will be our potential cash and collateral needs, as well as utilizing secondary sources of liquidity. Mitigants and action items to address specific risks which may arise are also described and assigned to individuals responsible for execution.

The contingency funding plan identifies key groups of individuals and their responsibilities, which include fostering effective coordination, control and distribution information, implementing liquidity maintenance activities and managing internal and external communication, all of which are critical in the management of a crisis or period of market stress.

#### **Stress Tests**

In order to determine the appropriate size of our GCLA, we model liquidity outflows over a range of scenarios and time horizons. One of our primary internal liquidity risk models, referred to as the Modeled Liquidity Outflow, quantifies our liquidity risks over a 30-day stress scenario. We also consider other factors, including, but not limited to, an assessment of our potential intraday liquidity needs through an additional internal liquidity risk model, referred to as the Intraday Liquidity Model, the results of our long-term stress testing models, our resolution liquidity models and other applicable regulatory requirements and a qualitative assessment of our condition, as well as the financial markets. The results of the Modeled Liquidity Outflow, the Intraday Liquidity Model, the long-term stress testing models and the resolution liquidity models are reported to senior management on a regular basis. We also perform firmwide stress tests. See "Overview and Structure of Risk Management" for information about firmwide stress tests.

Modeled Liquidity Outflow. Our Modeled Liquidity Outflow is based on conducting multiple scenarios that include combinations of market-wide and firm-specific stress. These scenarios are characterized by the following qualitative elements:

- Severely challenged market environments, which include low consumer and corporate confidence, financial and political instability, and adverse changes in market values, including potential declines in equity markets and widening of credit spreads; and
- A firm-specific crisis potentially triggered by material losses, reputational damage (including, as a result of, the dissemination of negative information through social media), litigation and/or a ratings downgrade.

The following are key modeling elements of our Modeled Liquidity Outflow:

- Liquidity needs over a 30-day scenario;
- A two-notch downgrade of our long-term senior unsecured credit ratings;
- Changing conditions in funding markets, which limit our access to unsecured and secured funding;
- No support from additional government funding facilities. Although we have access to various central bank funding programs, we do not assume reliance on additional sources of funding in a liquidity crisis; and
- A combination of contractual outflows and contingent outflows arising from both our on- and off-balance sheet arrangements. Contractual outflows include, among other things, upcoming maturities of unsecured debt, term deposits and secured funding. Contingent outflows include, among other things, the withdrawal of customer credit balances in our prime brokerage business, increase in variation margin requirements due to adverse changes in the value of our exchange-traded and OTC-cleared derivatives, draws on unfunded commitments withdrawals of deposits that have no contractual maturity. See notes to the consolidated financial statements for further information about contractual outflows, including Note 11 for collateralized financings, Note 13 for deposits, Note 14 for unsecured long-term borrowings and Note 15 for operating lease payments, and "Off-Balance Sheet Arrangements" for further information about our various types of off-balance sheet arrangements.

Intraday Liquidity Model. Our Intraday Liquidity Model measures our intraday liquidity needs in a scenario where access to sources of intraday liquidity may become constrained. The intraday liquidity model considers a variety of factors, including historical settlement activity.

**Long-Term Stress Testing.** We utilize longer-term stress tests to take a forward view on our liquidity position through prolonged stress periods in which we experience a severe liquidity stress and recover in an environment that continues to be challenging. We are focused on ensuring conservative asset-liability management to prepare for a prolonged period of potential stress, seeking to maintain a diversified funding profile with an appropriate tenor, taking into consideration the characteristics and liquidity profile of our assets.

Resolution Liquidity Models. In connection with our resolution planning efforts, we have established our Resolution Liquidity Adequacy and Positioning framework, which estimates liquidity needs of our major subsidiaries in a stressed environment. The liquidity needs are measured using our Modeled Liquidity Outflow assumptions and include certain additional inter-affiliate exposures. We have also established our Resolution Liquidity Execution Need framework, which measures the liquidity needs of our major subsidiaries to stabilize and wind down following a Group Inc. bankruptcy filing in accordance with our preferred resolution strategy.

In addition, we have established a triggers and alerts framework, which is designed to provide the Board with information needed to make an informed decision on whether and when to commence bankruptcy proceedings for Group Inc.

#### Limits

We use liquidity risk limits at various levels and across liquidity risk types to manage the size of our liquidity exposures. Limits are measured relative to acceptable levels of risk given our liquidity risk tolerance. See "Overview and Structure of Risk Management" for information about the limit approval process.

Limits are monitored by Treasury and Liquidity Risk. Liquidity Risk is responsible for identifying and escalating to senior management and/or the appropriate risk committee, on a timely basis, instances where limits have been exceeded.

#### **GCLA and Unencumbered Metrics**

GCLA. Based on the results of our internal liquidity risk models, described above, as well as our consideration of other factors, including, but not limited to, a qualitative assessment of our condition, as well as the financial markets, we believe our liquidity position as of both September 2024 and December 2023 was appropriate. We strictly limit our GCLA to a narrowly defined list of securities and cash because they are highly liquid, even in a difficult funding environment. We do not include other potential sources of excess liquidity in our GCLA, such as less liquid unencumbered securities or committed credit facilities.

The table below presents information about our GCLA.

	Average for the				
	Three Months Ended				
	S	eptember	June		
\$ in millions		2024	2024		
Denomination					
U.S. dollar	\$	315,587	\$ 286,084		
Non-U.S. dollar		131,781	137,842		
Total	\$	447,368	\$ 423,926		
Asset Class					
Overnight cash deposits	\$	177,539	\$ 194,005		
U.S. government obligations		176,672	154,696		
U.S. agency obligations		38,501	23,763		
Non-U.S. government obligations		54,656	51,462		
Total	\$	447,368	\$ 423,926		
Entity Type					
Group Inc. and Funding IHC	\$	77,037	\$ 64,537		
Major broker-dealer subsidiaries		118,216	117,440		
Major bank subsidiaries		252,115	241,949		
Total	\$	447,368	\$ 423,926		

In the table above:

- The U.S. dollar-denominated GCLA consists of (i) unencumbered U.S. government and agency obligations (including highly liquid U.S. agency mortgage-backed obligations), all of which are eligible as collateral in Federal Reserve open market operations and (ii) certain overnight U.S. dollar cash deposits.
- The non-U.S. dollar-denominated GCLA consists of non-U.S. government obligations (only unencumbered German, French, Japanese and U.K. government obligations) and certain overnight cash deposits in highly liquid currencies.

We maintain our GCLA to enable us to meet current and potential liquidity requirements of our parent company, Group Inc., and its subsidiaries. Our Modeled Liquidity Outflow and Intraday Liquidity Model incorporate a requirement for Group Inc., as well as a standalone requirement for each of our major broker-dealer and bank subsidiaries. Funding IHC is required to provide the necessary liquidity to Group Inc. during the ordinary course of business, and is also obligated to provide capital and liquidity support to major subsidiaries in the event of our material financial distress or failure. Liquidity held directly in each of our major broker-dealer and bank subsidiaries is intended for use only by that subsidiary to meet its liquidity requirements and is assumed not to be available to Group Inc. or Funding IHC unless (i) legally provided for and (ii) there are no additional regulatory, tax or other restrictions. In addition, the Modeled Liquidity Outflow and Intraday Liquidity Model also incorporate a broader assessment of standalone liquidity requirements for other subsidiaries and we hold a portion of our GCLA directly at Group Inc. or Funding IHC to support such requirements.

Other Unencumbered Assets. In addition to our GCLA. we have a significant amount of other unencumbered cash and financial instruments, including other government obligations, high-grade money market securities, corporate obligations, marginable equities, loans and cash deposits not included in our GCLA. The fair value of our unencumbered assets averaged \$290.14 billion for the three months ended September 2024 and \$290.80 billion for the three months ended June 2024. We do not consider these assets liquid enough to be eligible for our GCLA.

#### Liquidity Regulatory Framework

We are subject to a minimum Liquidity Coverage Ratio (LCR) under the LCR rule approved by the U.S. federal bank regulatory agencies. The LCR rule requires organizations to maintain an adequate ratio of eligible high-quality liquid assets (HQLA) to expected net cash outflows under an acute, short-term liquidity stress scenario. Eligible HQLA excludes HQLA held by subsidiaries that is in excess of their minimum requirement and is subject to transfer restrictions. We are required to maintain a minimum LCR of 100%. We expect that fluctuations in client activity, business mix and the market environment will impact our LCR.

The table below presents information about our average daily LCR.

	Average for the			
	Three Month	ns Ended		
	September	June		
\$ in millions	2024	2024		
Total HQLA	\$434,256	\$411,413		
Eligible HQLA	\$369,119	\$339,477		
Net cash outflows	\$277,825	\$269,661		
LCR	133%	126%		

In the table above, our average quarterly LCR represents the average of our daily LCRs during the quarter.

We are also subject to a minimum Net Stable Funding Ratio (NSFR) under the NSFR rule approved by the U.S. federal bank regulatory agencies. The NSFR rule requires large U.S. banking organizations to maintain available stable funding (ASF) above their required stable funding (RSF) over a oneyear time horizon. Total ASF excludes ASF held by subsidiaries that is in excess of their minimum requirement and is subject to transfer restrictions. We are required to maintain a minimum NSFR of 100%. We expect that fluctuations in client activity, business mix and the market environment will impact our NSFR.

The table below presents information about our average daily NSFR.

	Average fo Three Month			
	September	June		
\$ in millions	2024	2024		
Total ASF	\$673,860	\$657,768		
Total RSF	\$577,525	\$573,534		
NSFR	117%	115%		

In the table above, our average quarterly NSFR represents the average of our daily NSFRs during the quarter.

The following provides information about our subsidiary liquidity regulatory requirements:

- GS Bank USA. GS Bank USA is subject to a minimum LCR of 100% under the LCR rule approved by the U.S. federal bank regulatory agencies. As of September 2024, GS Bank USA's LCR exceeded the minimum requirement. The NSFR requirement described above also applies to GS Bank USA. As of September 2024, GS Bank USA's NSFR exceeded the minimum requirement.
- **GSI and GSIB.** GSI and GSIB are subject to a minimum LCR of 100% under the LCR rule approved by the U.K. regulatory authorities. GSI's and GSIB's average monthly LCR for the trailing twelve-month period ended September 2024 exceeded the minimum requirement. GSI and GSIB are subject to the applicable NSFR requirement in the U.K. As of September 2024, both GSI's and GSIB's NSFR exceeded the minimum requirement.
- **GSBE.** GSBE is subject to a minimum LCR of 100% under the LCR rule approved by the European Parliament and Council. GSBE's average monthly LCR for the trailing twelve-month period ended September 2024 exceeded the minimum requirement. GSBE is subject to the applicable NSFR requirement in the E.U. As of September 2024, GSBE's NSFR exceeded the minimum requirement.
- Other Subsidiaries. We monitor local regulatory liquidity requirements of our subsidiaries to ensure compliance. For many of our subsidiaries, these requirements either have changed or are likely to change in the future due to the implementation of the Basel Committee's framework for liquidity risk measurement, standards and monitoring, as well as other regulatory developments.

The implementation of these rules and any amendments adopted by the regulatory authorities could impact our liquidity and funding requirements and practices in the future.

#### **Credit Ratings**

We rely on the short- and long-term debt capital markets to fund a significant portion of our day-to-day operations, and the cost and availability of debt financing is influenced by our credit ratings. Credit ratings are also important when we are competing in certain markets, such as OTC derivatives, and when we seek to engage in longer-term transactions. See "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K for information about the risks associated with a reduction in our credit ratings.

The table below presents the unsecured credit ratings and outlook of Group Inc.

	As of September 2024								
	DBRS	Fitch	Moody's	R&I	S&P				
Short-term debt	R-1 (middle)	F1	P-1	a-1	A-2				
Long-term debt	A (high)	Α	A2	Α	BBB+				
Subordinated debt	Α	BBB+	Baa2	A-	BBB				
Trust preferred	Α	BBB-	Baa3	N/A	BB+				
Preferred stock	BBB (high)	BBB-	Ba1	N/A	BB+				
Ratings outlook	Stable	Stable	Stable	Stable	Stable				

In the table above:

- The ratings and outlook are by DBRS, Inc. (DBRS), Fitch, Inc. (Fitch), Moody's Investors Service (Moody's), Rating and Investment Information, Inc. (R&I), and Standard & Poor's Ratings Services (S&P).
- The ratings for trust preferred relate to the guaranteed preferred beneficial interests issued by Goldman Sachs Capital I.
- The DBRS, Fitch, Moody's and S&P ratings for preferred stock include the APEX issued by Goldman Sachs Capital II and Goldman Sachs Capital III.

The table below presents the unsecured credit ratings and outlook of GS Bank USA, GSIB, GSBE, GS&Co. and GSI.

	As of September 2024					
	Fitch	Moody's	S&P			
GS Bank USA						
Short-term debt	F1	P-1	A-1			
Long-term debt	A+	A1	A+			
Short-term bank deposits	F1+	P-1	N/A			
Long-term bank deposits	AA-	A1	N/A			
Ratings outlook	Stable	Stable	Stable			
GSIB						
Short-term debt	F1	P-1	A-1			
Long-term debt	A+	A1	A+			
Short-term bank deposits	F1	P-1	N/A			
Long-term bank deposits	A+	A1	N/A			
Ratings outlook	Stable	Stable	Stable			
GSBE						
Short-term debt	F1	P-1	A-1			
Long-term debt	A+	A1	A+			
Short-term bank deposits	N/A	P-1	N/A			
Long-term bank deposits	N/A	A1	N/A			
Ratings outlook	Stable	Stable	Stable			
GS&Co.						
Short-term debt	F1	N/A	A-1			
Long-term debt	A+	N/A	A+			
Ratings outlook	Stable	N/A	Stable			
GSI						
Short-term debt	F1	P-1	A-1			
Long-term debt	A+	A1	A+			
Ratings outlook	Stable	Stable	Stable			

We believe our credit ratings are primarily based on the credit rating agencies' assessment of:

- Our liquidity, market, credit and operational risk management practices;
- Our level and variability of earnings;
- Our capital base;
- Our franchise, reputation and management;
- Our corporate governance; and
- The external operating and economic environment, including, in some cases, the assumed level of government support or other systemic considerations, such as potential resolution.

Certain of our derivatives have been transacted under bilateral agreements with counterparties who may require us to post collateral or terminate the transactions based on changes in our credit ratings. We manage our GCLA to ensure we would, among other potential requirements, be able to make the additional collateral or termination payments that may be required in the event of a two-notch reduction in our long-term credit ratings, as well as collateral that has not been called by counterparties, but is available to them. See Note 7 to the consolidated financial statements for further information about derivatives with credit-related contingent features and the additional collateral or termination payments related to our net derivative liabilities under bilateral agreements that could have been called by counterparties in the event of a one- or two-notch downgrade in our credit ratings.

#### **Cash Flows**

As a global financial institution, our cash flows are complex and bear little relation to our net earnings and net assets. Consequently, we believe that traditional cash flow analysis is less meaningful in evaluating our liquidity position than the liquidity and asset-liability management policies described above. Cash flow analysis may, however, be helpful in highlighting certain macro trends and strategic initiatives in our businesses.

Nine Months Ended September 2024. Our cash and cash equivalents decreased by \$86.89 billion to \$154.69 billion at the end of the third quarter of 2024, primarily due to net cash used for operating and investing activities, partially offset by net cash provided by financing activities. The net cash used for operating activities primarily reflected cash outflows from trading assets, partially offset by cash inflows from collateralized transactions (reflecting a decrease in collateralized agreements and an increase in collateralized financings), trading liabilities and net earnings. The net cash used for investing activities primarily reflected net purchases of investments (primarily U.S. government and agency obligations accounted for as available-for-sale and held-tomaturity securities). The net cash provided by financing activities primarily reflected cash inflows from deposits (reflecting an increase in consumer deposits, partially offset by a decrease in transaction banking deposits) and cash inflows from other secured financings, partially offset by net repayments of unsecured long-term borrowings.

Nine Months Ended September 2023. Our cash and cash equivalents decreased by \$1.95 billion to \$239.88 billion at the end of the third quarter of 2023, primarily due to net cash used for investing activities and the effect of exchange rate changes on cash and cash equivalents, partially offset by net cash provided by operating activities. The net cash used for investing activities primarily reflected net purchases of investments (primarily U.S. government obligations accounted for as held-to-maturity securities). The decrease in net cash and cash equivalents as a result of changes in foreign exchange rates was due to the U.S. dollar strengthening during the first nine months of 2023. The net cash provided by operating activities primarily reflected cash inflows from collateralized transactions (reflecting both an increase in collateralized financings and a decrease in collateralized agreements), partially offset by cash outflows from trading assets.

### Market Risk Management

#### Overview

Market risk is the risk of an adverse impact to our earnings due to changes in market conditions. Our assets and liabilities that give rise to market risk primarily include positions held for market making for our clients and for our investing and financing activities, and these positions change based on client demands and our investment opportunities. We employ a variety of risk measures, each described in the respective sections below, to monitor market risk. Categories of market risk include the following:

- Interest rate risk: results from exposures to changes in the level, slope and curvature of yield curves, the volatilities of interest rates, prepayment speeds and credit spreads;
- Equity price risk: results from exposures to changes in prices and volatilities of individual equities, baskets of equities and equity indices;
- Currency rate risk: results from exposures to changes in spot prices, forward prices and volatilities of currency rates; and
- Commodity price risk: results from exposures to changes in spot prices, forward prices and volatilities of commodities, such as crude oil, petroleum products, natural gas, electricity, and precious and base metals.

Market Risk, which is independent of our revenue-producing units and reports to our chief risk officer, has primary responsibility for assessing, monitoring and managing our market risk through firmwide oversight across our global businesses.

Managers in revenue-producing units, Treasury and Market Risk discuss market information, positions and estimated loss scenarios on an ongoing basis. Managers in revenueproducing units and Treasury are accountable for managing risk within prescribed limits. These managers have in-depth knowledge of their positions, markets and the instruments available to hedge their exposures.

#### **Market Risk Management Process**

Our process for managing market risk includes the critical components of our risk management framework described in the "Overview and Structure of Risk Management," as well as the following:

- Monitoring compliance with established market risk limits and reporting our exposures;
- Diversifying exposures;
- Controlling position sizes; and
- Evaluating mitigants, such as economic hedges in related securities or derivatives.

Our market risk management systems enable us to perform an independent calculation of Value-at-Risk (VaR), Earningsat-Risk (EaR) and other stress measures, capture risk measures at individual position levels, attribute risk measures to individual risk factors of each position, report many different views of the risk measures (e.g., by desk, business, product type or entity) and produce ad hoc analyses in a timely manner.

#### **Risk Measures**

We produce risk measures and monitor them against established market risk limits. These measures reflect an extensive range of scenarios and the results are aggregated at product, business and firmwide levels.

We use a variety of risk measures to estimate the size of potential losses for both moderate and more extreme market moves over both short- and long-term time horizons. Our primary risk measures are VaR, EaR and other stress tests.

Our risk reports detail key risks, drivers and changes for each desk and business, and are distributed daily to senior management of both our revenue-producing units and our independent risk oversight and control functions.

Value-at-Risk. VaR is the potential loss in value due to adverse market movements over a defined time horizon with a specified confidence level. For assets and liabilities included in VaR, see "Financial Statement Linkages to Market Risk Measures." We typically employ a one-day time horizon with a 95% confidence level. We use a single VaR model, which captures risks, including those related to interest rates, equity prices, currency rates and commodity prices. As such, VaR facilitates comparison across portfolios of different risk characteristics. VaR also captures the diversification of aggregated risk at the firmwide level.

We are aware of the inherent limitations to VaR and therefore use a variety of risk measures in our market risk management process. Inherent limitations to VaR include:

- VaR does not estimate potential losses over longer time horizons where moves may be extreme;
- VaR does not take account of the relative liquidity of different risk positions; and
- Previous moves in market risk factors may not produce accurate predictions of all future market moves.

To comprehensively capture our exposures and relevant risks in our VaR calculation, we use historical simulations with full valuation of market factors at the position level by simultaneously shocking the relevant market factors for that position. These market factors include spot prices, credit spreads, funding spreads, yield curves, volatility and correlation, and are updated periodically based on changes in the composition of positions, as well as variations in market conditions. We sample from five years of historical data to generate the scenarios for our VaR calculation. The historical data is weighted so that the relative importance of the data reduces over time. This gives greater importance to more recent observations and reflects current asset volatilities, which improves the accuracy of our estimates of potential loss. As a result, even if our positions included in VaR were unchanged, our VaR would increase with increasing market volatility and vice versa.

Given its reliance on historical data, VaR is most effective in estimating risk exposures in markets in which there are no sudden fundamental changes or shifts in market conditions.

Our VaR measure does not include:

- Positions that are not accounted for at fair value, such as held-to-maturity securities and loans, deposits and unsecured borrowings that are accounted for at amortized cost;
- Available-for-sale securities for which the related unrealized fair value gains and losses are included in accumulated other comprehensive income/(loss);
- Positions that are best measured and monitored using sensitivity measures; and
- The impact of changes in counterparty and our own credit spreads on derivatives, as well as changes in our own credit spreads on financial liabilities for which the fair value option was elected.

We perform daily backtesting of our VaR model (i.e., comparing daily net revenues for positions included in VaR to the VaR measure calculated as of the prior business day) at the firmwide level and for each of our businesses and major regulated subsidiaries.

**Earnings-at-Risk.** We manage our interest rate risk using the EaR metric. EaR measures the estimated impact of changes in interest rates to our net revenues and preferred stock dividends over a defined time horizon. EaR complements the VaR metric, which measures the impact of interest rate changes that have an immediate impact on the fair values of our assets and liabilities (i.e., mark-to-market changes). Our exposure to interest rate risk occurs due to a variety of factors, including, but not limited to:

- Differences in maturity or repricing dates of assets, liabilities, preferred stock and certain off-balance sheet instruments.
- Differences in the amounts of assets, liabilities, preferred stock and certain off-balance sheet instruments with the same maturity or repricing dates.
- Certain interest rate sensitive fees.

Treasury manages the aggregated interest rate risk from all businesses using our investment securities portfolio and interest rate derivatives. We measure EaR over a one-year time horizon following a 100- and 200-basis point instantaneous parallel shock in both short- and long-term interest rates. This sensitivity is calculated relative to a baseline market scenario, which takes into consideration, among other things, the market's expectation of forward rates, as well as our expectation of future business activity. These scenarios include contractual elements of assets, liabilities, preferred stock, and certain off-balance sheet instruments, such as rates of interest, principal repayment schedules, maturity and reset dates, and any interest rate ceilings or floors, as well as assumptions with respect to our balance sheet size and composition, prepayment behavior and deposit repricing. Deposit repricing is captured by evaluating the change in deposit rate paid relative to the change in market rates (deposit beta) and we calibrate the deposit betas used in our models by using a number of factors, including observed historical behavior, future expectations, funding needs and the competitive landscape. We continuously monitor the performance of our key assumptions against observed behavior and regularly review their sensitivity on our risk metrics.

We manage EaR with a goal to reduce potential volatility resulting from changes in interest rates so it remains within our EaR risk appetite. Our EaR scenario is regularly evaluated and updated, if necessary, to reflect changes in our business plans, market conditions and other macroeconomic factors. While management uses the best information available to estimate EaR, actual results may differ materially as a result of, among other things, changes in the economic environment or assumptions used in the process. We also measure the sensitivity of the economic value of our equity (EVE) to changes in interest rates. Compared to EaR, EVE provides a longer-term measurement of the interest rate risk exposure, primarily on non-trading assets and liabilities, by capturing the net impact of changes in interest rates to the present value of their cash flows.

Risk, which is independent of our revenue-producing units, and Treasury, have primary responsibility for assessing and monitoring EaR and EVE sensitivity through firmwide oversight, including oversight of interest rate risk stress testing and assumptions, and the establishment of our risk appetite.

**Stress Testing.** Stress testing is a method of determining the effect of various hypothetical stress scenarios. We use stress tests to examine risks of specific portfolios, as well as the potential impact of our significant risk exposures. We use a variety of stress testing techniques to calculate the potential loss from a wide range of market moves on our portfolios, including firmwide stress tests, sensitivity analysis and scenario analysis. The results of our various stress tests are analyzed together for risk management purposes. "Overview and Structure of Risk Management" information about firmwide stress tests.

Sensitivity analysis is used to quantify the impact of a market move in a single risk factor across all positions (e.g., equity prices or credit spreads) using a variety of defined market shocks, ranging from those that could be expected over a one-day time horizon up to those that could take many months to occur. We also use sensitivity analysis to quantify the impact of the default of any single entity, which captures the risk of large or concentrated exposures.

Scenario analysis is used to quantify the impact of a specified event, including how the event impacts multiple risk factors simultaneously. For example, for sovereign stress testing we calculate potential direct exposure associated with our sovereign positions, as well as the corresponding debt, equity and currency exposures associated with our non-sovereign positions that may be impacted by the sovereign distress. When conducting scenario analysis, we often consider a number of possible outcomes for each scenario, ranging from moderate to severely adverse market impacts. In addition, these stress tests are constructed using both historical events and forward-looking hypothetical scenarios.

Unlike VaR measures, which have an implied probability because they are calculated at a specified confidence level, there may not be an implied probability that our stress testing scenarios will occur. Instead, stress testing is used to model both moderate and more extreme moves in underlying market factors. When estimating potential loss, we generally assume that our positions cannot be reduced or hedged (although experience demonstrates that we are generally able to do so).

#### Limits

We use market risk limits at various levels to manage the size of our market exposures. These limits are set based on VaR, EaR and on a range of stress tests relevant to our exposures. See "Overview and Structure of Risk Management" for information about the limit approval process.

Limits are monitored by Treasury and Risk. Risk is responsible for identifying and escalating to senior management and/or the appropriate risk committee, on a timely basis, instances where limits have been exceeded (e.g., due to positional changes or changes in market conditions, such as increased volatilities or changes in correlations). Such instances are remediated by a reduction in the positions we hold and/or a temporary or permanent increase to the limit, if warranted.

#### Metrics

We analyze VaR at the firmwide level and a variety of more detailed levels, including by risk category, business and region. Diversification effect in the tables below represents the difference between total VaR and the sum of the VaRs for the four risk categories. This effect arises because the four market risk categories are not perfectly correlated. Substantially all positions in VaR are included within Global Banking & Markets.

The table below presents our average daily VaR.

		Three !	Мo	nths E	nd	ed	Nine M Ided Se	 
	Sep	tember		June	Se	eptember		
\$ in millions		2024		2024		2023	2024	2023
Categories								
Interest rates	\$	75	\$	81	\$	88	\$ 81	\$ 99
Equity prices		39		33		28	34	29
Currency rates		26		30		19	25	26
Commodity prices		20		18		18	18	19
Diversification effect		(68)		(71)		(66)	(68)	(72)
Total	\$	92	\$	91	\$	87	\$ 90	\$ 101

Our average daily VaR of \$92 million for the three months ended September 2024 was essentially unchanged compared with the three months ended June 2024. Increases in the equity prices and commodity prices categories and a decrease in the diversification effect were largely offset by decreases in the interest rates and currency rates categories.

Our average daily VaR increased to \$92 million for the three months ended September 2024 from \$87 million for the three months ended September 2023, primarily due to increased exposures. The total increase was primarily driven by increases in the equity prices and currency rates categories, partially offset by a decrease in the interest rates category.

Our average daily VaR decreased to \$90 million for the nine months ended September 2024 from \$101 million for the nine months ended September 2023, due to lower levels of volatility, partially offset by increased exposures. The total decrease was primarily driven by a decrease in the interest rates category, partially offset by an increase in the equity prices category and a decrease in the diversification effect.

The table below presents our period-end VaR.

	As of					
	Sep	tember		June	Se	eptember
\$ in millions		2024		2024		2023
Categories						
Interest rates	\$	74	\$	66	\$	78
Equity prices		38		39		24
Currency rates		26		33		18
Commodity prices		22		22		19
Diversification effect		(70)		(78)		(54)
Total	\$	90	\$	82	\$	85

Our period-end VaR increased to \$90 million as of September 2024 from \$82 million as of June 2024, due to increased exposures, partially offset by lower levels of volatility. The total increase was primarily driven by an increase in the interest rates category and a decrease in the diversification effect, partially offset by a decrease in the currency rates category.

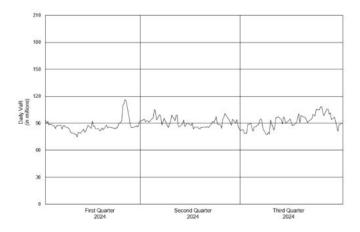
Our period-end VaR increased to \$90 million as of September 2024 from \$85 million as of September 2023, due to increased exposures, partially offset by lower levels of volatility. The total increase was driven by increases in the equity prices, currency rates and commodity prices categories, partially offset by an increase in the diversification effect and a decrease in the interest rates category.

During the nine months ended September 2024, there was a permanent increase to the firmwide VaR risk limit due to higher levels of volatility and increased exposures. The firmwide VaR risk limit was not exceeded during this period. During 2023, the firmwide VaR risk limit was not exceeded and there were no permanent changes to the firmwide VaR risk limit. However, the firmwide VaR risk limit was temporarily changed on four occasions as a result of changes in the market environment in the first half of 2023.

The table below presents our high and low VaR.

		Three Months Ended										
	Se	eptemb	er	2024		June	202	24	September 2023			
\$ in millions		High		Low		High		Low		High		Low
Categories												
Interest rates	\$	92	\$	57	\$	105	\$	66	\$	111	\$	78
Equity prices	\$	61	\$	31	\$	46	\$	26	\$	49	\$	23
Currency rates	\$	38	\$	13	\$	40	\$	15	\$	26	\$	14
Commodity prices	\$	23	\$	18	\$	23	\$	15	\$	23	\$	15
Firmwide												
VaR	\$	109	\$	77	\$	105	\$	82	\$	102	\$	79

The chart below presents our daily VaR for the nine months ended September 2024.



The table below presents, by number of business days, the frequency distribution of our daily net revenues for positions included in VaR.

	Three Mo	onths	Nine Mor	nths
	Ended Sept	ember	Ended Sept	ember
\$ in millions	2024	2023	2024	2023
>\$100	13	13	47	47
\$75 - \$100	12	13	31	32
\$50 - \$75	12	12	45	40
\$25 - \$50	13	19	35	34
\$0 - \$25	10	4	20	14
\$(25) - \$0	1	2	6	16
\$(50) - \$(25)	1	_	2	2
\$(75) - \$(50)	_	_	-	1
\$(100) - \$(75)	_	_	-	_
<\$(100)	2	-	2	1
Total	64	63	188	187

Daily net revenues for positions included in VaR are compared with VaR calculated as of the end of the prior business day. Net losses incurred on a single day for such positions exceeded our 95% one-day VaR (i.e., a VaR exception) on two occasions during the three and nine months ended September 2024. There were no VaR exceptions during the three months ended September 2023 and there was one VaR exception during the nine months ended September 2023.

During periods in which we have significantly more positive net revenue days than net revenue loss days, we expect to have fewer VaR exceptions because, under normal conditions, our business model generally produces positive net revenues. In periods in which our franchise revenues are adversely affected, we generally have more loss days, resulting in more VaR exceptions. The daily net revenues for positions included in VaR used to determine VaR exceptions reflect the impact of any intraday activity, including bid/offer net revenues, which are more likely than not to be positive by their nature.

#### **Sensitivity Measures**

Certain portfolios and individual positions are not included in VaR because VaR is not the most appropriate risk measure. Other sensitivity measures we use to analyze market risk are described below.

**10% Sensitivity Measures.** The table below presents our market risk by asset category for positions accounted for at fair value or accounted for at the lower of cost or fair value, that are not included in VaR.

		As of						
	September June Septem							
\$ in millions		2024		2024		2023		
Equity	\$	1,545	\$	1,550	\$	1,528		
Debt		1,991		2,004		2,662		
Total	\$	3,536	\$	3,554	\$	4,190		

In the table above:

- The market risk of these positions is determined by estimating the potential reduction in net revenues of a 10% decline in the value of the underlying positions.
- Equity positions relate to private and public equity securities, which primarily include investments in real estate and infrastructure Substantially all such equity positions are included within Asset & Wealth Management.
- Debt positions include mezzanine and senior debt, and corporate and real estate loans, substantially all of which are included within Asset & Wealth Management. Debt positions also included approximately \$1.7 billion as of September 2024 and \$1.9 billion as of June 2024 of GM cobranded credit card loans, and approximately \$6.0 billion as of September 2023 of GreenSky loans that were classified as held for sale. These held for sale loans were included within Platform Solutions.
- Funded equity and debt positions are included in our consolidated balance sheets in investments and loans, and the related hedges are included in our consolidated balance sheets in derivatives. See Note 8 to the consolidated financial statements for further information about investments, Note 9 to the consolidated financial statements for further information about loans and Note 7 to the consolidated financial statements for further information about derivatives.
- These measures do not reflect the diversification effect across asset categories or across other market risk measures.

Credit and Funding Spread Sensitivity on Derivatives and Financial Liabilities. VaR excludes the impact of changes in counterparty credit spreads, our own credit spreads and unsecured funding spreads on derivatives, as well as changes in our own credit spreads (debt valuation adjustment) on financial liabilities for which the fair value option was elected. The estimated sensitivity to a one basis point increase in credit spreads (counterparty and our own) and unsecured funding spreads on derivatives (including hedges) was a loss of \$2 million as of September 2024 and \$1 million as of June 2024. In addition, the estimated sensitivity to a one basis point increase in our own credit spreads on financial liabilities for which the fair value option was elected was a gain of \$45 million as of September 2024 and \$43 million as of June 2024. However, the actual net impact of a change in our own credit spreads is also affected by the liquidity, duration and convexity (as the sensitivity is not linear to changes in yields) of those financial liabilities for which the fair value option was elected, as well as the relative performance of any hedges undertaken.

**Earnings-at-Risk.** The table below presents the impact of a parallel shift in rates on our net revenues and preferred stock dividends over the next 12 months relative to the baseline scenario.

	As of		
	Sep	otember	June
\$ in millions		2024	2024
+100 basis points parallel shift in rates	\$	125 \$	201
-100 basis points parallel shift in rates	\$	(180) \$	(298)
+200 basis points parallel shift in rates	\$	165 \$	362
-200 basis points parallel shift in rates	\$	(357) \$	(599)

In the table above, the EaR metric utilized various assumptions, including, among other things, balance sheet size and composition, prepayment behavior and deposit repricing, all of which have inherent uncertainties. The EaR metric does not represent a forecast of our net revenues and preferred stock dividends. We expect our EaR to be more sensitive to short-term interest rates than long-term rates.

### **Other Market Risk Considerations**

We make investments in securities that are accounted for as available-for-sale, held-to-maturity or under the equity method which are included in investments in the consolidated balance sheets. See Note 8 to the consolidated financial statements for further information.

Direct investments in real estate are accounted for at cost less accumulated depreciation. See Note 12 to the consolidated financial statements for further information about other assets.

# Financial Statement Linkages to Market Risk Measures

We employ a variety of risk measures, each described in the respective sections above, to monitor market risk across the consolidated balance sheets and consolidated statements of earnings. The related gains and losses on these positions are included in market making, other principal transactions, interest income and interest expense in the consolidated statements of earnings, and debt valuation adjustment and unrealized gains/(losses) on available-for-sale securities in the consolidated statements of comprehensive income.

The table below presents certain assets and liabilities accounted for at fair value or accounted for at the lower of cost or fair value in our consolidated balance sheets and the market risk measures used to assess those assets and liabilities.

Assets or Liabilities	Market Risk Measures
Collateralized agreements and financings	VaR
Customer and other receivables	10% Sensitivity Measures
Trading assets and liabilities	VaR Credit Spread Sensitivity 10% Sensitivity Measures
Investments	VaR 10% Sensitivity Measures
Loans	VaR 10% Sensitivity Measures
Other assets and liabilities	VaR
Deposits	VaR Credit Spread Sensitivity
Unsecured borrowings	VaR Credit Spread Sensitivity

In addition to the above, we measure the interest rate risk for all positions within our consolidated balance sheets using the EaR metric.

### **Credit Risk Management**

#### Overview

Credit risk represents the potential for loss due to the default or deterioration in credit quality of a counterparty (e.g., an OTC derivatives counterparty or a borrower) or an issuer of securities or other instruments we hold. Our exposure to credit risk comes mostly from client transactions in OTC derivatives and loans and lending commitments. Credit risk also comes from cash placed with banks, securities financing transactions (i.e., resale and repurchase agreements and securities borrowing and lending activities) and customer and other receivables.

Credit Risk, which is independent of our revenue-producing units and reports to our chief risk officer, has primary responsibility for assessing, monitoring and managing our credit risk through firmwide oversight across our global businesses. In addition, we hold other positions that give rise to credit risk (e.g., bonds and secondary bank loans). These credit risks are captured as a component of market risk measures, which are monitored and managed by Market Risk. We also enter into derivatives to manage market risk exposures. Such derivatives also give rise to credit risk, which is monitored and managed by Credit Risk.

#### **Credit Risk Management Process**

Our process for managing credit risk includes the critical components of our risk management framework described in the "Overview and Structure of Risk Management," as well as the following:

- Monitoring compliance with established credit risk limits and reporting our credit exposures and credit concentrations;
- Establishing or approving underwriting standards;
- Assessing the likelihood that a counterparty will default on its payment obligations;
- Measuring our current and potential credit exposure and losses resulting from a counterparty default;
- Using credit risk mitigants, including collateral and hedging; and
- Maximizing recovery through active workout and restructuring of claims.

We also perform credit analyses, which incorporate initial and ongoing evaluations of the capacity and willingness of a counterparty to meet its financial obligations. For substantially all of our credit exposures, the core of our process is an annual counterparty credit evaluation or more frequently if deemed necessary as a result of events or changes in circumstances. We determine an internal credit rating for the counterparty by considering the results of the credit evaluations and assumptions with respect to the nature of and outlook for the counterparty's industry and the economic environment. For collateralized loans, we also take into consideration collateral received or other credit support arrangements when determining an internal credit rating. Senior personnel, with expertise in specific industries, inspect and approve credit reviews and internal credit ratings.

Our risk assessment process may also include, where applicable, reviewing certain key metrics, including, but not limited to, delinquency status, collateral value, FICO credit scores and other risk factors.

Our credit risk management systems capture credit exposure to individual counterparties and on an aggregate basis to counterparties and their subsidiaries. These systems also provide management with comprehensive information about our aggregate credit risk by product, internal credit rating, industry, country and region.

#### **Risk Measures**

We measure our credit risk based on the potential loss in the event of non-payment by a counterparty using current and potential exposure. For derivatives and securities financing transactions, current exposure represents the amount presently owed to us after taking into account applicable netting and collateral arrangements, while potential exposure represents our estimate of the future exposure that could arise over the life of a transaction based on market movements within a specified confidence level. Potential exposure also takes into account netting and collateral arrangements. For loans and lending commitments, the primary measure is a function of the notional amount of the position.

#### **Stress Tests**

We conduct regular stress tests to calculate the credit exposures, including potential concentrations that would result from applying shocks to counterparty credit ratings or credit risk factors (e.g., currency rates, interest rates, equity prices). These shocks cover a wide range of moderate and more extreme market movements, including shocks to multiple risk factors, consistent with the occurrence of a severe market or economic event. In the case of sovereign default, we estimate the direct impact of the default on our sovereign credit exposures, changes to our credit exposures arising from potential market moves in response to the default, and the impact of credit market deterioration on corporate borrowers and counterparties that may result from the sovereign default. Unlike potential exposure, which is calculated within a specified confidence level, stress testing does not generally assume a probability of these events occurring. We also perform firmwide stress tests. See "Overview and Structure of Risk Management" for information about firmwide stress tests.

To supplement these regular stress tests, as described above, we also conduct tailored stress tests on an ad hoc basis in response to specific market events that we deem significant. We also utilize these stress tests to estimate the indirect impact of certain hypothetical events on our country exposures, such as the impact of credit market deterioration on corporate borrowers and counterparties along with the shocks to the risk factors described above. The parameters of these shocks vary based on the scenario reflected in each stress test. We review estimated losses produced by the stress tests in order to understand their magnitude, highlight potential loss concentrations, and assess and seek to mitigate our exposures, where necessary.

#### Limits

We use credit risk limits at various levels, as well as underwriting standards to manage the size and nature of our credit exposures. Limits for industries and countries are based on our risk appetite and are designed to allow for regular monitoring, review, escalation and management of credit risk concentrations. See "Overview and Structure of Risk Management" for information about the limit approval process.

Credit Risk is responsible for monitoring these limits, and identifying and escalating to senior management and/or the appropriate risk committee, on a timely basis, instances where limits have been exceeded.

#### **Risk Mitigants**

To reduce our credit exposures on derivatives and securities financing transactions, we may enter into netting agreements with counterparties that permit us to offset receivables and payables with such counterparties. We may also reduce credit risk with counterparties by entering into agreements that enable us to obtain collateral from them on an upfront or contingent basis and/or to terminate transactions if the counterparty's credit rating falls below a specified level. We monitor the fair value of the collateral to ensure that our credit exposures are appropriately collateralized. We seek to minimize exposures where there is a significant positive between the creditworthiness of correlation counterparties and the market value of collateral we receive.

For loans and lending commitments, depending on the credit quality of the borrower and other characteristics of the transaction, we employ a variety of potential risk mitigants. Risk mitigants include collateral provisions, guarantees, covenants, structural seniority of the bank loan claims and, for certain lending commitments, provisions in the legal documentation that allow us to adjust loan amounts, pricing, structure and other terms as market conditions change. The type and structure of risk mitigants employed can significantly influence the degree of credit risk involved in a loan or lending commitment.

When we do not have sufficient visibility into a counterparty's financial strength or when we believe a counterparty requires support from its parent, we may obtain third-party guarantees of the counterparty's obligations. We may also seek to mitigate our credit risk using credit derivatives or participation agreements.

#### **Credit Exposures**

As of September 2024, our aggregate credit exposure decreased compared with December 2023, primarily reflecting a decrease in cash deposits with central banks, partially offset by an increase in loans and lending commitments. The percentage of our credit exposures arising from non-investment-grade counterparties (based on our internally determined public rating agency equivalents) increased compared with December 2023, primarily reflecting a decrease in investment-grade credit exposure related to cash deposits with central banks. Our credit exposures are described further below.

Cash and Cash Equivalents. Our credit exposure on cash and cash equivalents arises from our unrestricted cash, and includes both interest-bearing and non-interest-bearing deposits. We seek to mitigate the risk of credit loss, by placing substantially all of our deposits with highly rated banks and central banks.

The table below presents our credit exposure from unrestricted cash and cash equivalents, and the concentration by industry, region and internally determined public rating agency equivalents.

	As of				
	September	December			
\$ in millions	2024	2023			
Cash and Cash Equivalents	\$140,036	\$224,493			
Industry					
Financial Institutions	16%	9%			
Sovereign	84%	91%			
Total	100%	100%			
Region					
Americas	60%	50%			
EMEA	30%	34%			
Asia	10%	16%			
Total	100%	100%			
Credit Quality (Credit Rating Equivalent)					
AAA	75%	65%			
AA	7%	15%			
Α	17%	20%			
BBB	1%	_			
Total	100%	100%			

The table above excludes cash segregated for regulatory and other purposes of \$14.65 billion as of September 2024 and \$17.08 billion as of December 2023.

**OTC Derivatives.** Our credit exposure on OTC derivatives arises primarily from our market-making activities. As a market maker, we enter into derivative transactions to provide liquidity to clients and to facilitate the transfer and hedging of their risks. We also enter into derivatives to manage market risk exposures. We manage our credit exposure on OTC derivatives using the credit risk process, measures, limits and risk mitigants described above.

We generally enter into OTC derivatives transactions under bilateral collateral arrangements that require the daily exchange of collateral. As credit risk is an essential component of fair value, we include a credit valuation adjustment (CVA) in the fair value of derivatives to reflect counterparty credit risk, as described in Note 7 to the consolidated financial statements. CVA is a function of the present value of expected exposure, the probability of counterparty default and the assumed recovery upon default.

The table below presents our net credit exposure from OTC derivatives and the concentration by industry and region.

	As of				
	September	December			
\$ in millions	2024	2023			
OTC derivative assets	\$41,561	\$42,950			
Collateral (not netted under U.S. GAAP)	(15,525)	(14,420)			
Net credit exposure	\$26,036	\$28,530			
Industry					
Consumer & Retail	4%	3%			
Diversified Industrials	11%	11%			
Financial Institutions	17%	21%			
Funds	23%	20%			
Healthcare	3%	2%			
Municipalities & Nonprofit	3%	4%			
Natural Resources & Utilities	16%	17%			
Sovereign	10%	14%			
Technology, Media & Telecommunications	8%	6%			
Other (including Special Purpose Vehicles)	5%	2%			
Total	100%	100%			
Region					
Americas	44%	48%			
EMEA	49%	45%			
Asia	7%	7%			
Total	100%	100%			

Our credit exposure (before any potential recoveries) to OTC derivative counterparties that defaulted during the nine months ended September 2024 remained low, representing less than 2% of our total credit exposure from OTC derivatives.

#### In the table above:

- OTC derivative assets, included in the consolidated balance sheets, are reported on a net-by-counterparty basis (i.e., the net receivable for a given counterparty) when a legal right of setoff exists under an enforceable netting agreement (counterparty netting) and are accounted for at fair value, net of cash collateral received under enforceable credit support agreements (cash collateral netting).
- Collateral represents cash collateral and the fair value of securities collateral, primarily U.S. and non-U.S. government and agency obligations, received under credit support agreements, that we consider when determining credit risk, but such collateral is not eligible for netting under U.S. GAAP.

The table below presents the distribution of our net credit exposure from OTC derivatives by tenor.

	Ir	vestment-	Non-Investment-	
\$ in millions		Grade	Grade / Unrated	Total
As of September 2024				
Less than 1 year	\$	15,715	\$ 8,111	\$ 23,826
1 – 5 years		19,079	5,864	24,943
Greater than 5 years		50,332	3,514	53,846
Total		85,126	17,489	102,615
Netting		(69,061)	(7,518)	(76,579)
Net credit exposure	\$	16,065	\$ 9,971	\$ 26,036
As of December 2023				
Less than 1 year	\$	19,314	\$ 7,700	\$ 27,014
1 – 5 years		19,673	6,331	26,004
Greater than 5 years		51,944	3,999	55,943
Total		90,931	18,030	108,961
Netting		(72,412)	(8,019)	(80,431)
Net credit exposure	\$	18,519	\$ 10,011	\$ 28,530

In the table above:

- Tenor is based on remaining contractual maturity for substantially all OTC derivative assets.
- Netting includes counterparty netting across tenor categories and collateral that we consider when determining credit risk (including collateral that is not eligible for netting under U.S. GAAP). Counterparty netting within the same tenor category is included within such tenor category.

The tables below present the distribution of our net credit exposure from OTC derivatives by tenor and internally determined public rating agency equivalents.

		Inv	est	tment-Gra	ade	Э		
\$ in millions	AAA	AA		А		BBB		Total
As of September 2024								
Less than 1 year	\$ 388	\$ 2,547	\$	6,220	\$	6,560	\$	15,715
1 – 5 years	815	4,874		7,798		5,592		19,079
Greater than 5 years	2,147	14,280		18,435		15,470		50,332
Total	3,350	21,701		32,453		27,622		85,126
Netting	(1,402)	(19,453)		(28,016)		(20,190)		(69,061)
Net credit exposure	\$ 1,948	\$ 2,248	\$	4,437	\$	7,432	\$	16,065
As of December 2023								
Less than 1 year	\$ 583	\$ 4,383	\$	7,718	\$	6,630	\$	19,314
1 – 5 years	1,226	4,850		6,755		6,842		19,673
Greater than 5 years	5,963	13,417		15,507		17,057		51,944
Total	7,772	22,650		29,980		30,529		90,931
Netting	(5,308)	(18,364)		(25,470)		(23,270)		(72,412)
Net credit exposure	\$ 2,464	\$ 4,286	\$	4,510	\$	7,259	\$	18,519
			Ν	on-Invest	tm	ent-Grade	e /	Unrated
\$ in millions				≤ BB		Unrated		Total
As of September 2024								
Less than 1 year			\$	7,293	\$	818	\$	8,111

	Non-investment-drade / Onrated			Offiated		
\$ in millions		≤ BB	- 1	Unrated		Total
As of September 2024						
Less than 1 year	\$	7,293	\$	818	\$	8,111
1 – 5 years		5,835		29		5,864
Greater than 5 years		3,380		134		3,514
Total		16,508		981		17,489
Netting		(7,447)		(71)		(7,518)
Net credit exposure	\$	9,061	\$	910	\$	9,971
As of December 2023						
Less than 1 year	\$	7,274	\$	426	\$	7,700
1 – 5 years		6,244		87		6,331
Greater than 5 years		3,887		112		3,999
Total		17,405		625		18,030
Netting		(7,975)		(44)		(8,019)
Net credit exposure	\$	9,430	\$	581	\$	10,011

**Lending Activities.** We manage our lending activities using the credit risk process, measures, limits and risk mitigants described above. Other lending positions, including secondary trading positions, are risk-managed as a component of market risk.

The table below presents our loans and lending commitments.

			Lending	
\$ in millions	Loans	Co	ommitments	Total
As of September 2024				
Corporate	\$ 32,819	\$	166,081	\$ 198,900
Commercial real estate	28,413		3,994	32,407
Residential real estate	25,018		2,241	27,259
Securities-based	16,014		1,535	17,549
Other collateralized	72,696		30,230	102,926
Consumer:				
Installment	196		-	196
Credit cards	19,908		77,446	97,354
Other	1,437		775	2,212
Total	\$ 196,501	\$	282,302	\$ 478,803
Allowance for loan losses	\$ (4,752)	\$	(697)	\$ (5,449)
As of December 2023				
Corporate	\$ 35,874	\$	144,463	\$ 180,337
Commercial real estate	26,028		3,440	29,468
Residential real estate	25,388		1,471	26,859
Securities-based	14,621		691	15,312
Other collateralized	62,225		23,731	85,956
Consumer:				
Installment	3,298		2,250	5,548
Credit cards	19,361		70,824	90,185
Other	1,613		888	2,501
Total	\$ 188,408	\$	247,758	\$ 436,166
Allowance for loan losses	\$ (5,050)	\$	(620)	\$ (5,670)

In the table above, lending commitments excluded \$5.40 billion as of September 2024 and \$5.81 billion as of December 2023 related to issued letters of credit which are classified as guarantees in our consolidated financial statements. See Note 18 to the consolidated financial statements for further information about guarantees.

See Note 9 to the consolidated financial statements for information about net charge-offs on wholesale and consumer loans, as well as past due and nonaccrual loans accounted for at amortized cost.

**Corporate**. Corporate loans and lending commitments include term loans, revolving lines of credit, letter of credit facilities and bridge loans, and are principally used for operating and general corporate purposes, or in connection with acquisitions. Corporate loans are secured (typically by a senior lien on the assets of the borrower) or unsecured, depending on the loan purpose, the risk profile of the borrower and other factors.

The table below presents our credit exposure from corporate loans and lending commitments, and the concentration by industry, region, internally determined public rating agency equivalents and other credit metrics.

Lending

\$ in millions	Loans (	Commitments	Total
As of September 2024			
Corporate	\$32,819	\$166,081	\$198,900
Industry			
Consumer & Retail	10%	15%	14%
Diversified Industrials	18%	19%	19%
Financial Institutions	9%	10%	10%
Funds	4%	2%	3%
Healthcare	9%	10%	10%
Natural Resources & Utilities	9%	16%	15%
Real Estate	14%	5%	6%
Technology, Media & Telecommunications	23%	21%	21%
Other (including Special Purpose Vehicles)	4%	2%	2%
Total	100%	100%	100%
	10070	10070	10070
Region			
Americas	66%	75%	73%
EMEA	26%	24%	24%
Asia	8%	1%	3%
Total	100%	100%	100%
Credit Quality (Credit Rating Equivalent)	)		
AAA	_	2%	1%
AA	1%	4%	4%
A	4%	19%	16%
BBB	23%	38%	36%
BB or lower	72%	37%	43%
Total	100%	100%	100%
A (D ) 0000			
As of December 2023	****		
As of December 2023 Corporate	\$35,874		\$180,337
_	\$35,874		
Corporate	\$35,874 11%		
Corporate Industry		\$144,463	\$180,337
Corporate Industry Consumer & Retail	11%	\$144,463 13%	\$180,337 12%
Corporate Industry Consumer & Retail Diversified Industrials	11% 17%	\$144,463 13% 20%	\$180,337 12% 20%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds	11% 17% 8%	\$144,463 13% 20% 9% 3%	\$180,337 12% 20% 9% 3%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare	11% 17% 8% 4%	\$144,463 13% 20% 9%	\$180,337 12% 20% 9%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities	11% 17% 8% 4% 9% 8%	\$144,463 13% 20% 9% 3% 11% 18%	\$180,337 12% 20% 9% 3% 10% 16%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate	11% 17% 8% 4% 9% 8% 13%	\$144,463 13% 20% 9% 3% 11%	\$180,337 12% 20% 9% 3% 10% 16% 7%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications	11% 17% 8% 4% 9% 8% 13% 25%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles)	11% 17% 8% 4% 9% 8% 13% 25% 5%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total	11% 17% 8% 4% 9% 8% 13% 25%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region	11% 17% 8% 4% 9% 8% 13% 25% 5%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 20% 100%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100% 77% 22% 1%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23% 3%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23%
Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia Total	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100% 77% 22% 1%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23% 3%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100% 77% 22% 1%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23% 3%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia Total  Credit Quality (Credit Rating Equivalent)	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23% 3% 100%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia Total  Credit Quality (Credit Rating Equivalent) AAA	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 1% 100% 77% 22% 1% 100%	\$180,337 12% 20% 9% 3% 10% 16% 7% 21% 2% 100% 74% 23% 3% 100%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia Total  Credit Quality (Credit Rating Equivalent) AAA AA	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%  63% 29% 8% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 100% 77% 22% 1% 100%	\$180,337  12% 20% 9% 3% 10% 16% 7% 21% 100%  74% 23% 3% 100%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia Total  Credit Quality (Credit Rating Equivalent) AAA AA ABBB	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%  63% 29% 8% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 100% 77% 22% 1% 100% 1% 5% 20% 41%	\$180,337  12% 20% 9% 3% 10% 16% 7% 21% 20% 100%  74% 23% 3% 100%
Corporate  Industry Consumer & Retail Diversified Industrials Financial Institutions Funds Healthcare Natural Resources & Utilities Real Estate Technology, Media & Telecommunications Other (including Special Purpose Vehicles) Total  Region Americas EMEA Asia Total  Credit Quality (Credit Rating Equivalent) AAA AA	11% 17% 8% 4% 9% 8% 13% 25% 5% 100%  63% 29% 8% 100%	\$144,463 13% 20% 9% 3% 11% 18% 5% 20% 100% 77% 22% 1% 100%	\$180,337  12% 20% 9% 3% 10% 16% 7% 21% 100%  74% 23% 3% 100%

**Commercial Real Estate.** Commercial real estate includes originated loans and lending commitments that are directly or indirectly secured by hotels, retail stores, multifamily housing complexes and commercial and industrial properties. Commercial real estate also includes loans and lending commitments extended to clients who warehouse assets that are directly or indirectly backed by commercial real estate. In addition, commercial real estate includes loans purchased by

The table below presents our credit exposure from commercial real estate loans and lending commitments, and the concentration by region, internally determined public rating agency equivalents and other credit metrics.

		Lending	
\$ in millions	Loans	Commitments	Total
As of September 2024			
Commercial Real Estate	\$28,413	\$3,994	\$32,407
Region			
Americas	78%	82%	78%
EMEA	19%	18%	19%
Asia	3%	_	3%
Total	100%	100%	100%
Credit Quality (Credit Rating Equ	uivalent)		
Investment-grade	52%	57%	52%
Non-investment-grade	47%	41%	47%
Unrated	1%	2%	1%
Total	100%	100%	100%
As of December 2023			
Commercial Real Estate	\$26,028	\$3,440	\$29,468
Region			
Americas	80%	74%	79%
EMEA	17%	25%	18%
Asia	3%	1%	3%
Total	100%	100%	100%
Credit Quality (Credit Rating Equ	ıivalent)		
Investment-grade	47%	46%	47%
Non-investment-grade	52%	54%	52%
Unrated	1%	_	1%
Total	100%	100%	100%

In the table above:

- The concentration of loans and lending commitments by asset class as of September 2024 was 51% for warehouse and other indirect, 11% for multifamily, 7% for industrials, 6% for hospitality, 5% for office, 3% for mixed use and 17% for other asset classes. The concentration of loans and lending commitments by asset class as of December 2023 was 42% for warehouse and other indirect, 13% for multifamily, 12% for industrials, 7% for office, 7% for hospitality, 7% for mixed use and 12% for other asset classes.
- The net charge-off ratio for commercial real estate loans was 0.3% for the nine months ended September 2024. The net charge-off ratio is calculated by dividing annualized net charge-offs by average gross loans accounted for at amortized cost.

In addition, we also have credit exposure to commercial real estate loans held for securitization of \$798 million as of September 2024 and \$119 million as of December 2023. Such loans are included in trading assets in our consolidated balance sheets.

Residential Real Estate. Residential real estate loans and lending commitments are primarily extended to wealth management clients and to clients who warehouse assets that are directly or indirectly secured by residential real estate. In addition, residential real estate includes loans purchased by

The table below presents our credit exposure from residential real estate loans and lending commitments, and the concentration by region, internally determined public rating agency equivalents and other credit metrics.

		Lending	
\$ in millions	Loans	Commitments	Total
As of September 2024			
Residential Real Estate	\$25,018	\$2,241	\$27,259
Region			
Americas	95%	100%	95%
EMEA	4%	_	4%
Asia	1%	_	1%
Total	100%	100%	100%
Credit Quality (Credit Rating E	curivalent)		
Investment-grade	38%	32%	37%
Non-investment-grade	14%	47%	17%
Other metrics	48%	21%	46%
Total	100%	100%	100%
As of December 2022			
As of December 2023	<b>ድ</b> ጋር 200	ф1 4 <b>7</b> 1	<u></u>
Residential Real Estate	\$25,388	\$1,471	\$26,859
Region			
Americas	95%	93%	95%
EMEA	4%	7%	4%
Asia	1%	_	1%
Total	100%	100%	100%
Credit Quality (Credit Rating E	guivalent)		
Investment-grade	42%	56%	43%
Non-investment-grade	13%	25%	13%
Other metrics	45%	16%	43%
Unrated	_	3%	1%
Total	100%	100%	100%

In the table above:

- Credit exposure included loans and lending commitments of \$14.21 billion as of September 2024 and \$14.45 billion as of December 2023 which are extended to clients who warehouse assets that are directly or indirectly secured by residential real estate.
- Substantially all residential real estate loans included in the other metrics category consists of loans extended to wealth management clients. As of both September 2024 and December 2023, substantially all of such loans had a loanto-value ratio of less than 80% and were performing in accordance with the contractual terms. Additionally, as of both September 2024 and December 2023, the vast majority of such loans had a FICO credit score of greater than 740.

In addition, we also have credit exposure to residential real estate loans held for securitization of \$8.94 billion as of September 2024 and \$7.65 billion as of December 2023. Such loans are included in trading assets in our consolidated balance sheets.

Securities-Based. Securities-based includes loans and lending commitments that are secured by stocks, bonds, mutual funds, and exchange-traded funds. These loans and commitments are primarily extended to our wealth management clients and used for purposes other than purchasing, carrying or trading margin stocks. Securitiesbased loans require borrowers to post additional collateral on a daily basis (daily margin requirement) based on changes in the underlying collateral's fair value.

The table below presents our credit exposure from securitiesbased loans and lending commitments, and the concentration by region, internally determined public rating agency equivalents and other credit metrics.

\$ in millions	Loans	Lending Commitments	Total
As of September 2024	200.10		
Securities-based	\$16,014	\$1,535	\$17,549
Region			
Americas	75%	49%	73%
EMEA	25%	51%	27%
Total	100%	100%	100%
Credit Quality (Credit Rating E	nuivalent)		
Investment-grade	76%	62%	75%
Non-investment-grade	2%	-	2%
Other metrics	22%	38%	23%
Total	100%	100%	100%
As of December 2023			
Securities-based	\$14,621	\$691	\$15,312
Region			
Americas	79%	98%	80%
EMEA	20%	2%	19%
Asia	1%	_	1%
Total	100%	100%	100%
Credit Quality (Credit Rating E	guivalent)		
Investment-grade	75%	25%	73%
Non-investment-grade	4%	2%	4%
Other metrics	21%	73%	23%
Total	100%	100%	100%

In the table above, the vast majority of securities-based loans included in the other metrics category had a loan-to-value ratio of less than 80% and were performing in accordance with the contractual terms as of both September 2024 and December 2023.

Other Collateralized. Other collateralized includes loans and lending commitments that are backed by specific collateral (other than securities-based loans where there is a daily margin requirement and real estate loans). Such loans and lending commitments are extended to clients who warehouse assets that are directly or indirectly secured by corporate loans, consumer loans and other assets. Other collateralized also includes loans and lending commitments to investment funds (managed by third parties) that are collateralized by capital commitments of the funds' investors or assets held by the fund, as well as other secured loans and lending commitments extended to our wealth management and corporate clients.

The table below presents our credit exposure from other collateralized loans and lending commitments, and the concentration by region, internally determined public rating agency equivalents and other credit metrics.

		Lending	
\$ in millions	Loans	Commitments	Total
As of September 2024			
Other Collateralized	\$72,696	\$30,230	\$102,926
Region			
Americas	84%	90%	86%
FMFA	15%	8%	12%
Asia	1%	2%	2%
Total	100%	100%	100%
Credit Quality (Credit Rating	Equivalent)		
Investment-grade	85%	86%	85%
Non-investment-grade	14%	13%	14%
Unrated	1%	1%	1%
Total	100%	100%	100%
As of December 2023			
Other Collateralized	\$62,225	\$23,731	\$85,956
Region			
Americas	89%	94%	90%
EMEA	10%	5%	9%
Asia	1%	1%	1%
Total	100%	100%	100%
0 - 12 0 - 12 (0 - 12 Post	F. 1 .14\		
Credit Quality (Credit Rating	•	000/	700/
Investment-grade	78%	80%	79%
Non-investment-grade	21%	18%	20%
Unrated	1%	2%	1%
_Total	100%	100%	100%

In the table above, credit exposure included loans and lending commitments extended to clients who warehouse assets of \$30.44 billion as of September 2024 and \$21.78 billion as of December 2023.

Credit Cards and Installment Loans. We provide credit card loans (pursuant to revolving lines of credit) to consumers in the Americas. The credit card lines are cancellable by us and therefore do not result in credit exposure. We also have installment loans to consumers in the Americas but have ceased originating such loans.

The tables below present our credit exposure from credit card funded loans and originated installment loans, and the concentration by the five most concentrated U.S. states.

Credit Cards

\$ in millions

As of September 2024	
Loans, gross	\$19,908
California	17%
Texas	9%
Florida	9%
New York	8%
Illinois	4%
Other	53%
Total	100%
As of December 2023	
Loans, gross	\$19,361
California	17%
Texas	9%
Florida	8%
New York	8%
Illinois	4%
Other	54%
Total	100%
\$ in millions	Installment
As of September 2024	
Loans, gross	\$196
New Jersey	20%
California	15%
New York	13%
Florida	10%
Minnesota	7%
Other	35%
Total	100%_
As of December 2023	
Loans, gross	\$3,298
California	8%
Texas	8%
Florida	7%
New York	5%
New Jersey	5%
Other	67%
Total	100%

In addition, we had credit exposure of \$2.25 billion as of December 2023 related to our commitments to extend unsecured installment loans to consumers.

See Note 9 to the consolidated financial statements for further information about the credit quality indicators of credit card and installment loans.

**Other.** Other includes unsecured loans extended to wealth management clients and unsecured consumer and credit card loans purchased by us.

The table below presents our credit exposure from other loans and lending commitments, and the concentration by region, internally determined public rating agency equivalents and other credit metrics.

		Lending	
\$ in millions	Loans	Commitments	Total
As of September 2024			
Other	\$1,437	\$775	\$2,212
Region			
Americas	96%	95%	96%
EMEA	4%	5%	4%
Total	100%	100%	100%
Credit Quality (Credit Rating Equ	ivalent)		
Investment-grade	81%	66%	76%
Non-investment-grade	10%	18%	13%
Other metrics	9%	16%	11%
Total	100%	100%	100%
As of December 2023			
Other	\$1,613	\$888	\$2,501
Region			
Americas	97%	100%	98%
EMEA	3%	_	2%
Total	100%	100%	100%
Credit Quality (Credit Rating Equ	ivalent)		
Investment-grade	61%	87%	70%
Non-investment-grade	9%	13%	11%
Other metrics	30%	_	19%
Total	100%	100%	100%

In the table above, other metrics primarily includes consumer and credit card loans purchased by us. Our risk assessment process for such loans includes reviewing certain key metrics, such as expected cash flows, delinquency status and other risk factors.

In addition, we also have credit exposure to other loans held for securitization of \$1.10 billion as of September 2024 and \$1,22 billion as of December 2023. Such loans are included in trading assets in our consolidated balance sheets.

Credit Hedges. We seek to mitigate the credit risk associated with our lending activities by obtaining credit protection on certain loans and lending commitments through credit default swaps, both single-name and indexbased contracts, and through the issuance of credit-linked notes.

Securities Financing Transactions. We enter into securities financing transactions in order to, among other things, facilitate client activities, invest excess cash, acquire securities to cover short positions and finance certain activities. We bear credit risk related to resale agreements and securities borrowed only to the extent that cash advanced or the value of securities pledged or delivered to the counterparty exceeds the value of the collateral received. We also have credit exposure on repurchase agreements and securities loaned to the extent that the value of securities pledged or delivered to the counterparty for these transactions exceeds the amount of cash or collateral received. Securities collateral for these transactions primarily includes U.S. and non-U.S. government and agency obligations.

The table below presents our credit exposure from securities financing transactions and the concentration by industry, region and internally determined public rating agency equivalents.

	As	of
	September	December
\$ in millions	2024	2023
Securities Financing Transactions	\$42,499	\$40,201
Industry		
Financial Institutions	33%	30%
Funds	28%	33%
Municipalities & Nonprofit	8%	7%
Sovereign	31%	29%
Other (including Special Purpose Vehicles)	_	1%
Total	100%	100%
Region		
Americas	43%	45%
EMEA	21%	38%
Asia	36%	17%
Total	100%	100%
Credit Quality (Credit Rating Equivalent)		
AAA	20%	14%
AA	23%	31%
A	42%	38%
BBB	9%	7%
BB or lower	6%	10%
Total	100%	100%

The table above reflects both netting agreements and collateral that we consider when determining credit risk.

Other Credit Exposures. We are exposed to credit risk from our receivables from brokers, dealers and clearing organizations and customers and counterparties. Receivables from brokers, dealers and clearing organizations primarily consist of initial margin placed with clearing organizations and receivables related to sales of securities which have traded, but not yet settled. These receivables generally have minimal credit risk due to the low probability of clearing organization default and the short-term nature of receivables related to securities settlements. Receivables from customers and counterparties generally consist of collateralized receivables related to customer securities transactions and generally have minimal credit risk due to both the value of the collateral received and the short-term nature of these receivables.

The table below presents our other credit exposures and the concentration by industry, region and internally determined public rating agency equivalents.

	As	of
	September	December
\$ in millions	2024	2023
Other Credit Exposures	\$48,779	\$50,820
Industry		
Financial Institutions	72%	80%
Funds	18%	13%
Other (including Special Purpose Vehicles)	10%	7%
Total	100%	100%
Region		
Americas	43%	35%
EMEA	44%	54%
Asia	13%	11%
Total	100%	100%
Credit Quality (Credit Rating Equivalent)	-0/	201
AAA	3%	2%
AA	43%	57%
A	26%	26%
BBB	8%	6%
BB or lower	18%	8%
Unrated	2%	1%
Total	100%	100%

The table above reflects collateral that we consider when determining credit risk.

#### **Selected Exposures**

We have credit and market exposures, as described below, that have had heightened focus given recent events and broad market concerns. Credit exposure represents the potential for loss due to the default or deterioration in credit quality of a counterparty or borrower. Market exposure represents the potential for loss in value of our long and short positions due to changes in market prices.

**Country Exposures.** The Russian invasion of Ukraine has negatively affected the global economy and increased macroeconomic uncertainty. Our total credit exposure to Ukrainian counterparties or borrowers was not material as of September 2024. Our total market exposure to Ukrainian issuers as of September 2024 was \$108 million, primarily to sovereign issuers. Such exposure consisted of \$117 million related to debt and \$(9) million related to credit derivatives. Our credit exposure to Russian counterparties or borrowers and our market exposure to Russian issuers was not material as of September 2024. See "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K for further information about our risks related to Russia's invasion of Ukraine.

Economic challenges persist for the Argentine government given uncertainty relating to its fiscal and economic policies. As of September 2024, our total credit exposure to Argentinian counterparties or borrowers was not material. Our total market exposure to Argentinian issuers as of September 2024 was \$126 million, primarily to non-sovereign issuers. Such exposure consisted of \$47 million related to debt, \$10 million related to credit derivatives and \$69 million related to equities.

In addition, economic and/or political uncertainties in Ethiopia, Lebanon and Venezuela have led to concerns about their financial stability. Our credit exposure to counterparties or borrowers and our market exposure to issuers relating to each of these countries was not material as of September 2024.

We have a comprehensive framework to monitor, measure and assess our country exposures and to determine our risk appetite. We determine the country of risk by the location of the counterparty, issuer's assets, where they generate revenue, the country in which they are headquartered, the jurisdiction where a claim against them could be enforced, and/or the government whose policies affect their ability to repay their obligations. We monitor our credit exposure to a specific country both at the individual counterparty level, as well as at the aggregate country level. See "Stress Tests" for information about stress tests that are designed to estimate the direct and indirect impact of events involving the above countries.

### **Operational Risk Management**

#### Overview

Operational risk is the risk of an adverse outcome resulting from inadequate or failed internal processes, people, systems or from external events. Our exposure to operational risk arises from routine processing errors, as well as extraordinary incidents, such as major systems failures or legal and regulatory matters.

Potential types of loss events related to internal and external operational risk include:

- Execution, delivery and process management;
- Business disruption and system failures;
- Employment practices and workplace safety;
- Clients, products and business practices;
- Damage to physical assets;
- Internal fraud; and
- External fraud.

Operational Risk, which is independent of our revenueproducing units and reports to our chief risk officer, has primary responsibility for developing and implementing a formalized framework for assessing, monitoring and managing operational risk with the goal of maintaining our exposure to operational risk at levels that are within our risk appetite.

### **Operational Risk Management Process**

Our process for managing operational risk includes the critical components of our risk management framework described in the "Overview and Structure of Risk Management," including a comprehensive data collection process, as well as firmwide policies and procedures, for operational risk events.

We combine top-down and bottom-up approaches to manage and measure operational risk. From a top-down perspective, our senior management assesses firmwide and business-level operational risk profiles. From a bottom-up perspective, our first and second lines of defense are responsible for risk identification and risk management on a day-to-day basis, including escalating operational risks and risk events to senior management.

We seek to maintain a comprehensive control framework designed to provide a well-controlled environment to minimize operational risks. The Firmwide Operational Risk and Resilience Committee is responsible for overseeing operational risk and the operational resilience of our business.

Our operational risk management framework is designed to comply with the operational risk measurement rules under the Capital Framework and has evolved based on the changing needs of our businesses and regulatory guidance.

We have established policies that require all employees and consultants to report and escalate operational risk events. When operational risk events are identified, our policies require that the events be documented and analyzed to determine whether changes are required in our systems and/ or processes to further mitigate the risk of future events.

We use operational risk management applications to capture, analyze, aggregate and report operational risk event data and key metrics. One of our key risk identification and control assessment tools is an operational risk and control selfassessment process, which is performed by our managers. This process consists of the identification and rating of operational risks, on a forward-looking basis, and the related controls. The results from this process are analyzed to evaluate operational risk exposures and identify businesses, activities or products with heightened levels of operational risk.

#### **Risk Measurement**

We measure our operational risk exposure using both statistical modeling and scenario analyses, which involve qualitative and quantitative assessments of internal and external operational risk event data and internal control factors for each of our businesses. Operational risk measurement also incorporates an assessment of business environment factors, including:

- Evaluations of the complexity of our business activities;
- The degree of automation in our processes;
- New activity information;
- The legal and regulatory environment; and
- Changes in the markets for our products and services, including the diversity and sophistication of our customers and counterparties.

The results from these scenario analyses are used to monitor changes in operational risk and to determine business lines that may have heightened exposure to operational risk. These analyses are used in the determination of the appropriate level of operational risk capital to hold. We also perform firmwide stress tests. See "Overview and Structure of Risk Management" for information about firmwide stress tests.

#### **Types of Operational Risks**

Increased reliance on technology and third-party relationships has resulted in increased operational risks, such as third-party risk, business resilience risk and cybersecurity risk. See "Cybersecurity Risk Management" for information about our cybersecurity risk management process. We manage third-party and business resilience risks as follows:

**Third-Party Risk.** Third-party risk, including vendor risk, is the risk of an adverse impact due to reliance on third parties performing services or activities on our behalf. These risks may include legal, regulatory, information security, cybersecurity, reputational, operational or other risks inherent in engaging a third party. We identify, manage and report key third-party risks and conduct due diligence across multiple risk domains, including information security and cybersecurity, resilience and additional supply chain dependencies. We evaluate whether vendors design, implement, and maintain information security controls consistent with our security policies and standards. Vendors that access and process our information on their infrastructure external to our network are required to undergo an initial risk assessment, resulting in the assignment of a vendor inherent risk rating that is determined based on a number of factors, including the type of data stored and processed by a particular vendor. Subsequently, we conduct re-certifications at a depth and frequency that is commensurate with each vendor's inherent risk rating as a component of our risk-based approach to vendor oversight. Vendors are required to agree to standard contractual provisions before receiving sensitive information from us. These provisions have specific information security control requirements, which apply to vendors that store, access, transmit or otherwise process sensitive information on our behalf. The Third-Party Risk Program monitors, reviews and reassesses third-party risks on an ongoing basis. See "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K for further information about third-party risk.

Business Resilience Risk. Business resilience risk is the risk of disruption to our critical processes. We monitor threats and assess risks and seek to ensure our state of readiness in the event of a significant operational disruption to the normal operations of our critical functions or their dependencies, such as critical facilities, systems, third parties, data and/or personnel. Our resilience framework defines the fundamental principles for business continuity planning (BCP) and crisis management to ensure that critical functions can continue to operate in the event of a disruption. We seek to maintain a business continuity program that is comprehensive, consistent on a firmwide basis, and up-to-date, incorporating new information, including resilience capabilities. Our resilience assurance program encompasses testing of response and recovery strategies on a regular basis with the objective of minimizing and preventing significant operational disruptions. See "Business - Business Continuity and Information Security" in Part I, Item 1 of the 2023 Form 10-K for further information about business continuity.

### Cybersecurity Risk Management

#### Overview

Cybersecurity risk is the risk of compromising the confidentiality, integrity or availability of our data and systems, leading to an adverse impact to us, our reputation, our clients and/or the broader financial system. We seek to minimize the occurrence and impact of unauthorized access, disruption or use of information and/or information systems. We deploy and operate preventive and detective controls and processes to mitigate emerging and evolving information security and cybersecurity threats, including monitoring our network for known vulnerabilities and signs of unauthorized attempts to access our data and systems. There is increased information risk through diversification of our data across external service providers, including use of a variety of cloudprovided or -hosted services and applications. In addition, new AI technologies may increase the frequency and severity of cybersecurity attacks. See "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K for further information about information and cybersecurity risk.

#### **Cybersecurity Risk Management Process**

Our cybersecurity risk management processes are integrated into our overall risk management processes described in the "Overview and Structure of Risk Management." We have established an Information Security and Cybersecurity Program (the Cybersecurity Program), administered by Technology Risk within Engineering, and overseen by our CISO. This program is designed to identify, assess, document and mitigate threats, establish and evaluate compliance with information security mandates, adopt and apply our security control framework, and prevent, detect and respond to security incidents. The Cybersecurity Program is periodically reviewed and modified to respond to changing threats and conditions. A dedicated Operational Risk team, which reports to the chief risk officer, provides oversight and challenge of the Cybersecurity Program, independent of Technology Risk, and assesses the operating effectiveness of the program against industry standard frameworks and Board risk appetite-approved operational risk limits and thresholds.

Our process for managing cybersecurity risk includes the critical components of our risk management framework described in the "Overview and Structure of Risk Management," as well as the following:

- Training and education, to enable our people to recognize information and cybersecurity concerns and respond accordingly;
- Identity and access management, including entitlement management and production access;
- Application and software security, including software change management, open source software, and backup and restoration;
- Infrastructure security, including monitoring our network for known vulnerabilities and signs of unauthorized attempts to access our data and systems;
- Mobile security, including mobile applications;
- Data security, including cryptography and encryption, database security, data erasure and media disposal;
- Cloud computing, including governance and security of cloud applications, and software-as-a-service onboarding;
- Technology operations, including change management, incident management, capacity and resilience; and
- Third-party risk management, including management and governance, and cybersecurity and business resiliency on vendor assessments.

In conjunction with third-party vendors and consultants, we perform risk assessments to gauge the performance of the Cybersecurity Program, to estimate our risk profile and to assess compliance with relevant regulatory requirements. We perform periodic assessments of control efficacy through our internal risk and control self-assessment process, as well as a variety of external technical assessments, including external penetration tests and "red team" engagements where third parties test our defenses. The results of these risk assessments, together with control performance findings, are used to establish priorities, allocate resources, and identify and improve controls. We use third parties, such as outside forensics firms, to augment our cyber incident response capabilities. We have a vendor management program that documents a risk-based framework for managing third-party vendor relationships. Information security risk management is built into our vendor management process, which covers vendor selection, onboarding, performance monitoring and risk management. See "Third-Party Risk" for further information about vendor risk.

During the first nine months of 2024, we did not identify any cybersecurity threats that have materially affected or are reasonably likely to materially affect our business strategy, results of operations or financial condition. Technology Risk monitors cybersecurity threats and risks from information security and cybersecurity matters on an ongoing basis, and allocates resources and directs operations in a manner designed to mitigate those risks. For example, in response to the proliferation of ransomware attacks reported globally over the past year, we have emphasized phishing training for our employees and allocated additional resources for business continuity. However, despite these efforts, we cannot eliminate all cybersecurity risks or provide assurances that we have not had occurrences of undetected cybersecurity incidents.

#### Governance

The Board, both directly and through its committees, including its Risk and Audit Committees, oversees our risk management policies and practices, including cybersecurity risks, and information security and cybersecurity matters. Our chief risk officer, chief information officer and chief technology officer, among others, periodically brief the Board on operational and technology risks, including cybersecurity risks, that we face. The Board also receives regular briefings from our CISO on a range of cybersecurity-related topics, including the status of our Cybersecurity Program, emerging cybersecurity threats, mitigation strategies and related regulatory engagements. In addition, these are topics on which various directors maintain an ongoing dialogue with our CISO, chief information officer and chief technology

Our CISO is responsible for managing and implementing the Cybersecurity Program and reports directly to our chief information officer. Our CISO oversees our Technology Risk team, which assesses and manages material risks from cybersecurity threats, sets firmwide control requirements, assesses adherence to controls, and oversees incident detection and response.

In addition, we have a series of committees that oversee the implementation of our cybersecurity risk management strategy and framework. These committees are informed about cybersecurity incidents and risks by designated members of Technology Risk, who periodically report to these committees about the Cybersecurity Program, including the efforts of the Technology Risk teams to prevent, detect, mitigate and remediate incidents and threats. These committees enable formal escalation and reporting of risks, and our CISO and other members of Technology Risk provide regular briefings to these committees.

The Firmwide Technology Risk Committee is responsible for reviewing matters related to the design, development, deployment and use of technology. This committee oversees cybersecurity matters, as well as technology risk management frameworks and methodologies, and monitors their effectiveness. This committee is co-chaired by our CISO and our chief technology officer, and reports to the Firmwide Enterprise Risk Committee. To assist the Firmwide Technology Risk Committee in carrying out its mandate, the Firmwide Artificial Intelligence Risk and Controls Committee, which oversees risks associated with the use of AI, reports to the Firmwide Technology Risk Committee. See "Overview and Structure of Risk Management" for further information about this committee.

The Digital Risk Office Steering Group oversees Engineering risk decisions, monitors control performance and reviews approaches to comply with current and emerging regulation applicable to Engineering. This steering group is chaired by our CISO, and reports to the Firmwide Technology Risk Committee.

Our CISO, senior management within Technology Risk and Operational Risk, as well as management personnel overseeing the Cybersecurity Program, all have substantial relevant expertise in the areas of information security and cybersecurity risk management.

# Model Risk Management

#### Overview

Model risk is the potential for adverse consequences from decisions made based on model outputs that may be incorrect or used inappropriately. We rely on quantitative models across our business activities primarily to value certain financial assets and liabilities, to monitor and manage our risk, and to measure and monitor our regulatory capital.

Model Risk, which is independent of our revenue-producing units, model developers, model owners and model users, and reports to our chief risk officer, has primary responsibility for assessing, monitoring and managing our model risk through firmwide oversight across our global businesses, and provides periodic updates to senior management, risk committees and the Risk Committee of the Board.

Our model risk management framework is managed through a governance structure and risk management controls, which encompass standards designed to ensure we maintain a comprehensive model inventory, including risk assessment and classification, sound model development practices, independent review and model-specific usage controls. The Firmwide Model Risk Control Committee oversees our model risk management framework.

#### **Model Review and Validation Process**

Model Risk consists of quantitative professionals who perform an independent review, validation and approval of our models. This review includes an analysis of the model documentation, independent testing, an assessment of the appropriateness of the methodology used, and verification of compliance with model development and implementation standards.

We regularly refine and enhance our models to reflect changes in market or economic conditions and our business mix. All models are reviewed on an annual basis, and new models or significant changes to existing models and their assumptions are approved prior to implementation.

The model validation process incorporates a review of models and trade and risk parameters across a broad range of scenarios (including extreme conditions) in order to critically evaluate and verify:

- The model's conceptual soundness, including the reasonableness of model assumptions, and suitability for intended use;
- The testing strategy utilized by the model developers to ensure that the models function as intended;
- The suitability of the calculation techniques incorporated in the model;
- The model's accuracy in reflecting the characteristics of the related product and its significant risks;
- The model's consistency with models for similar products; and
- The model's sensitivity to input parameters and assumptions.

See "Critical Accounting Policies — Fair Value — Review of Valuation Models," "Liquidity Risk Management," "Market Risk Management," "Credit Risk Management" and "Operational Risk Management" for further information about our use of models within these areas.

## Other Risk Management

In addition to the areas of risks discussed above, we also manage other risks, including capital, climate, compliance and conflicts. These areas of risks are discussed below.

#### **Capital Risk Management**

Capital risk is the risk that our capital is insufficient to support our business activities under normal and stressed market conditions or we face capital reductions or RWA increases, including from new or revised rules or changes in interpretations of existing rules, and are therefore unable to meet our internal capital targets or external regulatory capital requirements. Capital adequacy is of critical importance to us. Accordingly, we have in place a comprehensive capital management policy that provides a framework, defines objectives and establishes guidelines to maintain an appropriate level and composition of capital in both business-as-usual and stressed conditions. Our capital management framework is designed to provide us with the information needed to identify and comprehensively manage risk, and develop and apply projected stress scenarios that capture idiosyncratic vulnerabilities with a goal of holding sufficient capital to remain adequately capitalized even after experiencing a severe stress event. See "Capital Management and Regulatory Capital" for further information about our capital management process.

We have established a comprehensive governance structure to manage and oversee our day-to-day capital management activities and to ensure compliance with capital rules and related policies. Our capital management activities are overseen by the Board and its committees. The Board is responsible for approving our annual capital plan and the Risk Committee of the Board approves our capital management policy, which details the risk committees and members of senior management who are responsible for the ongoing monitoring of our capital adequacy and evaluation of current and future regulatory capital requirements, the review of the results of our capital planning and stress tests processes, and the results of our capital models. In addition, our risk committees and senior management are responsible for the review of our contingency capital plan, key capital adequacy metrics, including regulatory capital ratios, and capital plan metrics, such as the payout ratio, as well as monitoring capital targets and potential breaches of capital requirements.

Our process for managing capital risk also includes independent oversight by Risk that assesses our capital management framework, regulatory capital policies and related interpretations and escalates certain interpretations to senior management and/or the appropriate risk committee. This oversight includes, among other things, independent review and challenge of our capital ratio targets, planned capital actions and regulatory capital calculations; analysis of the related documentation; independent testing; and an assessment of the appropriateness of the calculations and their alignment with the relevant regulatory capital rules.

#### Climate-Related and Environmental Risk Management

We categorize climate-related and environmental risks into physical risk and transition risk. Physical risk is the risk that asset values may decline or operations may be disrupted as a result of changes in the climate, while transition risk is the risk that asset values may decline because of changes in climate policies or changes in the underlying economy due to decarbonization.

As a global financial institution, climate-related and environmental risks manifest in different ways across our businesses. We have continued to make significant enhancements to our climate risk management framework, including steps to further integrate climate risk into our broader risk management processes. We have integrated oversight of climate-related risks into our risk management governance structure, from senior management to our Board and its committees, including the Risk and Public Responsibilities Committees. The Risk Committee of the Board oversees firmwide financial and nonfinancial risks, which include climate risk, and, as part of its oversight, receives updates on our risk management approach to climate risk, including our approaches towards scenario analysis and integration into existing risk management processes. The Public Responsibilities Committee of the Board assists the Board in its oversight of our firmwide sustainability strategy and sustainability issues affecting us, including with respect to climate change. As part of its oversight, the Public Responsibilities Committee receives periodic updates on our sustainability strategy, and also periodically reviews our governance and related policies and processes for sustainability and climate change-related matters. Senior management within Risk, in coordination with senior management in both our revenue-producing units and our other independent risk oversight and control functions, is responsible for the development of the climate-related and environmental risk program. The objective of this program is to integrate climate-related and environmental risks into existing risk disciplines and business considerations, such as the integration of climate risk into our credit evaluation and underwriting processes for select industries.

See "Business — Sustainability" in Part I, Item 1 and "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K for information about our sustainability initiatives, including in relation to climate transition.

#### Compliance Risk Management

Compliance risk is the risk of legal or regulatory sanctions, material financial loss or damage to our reputation arising from our failure to comply with the requirements of applicable laws, rules and regulations, and our internal policies and procedures. Compliance risk is inherent in all activities through which we conduct our businesses. Our Compliance Risk Management Program, administered by Compliance, assesses our compliance, regulatory and reputational risk; monitors for compliance with new or amended laws, rules and regulations; designs and implements controls, policies, procedures and training; conducts independent testing; investigates, surveils and monitors for compliance risks and breaches; and leads our responses to regulatory examinations, audits and inquiries. We monitor and review business practices to assess whether they meet or exceed minimum regulatory and legal standards in all markets and jurisdictions in which we conduct business.

#### **Conflicts Management**

Conflicts of interest and our approach to dealing with them are fundamental to our client relationships, our reputation and our long-term success. The term "conflict of interest" does not have a universally accepted meaning, and conflicts can arise in many forms within a business or between businesses. The responsibility for identifying potential conflicts, as well as complying with our policies and procedures, is shared by all of our employees.

We have a multilayered approach to resolving conflicts and addressing reputational risk. Our senior management oversees policies related to conflicts resolution and, in conjunction with Conflicts Resolution, Legal Compliance, and internal committees, formulates policies, standards and principles, and assists in making judgments regarding the appropriate resolution of particular conflicts. Resolving potential conflicts necessarily depends on the facts and circumstances of a particular situation and the application of experienced and informed judgment.

As a general matter, Conflicts Resolution reviews financing and advisory assignments in Global Banking & Markets and certain of our investing, lending and other activities. In addition, we have various transaction oversight committees, such as the Firmwide Capital, Commitments and Suitability Committees and other committees that also review new underwritings, loans, investments and structured products. These groups and committees work with internal and external counsel and Compliance to evaluate and address any actual or potential conflicts. The head of Conflicts Resolution reports to our chief legal officer, who reports to our chief executive officer.

We regularly assess our policies and procedures that address conflicts of interest in an effort to conduct our business in accordance with the highest ethical standards and in compliance with all applicable laws, rules and regulations.

For further information about our risk management processes, see "Overview and Structure of Risk Management" and "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K.

#### Available Information

Our internet address is www.goldmansachs.com and the investor relations section of our website is located at www.goldmansachs.com/investor-relations, where we make available, free of charge, our annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act, as well as proxy statements, as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Also posted on our website, and available in print upon request of any shareholder to our Investor Relations Department (Investor Relations), are our certificate of incorporation and by-laws, charters for our Audit, Risk, Compensation, Corporate Governance and Nominating, and Public Responsibilities Committees, our Policy Regarding Director Independence Determinations, our Policy on Reporting of Concerns Regarding Accounting and Other Matters, our Corporate Governance Guidelines and our Code of Business Conduct and Ethics governing our directors, officers and employees. Within the time period required by the SEC, we will post on our website any amendment to the Code of Business Conduct and Ethics and any waiver applicable to any executive officer, director or senior financial officer.

Our website also includes information about (i) purchases and sales of our equity securities by our executive officers and directors; (ii) disclosure relating to certain non-GAAP financial measures (as defined in the SEC's Regulation G) that we may make public orally, telephonically, by webcast, by broadcast or by other means; (iii) our DFAST results; (iv) the public portion of our and GS Bank USA's resolution plan submissions; (v) our Pillar 3 disclosure; (vi) our average daily LCR; (vii) our People Strategy Report; (viii) our Sustainability Report; (ix) our Task Force on Climate-Related Financial Disclosures Report; and (x) our average daily NSFR.

Investor Relations can be contacted at The Goldman Sachs Group, Inc., 200 West Street, 29th Floor, New York, New 10282, Attn: Investor Relations, telephone: 212-902-0300, e-mail: gs-investor-relations@gs.com. We use the following, as well as other social media channels, to disclose public information to investors, the media and others:

- Our website (www.goldmansachs.com);
- Our X, formerly known as Twitter, account (x.com/ GoldmanSachs); and
- Our Instagram account (instagram.com/GoldmanSachs).

Our officers may use similar social media channels to disclose public information. It is possible that certain information we or our officers post on our website and on social media could be deemed material, and we encourage investors, the media and others interested in Goldman Sachs to review the business and financial information we or our officers post on our website and on the social media channels identified above. The information on our website and those social media channels is not incorporated by reference into this Form 10-Q.

### **Forward-Looking Statements**

We have included in this Form 10-Q, and our management may make, statements that constitute "forward-looking statements" within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements are not historical facts or statements of current conditions, but instead represent only our beliefs regarding future events, many of which, by their nature, are inherently uncertain and outside our control.

By identifying these statements for you in this manner, we are alerting you to the possibility that our actual results, financial condition, liquidity and capital actions may differ, possibly materially, from the anticipated results, financial condition, liquidity and capital actions in these forward-looking statements. Important factors that could cause our results, financial condition, liquidity and capital actions to differ from those in these statements include, among others, those described below and in "Risk Factors" in Part I, Item 1A of the 2023 Form 10-K.

These statements may relate to, among other things, (i) our future plans and results, including our target ROE, ROTE, efficiency ratio, CET1 capital ratio and total credit alternative assets, and how they can be achieved, (ii) trends in or growth opportunities for our businesses, including the timing, costs, profitability, benefits and other aspects of business and strategic initiatives and their impact on our efficiency ratio, as well as the opportunities and challenges presented by artificial intelligence, (iii) our level of future compensation expense, including as a percentage of both operating expenses and net revenues, net of provision for credit losses, (iv) our Investment banking fees backlog and future advisory and capital market results, (v) our expected interest income and interest expense, (vi) our expense savings and strategic locations initiatives, (vii) expenses we may incur, including future litigation expense, (viii) the projected growth of our deposits and other funding, asset liability management and funding strategies and related interest expense savings, (ix) our business initiatives, including transaction banking, (x) our planned 2024 and 2025 benchmark debt issuances, (xi) the amount, composition and location of GCLA we expect to hold, (xii) our credit exposures, (xiii) our expected provision for credit losses, (xiv) the adequacy of our allowance for credit losses, (xv) the narrowing of our consumer business, (xvi) the objectives and effectiveness of our BCP, information security program, risk management and liquidity policies, (xvii) our resolution plan and strategy and their implications for stakeholders, (xviii) the design and effectiveness of our resolution capital and liquidity models and triggers and alerts framework, (xix) the results of stress tests, the effect of changes to regulations, and our future status, activities or reporting under banking and financial regulation, (xx) our expected tax rate, (xxi) the future state of our liquidity and regulatory capital ratios, and our prospective capital distributions (including dividends and repurchases), (xxii) our expected SCB and G-SIB surcharge, (xxiii) legal proceedings, governmental investigations or other contingencies, (xxiv) the asset recovery guarantee and our remediation activities related to our 1Malaysia Development Berhad (1MDB) settlements, (xxv) the effectiveness of our management of our human capital, including our diversity goals, (xxvi) our sustainability and carbon neutrality targets and goals, (xxvii) future inflation, (xxviii) the impact of Russia's invasion of Ukraine and related sanctions and other developments on our business, results and financial position, (xxix) our ability to sell, and the terms of any proposed sales of, Asset & Wealth Management historical principal investments, the pending sale of the seller financing loan portfolio and our ability to transition the GM credit card program to another issuer, (xxx) the impact of the conflicts in the Middle East, (xxxi) our ability to manage our commercial real estate exposures, (xxxii) the profitability of Platform Solutions and (xxxiii) the effectiveness of our cybersecurity risk management process.

Statements about our target ROE, ROTE, efficiency ratio and expense savings, and how they can be achieved, are based on our current expectations regarding our business prospects and are subject to the risk that we may be unable to achieve our targets due to, among other things, changes in our business mix, lower profitability of new business initiatives, increases in technology and other costs to launch and bring new business initiatives to scale, and increases in liquidity requirements.

Statements about our target ROE, ROTE and CET1 capital ratio, and how they can be achieved, are based on our current expectations regarding the capital requirements applicable to us and are subject to the risk that our actual capital requirements may be higher than currently anticipated because of, among other factors, changes in the regulatory capital requirements applicable to us resulting from changes in regulations, including as a result of the July 2023 proposal to revise the U.S. bank regulatory capital rules, or the interpretation or application of existing regulations or changes in the nature and composition of our activities. Statements about our total credit alternative assets targets are based on our current expectations regarding our fundraising prospects and are subject to the risk that actual inflows may be lower than expected due to, among other factors, competition from other asset managers, changes in investment preferences and changes in economic or market conditions.

Statements about the timing, costs, profitability, benefits and other aspects of business and expense savings initiatives, the level and composition of more durable revenues and increases in market share and the narrowing of our consumer business are based on our current expectations regarding our ability to implement these initiatives and actual results may differ, possibly materially, from our current expectations due to, among other things, a delay in the timing of these initiatives, increased competition and an inability to reduce expenses and grow businesses with durable revenues or to exit certain consumer businesses.

Statements about the level of future compensation expense, including as a percentage of both operating expenses and net revenues, net of provision for credit losses, and our efficiency ratio are subject to the risks that the compensation and other costs to operate our businesses may be greater than currently expected.

Statements about our Investment banking fees backlog and future advisory and capital market results are subject to the risk that advisory and capital market activity may not increase as the firm expects or that such transactions may be modified or may not be completed at all, and related net revenues may not be realized or may be materially less than expected. Important factors that could have such a result include, for underwriting transactions, a decline or weakness in general economic conditions, an outbreak or worsening of hostilities, including those in Ukraine and the Middle East, continuing volatility in the securities markets or an adverse development with respect to the issuer of the securities and, for advisory transactions, a decline in the securities markets, an inability to obtain adequate financing, an adverse development with respect to a party to the transaction or a failure to obtain a required regulatory approval.

Statements about the projected growth of our deposits and other funding, asset liability management and funding strategies and related interest expense savings, and our platform solutions business, are subject to the risk that actual growth, savings and profitability may differ, possibly materially, from that currently anticipated due to, among other things, changes in interest rates and competition from other similar products.

Statements about planned 2024 and 2025 benchmark debt issuances and the amount, composition and location of GCLA we expect to hold are subject to the risk that actual issuances and GCLA levels may differ, possibly materially, from that currently expected due to changes in market conditions, business opportunities or our funding and projected liquidity needs.

Statements about our expected provision for credit losses are subject to the risk that actual credit losses may differ and our expectations may change, possibly materially, from that currently anticipated due to, among other things, changes to the composition of our loan portfolio and changes in the economic environment in future periods and our forecasts of future economic conditions, as well as changes in our models, policies and other management judgments.

Statements about our future effective income tax rate are subject to the risk that it may differ from the anticipated rate indicated in such statements, possibly materially, due to, among other things, changes in the tax rates applicable to us, changes in our earnings mix, our profitability and entities in which we generate profits, the assumptions we have made in forecasting our expected tax rate, the interpretation or application of existing tax statutes and regulations, as well as any corporate tax legislation that may be enacted or any guidance that may be issued by the U.S. Internal Revenue Service or in the other jurisdictions in which we operate (including Global Anti-Base Erosion (Pillar II) guidance).

Statements about the future state of our liquidity and regulatory capital ratios (including our SCB and G-SIB surcharge), and our prospective capital distributions (including dividends and repurchases), are subject to the risk that our actual liquidity, regulatory capital ratios and capital distributions may differ, possibly materially, from what is currently expected due to, among other things, the need to use capital to support clients, increased regulatory requirements resulting from changes in regulations or the interpretation or application of existing regulations, results of applicable supervisory stress tests, changes to the composition of our balance sheet and the impact of taxes on share repurchases. Statements about the estimated impact of proposed, but not finalized, capital rules are subject to change as we continue to analyze the proposals, the final rules may differ from the proposed rules and our balance sheet composition will change. As a consequence, we may underestimate the actual impact of the final rules (including any final rules in respect of the July 2023 proposal from the U.S. federal bank regulatory agencies).

Statements about the risk exposure related to the asset recovery guarantee provided to the Government of Malaysia are subject to the risk that we may be unsuccessful in our arbitration against the Government of Malaysia. Statements about the progress or the status of remediation activities relating to 1MDB are based on our expectations regarding our current remediation plans. Accordingly, our ability to complete the remediation activities may change, possibly materially, from what is currently expected.

Statements about our objectives in management of our human capital, including our diversity goals, are based on our current expectations and are subject to the risk that we may not achieve these objectives and goals due to, among other things, competition in recruiting and attracting diverse candidates and unsuccessful efforts in retaining diverse employees.

Statements about our sustainability and carbon neutrality, net-zero or other sustainability-related targets and goals are based on our current expectations and are subject to the risk that we may not achieve these targets and goals due to, among other things, global socio-demographic and economic trends, energy prices, lack of technological innovations, climate-related conditions and weather events, legislative and regulatory changes, consumer behavior and demand, and other unforeseen events or conditions.

Statements about future inflation are subject to the risk that actual inflation may differ, possibly materially, due to, among other things, changes in economic growth, unemployment or consumer demand.

Statements about the impact of Russia's invasion of Ukraine and related sanctions, the impact of the conflicts in the Middle East and other developments on our business, results and financial position are subject to the risks that hostilities may escalate and expand, that sanctions may increase and that the actual impact may differ, possibly materially, from what is currently expected.

Statements about the proposed sales of Asset & Wealth Management historical principal investments are subject to the risks that buyers may not bid on these assets or bid at levels, or with terms, that are unacceptable to us, and that the performance of these activities may deteriorate as a result of the proposed sales, and statements about the pending sale of the seller financing loan portfolio and our ability to transition the GM credit card program to another issuer are subject to the risk that the transaction may not close on the anticipated timeline or at all, including due to a failure to obtain requisite regulatory approval.

Statements about the effectiveness of our cybersecurity risk management process are subject to the risk that measures we have implemented to safeguard our systems (and third parties that we interface with) may not be sufficient to prevent a successful cybersecurity attack or a material security breach that results in the disclosure of confidential information or otherwise disrupts our operations.

# Item 3. Quantitative and Qualitative **Disclosures About Market Risk**

Quantitative and qualitative disclosures about market risk are set forth in "Management's Discussion and Analysis of Financial Condition and Results of Operations — Risk Management" in Part I, Item 2 of this Form 10-Q.

### Item 4. Controls and Procedures

As of the end of the period covered by this report, an evaluation was carried out by our management, with the participation of our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Exchange Act). Based on that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that these disclosure controls and procedures were effective as of the end of the period covered by this report. In addition, no change in our internal control over financial reporting (as defined in Rule 13a-15(f) under the Exchange Act) occurred during the quarter ended September 2024 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

### PART II. OTHER INFORMATION

# Item 1. Legal Proceedings

We are involved in a number of judicial, regulatory and arbitration proceedings concerning matters arising in connection with the conduct of our businesses. Many of these proceedings are in early stages, and many of these cases seek an indeterminate amount of damages. We have estimated the upper end of the range of reasonably possible aggregate loss for matters where we have been able to estimate a range and we believe, based on currently available information, that the results of matters where we have not been able to estimate a range of reasonably possible loss, in the aggregate, will not have a material adverse effect on our financial condition, but may be material to our operating results in a given period. Given the range of litigation and investigations presently under way, our litigation expenses may remain high. See "Management's Discussion and Analysis of Financial Condition and Results of Operations — Use of Estimates" in Part I, Item 2 of this Form 10-Q. See Notes 18 and 27 to the consolidated financial statements in Part I, Item 1 of this Form 10-Q for information about our reasonably possible aggregate loss estimate and judicial, regulatory and legal proceedings.

# Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

The table below presents purchases made by or on behalf of Group Inc. or any "affiliated purchaser" (as defined in Rule 10b-18(a)(3) under the Exchange Act) of our common stock during the three months ended September 2024.

			Total Shares	•	Oollar Value of
			Purchased as		Remaining
	Total	Average	Part of a Publicly		Authorized
	Shares	Price Paid	Announced		Repurchases
	Purchased	Per Share	Program		(\$ in millions)
July	1,209,327	\$ 496.18	1,209,154	\$	18,604
August	833,644	\$ 479.82	833,644	\$	18,204
September	-	\$ -	-	\$	18,204
Total	2,042,971		2,042,798		

In the table above, total shares purchased included 173 shares during July 2024 remitted to satisfy statutory withholding taxes related to share-based awards.

In February 2023, our Board approved a share repurchase program authorizing repurchases of up to \$30 billion of our common stock. This program replaced our previous share repurchase program and has no set expiration or termination date. The share repurchases are effected primarily through regular open-market purchases (which may include repurchase plans designed to comply with Rule 10b5-1 and accelerated share repurchases), the amounts and timing of which are determined primarily by our current and projected capital position, and capital deployment opportunities, but which may also be influenced by general market conditions and the prevailing price and trading volumes of our common stock.

### Item 5. Other Information

#### Rule 10b5-1 Trading Plans

During the three months ended September 2024, no directors or executive officers entered into, modified or terminated, contracts, instructions or written plans for the sale or purchase of Group Inc.'s securities that were intended to satisfy the affirmative defense conditions of Rule 10b5-1 or that constituted non-Rule 10b5-1 trading arrangements (as defined in Item 408 of Regulation S-K).

### Item 6. Exhibits

#### **Exhibits**

- 3.1 Restated Certificate of Incorporation of The Goldman Sachs Group, Inc., amended as of October 23, 2024 (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K, filed on October 24, 2024).
- 15.1 Letter re: Unaudited Interim Financial Information.
- 31.1 Rule 13a-14(a) Certifications.
- 32.1 Section 1350 Certifications (This information is furnished and not filed for purposes of Sections 11 and 12 of the Securities Act of 1933 and Section 18 of the Securities Exchange Act of 1934).
- Pursuant to Rules 405 and 406 of Regulation S-T, the 101 following information is formatted in iXBRL (Inline eXtensible Business Reporting Language): (i) the Consolidated Statements of Earnings for the three and nine months ended September 30, 2024 and September 30, 2023, (ii) the Consolidated Statements of Comprehensive Income for the three and nine months ended September 30, 2024 and September 30, 2023, (iii) the Consolidated Balance Sheets as of September 30, 2024 and December 31, 2023, (iv) the Consolidated Statements of Changes in Shareholders' Equity for the three and nine months ended September 30, 2024 and September 30, 2023, (v) the Consolidated Statements of Cash Flows for the nine months ended September 30, 2024 and September 30, 2023, (vi) the notes to the Consolidated Financial Statements and (vii) the cover page.
- 104 Cover Page Interactive Data File (formatted in iXBRL in Exhibit 101).

### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

THE GOLDMAN SACHS GROUP, INC.

By:	/ <sub>S</sub> /	Denis P. Coleman III
Name:		Denis P. Coleman III
Title:		Chief Financial Officer (Principal Financial Officer)
Date:		November 1, 2024
By:	/s/	Sheara J. Fredman
By: Name:	<u>/s/</u>	Sheara J. Fredman Sheara J. Fredman
•	<u>/s/</u>	

November 1, 2024

Securities and Exchange Commission 100 F Street, N.E. Washington, DC 20549

Re: The Goldman Sachs Group, Inc.

Registration Statements on Form S-8

(No. 333-80839) (No. 333-42068) (No. 333-106430) (No. 333-120802) (No. 333-235973) (No. 333-261673)

Registration Statement on Form S-3

(No. 333-269296)

#### Commissioners:

We are aware that our report dated November 1, 2024 on our review of the consolidated balance sheet of The Goldman Sachs Group, Inc. and its subsidiaries (the Company) as of September 30, 2024, and the related consolidated statements of earnings, comprehensive income and changes in shareholders' equity for the three and nine month periods ended September 30, 2024 and 2023, and the consolidated statements of cash flows for the nine month periods ended September 30, 2024 and 2023, including the related notes, included in the Company's quarterly report on Form 10-Q for the quarter ended September 30, 2024, is incorporated by reference in the registration statements referred to above. Pursuant to Rule 436(c) under the Securities Act of 1933 (the Act), such report should not be considered a part of such registration statements, and is not a report within the meaning of Sections 7 and 11 of the Act.

Very truly yours,

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP, 300 Madison Avenue, New York, NY 10017

#### **CERTIFICATIONS**

#### I, David Solomon, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q for the quarter ended September 30, 2024 of The Goldman Sachs Group, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 1, 2024 /s/ David Solomon

Name: David Solomon

Title: Chief Executive Officer

#### **CERTIFICATIONS**

#### I, Denis P. Coleman III, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q for the quarter ended September 30, 2024 of The Goldman Sachs Group, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 1, 2024 /s/ Denis P. Coleman III

Name: Denis P. Coleman III
Title: Chief Financial Officer

#### Certification

Pursuant to 18 U.S.C. § 1350, the undersigned officer of The Goldman Sachs Group, Inc. (the Company) hereby certifies that the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2024 (the Report) fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934 and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 1, 2024
/s/ David Solomon
Name: David Solomon

Title: Chief Executive Officer

The foregoing certification is being furnished solely pursuant to 18 U.S.C. § 1350 and is not being filed as part of the Report or as a separate disclosure document.

#### Certification

Pursuant to 18 U.S.C. § 1350, the undersigned officer of The Goldman Sachs Group, Inc. (the Company) hereby certifies that the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2024 (the Report) fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934 and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 1, 2024

/s/ Denis P. Coleman III

Name: Denis P. Coleman III

Title: Chief Financial Officer

The foregoing certification is being furnished solely pursuant to 18 U.S.C. § 1350 and is not being filed as part of the Report or as a separate disclosure document.