



Goldman Sachs Group UK Limited

Pillar 3 Disclosures

For the period ended December 31, 2020

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Introduction

Overview

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 across investment banking, securities, investment management and consumer banking to a large and diversified client base that includes corporations, financial institutions, governments and individuals. Goldman Sachs Group UK Limited (GSGUKL) is a wholly owned subsidiary of Group Inc. When we use the terms “Goldman Sachs”, “GS Group” and “the firm”, we mean Group Inc. and its consolidated subsidiaries and when we use the terms “GSGUK”, “the company”, “we”, “us” and “our”, we mean GSGUKL and its consolidated subsidiaries.

The Board of Governors of the Federal Reserve System (FRB) is the primary regulator of Group Inc., a bank holding company (BHC) under the 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).

GSGUK is supervised on a consolidated basis by the Prudential Regulation Authority (PRA) and as such is subject to minimum capital adequacy standards. Certain subsidiaries of GSGUK are regulated by the Financial Conduct Authority (FCA) and the PRA, or solely by the FCA, and are subject to minimum capital adequacy standards also on a standalone basis.

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 could result in restrictions being imposed by our regulators and could limit our ability to repurchase shares, pay dividends and make certain discretionary compensation payments. GSGUK’s capital levels are also subject to qualitative judgements by our regulators about components of capital, risk weightings and other factors.

For information on Group Inc.’s financial statements and regulatory capital ratios, please refer to the firm’s annual Pillar 3 Disclosures and Annual Report on Form 10-K. References to the “2020 Form 10-K” are to the firm’s Annual Report on Form 10-K for the year ended December 31, 2020.

<https://www.goldmansachs.com/investor-relations/financials/current/other-information/4q-pillar3-2020.pdf>

<https://www.goldmansachs.com/investor-relations/financials/current/10k/2020-10-k.pdf>

Following the end of the transition period after the U.K.’s withdrawal from the E.U., any reference made in this document to E.U. directives and regulations (including technical standards) should be read as a reference to the U.K.’s version of such directive and/or regulation, as onshored into UK law under the European Union (Withdrawal) Act 2018, as amended. As of the date of publication, the U.K. and E.U. frameworks remain largely consistent, however any relevant differences are identified in the document.

The GSGUK consolidated regulatory capital requirement has been calculated in accordance with the E.U. Capital Requirements Directive (CRD) and the E.U. Capital Requirements Regulation (CRR). These are largely based on the Basel Committee on Banking Supervision’s (Basel Committee) final capital framework for strengthening international capital standards (Basel III), which is structured around three pillars: Pillar 1 “minimum capital requirements”, Pillar 2 “supervisory review process” and Pillar 3 “market discipline”. Certain provisions of the CRD or discretionary aspects of CRR have been implemented in the PRA and FCA Rulebooks.

The company’s consolidated financial information for the period ended December 2020 has been prepared in line with the recognition and measurement requirements of E.U.-adopted International Financial Reporting Standards (IFRS). In addition, the company changed its accounting reference date from November 30 to December 31 to conform to the period used by the company for U.S. tax reporting purposes. As such, its financial statements have been prepared for the thirteen months ended December 31, 2020. All references to December 2020 refer to the period ended, or the date, as the context requires, December 31, 2020.

The Pillar 3 disclosures set out the qualitative and quantitative elements of Part 8 of the CRR, as supplemented by the PRA and FCA Rulebooks. From March 2018, the Pillar 3 disclosures have also been prepared in accordance with the EBA Guidelines on disclosure requirements under Part 8 of the CRR published in December 2016.

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The Pillar 3 disclosures have been published in conjunction with consolidated financial information for GSGUK for December 2020. The annual consolidated financial information for GSGUK can be accessed via the following link:

<http://www.goldmansachs.com/disclosures/index.html>

Measures of exposures and other metrics disclosed in this report may not be based on IFRS, may not be directly comparable to measures reported in financial statements, and may not be comparable to similar measures used by other companies. These disclosures are not required to be, and have not been, audited by our independent auditors.

Basis of Consolidation

GSGUKL is the holding company for a group that provides a wide range of financial services to clients located worldwide. The company's functional currency is US dollars and these disclosures are prepared in that currency.

The following UK-regulated subsidiaries are included in the regulatory consolidation:

- Goldman Sachs International (GSI)
- Goldman Sachs International Bank (GSIB)
- Goldman Sachs Asset Management International (GSAMI)
- Goldman Sachs MB Services Limited (GSMBSL)

The scope of consolidation for regulatory capital purposes is consistent with the IFRS consolidation.

The company is required to make certain capital disclosures on an individual or subconsolidated basis for significant subsidiaries. The significant subsidiaries of GSGUK are GSI and GSIB. GSI is the firm's broker dealer in the Europe, Middle East and Africa (EMEA) region and its risk profile is materially the same as GSGUK. GSIB is GSGUK's deposit-taking subsidiary. Risk management policies and procedures are applied consistently to GSI, GSIB and to GSGUK as a whole. The remaining entities have minimal balance sheet activity and have not been determined material subsidiaries for the purposes of these disclosures.

Restrictions on the Transfer of Funds or Regulatory Capital within the Firm

Group Inc. is a holding company and, therefore, utilises dividends, distributions and other payments from its subsidiaries to fund dividend payments and other payments on

its obligations, including debt obligations. Regulatory capital requirements, as well as other provisions of applicable law and regulations restrict Group Inc.'s ability to withdraw capital from its regulated subsidiaries. Within GSGUK, capital is provided by GSGUKL to subsidiary entities. Capital is considered transferable to other entities within the GSGUK Group without any significant restriction except to the extent it is required for regulatory purposes.

For information about restrictions on the transfer of funds within Group Inc. and its subsidiaries, see "Note 20. Regulation and Capital Adequacy" in Part II, Item 8 "Financial Statements and Supplementary Data" and "Risk Management – Liquidity Risk Management" and "Equity Capital Management and Regulatory Capital" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K.

Fair Value

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 recognised in our consolidated statements of earnings and, therefore, in capital. 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. The use of fair value to measure financial instruments is fundamental to risk management practices and is our most critical accounting policy. The daily discipline of marking substantially all of our inventory to current market levels is an effective tool for assessing and managing risk and provides transparent and realistic insight into our financial exposures. The use of fair value is an important aspect to consider when evaluating our capital base and our capital ratios as changes in the fair value of our positions are reflected in the current period's shareholders' equity, and accordingly, regulatory capital; it is also a factor used to determine the classification of positions into the banking book and trading book.

For additional information regarding the determination of fair value under accounting principles generally accepted in the United States (U.S. GAAP) and controls over valuation of financial instruments, see "Note 3. Significant Accounting Policies" in Part II, Item 8 "Financial Statements and Supplementary Data" and "Critical Accounting Policies – Fair Value" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K.

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The firm has documented policies and maintains systems and controls for the calculation of Prudent Valuation Adjustment (“PVA”) as required by the Commission Delegated Regulation (EU) No. 2016/101. PVA represents the excess of valuation adjustments required to achieve prudent value, over any adjustment applied in the firm’s fair value that addresses the same source of valuation uncertainty. For a valuation input where the range of plausible values is created from mid prices, Prudent Value represents the point within the range where the firm is 90% confident that the mid value which could be achieved in exiting the valuation exposure would be at that price or better. The Firm’s methodology addresses fair value uncertainties arising from a number of sources; market price uncertainty, close-out costs, model risk, unearned credit spreads, investing and funding cost, concentrated positions, future administrative costs, early termination, operational risk. Methodologies utilised by our independent control functions to calculate PVA are aligned with, and use the same external data sources as, those used when carrying out price verification of fair value.

Definition of Risk-Weighted Assets

The risk weights used in the calculation of RWAs reflect an assessment of the riskiness of our assets and exposures. These risk weights are based on either predetermined levels set by regulators or on internal models which are subject to various qualitative and quantitative parameters that are subject to approval by our regulators. The relationship between available capital and capital requirements can be expressed in the form of a ratio, and capital requirements are arrived at by dividing RWAs by 12.5. In this document, minimum capital ratios set out in Table 1 are expressed including the impact of additional buffers.

Banking Book / Trading Book Classification

The firm has a comprehensive framework of policies, controls and reporting to meet the requirements of the CRR for inclusion of positions in the banking book and trading book. In order to determine the appropriate regulatory capital treatment for our exposures, positions must first be classified into either “banking book” or “trading book”. Positions are classified as banking book unless they qualify to be classified as trading book.

Trading book positions generally meet the following criteria: they are assets or liabilities that are accounted for at fair value; they are risk managed using a Value-at-Risk (VaR) internal model; they are held as part of our market-making and underwriting businesses and are intended to be resold in the

short term, or positions intended to benefit from actual or expected short-term price differences between buying and selling prices or from other price or interest rate variations¹. Trading book positions are subject to market risk regulatory capital requirements, as are foreign exchange and commodity positions, whether or not they meet the other criteria for classification as trading book positions. Market risk is the risk of loss in value of these positions due to changes in market conditions. Some trading book positions, such as derivatives, are also subject to counterparty credit risk regulatory capital requirements.

Banking book positions may be accounted for at amortised cost, fair value or in accordance with the equity method. Banking book positions are subject to credit risk regulatory capital requirements. Credit risk represents the potential for loss due to the default or deterioration in credit quality of a counterparty (e.g., an Over-The-Counter (OTC) derivatives counterparty or a borrower) or an issuer of securities or other instruments we hold.

Regulatory Developments

The company’s businesses are subject to extensive regulation and supervision worldwide. Regulations have been adopted or are being considered by regulators and policy-makers. The expectation is that the principal areas of impact from regulatory reform for the company will be increased regulatory capital requirements and increased regulation and restriction on certain activities. However, 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 final U.K. regulations.

Following the end of the transition period after the U.K.’s withdrawal from the E.U., the company expects change in the regulatory framework that will govern transactions and business it undertakes.

The U.K. has adopted E.U. financial services legislation that was in effect on December 31, 2020, which means that the U.K. financial services regime remains substantially the same as it was under E.U. financial services legislation. However from this date the U.K. may diverge from E.U. legislation and may decide not to adopt rules that correspond to E.U. legislation not already operative in the U.K.

Risk-Based Capital Ratios. In June 2019, amendments to the CRR and CRD were published in the Official Journal of the E.U.

¹ As defined in point (85) of Article 4(1) in CRR

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The amendments to the CRR include changes to rules for the leverage ratio, the net stable funding ratio, requirements for own funds and eligible liabilities (MREL), counterparty credit risk, market risk, exposures to central counterparties, exposures to collective investment undertakings, large exposures, and reporting and disclosure requirements. Most of these requirements applied from June 27, 2021 in the E.U. and similar requirements are expected to be implemented by January 1, 2022 in the U.K.

The amendments to the CRD include provisions on financial holding companies, remuneration, interest rate risk management, supervisory powers and macro-prudential capital requirements. The U.K., as an E.U. member state at the time of publication in the Official Journal, is required to adopt the amendments to the CRD. The amendments to the CRD are expected to phase in over time.

In December 2017, the Basel Committee published standards that it described as the finalisation of the Basel III post-crisis regulatory reforms. These standards set a floor on internally developed capital requirements at a percentage of the capital requirements under the standardised approach. They also revised the Basel Committee's standardised and model-based approaches for credit risk, provide a new standardised approach for operational risk capital and revise the frameworks for credit valuation adjustment risk. The Basel Committee has proposed that national regulators implement these standards beginning January 1, 2023, and that the new floor be phased in through January 1, 2028. HM Treasury stated in its Financial Services Bill proposal that the UK remains committed to a full, timely and consistent implementation of the standards.

The Basel Committee's standards are not effective in any jurisdiction until rules implementing such standards have been implemented by the relevant authorities in such jurisdiction.

The impact of the latest Basel Committee developments on the firm (including its RWAs and regulatory capital ratios) is subject to uncertainty until corresponding legislation is implemented.

Climate Change

We recognize that climate change presents both challenges and opportunities for our business. Climate change could potentially disrupt the firm's business, affect client activity levels and creditworthiness and damage the firm's reputation. For example, climate change may cause extreme weather events that disrupt operations at one or more of the firm's primary locations, affecting its ability to service and interact

with its clients. Climate change may also have a negative impact on the financial condition of its clients, which may decrease revenues from those clients and increase the credit risk associated with loans and other credit exposures to those clients. Additionally, the firm's reputation may be damaged as a result of its involvement, or its clients' involvement, in certain industries or projects associated with climate change. The firm's Environmental Policy Framework articulates our roadmap for environmental progress and our approach to engaging with clients on climate-related risks and opportunities, including risk management guidelines for carbon intense sectors.

Climate change presents financial risk through two primary components, physical and transition. Physical risks relate to the firm's own infrastructure as well as real estate lending and investment exposure. The firm uses an internal model to assess physical risk factors at any locations for time horizons through the year 2050 as well as for today. Transition risk emerge due to policy changes towards low carbon emission economy. The firm uses an internal transition risk model that allows scenario analysis under several distinct representative pathways and distinct shocks to equity, credit and other market variables. As the firm continues to develop and refine its process around climate risk monitoring, its impact on wholesale lending will remain an important consideration.

Other Developments

The resurgence in the spread of COVID-19 towards the end of 2020 and into 2021 has created greater uncertainty regarding the economic outlook for the near term, even as efforts to distribute vaccines are underway. While governments and central banks continued to be aggressive in providing fiscal and monetary stimulus, the global economic recovery remains fragile.

The company has continued to successfully execute on its Business Continuity Planning (BCP) strategy since initially activating it in March 2020 in response to the emergence of the COVID-19 pandemic. The company's priority has been to safeguard its employees and to seek to ensure continuity of business operations on behalf of its clients. As a result of the company's BCP strategy, the majority of its employees worked remotely during most of 2020 and continue to do so in 2021. In order to partially re-open the company's offices to employees after initial restrictions began to ease in the second quarter of 2020, the company established policies and protocols to address safety considerations, taking into account the readiness of people, communities and facilities. Over the course of the pandemic, the extent to which the company's employees have worked from its offices has varied based on how circumstances in each location have evolved. The

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company is in constant dialogue with key stakeholders to assess health and safety conditions across all of its office locations and has robust procedures in place to protect the well-being of employees, such as controls around building access, strict physical distancing measures, enhanced cleaning regimes and on-site COVID-19 testing.

The COVID-19 pandemic has created economic and financial

disruptions that have in the past adversely affected, and may in the future adversely affect the company's business, financial condition, liquidity and results of operations. The extent to which the COVID-19 pandemic will negatively affect the company's businesses, financial condition, liquidity and results of operations will depend on future developments, including the widespread availability, use and effectiveness of vaccines, which are highly uncertain and cannot be predicted.

Risk Management

Overview

The firm believes that effective risk management is critical to the success of the firm and of GSGUK. Accordingly, the firm has established an Enterprise Risk Management (ERM) framework that employs a comprehensive, integrated approach to risk management, and is designed to enable comprehensive risk management processes through which the firm identifies, assesses, monitors and manages the risks associated with its business activities. These risks include liquidity, market, credit, operational, model, legal, compliance, conduct, regulatory and reputational risks. The following section covers the risk management structure which is built around three core components: governance, processes and people.

Governance

Risk management governance starts with the Board of Directors of the firm (Board), which both directly and through its committees, including its Risk Committee, oversees the risk management policies and practices implemented through the ERM framework. The Board is also responsible for the annual review and approval of the firm's risk appetite statement. The risk appetite statement describes the levels and types of risk the firm is willing to accept or to avoid, in order to achieve strategic business objectives included in the strategic business plan, while remaining in compliance with regulatory requirements. The Board reviews the strategic business plan and is ultimately responsible for overseeing and providing direction about strategy and risk appetite.

Enterprise Risk, which reports to the chief risk officer, oversees the implementation of the firm's risk governance structure and core risk management processes and is responsible for ensuring that the ERM framework provides the Board, the risk committees and senior management with a consistent and integrated approach to managing the various risks in a manner consistent with the firm's risk appetite.

The firm's revenue-producing units, as well as Treasury, Engineering, Human Capital Management, Operations, and Corporate and Workplace Solutions, are considered the first line of defence and are accountable for the outcomes of the risk-generating activities, as well as for assessing and managing those risks within the firm's risk appetite.

The independent risk oversight and control functions are considered the second line of defence and provide independent assessment, oversight and challenge of the risks

taken by the first line of defence, 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 the third line of defence and reports to the Audit Committee of the Board and administratively to the 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 defence 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.

The firm maintains strong and proactive communication about risk and it has a culture of collaboration in decision-making among the first and second lines of defence, committees and senior management. While the first line of defence is responsible for management of their risk, the firm dedicates extensive resources to the second line of defence in order to ensure a strong oversight structure and an appropriate segregation of duties. The firm regularly reinforces its strong culture of escalation and accountability across all functions.

Processes

The firm maintains various processes that are critical components of its risk management framework, including risk identification and assessment, risk appetite, limit and threshold setting, risk reporting and monitoring, and risk decision-making.

To effectively assess and monitor risks, the firm maintains a daily discipline of marking substantially all of its inventory to current market levels. The firm does so because of its belief that this discipline is one of the most effective tools for assessing and managing risk and that it provides transparent and realistic insight into its inventory exposures. The firm also applies a rigorous framework of limits and thresholds to control and monitor risk across transactions, products, businesses and markets. See "Credit Risk", "Market Risk" and "Liquidity Risk" for further information.

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People

Even the best technology serves only as a tool for helping to make informed decisions in real time about the risks the firm is taking. Ultimately, effective risk management requires people to interpret risk data on an ongoing and timely basis and adjust risk positions accordingly. The experience of the company's professionals, and their understanding of the nuances and limitations of each risk measure, guides the company in assessing exposures and maintaining them within prudent levels.

The firm reinforces a culture of effective risk management, consistent with its risk appetite, in its training and development programmes, as well as in the way it evaluates performance, and recognises and rewards people. The firm's training and development programmes, including certain sessions led by the most senior leaders, are focused on the importance of risk management, client relationships and reputational excellence. As part of the firm's annual performance review process, the firm assesses reputational excellence, including how an employee exercises good risk management and reputational judgement, and adheres to the firm's code of conduct and compliance policies. The firm's review and reward processes are designed to communicate and reinforce to its professionals the link between behaviour and how people are recognised, the need to focus on clients and reputation, and the need to always act in accordance with the highest standards of the firm.

Structure

Ultimate oversight of risk in the firm is the responsibility of the Board, who oversee risk both directly and through its committees, including its Risk Committee. A series of committees within the significant subsidiaries with specific risk management mandates covering important aspects of each entity's businesses also have oversight or decision-making responsibilities. The key committees with oversight of our activities are described below.

European Management Committee (EMC). The EMC oversees all of our activities in the region. It is chaired by the chief executive officer of GSI and its membership includes senior managers from the revenue-producing divisions and independent control and support functions. The EMC reports to GSI's Board of Directors.

GSI and GSIB Board Audit Committees. The GSI and GSIB Board Audit Committees assist the GSI and GSIB Boards of Directors in the review of processes for ensuring the suitability and effectiveness of the systems and controls in the region. The committees also have responsibility for

overseeing the external audit arrangements and review of internal audit activities. Their membership includes non-executive directors of GSI and GSIB. The Board Audit Committees report to the GSI and GSIB Boards.

GSI and GSIB Board Risk Committees. The GSI and GSIB Board Risk Committees are responsible for providing advice to the GSI and GSIB Boards on the overall current and future risk appetite and assisting the Boards in overseeing the implementation of that risk appetite by senior management. This includes reviewing and advising on each company's risk strategy and oversight of the capital, liquidity and funding position. Their membership includes non-executive directors of GSI and GSIB. The Board Risk Committees report to the GSI and GSIB Boards.

GSI and GSIB Risk Committees. The GSI and GSIB Risk Committees are responsible for the ongoing monitoring and control of all financial and non-financial risks associated with each entity's activities. This includes reviewing key financial and risk metrics, including but not limited to profit and loss, capital (including the Internal Capital Adequacy Assessment Process (ICAAP)), funding, liquidity, credit risk, market risk, operational risk, price verification and stress tests. The GSI and GSIB Risk Committees approve market risk, credit risk, liquidity and regulatory capital limits. Their membership includes senior managers from the revenue-producing divisions and independent risk oversight and control functions. The Risk Committees report to the GSI and GSIB Boards.

EMEA Conduct Risk Committee. The EMEA Conduct Risk Committee has oversight responsibility for culture and conduct risk, as well as for business standards and practices. Its membership includes senior managers from the revenue-producing divisions and independent risk oversight and control functions. The EMEA Conduct Risk Committee reports to the EMC, GS Group's Firmwide Client and Business Standards Committee, and GSI and GSIB Boards or their committees as appropriate.

Risk Profile and Strategy

In the normal course of activities in serving clients, we commit capital, engage in derivative transactions, and otherwise incur risk as an inherent part of our business. However, we endeavour not to undertake risk in form or amount that could potentially and materially impair our capital and liquidity position or the ability to generate revenues, even in a stressed environment. Where possible we employ mitigants and hedges, such as collateral, netting derivatives and other controls, in order to manage such risks within our risk appetite levels.

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GSGUKL's principal subsidiaries, GSI and GSIB, have their own Boards of Directors and their own Board Risk Committees, with the responsibility of assisting each Board in overseeing the implementation of the companies' risk appetite and strategy. Each of GSI and GSIB's Board Risk Committees held nine scheduled meetings in 2020, two of which were held jointly with their Board Audit Committees and one of which was held jointly with their Board Remuneration Committees.

The companies' overall risk appetite is established through an assessment of opportunities relative to potential loss, and is calibrated to GSI and GSIB's respective capital, liquidity and earnings capability. The primary means of evaluating loss-taking capacity is through the ICAAP. The key aspects of risk management documented through the ICAAP process also form part of GSGUK's day-to-day decision making culture.

The Risk Appetite Statement (RAS) of GSI and GSIB complements the firm's RAS, and articulates the risk philosophy, the identification of risks generated by its business activities, as well as the tolerance and limits set in order to manage effectively those risks. Consistent with this objective, we pay particular attention to evaluating risks that are concentrated, correlated, illiquid, or have other adverse characteristics. The intention is to mitigate or eliminate these risks, limiting them to such an extent that they could not, individually or collectively, materially and adversely affect the companies. GSI and GSIB, regularly review risk exposure and risk appetite, and take into consideration the key external constituencies, in particular their clients, shareholders, creditors, rating agencies, and regulators. The long-term success of our business model is directly linked to the preservation of strong relationships with each of these key constituents.

The Boards of Directors of both GSI and GSIB, as well as their respective Board Risk Committees, are actively engaged in reviewing and approving our overall risk appetite, as well as in reviewing the risk profile. Risk appetite statements are reviewed in the first instance by the respective Board Risk Committees and finally, are endorsed by the Boards annually. The Board Risk Committees also approve any amendment to the risk appetite statements outside of the annual approval process. The Boards of Directors receive quarterly updates on risk as well as ad-hoc updates, as appropriate.

The consideration of risk appetite and the underlying risk management framework ensures that GSGUK's businesses are congruent with our strategy under both normal and stressed environments. We believe that the risk management framework and the associated risk policies, procedures and

systems in place are comprehensive and effective with regard to our profile and strategy. The framework is evaluated on an ongoing basis and subject to independent internal audit assessments to ensure our risk management arrangements remain effective.

Risk Measurement

On a day-to-day basis risk measurement plays an important role in articulating the risk appetite of the firm and GSGUK and in managing the risk profile as expressed in the risk appetite statements. Risk may be monitored against firmwide, product, divisional or business level thresholds or against a combination of such attributes. We measure risk using a suite of metrics, as relevant to each type of risk, including stress metrics to calculate the potential loss from a wide range of scenarios and sensitivity analysis. These risks are tracked systematically and they are monitored and reported to the relevant senior management Committees and Board on a regular basis.

A number of specialist committees and governance bodies sit within the broader risk management framework with responsibilities for the monitoring of specific risks against limits or tolerances and the escalation of any breaches. Specific governance bodies are in place for the management of credit, market, liquidity, model and operational risk.

The firm's risk management framework, which relies on oversight from the Board of Directors, operates independently of revenue producing divisions and other non-revenue producing units such as compliance, finance, legal, internal audit and operations.

For an overview of the firm's risk management framework, including Board governance, processes and committee structure, see "Risk Management – Overview and Structure of Risk Management" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K.

Adequacy of Risk Management Arrangements

The Firm is satisfied that the risk management arrangements and systems, as described above, are appropriate given the strategy and risk profile of GSGUK. These elements are reviewed at least annually and, where appropriate, updated to reflect best practice, evolving market conditions and changing regulatory requirements.

Capital Framework

Capital Structure

For regulatory capital purposes, a company's total available capital has the following components:

- Common Equity Tier 1 capital (CET1), which is comprised of common shareholders' equity, after giving effect to deductions for disallowed items and other adjustments;
- Tier 1 capital which is comprised of CET1 capital and other qualifying capital instruments; and
- Tier 2 capital which is comprised of long term qualifying subordinated debt and preference shares.

Certain components of our regulatory capital are subject to regulatory limits and restrictions under the rules. In general, to qualify as Tier 1 or Tier 2 capital, an instrument must be fully paid and unsecured. A qualifying Tier 1 or Tier 2 capital instrument must also be subordinated to all senior indebtedness of the organisation.

Under the rules, the minimum CET1, Tier 1 capital and Total capital ratios (collectively the Pillar 1 capital requirements) are supplemented by:

- A capital conservation buffer of 2.5%, consisting entirely of capital that qualifies as CET1 capital.
- A countercyclical capital buffer of up to 2.5% (consisting entirely of CET1) in order to counteract excessive credit growth. The buffer only applies to the company's exposures to certain types of counterparties based in jurisdictions which have announced a countercyclical buffer. The buffer was negligible as of December 2020. The countercyclical capital buffer applicable to the company could change in the future and, as a result, the company's risk-based capital requirements could increase.
- The individual capital requirement under Pillar 2A (an additional amount to cover risks not adequately captured in Pillar 1). The PRA performs a periodic supervisory review of GSI's and GSIB's Internal Capital Adequacy Assessment Process (ICAAP), which leads to a final determination by the PRA of individual capital

requirement under Pillar 2A. On 29 May 2020, following the onset of COVID-19, the PRA approved an application to convert Pillar 2A capital requirements from a percentage of RWAs to a fixed nominal amount. The sum of Pillar 1 and Pillar 2A requirements is referred to as "Total Capital Requirement" or TCR and represents the minimum amount of capital the PRA considers that a firm should hold at all times.

Together these constitute total minimum regulatory capital ratios.

Minimum Regulatory Capital Ratios

The following table presents GSGUK's, GSI's and GSIB's total minimum regulatory capital ratios as of December 2020.

Table 1: Minimum Regulatory Capital Ratios

	December 2020 Minimum ratio		
	GSGUK	GSI	GSIB
CET1 ratio	8.1%	8.1%	8.3%
Tier 1 capital ratio	10.0%	10.0%	10.3%
Total capital ratio	12.5%	12.5%	12.9%

The ratios in the above table incorporate the TCR received from the PRA. As of December 2020, GSGUK's TCR at the total capital level was 10.0%.

The PRA also defines the forward looking capital requirement which represents the PRA's view of the capital that GSGUK would require to absorb losses in stressed market conditions to the extent not covered by the capital conservation buffer. This is known as Pillar 2B or the "PRA buffer" and is not reflected in the minimum regulatory capital ratios shown in Table 1 above.

Compliance with Capital Requirements

As of December 31, 2020, all of GSGUK's regulated subsidiaries had capital levels in excess of their minimum regulatory capital requirements.

Regulatory Capital

Overview

The following table presents a breakdown of GSGUK's capital ratios under CRR as of December 31, 2020, including those for our significant subsidiaries GSI and GSIB.

Table 2: Regulatory Capital Ratios

\$ in millions	As of December 2020		
	GSGUK	GSI	GSIB
CET1 Capital	\$ 31,805	\$ 26,962	\$ 3,320
Tier 1 Capital	40,105	35,262	\$ 3,320
Tier 2 Capital	6,503	5,377	826
Total Capital	\$ 46,608	\$ 40,639	\$ 4,146
RWAs	\$ 275,967	\$ 252,355	\$ 19,263
CET1 Ratio	11.5%	10.7%	17.2%
Tier 1 Capital Ratio	14.5%	14.0%	17.2%
Total Capital Ratio	16.9%	16.1%	21.5%

Transitional Impact of IFRS 9

IFRS9 addresses the classification, measurement and recognition of financial assets and financial liabilities. It replaces the guidance in IAS 39 – Financial Instruments: Recognition and Measurement that relates to the classification and measurement of financial instruments. Based on materiality no further disclosures for the transitional impact of IFRS9 are made in this document.

Capital Structure

All capital, RWAs and ratios are based on current interpretation, expectations and understanding of the rules and may evolve as the interpretation and application is discussed with our regulators.

Assets that are deducted from capital in computing the numerator of the capital ratios are excluded from the computation of RWAs in the denominator of the ratios. The following tables contain information on the components of our regulatory capital structure. The capital resources of GSGUK are based on audited, consolidated non-statutory financial information and those of GSI and GSIB are based on audited statutory financial statements.

Table 3: Regulatory Capital Resources

\$ in millions	As of December 2020		
	GSGUK	GSI	GSIB
Ordinary Share Capital	\$ 2,135	\$ 598	\$ 63
Share Premium Account Including Reserves	495	5,243	2,079
Retained Earnings ¹	30,562	22,437	1,219
CET1 Capital Before Deductions	\$ 33,192	\$ 28,278	\$ 3,361
Net Pension Assets	(106)	(106)	-
CVA and DVA	106	86	20
Prudent Valuation Adjustments	(334)	(299)	(3)
Expected Loss Deduction and Loan Loss Provision	(792)	(767)	(25)
Other Adjustments ²	(91)	(63)	(28)
Intangibles ³	(170)	(167)	(5)
CET1 Capital After Deductions	\$ 31,805	\$ 26,962	\$ 3,320
Additional Tier 1 capital	8,300	8,300	-
Tier 1 Capital After Deductions	\$ 40,105	\$ 35,262	\$ 3,320
Tier 2 Capital Before Deductions	6,503	5,377	826
Tier 2 Capital After Deductions	\$ 6,503	\$ 5,377	\$ 826
Total Capital Resources	\$ 46,608	\$ 40,639	\$ 4,146

1. Retained Earnings are shown net of interim dividends paid in 2021
2. Other Adjustments include regulatory deductions for other foreseeable charges applicable to profits recognised as of December 2020 in GSI, and deferred tax assets
3. The impact from application of the new EBA prudential treatment of software assets on GSGUK own funds is to increase CET1 ratio by 6bps as of December 2020

A further breakdown of the deductions from regulatory capital can be found in Table 44. We set out below a reconciliation between the capital resources of each entity and their respective balance sheets.

Table 4: Reconciliation to Balance Sheet

\$ in millions	As of December 2020		
	GSGUK	GSI	GSIB
Total Shareholders' Funds per Balance Sheet	\$ 33,192	\$ 28,278	\$ 3,361
Regulatory deductions	(1,387)	(1,316)	(41)
Additional Tier 1 Capital	8,300	8,300	-
Tier 2 Capital After Deductions	6,503	5,377	826
Total Capital Resources	\$ 46,608	\$ 40,639	\$ 4,146

Pillar 3 Disclosures

Minimum Requirement for Own Funds and Eligible Liabilities (MREL)

The amendments to the CRR published in June 2019 require material subsidiaries of an overseas banking group at the consolidated E.U. level, such as GSGUK, to have sufficient own funds and eligible liabilities to meet internal MREL. These rules began to phase in from June 27, 2019, and will become fully effective on January 1, 2022.

As of December 31, 2020, GSGUK had own funds and eligible liabilities in excess of its internal MREL.

GSGUK own funds and eligible liabilities key metrics are provided in Table 5.

Table 5: Own Funds and Eligible Liabilities

<i>\$ in millions</i>	As of December 2020
	GSGUK
Total own funds and eligible liabilities	\$ 60,284
Total RWA	275,967
Total own funds and eligible liabilities as a percentage of RWA	21.84%
Leverage Exposure	797,524
Total own funds and eligible liabilities as a percentage of leverage exposure	7.56%
Excluded Liabilities per Article 72a(2) of CRR	1,069,050

Table 6 provides details of the composition of GSGUK's own funds and eligible liabilities.

Table 6: Own Funds and Eligible Liabilities Composition

<i>\$ in millions</i>	As of December 2020
	GSGUK
Common Equity Tier 1 capital (CET1)	31,805
Additional Tier 1 capital (AT1) before own funds and eligible liabilities adjustments	8,300
AT1 instruments not eligible to meet internal MREL	(2,800)
AT1 instruments eligible under the own funds and eligible liabilities framework	5,500
Tier 2 capital (T2) before own funds and eligible liabilities adjustments	6,503
Amortised portion of T2 instruments where remaining maturity > 1 year	-
Other adjustments	-
T2 instruments eligible under the own funds and eligible liabilities framework	6,503
Own funds and eligible liabilities arising from regulatory capital	43,808
Eligible liabilities instruments subordinated to excluded liabilities	16,476
Own funds and eligible liabilities instruments arising from non-regulatory capital instruments before adjustments	16,476
Own funds and eligible liabilities instruments before deductions	60,284
Deduction of investments in own other own funds and eligible liabilities	-
Other adjustments to internal own funds and eligible liabilities	-
Own funds and eligible liabilities instruments after deductions	60,284
Total RWAs	275,967
Leverage exposure measure	797,524
Own funds and eligible liabilities as a percentage of total RWAs	21.84%
Own funds and eligible liabilities as a percentage of leverage exposure	7.56%
CET1 (as a percentage of total RWAs) available after meeting minimum capital requirements and MREL	4.50%
Institution-specific combined buffer requirement	2.52%
Of which: capital conservation buffer requirement	2.50%
Of which: bank specific countercyclical buffer requirement	0.02%

Pillar 3 Disclosures

Table 7 provides a breakdown of eligible instruments in the creditor hierarchy of GSGUK.

Table 7: Own Funds and Eligible Liabilities Creditor Ranking

Description of creditor ranking						As of December 2020
	(most junior)				(most senior)	GSGUK Total
	Ordinary Shares ¹	AT1 Instruments	Tier 2 Preference Shares	Tier 2 Subordinated Loans	Senior Subordinated Loans	
Total capital and liabilities net of credit risk mitigation	\$ 2,135	\$ 8,300	\$ 2,300	\$ 4,203	\$ 16,476	\$ 33,414
Subset of row 3 that are excluded liabilities						-
Total capital and liabilities less excluded liabilities	2,135	8,300	2,300	4,203	16,476	33,414
Eligible as own funds and eligible liabilities	2,135	5,500	2,300	4,203	16,476	30,614
with 1 year ≤ residual maturity < 2 years						-
with 2 years ≤ residual maturity < 5 years					13,076	13,076
with 5 years ≤ residual maturity < 10 years			2,300	4,203	3,400	9,903
with residual maturity ≥ 10 years						-
perpetual securities	2,135	5,500				7,635

1. Ordinary shares excludes the value of share premium and reserves

Pillar 3 Disclosures

Risk-Weighted Assets

RWAs are calculated based on measures of credit risk, market risk and operational risk. The tables below represent a summary of the RWAs and capital requirements for GSGUK, GSI and GSIB by type as at December 31, 2020 and August 31, 2020.

Table 8: Overview of RWAs¹

GSGUK

\$ in millions

	RWAs		Minimum capital requirements
	December 2020	August 2020	
1 Credit risk (excluding CCR)	\$ 42,748	\$ 36,895	\$ 3,420
2 Of which the standardised approach	4,420	3,783	354
4 Of which the advanced IRB (AIRB) approach	36,495	30,966	2,920
5 Of which equity IRB under the simple risk-weighted approach or the IMA	1,833	2,146	146
6 CCR	\$ 102,329	\$ 102,169	\$ 8,186
7 Of which mark to market	6,815	7,714	545
9 Of which the standardised approach	28	-	2
10 Of which internal model method (IMM)	78,455	72,706	6,276
11 Of which risk exposure amount for contributions to the default fund of a CCP	885	744	71
12 Of which CVA VaR	16,146	21,005	1,292
13 Settlement risk	\$ 5,566	\$ 2,636	\$ 445
14 Securitisation exposures in the banking book (after the cap)	\$ 1,385	\$ 1,158	\$ 111
19 Market risk	\$ 105,548	\$ 108,826	\$ 8,444
20 Of which the standardised approach	49,638	43,316	3,971
21 Of which IMA	55,910	65,510	4,473
22 Large exposures	-	-	-
23 Operational risk	\$ 18,391	\$ 18,391	\$ 1,471
25 Of which standardised approach	18,391	18,391	1,471
29 Total	\$ 275,967	\$ 270,075	\$ 22,077

GSI

\$ in millions

	RWAs		Minimum capital requirements
	December 2020	August 2020	
1 Credit risk (excluding CCR)	\$ 25,489	\$ 19,653	\$ 2,039
2 Of which the standardised approach	1,848	1,096	148
4 Of which the advanced IRB (AIRB) approach	21,808	16,412	1,745
5 Of which equity IRB under the simple risk-weighted approach or the IMA	1,833	2,145	146
6 CCR	\$ 101,386	\$ 101,369	\$ 8,111
7 Of which mark to market	6,281	7,314	503
9 Of which the standardised approach	-	-	-
10 Of which internal model method (IMM)	78,240	72,416	6,259
11 Of which risk exposure amount for contributions to the default fund of a CCP	885	744	71
12 Of which CVA VaR	15,980	20,895	1,278
13 Settlement risk	\$ 5,566	\$ 2,636	\$ 445
14 Securitisation exposures in the banking book (after the cap)	-	-	-
19 Market risk	\$ 103,761	\$ 106,053	\$ 8,301
20 Of which the standardised approach	47,851	40,543	3,828
21 Of which IMA	55,910	65,510	4,473
22 Large exposures	-	-	-
23 Operational risk	\$ 16,153	\$ 16,153	\$ 1,292
25 Of which standardised approach	16,153	16,153	1,292
29 Total	\$ 252,355	\$ 245,864	\$ 20,188

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\$ in millions

		RWAs		Minimum capital requirements
		December 2020	August 2020	
1	Credit risk (excluding CCR)	\$ 15,345	\$ 15,490	\$ 1,227
2	Of which the standardised approach	68	113	5
4	Of which the advanced IRB (AIRB) approach	15,277	15,377	1,222
5	Of which equity IRB under the simple risk-weighted approach or the IMA	0	0	0
6	CCR	\$ 784	\$ 682	\$ 63
7	Of which mark to market	534	359	43
9	Of which the standardised approach	-	-	-
10	Of which internal model method (IMM)	215	290	17
11	Of which risk exposure amount for contributions to the default fund of a CCP	0	0	0
12	Of which CVA VaR	35	33	3
13	Settlement risk	-	-	-
14	Securitisation exposures in the banking book (after the cap)	\$ 1,385	\$ 1,158	\$ 111
19	Market risk	\$ 1,179	\$ 2,192	\$ 94
20	Of which the standardised approach	1,179	2,192	94
21	Of which IMA	-	-	-
22	Large exposures	-	-	-
23	Operational risk	\$ 570	\$ 570	\$ 46
25	Of which standardised approach	570	570	46
29	Total	\$ 19,263	\$ 20,092	\$ 1,541

GSGUK total RWA increased from \$270bn in August 2020 to \$276bn in December 2020 primarily due to the following movements:

- GSGUK Credit RWAs as of December 2020 increased by \$9 billion compared with August 2020, primarily reflecting in GSI mainly driven by an increase in credit risk exposures due to increased lending and bank deposits over the period.
- GSGUK Market RWAs as of December 2020 decreased by \$3 billion compared with August 2020, primarily reflecting a decrease in modelled market risk, offset by an increase in standardised market risk as a result of changes in risk exposures.

¹ A new securitisation framework came into effect in 2019 for new securitisations issued after 1 January 2019. All securitisations are subject to the new framework as of 1 January 2020.

Credit Risk

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 the revenue-producing units and reports to the firm's chief risk officer, has primary responsibility for assessing, monitoring and managing credit risk through firmwide oversight across the firm's global businesses. The Risk Governance Committee reviews and approves credit policies and parameters. 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

The firm's process for managing credit risk includes the critical components of the risk management framework described in the "Risk Management – Overview and Structure of Risk Management" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K, 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.

Credit Risk also performs credit reviews, which include initial and ongoing analyses of the firm's counterparties. For substantially all credit exposures, the core of the process is an annual counterparty credit review. A credit review is an independent analysis of the capacity and willingness of a counterparty to meet its financial obligations, resulting in an internal credit rating. The determination of internal credit ratings also incorporates assumptions with respect to the nature of and outlook for the counterparty's industry, and the economic environment. Senior personnel, with expertise in specific industries, inspect and approve credit reviews and internal credit ratings.

The firm's risk assessment process may also include, where applicable, reviewing certain key metrics, including, but not limited to, delinquency status, collateral values, credit scores and other risk factors.

The firm's 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 the firm's aggregate credit risk by product, internal credit rating, industry, country and region.

Risk Measures

The firm measures 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 after taking into account applicable netting and collateral arrangements, while potential exposure represents the firm's 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.

Limits

Credit limits are used at various levels, as well as underwriting standards, to manage the size and nature of the company's credit exposures. For GS Group, the Risk Committee of the Board and the Risk Governance Committee approve credit risk limits at GS Group, business and product levels, consistent with the risk appetite statement. The GSI and GSIB Risk Committees approve the framework that governs the setting of credit risk limits at the entity level, and delegate responsibility for the ongoing execution and monitoring to the GSI and GSIB chief credit officers

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respectively. Credit Risk (through delegated authority from the Risk Governance Committee) sets credit limits for individual counterparties, economic groups, industries and countries. Limits for counterparties and economic groups are reviewed regularly and revised to reflect changing risk appetites for a given counterparty or group of counterparties. 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. For information on the limit approval process, see “Risk Management – Overview and Structure of Risk Management” in Part II, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s 2020 Form 10-K.

Policies authorised by GS Group’s Enterprise Risk Committee and the Risk Governance Committee prescribe the level of formal approval required for GS Group to assume credit exposure to a counterparty across all product areas, taking into account any applicable netting provisions, collateral or other credit risk mitigants.

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.

Credit Exposures

For information on the firm’s credit exposures, including the gross fair value, netting benefits and current exposure of the firm’s derivative exposures and the firm’s securities financing transactions, see “Note 7. Derivatives and Hedging Activities” and “Note 11. Collateralized Agreements and Financings” in Part II, Item 8 “Financial Statements and Supplementary Data” and “Risk Management – Credit Risk Management” in Part II, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s 2020 Form 10-K.

Credit Risk and Counterparty Credit Risk RWAs

Credit RWAs are calculated based on measures of credit exposure, which are then risk weighted. Below is a description of the methodology used to calculate RWAs for Wholesale exposures, which generally include credit exposures to corporates, institutions, sovereigns or government entities (other than securitisation, retail or equity exposures). GSGUK has regulatory permission from the PRA to compute risk weights for certain exposures in accordance with the Advanced Internal Ratings Based (AIRB) approach which utilises internal assessments of each counterparty’s creditworthiness. The internal credit rating is assigned to each

exposure class based on a credit-worthiness review methodology determined by the Credit Risk department.

As such, the Credit Risk exposure that does not qualify for the AIRB approach but is instead calculated under the standardised approach, for which nominated external credit assessment institutions (ECAI) ratings are potentially eligible to be used, is immaterial. Exposure classes under the standardised approach include corporates, retail and private equity for which external ratings are generally unavailable, unrated or private corporates. These exposures represent less than 5% of the total Credit Risk exposures.

Exposure at Default (EAD). The exposure amount that is risk weighted for regulatory capital calculations. For on-balance-sheet assets, such as receivables and cash, EAD is generally based on the carrying value. For the calculation of EAD for off-balance-sheet exposures, including commitments and guarantees, an equivalent exposure amount is calculated based on the notional amount of each transaction multiplied by a credit conversion factor in accordance with Article 166 of CRR.

For the measurement of substantially all counterparty credit exposure on OTC, cleared and listed derivative and securities financing transactions, GSGUK has regulatory permission from the PRA to use the Internal Model Method (IMM). GSGUK uses IMM for substantially all of the counterparty credit risk arising from OTC derivatives, exchange-traded derivatives and securities financing transactions. The models estimate Expected Exposures (EE) at various points in the future using risk factor simulations. The model parameters are derived from historical and implied market data using the most recent three-year period as well as a stressed three-year period. The models also estimate the Effective Expected Positive Exposure (EEPE) over the first year of the portfolio, which is the time-weighted average of non-declining positive credit exposure over the EE simulation. EAD is calculated by multiplying the EEPE by a standard regulatory factor of 1.4.

The EAD detailed in the following tables represents the exposures used in computing capital requirements and is not a directly comparable metric to balance sheet amounts presented in the consolidated financial information of GSGUK for the year ended December 31, 2020 due to differences in measurement methodology, counterparty netting and collateral offsets used.

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As GSGUK calculates the majority of its counterparty credit exposure under the IMM, the impacts of netting and collateral are integral to the calculation of the exposure. The exposures disclosed below are presented on a net and collateralised basis where there is a legally enforceable netting and collateral opinion. They do not include the effect of any credit protection purchased on counterparties.

Advanced IRB Approach. RWAs are calculated by multiplying EAD by the counterparty's risk weight. In accordance with the AIRB approach, risk weights are a function of the counterparty's Probability of Default (PD), Loss Given Default (LGD) and the maturity of the trade or portfolio of trades. We also use internal ratings for risk management purposes.

- PD is an estimate of the probability that an obligor will default over a one-year horizon. For the majority of Wholesale exposures, the PD is assigned using an approach where quantitative factors are combined with a qualitative assessment to determine internal credit rating grades. For each internal credit rating grade, over 5 years of historical empirical data is used to calculate a long run average annual PD which is assigned to each counterparty with that credit rating grade.

Internal credit rating grades each have external public rating agency equivalents. The scale that is employed for internal credit ratings corresponds to those used by the major rating agencies and the internal credit ratings, while arrived at independently of public ratings, are assigned using definitions of each internal credit rating grade that are consistent with the definitions used by the major rating agencies for their equivalent credit rating grades. As a result, default data published by the major rating agencies for obligors with public ratings can be mapped to counterparties with equivalent internal credit ratings for use in quantification and validation of risk parameters.

- LGD is an estimate of the economic loss rate if a default occurs during economic downturn conditions. For Wholesale exposures, LGDs are determined using data from recognised vendor models, from a downturn period, and are mapped to obligors based on attributes identified as being statistically significant to the ultimate recovery. LGD estimates for low default portfolios are calibrated using the same data, i.e. from corporate portfolios, which is deemed to be a conservative approach.
- The definition of maturity depends on the nature of the exposure. For OTC derivatives, maturity is an average time measure weighted by credit exposure (based on EE and EEPE) as required by the applicable capital regulation. For securities financing transactions, maturity represents the notional weighted average number of days to maturity. Maturity is floored at one year and capped at five years except where the rules allow a maturity of less than one year to be used as long as certain criteria are met.

Governance and Validation of Risk Parameters

Approaches and methodologies for quantifying PD, LGD, and EAD are monitored and managed by Credit Risk. Models are independently reviewed, validated and approved by Model Risk. For further information, see "Model Risk".

To assess the performance of the PD parameters used, on an annual basis the firm performs a benchmarking exercise which includes comparisons of realised annual default rates to the expected annual default rates for each credit rating band and comparisons of the internal realised long-term average default rates to the empirical long-term average default rates assigned to each credit rating band. For 2020, as well as in previous annual periods, the PDs used for regulatory capital calculations were, on average, higher (i.e., more conservative) than the firm's actual internal realised default rate.

During 2020, our credit exposure to counterparties that defaulted remained low, representing less than 1% of all counterparties, and such exposure was substantially all related to loans and lending commitments. Estimated losses associated with counterparty defaults were not material.

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To assess the performance of LGD parameters used, on an annual basis the firm compares recovery rates following counterparty defaults to the recovery rates based on LGD parameters assigned to the corresponding exposures prior to default. While the actual realised recovery on each defaulted exposure varies due to transaction and other situation-specific factors, on average, recovery rates remain higher than those implied by the LGD parameters used in regulatory capital calculations.

The performance of each IMM model used to quantify EAD is assessed quarterly via backtesting procedures, performed by comparing the predicted and realised exposure of a set of representative trades and portfolios at certain horizons. The firm's models are monitored and enhanced in response to backtesting.

The following three tables present the methods used to calculate Counterparty Credit Risk RWAs and main parameters used within each method for GSGUK, GSI and GSIB as of December 31, 2020.

Table 9: Analysis of CCR Exposure by Approach

GSGUK

\$ in millions As of December 2020

	Notional	Replacement cost/current market value	Potential future credit exposure	EEPE	Multiplier	EAD post CRM	RWAs
1 Mark to market		\$ 3,290	\$ 6,492			\$ 9,817	\$ 6,830
3 Standardised approach		-			-	-	-
4 IMM (for derivatives and SFTs)				99,866	1	139,812	78,127
5 <i>Of which securities financing transactions</i>				39,368	1	55,115	18,102
6 <i>Of which derivatives and long settlement transactions</i>				60,498	1	84,697	60,025
11 Total							\$ 84,957

GSI

\$ in millions As of December 2020

	Notional	Replacement cost/current market value	Potential future credit exposure	EEPE	Multiplier	EAD post CRM	RWAs
1 Mark to market		\$ 3,142	\$ 6,140			\$ 9,282	\$ 6,269
3 Standardised approach		-			-	-	-
4 IMM (for derivatives and SFTs)				98,900	1	138,460	77,911
5 <i>Of which securities financing transactions</i>				38,747	1	54,245	17,979
6 <i>Of which derivatives and long settlement transactions</i>				60,153	1	84,214	59,932
11 Total							\$ 84,180

GSIB

\$ in millions As of December 2020

	Notional	Replacement cost/current market value	Potential future credit exposure	EEPE	Multiplier	EAD post CRM	RWAs
1 Mark to market		\$ 148	\$ 352			\$ 500	\$ 534
3 Standardised approach		-			-	-	-
4 IMM (for derivatives and SFTs)				1,709	1.40	2,393	215
5 <i>Of which securities financing transactions</i>				1,364	1.40	1,910	123
6 <i>Of which derivatives and long settlement transactions</i>				345	1.40	483	92
11 Total							\$ 749

Pillar 3 Disclosures

The following table presents GSGUK, GSI and GSIB's EAD after credit risk mitigation and RWAs on exposures to CCPs as of December 31, 2020.

Table 10: Exposures to CCPs

		EAD post CRM			RWAs		
		GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
\$ in millions		As of December 2020					
1	Exposures to QCCPs (total)				\$ 1,225	\$ 1,225	\$ 0
2	Exposures for trades at QCCPs (excluding initial margin and default fund contributions); of which	5,607	5,607	-	112	112	-
3	(i) OTC derivatives	639	639	-	13	13	-
4	(ii) Exchange-traded derivatives	4,893	4,893	-	98	98	-
5	(iii) SFTs	75	75	-	1	1	-
6	(iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-
7	Segregated initial margin	-	-	-			
8	Non-segregated initial margin	11,413	11,413	0	228	228	-
9	Prefunded default fund contributions	885	885	0	885	885	0
10	Alternative calculation of own funds requirements for exposures				-	-	-
11	Exposures to non-QCCPs (total)				-	-	-
12	Exposures for trades at non-QCCPs (excluding initial margin and default fund contributions); of which	-	-	-	-	-	-
13	(i) OTC derivatives	-	-	-	-	-	-
14	(ii) Exchange-traded derivatives	-	-	-	-	-	-
15	(iii) SFTs	-	-	-	-	-	-
16	(iv) Netting sets where cross-product netting has been approved	-	-	-	-	-	-
17	Segregated initial margin	-	-	-			
18	Non-segregated initial margin	-	-	-	-	-	-
19	Prefunded default fund contributions	-	-	-	-	-	-
20	Unfunded default fund contributions	-	-	-	-	-	-

The following table presents GSGUK, GSI and GSIB's exposures subject to CVA capital charges and corresponding RWAs as of December 31, 2020.

Table 11: CVA VaR Capital Charge

		Exposure value			RWAs		
		GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
\$ in millions		As of December 2020					
1	Total portfolios subject to the advanced method	\$ 49,519	\$ 49,519	-	\$ 9,972	\$ 9,972	-
2	(i) VaR component (including the 3x multiplier)				3,830	3,830	-
3	(ii) SVaR component (including the 3x multiplier)				6,142	6,142	-
4	All portfolios subject to the standardised method	5,580	5,400	94	6,174	6,008	35
5	Total subject to the CVA capital charge	\$ 55,099	\$ 54,919	\$ 94	\$ 16,146	\$ 15,980	\$ 35

Pillar 3 Disclosures

The following table presents a quarterly flow statement of the RWAs and Capital requirements under the IMM for GSGUK, GSI and GSIB as of December 31, 2020.

Table 12: RWA Flow Statements of CCR Exposures under the IMM

		\$ in millions					
		RWA amounts			Capital requirements		
		GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
1	RWAs as at the end of the previous reporting period	\$ 72,706	\$ 72,416	\$ 290	\$ 5,817	\$ 5,793	\$ 23
2	Asset size	4,152	4,224	(72)	332	338	(6)
3	Credit quality of counterparties	(333)	(329)	(4)	(26)	(26)	(0)
4	Model updates (IMM only)	(7)	(7)	-	(1)	(1)	-
7	Foreign exchange movements	2,296	2,291	5	183	183	0
8	Other	(359)	(355)	(4)	(29)	(28)	(0)
9	RWAs as at the end of the current reporting period	\$ 78,455	\$ 78,240	\$ 215	\$ 6,276	\$ 6,259	\$ 17

The following table presents GSGUK, GSI and GSIB total and average amount of net balance sheet Credit Risk exposures over the twelve-month period by exposure class as of December 31, 2020.

Table 13: Total and Average Net Amount of Exposures

		\$ in millions					
		GSGUK		GSI		GSIB	
		Net value of exposures at the end of the period	Average net exposures over the period	Net value of exposures at the end of the period	Average net exposures over the period	Net value of exposures at the end of the period	Average net exposures over the period
1	Central governments or central banks	49,710	\$ 28,170	\$ 37,626	\$ 22,127	\$ 12,084	\$ 9,829
2	Institutions	18,219	15,772	15,313	10,130	5,521	5,642
3	Corporates	17,971	17,839	7,145	5,505	11,620	12,334
14	Equity	610	375	610	375	0	0
14a	Non-credit obligation assets	-	18	-	18	-	1
15	Total IRB approach	\$ 86,510	\$ 62,174	\$ 60,694	\$ 38,155	\$ 29,225	\$ 27,806
16	Central governments or central banks	-	-	-	-	-	-
21	Institutions	381	453	-	-	-	-
22	Corporates	777	1,553	623	536	12	23
24	Retail	23	154	-	-	11	80
26	Secured by mortgages on immovable property	135	282	-	-	56	107
28	Exposures in default	10	7	-	113	10	23
29	Items associated with particularly high risk	1,114	1,880	-	-	-	-
33	Equity exposures	152	252	-	-	-	-
34	Other exposures	1,072	773	679	316	17	9
35	Total standardised approach	\$ 3,664	\$ 5,354	\$ 1,302	\$ 965	\$ 106	\$ 242
36	Total	\$ 90,174	\$ 67,528	\$ 61,996	\$ 39,120	\$ 29,331	\$ 28,048

The following table presents a quarterly flow statement of the RWAs and Capital requirements under the IRB approach for GSGUK, GSI and GSIB as of December 31, 2020.

Table 14: RWA Flow Statements of Credit Risk Exposures under the IRB Approach

		\$ in millions					
		RWA amounts			Capital requirements		
		GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
1	RWAs as at the end of the previous reporting period	\$ 30,966	\$ 16,412	\$ 15,377	\$ 2,477	\$ 1,313	\$ 1,230
2	Asset size	5,071	5,158	(320)	\$ 406	413	(26)
3	Asset quality	122	46	76	\$ 10	4	6
7	Foreign exchange movements	521	290	231	\$ 42	23	19
8	Other	(185)	(98)	(87)	\$ (15)	(8)	(7)
9	RWAs as at the end of the current reporting period	\$ 36,495	\$ 21,808	\$ 15,277	\$ 2,920	\$ 1,745	\$ 1,222

Pillar 3 Disclosures**Credit Risk Mitigation**

To reduce credit exposures on derivatives and securities financing transactions, we may enter into master netting agreements or similar arrangements (collectively, netting agreements) with counterparties that permit the firm 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 non-defaulting party. Upon exercise of such termination rights, all transactions governed by the netting agreement are terminated and a net settlement amount is calculated.

We may also reduce credit risk with counterparties by entering into agreements that enable us to receive and post cash and securities collateral with respect to our 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 provisions the right to liquidate collateral and apply the proceeds to any amounts owed. In order to assess enforceability of our right to setoff under netting and credit support agreements, we evaluate various factors, including applicable bankruptcy laws, local statutes and regulatory provisions in the jurisdiction of the parties to the agreement. The collateral we hold consists primarily of cash and securities of high quality government bonds (mainly US and EU), subject to haircuts as deemed appropriate by the Credit Risk function. The function performs ongoing collateral monitoring, to ensure the firm maintains an appropriate level of diversification of collateral, and distribution of collateral quality.

Our collateral is managed by certain functions within the firm which review exposure calculations, make margin calls with relevant counterparties, and ensure subsequent settlement of collateral movements. We monitor the fair value of the collateral on a daily basis to ensure our credit exposures are appropriately collateralised.

As of December 2020, the aggregate amounts of additional collateral or termination payments related to our net derivative liabilities under bilateral agreements that could have been called by our counterparties in the event of a one- and two-notch downgrade of our credit ratings are \$275 million and \$907 million respectively for GSI, and immaterial for GSIB.

For additional information about the firm's derivatives (including collateral and the impact of the amount of collateral required in the event of a ratings downgrade), see "Note 7. Derivatives and Hedging Activities" in Part II, Item 8 "Financial Statements and Supplementary Data" in the firm's 2020 Form 10-K. See "Note 11. Collateralized Agreements and Financings" in Part II, Item 8 "Financial Statements and Supplementary Data" in the firm's 2020 Form 10-K for further information about collateralised agreements and financings.

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. The main providers of guarantees are sovereigns, certain supranational and multilateral development banks, banks and other financial institutions. We may also mitigate our credit risk using credit derivatives or participation agreements.

Pillar 3 Disclosures

The following three tables presents GSGUK, GSI and GSIB net carrying values of credit risk exposures secured by different CRM techniques as of December 31, 2020.

Table 15: CRM Techniques**GSGUK**

<i>\$ in millions</i>		As of December 2020				
	Exposures unsecured – Carrying amount	Exposures secured – Carrying amount	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives	
1	Total loans	\$ 8,592	\$ 6,293	\$ 6,200	-	\$ 93
2	Total debt securities	\$ 2,765	-	-	-	-
3	Total exposures	\$ 11,357	\$ 6,293	\$ 6,200	-	\$ 93
4	Of which defaulted	\$ 98	\$ 10	-	-	-

GSI

<i>\$ in millions</i>		As of December 2020				
	Exposures unsecured – Carrying amount	Exposures secured – Carrying amount	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives	
1	Total loans	\$ 1,999	\$ 952	\$ 952	-	-
2	Total debt securities	\$ 649	-	-	-	-
3	Total exposures	\$ 2,648	\$ 952	\$ 952	-	-
4	Of which defaulted	95	-	-	-	-

GSIB

<i>\$ in millions</i>		As of December 2020				
	Exposures unsecured – Carrying amount	Exposures secured – Carrying amount	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives	
1	Total loans	\$ 6,593	9,637	\$ 8,462	-	\$ 1,175
2	Total debt securities	2,116	-	-	-	-
3	Total exposures	\$ 8,709	\$ 9,637	\$ 8,462	-	\$ 1,175
4	Of which defaulted	3	10	-	-	-

The following table presents the impact of credit derivatives on the RWAs under the IRB approach for GSGUK, GSI and GSIB based on exposure class.

Table 16: IRB Approach - Effect on the RWAs of Credit Derivatives Used as CRM Techniques

<i>\$ in millions</i>		Pre-Credit Derivatives RWAs			Actual RWAs		
		GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
1	Exposures under AIRB						
2	Central governments and central banks	\$ 4,870	\$ 3,339	\$ 1,531	\$ 4,870	\$ 3,339	\$ 1,531
3	Institutions	\$ 6,106	\$ 5,209	\$ 897	\$ 6,106	\$ 5,209	\$ 897
6	Corporates – Other	\$ 25,555	\$ 13,260	\$ 14,185	\$ 25,519	\$ 13,260	\$ 12,849
12	Equity IRB	\$ 1,833	\$ 1,833	\$ 0	\$ 1,833	\$ 1,833	\$ 0
14	Total	\$ 38,364	\$ 23,641	\$ 16,613	\$ 38,328	\$ 23,641	\$ 15,277

Pillar 3 Disclosures**Credit Derivatives**

We enter into credit derivative transactions primarily to facilitate client activity and to manage the credit risk associated with market-making.

We also use credit derivatives to hedge counterparty exposure associated with investing and financing activities and to a lesser extent derivative exposure. Some of these hedges qualify as credit risk mitigants for regulatory capital purposes using the PD and LGD substitution approach (and subject to the regulatory haircuts for maturity and currency mismatch where applicable). Where the aggregate notional of credit derivatives hedging exposure to a loan obligor is less

than the notional loan exposure, the substitution approach is only employed for the percentage of loan exposure covered by eligible credit derivatives.

For further information regarding the firm's credit derivative transactions, see "Note 7. Derivatives and Hedging Activities" in Part II, Item 8 "Financial Statements and Supplementary Data" in the firm's 2020 Form 10-K.

For information regarding credit risk concentrations, see "Note 26. Credit Concentrations" in Part II, Item 8 "Financial Statements and Supplementary Data" in the firm's 2020 Form 10-K.

The following table presents GSGUK, GSI and GSIB exposure to credit derivatives based on notional and fair values as of December 31, 2020.

Table 17: Credit Derivatives Exposures

	As of December 2020								
	Credit derivative hedges								
	Protection bought			Protection sold			Other credit derivatives		
	GSGUK	GSI	GSIB	GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
Notionals									
Index Credit Default Swaps	\$ 361,220	\$ 359,492	\$ 1,728	\$ 359,942	\$ 358,581	\$ 1,361	-	-	-
Total Return swaps	5,917	5,917	-	1,598	1,598	-	-	-	-
Other Credit Default Swaps	273,180	272,341	839	266,381	266,178	203	-	-	-
Other Credit Derivatives	-	-	-	-	-	-	177,933	177,754	178
Total notionals	\$ 640,317	\$ 637,750	\$ 2,567	\$ 627,921	\$ 626,357	\$ 1,564	\$ 177,933	\$ 177,754	\$ 178
Fair values									
Positive fair value (asset)	\$ 6,922	\$ 6,914	\$ 8	\$ 15,799	\$ 15,763	\$ 36	\$ 5,239	\$ 5,238	\$ 0
Negative fair value (liability)	\$ 16,324	\$ 16,191	\$ 132	\$ 5,695	\$ 5,613	\$ 83	\$ 2,747	\$ 2,747	\$ 0

Pillar 3 Disclosures**Wrong-way Risk**

We seek to minimise risk where there is a significant positive correlation between the probability of default of a counterparty and our exposure to that counterparty (net of the market value of any collateral we receive), which is known as “wrong-way risk”. Wrong-way risk is commonly categorised into two types: specific wrong-way risk and general wrong-way risk. We categorise exposure as specific wrong-way risk when our counterparty and the issuer of the reference asset of the transaction are the same entity or are affiliates, or if the collateral supporting a transaction is issued by the counterparty or its affiliates. General wrong-way risk arises when there is a significant positive correlation between the probability of default of a counterparty and general market risk factors affecting the exposure to that counterparty. We have procedures in place to actively identify, monitor and control specific and general wrong-way risk, beginning at the inception of a transaction and continuing through its life, including assessing the level of risk through stress tests. We ensure that material wrong-way risk is mitigated using collateral agreements or increases to initial margin, where appropriate.

Credit Valuation Adjustment Risk-Weighted Assets

RWAs for CVA address the risk of losses related to changes in counterparty credit risk arising from OTC derivatives. We calculate RWAs for CVA primarily using the Advanced CVA approach set out in CRR, which permits the use of regulator approved VaR models. Consistent with our Regulatory VaR calculation (see “Market Risk” for further details), the CVA RWAs are calculated at a 99% confidence level over a 10-day time horizon.

The CVA RWAs also include a stressed CVA component, which is also calculated at a 99% confidence level over a 10-day horizon using both a stressed VaR period and stressed EEs. The CVA VaR model estimates the impact on our credit valuation adjustments of changes to our counterparties’ credit spreads. It reflects eligible CVA hedges (as defined in CRR), but it excludes those hedges that, although used for risk-management purposes, are ineligible for inclusion in the regulatory CVA VaR model. Examples of such hedges are interest rate hedges, or those that do not reference the specific exposures they are intended to mitigate, but are nevertheless highly correlated to the underlying credit risk.

Other Credit Risk-Weighted Assets

Credit RWAs also include the following components:

Cleared Transactions

RWAs for cleared transactions and default fund contributions (defined as payments made by clearing members to central clearing agencies pursuant to mutualised loss arrangements) are calculated based on specific rules within CRR. A majority of our exposures on centrally cleared transactions are to counterparties that are considered to be Qualifying Central Counterparties (QCCPs) in accordance with the European Market Infrastructure Regulation (EMIR). Such exposures arise from OTC derivatives, exchange-traded derivatives, and securities financing transactions and are required to be risk weighted at either 2% or 4% based on the specified criteria.

Retail Exposures

As of December 31, 2020, we have immaterial retail exposures (defined as residential mortgage exposures, qualifying revolving exposures, or other retail exposures that are managed as part of a segment of exposures with homogeneous risk characteristics, not on an individual exposure basis) subject to standardised risk weights.

Other Assets

Other assets primarily include property, leasehold improvements and equipment, deferred tax assets, and assets for which there is no defined capital methodology or that are not material. RWAs for other assets are generally based on the carrying value and are typically risk weighted at 100%.

Equity Exposures in the Banking Book

The firm makes direct investments in public and private equity securities; it also makes investments, through funds that it manages (some of which are consolidated), in debt securities and loans, public and private equity securities and real estate entities. These investments are typically longer-term in nature and are primarily held for capital appreciation purposes; they are therefore classified for regulatory capital purposes as banking book equity exposures. The firm also makes commitments to invest, primarily in private equity, real estate and other assets. Such commitments are made both directly and indirectly through funds that the firm manages. Equity exposures held in GSGUK’s banking book are included in the Credit RWAs within row 5 of Table 8 and were not material as of December 31, 2020.

Pillar 3 Disclosures**Past due exposures, impaired exposures and impairment provisions**

Payments aged more than a threshold of 90 days on any material credit obligation to the company, 180 days on residential mortgage obligations or 120 days on other retail obligations are considered past due.

An exposure is considered impaired when it is probable that the borrower will be unable to pay all amounts due according to the contractual terms of the loan agreement. The firm's definition of unlikeliness to pay includes the distressed restructuring of an obligation, including bank loan obligations, that results in deferred or reduced payment to GS, whether or not counterparty is in bankruptcy, insolvency or local jurisdictional equivalent.

There are no instances for GSGUK, GSI or GSIB where past-due exposures are not considered to be impaired.

The allowance for impairment is determined using various risk factors, including industry default and loss data, current

macroeconomic indicators, borrower's capacity to meet its financial obligations, borrower's country of risk, loan seniority and collateral type. In addition, for loans backed by real estate, risk factors include loan to value ratio, debt service ratio and home price index. The firm also records an allowance for losses on lending commitments that are held for investment and accounted for on an accrual basis. Such allowance is determined using the same methodology as the allowance for impairment, while also taking into consideration the probability of drawdowns or funding, and is included in other liabilities and accrued expenses. Additionally, loans are charged off against the impairment provision when deemed to be uncollectible.

For information on GSGUK's methodology for calculating expected credit losses measured in accordance with the provisions of IFRS 9, see "Impairment" in "Notes to the Consolidated Financial Information" in GSGUK's 2020 Consolidated Financial Information.

Securitisations

Overview

CRR defines certain activities as securitisation transactions which attract capital requirements under the “Securitisation Framework.” A securitisation is defined as a transaction or scheme, whereby the credit risk associated with an exposure or pool of exposures is tranching, having both of the following characteristics:

- Payments in the transaction or scheme are dependent upon the performance of the exposure or pool of exposures; and
- The subordination of tranches determines the distribution of losses during the ongoing life of the transaction or scheme.

The rules also distinguish between traditional and synthetic securitisations, the primary difference being that a traditional securitisation involves the transfer of assets from a bank’s balance sheet into a securitisation vehicle, whereas a synthetic securitisation involves the transfer of credit risk through credit derivatives or guarantees.

Within the GSGUK group, we securitise commercial mortgages, loans and other types of financial assets by selling these assets to securitisation vehicles (e.g., trusts and special purpose vehicles). GSGUK acts as underwriter of the beneficial interests that are sold to investors.

Beneficial interests issued by securitisation entities are debt or equity securities that give the investors rights to receive all or portions of specified cash inflows to a securitisation vehicle and include senior and subordinated interests in principal, interest and/or other cash inflows. The proceeds from the sale of beneficial interests are used to pay the transferor for the financial assets sold to the securitisation vehicle or to purchase securities which serve as collateral.

A portion of our positions that meet the regulatory definition of a securitisation are classified in our trading book, and capital requirements for these positions are calculated under the market risk capital rules. However, we also have certain banking book positions that meet the regulatory definition of a securitisation.

We account for a securitisation as a sale when we have relinquished control over the transferred financial assets. Prior to securitisation, we account for assets pending transfer at fair value and therefore do not typically recognise significant gains or losses upon the transfer of assets. GSGUK did not, as of December 31, 2020 have material assets held with the intent

to securitise.

Liquidity risk associated with securitisations is consistently managed as part of the firm’s overall liquidity risk management framework.

Banking Book Activity

Securitisation exposures in the banking book within the GSGUK group that meet the regulatory definition of a securitisation fall into the following categories:

- **Warehouse Financing and Lending.** We provide financing to clients who warehouse financial assets. These arrangements are secured by the warehoused assets, primarily consisting of corporate loans and asset-backed and other loans.
- **Other.** We have certain other banking book securitisation activities such as holding securities issued by securitisation vehicles.

By engaging in the banking book securitisation activities noted above, we are primarily exposed to credit risk and to the performance of the underlying assets.

Trading Book Activity

Our securitisation exposures classified as trading book comprise mortgage-backed securities (MBS) and other asset-backed securities (ABS), derivatives referencing MBS or ABS, or derivatives referencing indices of MBS or ABS, which are held in inventory. The population also includes credit correlation positions, which are discussed in the “Comprehensive Risk” section of the “Market Risk Management” chapter.

The primary risks included in beneficial interests and other interests from our involvement with securitisation vehicles are the performance of the underlying collateral, the position of our investment in the capital structure of the securitisation vehicle and the market yield for the security. These interests are accounted for at fair value and are incorporated into the overall risk management approach for financial instruments. For a detailed discussion of the firm’s risk management process and practices, see “Risk Management – Market Risk Management” and “Risk Management – Credit Risk Management” in Part II, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s 2020 Form 10-K.

Pillar 3 Disclosures

Calculation of Risk-Weighted Assets

A new securitisation framework came into effect in 2019. Starting in 2020, all securitisations, including securitisations issued prior to 2019, are capitalised under the new securitisation framework.

The hierarchy consists of three primary methods, the SEC-IRBA (Internal Ratings Based Approach), SEC-SA (Standardised Approach), and SEC-ERBA (External Ratings Based Approach). The External Credit Assessment Institutions (ECAIs) used for the SEC-ERBA are Standard & Poor's Ratings Services (S&P), Moody's Investors Service

(Moody's) and Fitch, Inc. (Fitch) for all types of exposures. For trading and banking book positions we follow the hierarchy of RWA approaches. In the trading book only the correlation trading portfolio has approval to use SEC-IRBA.

The RWAs for securitisation positions are calculated by multiplying the exposure amount by the specific risk-weighting factors assigned. The exposure amount is defined as the carrying value for securities, or the market value of the effective notional of the instrument or indices underlying derivative positions. The securitisation capital requirements are capped at the maximum loss that could be incurred on any given transaction.

The following tables show our securitisation exposures by type of exposure and risk weight band as of December 31, 2020.

Table 18: Securitisation Exposures by Type

	Trading Book			Banking Book		
	On-balance-sheet Exposures	Off-balance-sheet Exposures	Total Exposure Amount	On-balance-sheet Exposures	Off-balance-sheet Exposures	Total Exposure Amount
	Traditional	Traditional		Traditional	Traditional	
	<i>\$ in millions</i>					
Residential mortgages	\$ 390	-	\$ 390	\$ 729	\$ 11	\$ 740
Commercial mortgages	135	-	135	68	54	122
Corporates	-	-	-	117	6	123
Asset-backed and other	629	59	688	472	-	472
GSGUK Total	\$ 1,154	\$ 59	\$ 1,213	\$ 1,386	\$ 71	\$ 1,457

Table 19: Securitisation Exposures and Related RWAs by Risk Weight Bands

	Trading Book			Banking Book	
	Long Exposure Amount	Short Exposure Amount	Total RWAs	Exposure Amount	Total RWAs
	<i>\$ in millions</i>				
0% - 25%	\$ 230	\$ 320	\$ 153	1,105	\$ 169
26% - 100%	168	63	\$ 210	43	\$ 36
101% - 250%	184	27	\$ 650	192	\$ 275
251% - 650%	46	0	\$ 303	63	\$ 265
651% - 1,250%	175	-	\$ 1,863	54	\$ 640
GSGUK Total	\$ 803	\$ 410	\$ 3,179	\$ 1,457	\$ 1,385

Market Risk

Overview

Market risk is the risk of loss in the value of inventory, investments, loans and other financial assets and liabilities accounted for at fair value, due to changes in market conditions. 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 the revenue-producing units and reports to the firm's chief risk officer, has primary responsibility for assessing, monitoring and managing market risk through firmwide oversight across global businesses.

Managers in revenue-producing units and Market Risk discuss market information, positions and estimated loss scenarios on an ongoing basis. Managers in revenue-producing units 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

The firm's process for managing market risk includes the critical components of the risk management framework described in the "Risk Management – Overview and Structure of Risk Management" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K, 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.

Market Risk produces risk measures and monitors 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. For additional information regarding the firm's market risk measures and risk limits, see "Risk Management – Market Risk Management" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K.

Market Risk-Weighted Assets

Trading book positions are subject to market risk capital requirements which are designed to cover the risk of loss in value of these positions due to changes in market conditions. These capital requirements are determined either by applying prescribed risk weighting factors in accordance with the standardised approach, or they are based on internal models which are subject to various qualitative and quantitative parameters. The CRR market risk capital rules require that a firm obtains prior written permission from its regulators before using any internal model to calculate its risk-based capital requirement. Within GSGUK, GSI has permission to calculate capital requirements using internal models at the solo and consolidated levels, while other entities including GSIB calculate capital requirements using the standardised approach.

For positions captured by GSI's model permission, the capital requirements for market risk are calculated using the following internal models: Value-at-Risk (VaR), Stressed VaR (SVaR), Incremental Risk Charge (IRC), and Comprehensive Risk Measure (CRM), which for PRA purposes is called the All Price Risk Measure (APRM) and is subject to a floor. In addition, Standardised Rules, in accordance with Title IV of Part Three of CRR, are used to calculate capital requirements for market risk for certain securitised and non-securitised positions by applying risk-weighting factors predetermined by regulators, to positions after applicable netting is performed. RWAs for market risk are the sum of each of these measures multiplied by 12.5. An overview of each of these measures is provided below.

Pillar 3 Disclosures**Regulatory VaR**

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 (positions subject to VaR limits) 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. As such, VaR facilitates comparison across portfolios of different risk characteristics. VaR also captures the diversification of aggregated risk at the firmwide level.

VaR used for regulatory capital requirements (Regulatory VaR) differs from risk management VaR due to different time horizons and confidence levels (10-day and 99% for Regulatory VaR vs. one-day and 95% for risk management VaR), as well as differences in the scope of positions on which VaR is calculated. The 10-day VaR is based on scaling the 1-day VaR by the square root of 10.

VaR is calculated daily using historical simulations with full valuation of market factors, capturing both general and specific market risk. VaR is calculated at a positional level based on simultaneously shocking the relevant market factors for that position, using a mix of absolute and relative returns. 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 data reduces over time. This gives greater importance to more recent observations and reflects current asset volatilities.

In accordance with the CRR market risk regulatory capital requirements, we evaluate the accuracy of our VaR model through daily backtesting. The results of the backtesting determine the size of the VaR multiplier used to compute RWAs.

Table 20 presents our period end, maximum, minimum and average daily GSGUK and GSI 99% 10-day Regulatory VaR over the six-month period ended December 2020.

Stressed VaR

SVaR 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. SVaR is based on a full valuation at a 99% confidence level over a 10-day time horizon using market data inputs from a continuous 12-month period of stress. The 10-day SVaR is calculated as the 1-day SVaR scaled by the square root of 10. We identify the stressed period by comparing VaR using market data inputs from different historical periods.

Table 20 presents our period end, maximum, minimum and average weekly GSGUK and GSI 99% 10-day SVaR over the six-month period ended December 2020.

Incremental Risk

Incremental risk is the potential loss in value of non-securitised positions due to the default or credit migration of issuers of financial instruments over a one-year time horizon. As required by the CRR market risk regulatory capital rules, this measure is calculated at a 99.9% confidence level over a one-year time horizon. It uses a multi-factor model assuming a constant level of risk. When assessing the risk, we take into account market and issuer-specific concentration, credit quality, liquidity horizons and correlation of default and migration risk. The average liquidity horizon as of December 2020 was 3 months.

Table 20 presents our period end, maximum, minimum and average of the weekly GSGUK and GSI Incremental Risk measure over the six-month period ended December 2020.

Comprehensive Risk

Comprehensive risk is the potential loss in value, due to price risk and defaults, within credit correlation positions. A credit correlation position is defined as a securitisation position for which all or substantially all of the value of the underlying exposures is based on the credit quality of a single company for which a two-way market exists, or indices based on such exposures for which a two-way market exists, or hedges of these positions (which are typically not securitisation positions).

Pillar 3 Disclosures

As required under the CRR market risk capital rules, the Comprehensive Risk Measure comprises a model-based measure, which is subject to a floor based on the minimum capital requirement of 8% of RWA calculated under the standard rules for the portfolio. The model-based measure is calculated at a 99.9% confidence level over a one-year time horizon applying a constant level of risk. The model comprehensively covers price risks including nonlinear price effects and takes into account contractual structure of cash flows, the effect of multiple defaults, credit spread risk, volatility of implied correlation, recovery rate volatility and basis risk. The liquidity horizon is based upon our experience during a historical stress period, subject to the prescribed regulatory minimum.

Table 20 presents the period end, maximum, minimum and average of the GSGUK and GSI Comprehensive Risk Measure for the over the seven-month period ended December 2020.

Table 20: IMA Values for Trading Portfolios

\$ in millions		As of December 2020	
		GSGUK	GSI
VaR (10 day 99%)			
1	Maximum value	540	540
2	Average value	246	246
3	Minimum value	169	169
4	Period end	169	169
SVaR (10 day 99%)			
5	Maximum value	561	561
6	Average value	446	446
7	Minimum value	321	321
8	Period end	430	430
IRC (99.9%)			
9	Maximum value	1,105	1,105
10	Average value	786	786
11	Minimum value	295	295
12	Period end	415	415
Comprehensive risk capital charge (99.9%)			
13	Maximum value	125	125
14	Average value	77	77
15	Minimum value	53	53
16	Period end	125	125

Table 21: Market Risk under the IMA

The table below presents the capital requirements and RWA under the IMA for Market Risk as of December 31, 2020.

\$ in millions		As of December 2020			
		RWAs		Capital requirements	
		GSGUK	GSI	GSGUK	GSI
1	VaR (higher of values a and b)	\$ 7,885	\$ 7,885	\$ 631	\$ 631
(a)	Previous day's VaR (Article 365(1) of the CRR (VaRt-1))			169	169
(b)	Average of the daily VaR (Article 365(1)) of the CRR on each of the preceding 60 business days (VaRavg) x multiplication factor (mc) in accordance with Article 366 of the CRR			631	631
2	SVaR (higher of values a and b)	\$ 16,192	\$ 16,192	\$ 1,295	\$ 1,295
(a)	Latest SVaR (Article 365(2) of the CRR (SVaRt-1))			430	430
(b)	Average of the SVaR (Article 365(2) of the CRR) during the preceding 60 business days (SVaRavg) x multiplication factor (ms) (Article 366 of the CRR)			1,295	1,295
3	IRC (higher of values a and b)	\$ 8,002	\$ 8,002	\$ 640	\$ 640
(a)	Most recent IRC value (incremental default and migration risks calculated in accordance with Article 370 and Article 371 of the CRR)			415	415
(b)	Average of the IRC number over the preceding 12 weeks			640	640
4	Comprehensive risk measure (higher of values a, b and c)	\$ 1,564	\$ 1,564	\$ 125	\$ 125
(a)	Most recent risk number for the correlation trading portfolio (Article 377 of the CRR)			125	125
(b)	Average of the risk number for the correlation trading portfolio over the preceding 12 weeks			74	74
(c)	8% of the own funds requirement in the standardised approach on the most recent risk number for the correlation trading portfolio (Article 338(4) of the CRR)			58	58
5	Other	\$ 22,267	\$ 22,267	\$ 1,782	\$ 1,782
6	Total	\$ 55,910	\$ 55,910	\$ 4,473	\$ 4,473

Pillar 3 Disclosures

Table 22: RWA Flow Statements of Market Risk Exposures under the IMA

GSGUK

\$ in millions

As of December 2020

	VaR	SVaR	IRC	Comprehensive risk measure	Other	Total RWAs	Total capital requirements
1 RWAs at previous quarter end	\$ 10,124	\$ 18,215	\$ 12,001	\$ 941	\$ 24,229	\$ 65,510	\$ 5,241
<i>1a Regulatory adjustment</i>	(7,222)	(12,116)	-	(115)	(11,550)	(31,003)	(2,480)
1b RWAs at the previous quarter-end	\$ 2,902	\$ 6,099	\$ 12,001	\$ 826	\$ 12,679	\$ 34,507	\$ 2,761
2 Movement in risk levels	(793)	(728)	(828)	738	1,097	(514)	(41)
3 Model updates/changes	-	-	(5,982)	-	-	(5,982)	(479)
8a RWAs at the end of the reporting period	\$ 2,109	\$ 5,371	\$ 5,191	\$ 1,564	\$ 13,776	\$ 28,011	\$ 2,241
<i>8b Regulatory adjustment</i>	5,776	10,821	2,811	-	8,491	27,899	2,232
8 RWAs at the end of the reporting period	\$ 7,885	\$ 16,192	\$ 8,002	\$ 1,564	\$ 22,267	\$ 55,910	\$ 4,473

GSI

\$ in millions

As of December 2020

	VaR	SVaR	IRC	Comprehensive risk measure	Other	Total RWAs	Total capital requirements
1 RWAs at previous quarter end	\$ 10,124	\$ 18,215	\$ 12,001	\$ 941	\$ 24,229	\$ 65,510	\$ 5,241
<i>1a Regulatory adjustment</i>	(7,222)	(12,116)	-	(115)	(11,550)	(31,003)	(2,480)
1b RWAs at the previous quarter-end	\$ 2,902	\$ 6,099	\$ 12,001	\$ 826	\$ 12,679	\$ 34,507	\$ 2,761
2 Movement in risk levels	(793)	(728)	(828)	738	1,097	(514)	(41)
3 Model updates/changes	-	-	(5,982)	-	-	(5,982)	(479)
8a RWAs at the end of the reporting period	\$ 2,109	\$ 5,371	\$ 5,191	\$ 1,564	\$ 13,776	\$ 28,011	\$ 2,241
<i>8b Regulatory adjustment</i>	5,776	10,821	2,811	-	8,491	27,899	2,232
8 RWAs at the end of the reporting period	\$ 7,885	\$ 16,192	\$ 8,002	\$ 1,564	\$ 22,267	\$ 55,910	\$ 4,473

Pillar 3 Disclosures

Model Review and Validation

The models discussed above, which are used to determine Regulatory VaR, SVaR, Incremental risk and Comprehensive risk, are independently reviewed, validated and approved by Model Risk.

These models are regularly reviewed and enhanced in order to incorporate changes in the composition of positions included in market risk measures, as well as variations in market conditions. Prior to implementation in production, any changes to those models are subject to validation and approval by Model Risk. Significant changes to VaR and stress testing models are reviewed with the firm’s chief market risk officer, and approved by the Risk Governance Committee.

Regulatory VaR Backtesting Results

As required by the CRR market risk capital rules, we validate the accuracy of our Regulatory VaR models by backtesting the output of such models against daily loss results. The number of exceptions (that is, the number of overshootings based on comparing the higher of positional or actual losses to the corresponding 99% one-day Regulatory VaR) over the most recent 250 business days is used to determine the size of the VaR multiplier, which could increase from a minimum of three to a maximum of four, depending on the number of exceptions.

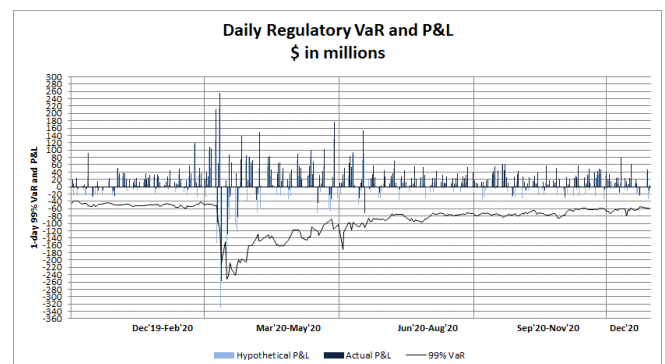
As defined in the CRR market risk capital rules, hypothetical net revenues for any given day represent the impact of that day’s price variation on the value of positions held at the close of business the previous day. As a consequence, these results exclude certain revenues associated with market-making businesses, such as bid/offer net revenues, which are more likely than not to be positive by their nature. In addition, hypothetical net revenues used in our Regulatory VaR backtesting relate only to positions which are included in Regulatory VaR and, as noted above, differ from positions included in our risk management VaR. This measure of hypothetical net revenues is used to evaluate the performance of the Regulatory VaR model and is not comparable to our actual daily net revenues. See “Risk Management — Market Risk Management” in Part II, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s 2020 Form 10-K.

GSI hypothetical losses observed on a single day exceeded our 99% one-day Regulatory VaR twice during the 13 months preceding December 2020, driven COVID-19 related market volatility in March 2020. Both the exceedances of hypothetical losses over 99% VaR were discounted by the regulator on the basis of CRR Article 500c for the purpose of computing regulatory capital multiplier. Hence the effective count of exceedances of hypothetical losses over VaR is 0 over 13 months preceding December 2020. GSI actual losses observed on a single day exceeded our 99% one-day Regulatory VaR twice during the 13 months preceding December 2020, driven COVID-19 related market volatility in March 2020. Both the exceedances of actual losses over 99% VaR were discounted by the regulator on the basis of CRR Article 500c for the purpose of computing regulatory capital multiplier. Hence the effective count of exceedances of actual losses over VaR is 0 over 13 months preceding December 2020. Note that, although a one-day time horizon is used for backtesting purposes, a 10-day time horizon is used, as described earlier, to determine RWAs associated with Regulatory VaR.

The table below presents our 99% one-day Regulatory VaR and hypothetical and actual PnL during the previous 13 months.

Table 23: Comparison of VaR estimates with gains/losses

- GSI



The table below summarizes the number of reported excesses for GSI for the previous 13 months.

	Multiplier	Number of reported excesses	
		Hypothetical	Actual
Backtesting			
GSI	3.00	0	0

Pillar 3 Disclosures**Stress Testing**

Stress testing is a method of determining the effect of various hypothetical stress scenarios on the firm and GSI and GSIB individually. Stress testing is used to examine risks of specific portfolios as well as the potential impact of significant risk exposures across GSI and GSIB. A variety of stress testing techniques are used to calculate the potential loss from a wide range of market moves on portfolios, including firmwide stress tests, sensitivity analysis and scenario analysis.

For a detailed description of the firm's stress testing practices, see "Risk Management – Market Risk Management – Risk Measures – Stress Testing" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 10-K.

The table below presents the components of own funds requirements under the standardised approach as of December 31, 2020.

Table 24: Market Risk under the Standardised Approach

		As of December 2020					
		RWAs			Capital Requirements		
		GSGUK	GSI	GSIB	GSGUK	GSI	GSIB
Outright products							
1	Interest rate risk (general and specific)	\$ 34,894	\$ 34,037	\$ 857	\$ 2,792	\$ 2,723	\$ 69
2	Equity risk (general and specific)	2,973	2,929	44	238	234	4
3	Foreign exchange risk	2,830	2,389	267	226	192	20
4	Commodity risk	1,335	901	-	107	72	-
4a	Collective investment undertakings	1,225	1,225	-	98	98	-
Options							
6	Delta-plus method	3,202	3,191	11	256	255	1
8	Securitisation (specific risk)	3,179	3,179	-	254	254	-
9	Total	\$ 49,638	\$ 47,851	\$ 1,179	\$ 3,971	\$ 3,828	\$ 94

Interest Rate Sensitivity

Interest Rate Risk in the Trading Book

Our exposure to interest rate risk in our trading book arises mostly from positions held to support client market-making activities. These positions are accounted for at fair value and its interest rate risk is monitored as a component of Market risk. For additional information regarding interest rate risk, see “Risk Management – Market Risk Management” in Part II, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s 2020 Form 10-K.

Interest Rate Risk in the Banking Book

Our exposure to interest rate risk in the banking book (IRRBB) arises from differences in interest earned or paid as interest rates change, due to the reset characteristics of our assets and liabilities. In September 2018, the introduction of Instant Access Savings deposits via our Marcus by Goldman Sachs brand resulted in an increase of IRRBB risk for GSIB. IRRBB risk may increase further as GSIB continues to focus on the expansion of its lending and deposit taking activities. However, our banking book activities’ exposure to movements in interest rates remains immaterial for GSGUK as a whole as at December 31, 2020.

For further information regarding asset-liability management, see “Risk Management – Liquidity Risk Management” in Part II, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s 2020 Form 10-K.

Operational Risk

Overview

Operational risk is the risk of an adverse outcome resulting from inadequate or failed internal processes, people, systems or from external events. The firm's 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:

- Clients, products and business practices;
- Execution, delivery and process management;
- Business disruption and system failures;
- Employment practices and workplace safety;
- Damage to physical assets;
- Internal fraud; and
- External fraud.

Operational Risk, which is independent of the firm's revenue-producing units and reports to the firm's chief risk officer, has primary responsibility for developing and implementing a formalised framework for assessing, monitoring and managing operational risk with the goal of maintaining the firm's exposure to operational risk at levels that are within its risk appetite.

Operational Risk Management Process

The firm's process for managing operational risk includes the critical components of the risk management framework described in "Risk Management – Overview and Structure of Risk Management" in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's 2020 Form 10-K.

The firm combines top-down and bottom-up approaches to manage and measure operational risk. From a top-down perspective, senior management assesses firmwide and business-level operational risk profiles. From a bottom-up perspective, the first and second lines of defence are responsible for risk identification and risk management on a day-to-day basis, including escalating operational risks to senior management.

The firm maintains a comprehensive control framework designed to provide a well-controlled environment to minimise operational risks. The EMEA Operational Risk and Resilience Committee provides oversight of the ongoing development and implementation of operational risk policies, framework and methodologies, with oversight from the directors of the firm, and monitors the effectiveness of operational risk management.

The firm's operational risk management framework is in part designed to comply with the operational risk measurement rules under the Capital Framework and has evolved based on the changing needs of its businesses and regulatory guidance.

The firm has established policies that require all employees to report and escalate operational risk events. When operational risk events are identified, the policies require that the events be documented and analysed to determine whether changes are required in the systems and/or processes to further mitigate the risk of future events.

The firm uses operational risk management applications to capture and organise operational risk event data and key metrics. One of the key risk identification and assessment tools is an operational risk and control self-assessment process, which is performed by managers across the firm. 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 analysed to evaluate operational risk exposures and identify businesses, activities or products with heightened levels of operational risk.

Pillar 3 Disclosures**Risk Measurement**

The firm measures operational risk exposure using both statistical modelling 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 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.

Model Review and Validation

The models used to measure operational risk exposure are independently reviewed, validated and approved by Model Risk. See “Model Risk” for further information.

Capital Requirements

The consolidated operational risk capital requirements for GSGUK, GSI and GSIB are calculated under the Standardised Approach in accordance with the CRR.

Table 25: Operational Risk Capital Requirement

<i>\$ in millions</i>	As of December 2020		
	GSGUK	GSI	GSIB
Standardised Approach	\$ 1,471	\$ 1,292	\$ 46

Model Risk

Overview

Model risk is the potential for adverse consequences from decisions made based on model outputs that may be incorrect or used inappropriately. The firm relies on quantitative models across business activities primarily to value certain financial assets and liabilities, to monitor and manage risk, and to measure and monitor regulatory capital.

Model Risk, which is independent of revenue-producing units, model developers, model owners and model users, and reports to the firm's chief risk officer, has primary responsibility for assessing, monitoring and managing model risk through oversight across global businesses, and provides periodic updates to senior management, risk committees and the Risk Committee of the GS Board. GSGUK's framework for managing model risk is consistent with and part of GS Group's framework.

The firm's 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 the model risk management framework.

Model Review and Validation Process

Model Risk consists of quantitative professionals who perform an independent review, validation and approval of the firm's models. This review includes an analysis of the model documentation, assumptions, input and output data, limitations and uncertainties, independent testing, an assessment of the appropriateness of the methodology used, verification of compliance with model development and implementation standards, and assessment of adequacy of the ongoing monitoring plan.

The firm regularly refines and enhances models to reflect changes in market or economic conditions and its 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 their assumptions in order to critically evaluate and verify the model's conceptual soundness, suitability of calculation techniques, accuracy and sensitivity to input parameters and assumptions, as well as the scope of testing performed by the model developers.

See "Credit Risk", "Market Risk", "Operational Risk" and "Liquidity Risk" for further information about the use of models within these areas.

Asset Encumbrance

Overview

Asset encumbrance refers to the pledging or use of an asset as a means to secure, collateralise or credit-enhance any on-balance-sheet or off-balance-sheet transaction from which it cannot be freely withdrawn. The majority of our encumbrance is driven by secured financing activities, which include transactions in repo, securities lending, facilitation of short positions (customer and GSGUK) and collateral swaps. The remaining encumbrance is driven by derivatives trading. A portion of GSGUK's assets are encumbered in currencies other than US Dollars. Asset encumbrance is an integral part of GSGUK's liquidity, funding and collateral management process.

The tables in this section identify components of our encumbered and unencumbered assets for the period ended December 31, 2020. All numbers in the tables are based on the applicable accounting standards and median values are computed over the preceding 4 quarterly data points¹. This disclosure is being made in accordance with the format outlined in Commission Delegated Regulation (EU) 2017/2295 supplementing regulation (EU) No 575/2013 on the disclosure of encumbered and unencumbered assets.

Table 26: Encumbered and Unencumbered Assets

	Carrying Amount of Encumbered Assets		Fair Value of Encumbered Assets		Carrying Amount of Unencumbered Assets		Fair Value of Unencumbered Assets	
		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA
<i>\$ in millions</i>								
Assets of the Reporting Institution ²	125,961	22,133	N/a²	N/a²	1,206,038	41,417	N/a²	N/a²

1. The figures in Table 2 are a subset of Assets of the Reporting Institution in Table 1

2. Cells are marked N/a to indicate those components which are not reportable under EBA Guidelines

¹ Median values are calculated using the following 4 month-end values – February 2020, May 2020, August 2020 and December 2020

Pillar 3 Disclosures

Table 27: Components of Encumbered and Unencumbered Assets¹

	Carrying Amount of Encumbered Assets		Fair Value of Encumbered Assets		Carrying Amount of Unencumbered assets		Fair Value of Unencumbered Assets	
		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA
<i>\$ in millions</i>								
Equity Instruments³	34,284	2,793	N/a²	N/a²	11,166	282	N/a²	N/a²
Debt Securities³	27,537	19,395	27,537	19,395	14,043	10,106	14,043	10,106
of which: covered bonds	1,508	1,447	1,508	1,447	8	7	8	7
of which: asset-backed securities	-	-	-	-	-	-	-	-
of which: issued by general governments	17,816	15,801	17,816	15,801	12,020	9,818	12,020	9,818
of which: issued by financial corporations ⁶	3,678	599	3,678	599	1,336	12	1,336	12
of which: issued by non-financial corporations	4,284	1,389	4,284	1,389	605	155	605	155
Other Assets	64,355⁴	-	N/a²	N/a²	1,181,403⁵	27,591	N/a²	N/a²

1. The figures in Table 2 are a subset of Assets of the Reporting Institution in Table 1

2. Cells are marked N/a to indicate those components which are not reportable under EBA Guidelines

3. Fair value is the same as carrying value for Debt Securities

4. Encumbered Other Assets includes cash encumbered for derivatives margin and on-balance-sheet cash that has been segregated under the FCA's Client Assets Sourcebook (CASS)

5. The majority of unencumbered Other Assets relate to derivative instruments

6. HQLA balances reported in this row mainly comprise of securities issued by Multinational Development Banks and Public Sector Enterprises

The firm receives securities collateral in respect of securities purchased under agreement to resell, secured borrowings, margin loans and derivatives. The tables below break down securities collateral received into the portion which has been treated as encumbered and the portion which is available for encumbrance.

Table 28: Collateral Received

	Fair Value of Encumbered Collateral Received or Own Debt Securities Issued		Fair Value of Collateral Received or Own Debt Securities Issued Available for Encumbrance	
		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA
<i>\$ in millions</i>				
Collateral Received by the Reporting Institution^{1,2}	445,888	291,482	78,785	48,013

1. The figures shown in Table 4 are a subset of Collateral Received by the Reporting Institution in Table 3

2. Collateral Received by the Reporting Institution does not include cash collateral which is included as an on-balance-sheet asset in Tables 1 and 2

Pillar 3 Disclosures

Table 29: Components of Collateral Received¹

	Fair Value of Encumbered Collateral Received or Own Debt Securities Issued		Fair Value of Collateral Received or Own Debt Securities Issued Available for Encumbrance	
		Of which notionally eligible EHQLA and HQLA		Of which notionally eligible EHQLA and HQLA
<i>\$ in millions</i>				
Loans on Demand	-	-	-	-
Equity Instruments	168,648	37,439	14,660	1,206
Debt Securities	281,285	253,462	64,021	46,685
of which: covered bonds	426	280	169	129
of which: asset-backed securities	92	-	247	-
of which: issued by general governments	257,408	243,461	46,898	44,545
of which: issued by financial corporations ³	10,950	4,648	8,194	654
of which: issued by non-financial corporations	12,303	4,500	9,910	1,254
Loans and advances other than loans on demand	-	-	25	-
Other Collateral Received	56	-	86	-
Own Debt Securities Issued other than Own Covered Bonds or ABSs	-	-	-	-
Own Covered Bonds and Asset-Backed Securities issued and not yet pledged	N/a ²	-	-	-
Total Assets, Collateral received and Own Debt Securities Issued	575,181	315,064	N/a²	N/a²

1. The figures shown in Table 4 are a subset of Collateral Received by the Reporting Institution in Table 3

2. Cells are marked N/a to indicate those components which are not reportable under EBA Guidelines

3. HQLA balances reported in this row mainly comprise of securities issued by Multinational Development Banks and Public Sector Enterprises

The table below shows the extent to which liabilities have been matched to encumbered assets.

Table 30: Sources of Encumbrance

	Matching Liabilities, Contingent Liabilities or Securities Lent	Assets, Collateral Received and Own Debt Securities Issued other than Covered Bonds and ABSs Encumbered
<i>\$ in millions</i>		
Carrying amount of selected financial liabilities¹	997,333	255,176
Other Sources of Encumbrance	286,356	320,480

1. There may be a mismatch between liabilities and encumbered assets and collateral received driven by the accounting standards presentation of derivatives

Commentary

We view GSGUK's level of asset encumbrance as being higher than the level of asset encumbrance implied in the preceding tables due to differences in accounting standards presentation of derivatives and encumbrance methodology. In this disclosure, derivative instruments are reported in accordance with the applicable accounting standards. In addition, total assets include collateralised lending where the receivable is reported as a balance sheet asset in Tables 1 and 2 and the underlying collateral received is reported in Tables 3 and 4 resulting in double counting of these assets.

GSGUK primarily adopts standard collateral agreements and collateralises based on industry standard contractual agreements (mostly Credit Support Annexes (CSA) and Global Master Repurchase Agreements (GMRAs)). The rights and obligations on collateral posted to counterparties for derivatives are dependent on the counterparty and the nature and jurisdiction of the CSA. Derivative liabilities are collateralised primarily using G10 currencies and government bonds.

Liquidity Risk

Overview

GSGUK is supervised on a consolidated basis by the Prudential Regulation Authority (PRA). Certain subsidiaries of GSGUK are regulated by the Financial Conduct Authority (FCA) and the PRA. GSGUK and its major subsidiaries are subject to the liquidity requirements as set out in the European Commission Delegated Regulation 2018/1620 and Delegated Regulation 2015/61 to supplement Regulation No 575/2013 of the European Parliament and the Council with regard to liquidity coverage requirement for credit institutions and other applicable guidelines as set by the PRA. When we use the term “liquidity standards”, we refer to the aforementioned regulations. The liquidity standards set forth minimum liquidity levels designed to ensure that credit institutions and investment firms maintain adequate amount of liquid assets to withstand a 30 calendar-day stress scenario.

This information is designed to satisfy the disclosure of liquidity risk management under Article 435 of Regulation (EU) No 575/2013. The EBA guidelines on LCR disclosure (EBA/GL/2017/01) require firms to disclose, on an annual basis, the average monthly LCR for the trailing twelve months, as well as quantitative and qualitative information on certain components of a firm’s LCR. This information should be read in conjunction with Group Inc.’s most recent Annual Report on Form 10-K for the year ended December 31, 2020.

Liquidity Risk Management

Liquidity risk is the risk that we will be unable to fund GSGUK or meet our liquidity needs in the event of firm-specific, 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 GSGUK and to enable our core businesses to continue to serve clients and generate revenues, even under adverse circumstances.

We manage liquidity risk according to three principles: (i) hold sufficient excess liquidity in the form of Global Core Liquid Assets (GCLA) to cover outflows during a stressed period, (ii) maintain appropriate Asset-Liability Management, and (iii) maintain a viable Contingency Funding Plan.

For information about Group Inc.’s internal Liquidity Risk Management framework, see “Risk Management – Liquidity Risk Management” in Part I, Item 7 “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in the firm’s Annual Report on Form 10-K.

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 Management, which is independent of our revenue-producing units and Treasury, and reports to our chief risk officer, has primary responsibility for assessing, monitoring and managing our liquidity risk through firmwide oversight and the establishment of stress testing and limits frameworks.

We use liquidity 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. The purpose of these limits is to assist senior management in monitoring and controlling our overall liquidity profile.

Based on the results of our internal liquidity risk models, as well as consideration of other factors including, but not limited to, an assessment of our potential intraday liquidity needs and a qualitative assessment of the condition of the financial markets and GSGUK, we believe that our liquidity position as of December 31, 2020 was appropriate.

Compliance with Liquidity Requirements

The PRA guidelines require that a firm maintains LCR that is no less than 100%. In addition, the PRA may require a firm to hold additional liquidity for risks not covered in the LCR Delegated Act, referred to as Pillar 2 risks. A firm’s HQLA is expected to be available for use to address liquidity needs in a time of stress, which could result in a firm’s LCR dropping below the applicable requirement. The liquidity standards also set forth a supervisory framework for addressing LCR shortfalls that is intended to enable supervisors to monitor and respond appropriately to the unique circumstances that give rise to a firm’s LCR shortfall.

This information is based on our current interpretation and understanding of the liquidity standards and the EBA guidelines on LCR Disclosure and may evolve as we discuss the interpretation and application of these rules with our regulators. Table 7 (lines 1 through 23) presents GSGUK’s LCR in the format provided in the EBA guidelines on LCR Disclosure. Tables 1 through 6 present a supplemental breakdown of GSGUK’s LCR components. Tables 8 and 9 present a summarised disclosure template for Goldman Sachs International (GSI) and Goldman Sachs International Bank (GSIB), respectively.

Liquidity Coverage Ratio

The liquidity standards require a firm to maintain an amount of high-quality liquid assets (HQLA) sufficient to meet stressed net cash outflows (NCOs) over a prospective 30 calendar-day period. The LCR is calculated as the ratio of HQLA to NCOs.

The table below presents a summary of our trailing twelve month average monthly LCR for the period ended December 31, 2020.

Table 31: Liquidity Coverage Ratio

<i>\$ in millions</i>	Twelve Months Ended December 2020
	Average Weighted
Total high-quality liquid assets	\$78,036
Net cash outflows	\$38,651
Liquidity coverage ratio ¹	203%

1. The ratio reported in this row is calculated as average of the monthly LCRs for the trailing twelve months and may not equal the calculation of ratio using component amounts reported in "Total high-quality liquid assets" and "Net cash outflows".

In the table above, the average weighted Total HQLA balance reflects the application of haircuts prescribed in the liquidity standards as described in the HQLA section.

The average weighted Total HQLA held by GSGUK is expected to meet the liquidity requirements set out in the LCR Delegated Act as well as the additional requirements set by the PRA to cover Pillar 2 risks.

GSGUK's average monthly LCR for the trailing twelve-month period ended December 2020 was 203%. The NCOs largely consist of prospective outflows related to GSGUK's secured and unsecured funding, derivative positions and unfunded commitments. We expect business-as-usual fluctuations in our client activity, business mix and overall market environment to affect our average LCR on an ongoing basis.

See "High-Quality Liquid Assets" and "Net Cash Outflows" for further information about GSGUK's LCR.

High-Quality Liquid Assets

Total HQLA represents unencumbered, high-quality liquid assets held by a firm. The liquidity standards define HQLA in three asset categories: Level 1, Level 2A and Level 2B, and applies haircuts and limits to certain asset categories.

Level 1 assets are considered the most liquid and are eligible for inclusion in a firm's HQLA amount without a haircut or limit. Level 2A and 2B assets are considered less liquid than

Level 1 assets and are subject to additional adjustments as prescribed in the liquidity standards. In addition, the sum of Level 2A and 2B assets cannot comprise more than 40% of a firm's HQLA amount, and Level 2B assets cannot comprise more than 15% of a firm's HQLA amount.

Table 1 presents a summary of the weighted average Total HQLA held by GSGUK, calculated in accordance with the liquidity standards.

Our HQLA substantially consists of Level 1 assets and is diversified across our major operating currencies. Our HQLA is also substantially similar in composition to our GCLA.

For information about Group Inc.'s GCLA, see "Risk Management – Liquidity Risk Management" in Part I, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's Annual Report on Form 10-K.

Net Cash Outflows

Overview

The liquidity standards define NCOs as the net of cash outflows and inflows during a prospective stress period of 30 calendar days. NCOs are calculated by applying prescribed outflow and inflow rates to certain assets, liabilities and off-balance-sheet arrangements. These outflow and inflow rates reflect a specific standardised stress scenario to a firm's funding sources, contractual obligations and assets over the prospective stress period, as prescribed by the liquidity standards. Due to the inherently uncertain and variable nature of stress events, a firm's actual cash outflows and inflows in a realised liquidity stress event may differ, possibly materially, from those reflected in a firm's NCOs.

To capture outflows and inflows that would occur within a 30 calendar-day period, the liquidity standards require that a firm's NCOs calculation reflects outflows and inflows based on the contractual maturity of certain assets, liabilities and off-balance-sheet arrangements. To determine the maturity date of outflows, the liquidity standards account for any option that could accelerate the maturity date of an instrument or the date of a transaction. Where contractual maturity is not applicable, the liquidity standards also set forth stressed outflow assumptions. In addition, the liquidity standards require a firm to recognise contractual outflows within a 30 calendar-day period that are not otherwise described in the liquidity standards and do not recognise inflows not specified in the liquidity standards. The inflows included in the NCOs calculation are subject to a cap of 75% of a firm's calculated outflows.

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Table 1 above presents a summary of GSGUK's NCOs, calculated in accordance with the liquidity standards.

More details on each of the material components of our NCOs, including a description of the applicable sections of the liquidity standards, are described below.

In the tables referenced in the remainder of this section, unweighted balances reflect certain GSGUK's assets, liabilities and off-balance-sheet arrangements captured in the liquidity standards. Weighted balances reflect the application of prescribed outflow and inflow rates to these unweighted balances.

Unsecured and Secured Financing

Overview

Our primary sources of funding are deposits, collateralised financings, unsecured short-term and long-term borrowings (including funding from Group Inc. and affiliates), and shareholders' equity. We seek to maintain broad and diversified funding sources globally across products, programs, markets, currencies and creditors to avoid funding concentrations.

For information about Group Inc.'s funding sources, see "Balance Sheet and Funding Sources" in Part I, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the firm's Annual Report on Form 10-K.

Unsecured Net Cash Outflows

GSGUK's unsecured funding consists of a number of different products, including:

- Debt securities issued, which includes notes, certificates, and warrants; and
- Savings, demand and time deposits through internal and third-party broker-dealers, and from consumers and institutional clients.

GSGUK's unsecured debt and deposits are a source of funding for inventory, lending activity and other assets, including a portion of our liquid assets.

The liquidity standards require that the NCOs calculation reflects a firm's upcoming maturities of unsecured long-term debt and other unsecured funding products during a 30 calendar-day period, assuming no roll over of debt that matures.

The liquidity standards also prescribe outflows related to a partial loss of retail, small business, and wholesale deposits.

Inflows from deposits placed with agent banks and lending activity are included as part of "Inflows from fully performing exposures" (see Table 2).

The table below presents a summary of GSGUK's NCOs related to our unsecured borrowing and lending activity, calculated in accordance with the liquidity standards.

Table 32: Unsecured Net Cash Outflows

<i>\$ in millions</i>	Twelve Months Ended December 2020	
	Average Unweighted	Average Weighted
Outflows		
Retail deposits and deposits from small business customers, of which:		
Stable deposits	\$27,428	\$4,161
Less stable deposits	105	5
Unsecured wholesale funding, of which:	27,174	4,156
Non-operational deposits	26,251	21,960
Unsecured debt	23,310	19,019
Inflows		
Inflows from fully performing exposures	2,941	2,941
Net unsecured cash outflows/(inflows)¹	\$49,037	\$23,709

1. Net unsecured cash outflows/(inflows) reflects the subtraction of the inflow amounts from the outflow amounts shown in the table above and is included for illustrative purposes.

Secured Net Cash Outflows

GSGUK funds a significant amount of inventory on a secured basis, including repurchase agreements, securities loaned and other secured financings. In addition, we provide financing to our clients for their securities trading activities, as well as securities lending and other prime brokerage services.

The liquidity standards consider outflows and inflows related to secured funding and securities services together as part of "Secured wholesale funding" and "Secured lending" (see Table 3).

Specifically, under the liquidity standards, secured funding transactions include repurchase agreements, collateralised deposits, securities lending transactions and other secured wholesale funding arrangements. Secured lending transactions, as defined under the liquidity standards, include reverse repurchase transactions, margin loans, securities borrowing transactions and secured loans.

The standardised stress scenario prescribed in the liquidity standards applies outflow and inflow rates between 0-100% to secured funding and lending transactions. Specific outflow and inflow rates are based on factors such as the quality of

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the underlying collateral, as well as the type, tenor, and counterparty of a transaction.

The table below presents a summary of GSGUK's NCOs related to our secured funding and lending activity, calculated in accordance with the liquidity standards.

Table 33: Secured Net Cash Outflows

\$ in millions	Twelve Months Ended December 2020	
	Average Unweighted	Average Weighted
Outflows		
Secured wholesale funding		\$27,388
Inflows		
Secured lending	\$267,316	69,862
Net secured cash outflows/(inflows)¹		\$(42,474)

1. Net secured cash outflows/(inflows) reflects the subtraction of the inflow amounts from the outflow amount shown in the table above and is included for illustrative purposes.

Derivatives**Overview**

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 or they may be privately negotiated contracts, which are usually referred to as OTC derivatives. Certain OTC derivatives are cleared and settled through central clearing counterparties, while others are bilateral contracts between two counterparties.

- **Market-Making.** As a market maker, GSGUK enters into derivative transactions to provide liquidity to clients and to facilitate the transfer and hedging of their risks. In this role, we typically act as principal and are required to commit capital to provide execution, and maintain inventory in response to, or in anticipation of, client demand.
- **Risk Management.** GSGUK also enters into derivatives to actively manage risk exposures that arise from its market-making and investing and lending activities in derivative and cash instruments. Our holdings and exposures are hedged, in many cases, on either a portfolio or risk-specific basis, as opposed to an instrument-by-instrument basis. In addition, the firm may enter into derivatives that are used to manage interest rate exposure in certain fixed-rate unsecured long-term and short-term borrowings, and deposits.

We enter into various types of derivatives, including futures, forwards, swaps and options.

For information about Group Inc.'s derivative exposures and hedging activities, see Note 7 "Derivatives and Hedging Activities" in Part II, Item 8 "Financial Statements and Supplementary Data" in the firm's Annual Report on Form 10-K.

Derivative Net Cash Outflows

The liquidity standards require that derivative NCOs reflect outflows and inflows resulting from contractual settlements related to derivative transactions occurring over a 30 calendar-day period. These outflows and inflows can generally be netted at a counterparty level if subject to a valid qualifying master netting agreement. In addition, the liquidity standards require that NCOs reflect certain contingent outflows related to a firm's derivative positions that may arise during a 30 calendar-day stress scenario, including:

- Incremental collateral required as a result of a change in a firm's financial condition;
- Legal right of substitution of collateral posted to a firm for less liquid or non-HQLA collateral;
- Collateral required as a result of market movements. The liquidity standards require that a firm reflects in its NCOs calculation the absolute value of the largest net cumulative collateral outflow or inflow in a 30 calendar-day period over the last two years; and
- Excess collateral greater than the current collateral requirement under the governing contract that a firm may be contractually required to return to counterparty.

In the table below, "Outflows related to derivative exposures and other collateral requirements" reflects contractual derivative settlements, as well as contingent derivative outflows, calculated in accordance with the liquidity standards. Inflows from contractual derivative settlements are reflected in "Other cash inflows" (see Table 6). The liquidity standards do not recognise contingent derivative inflows.

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The table below presents a summary of the GSGUK's derivative NCOs, calculated in accordance with the liquidity standards.

Table 34: Derivative Net Cash Outflows

<i>\$ in millions</i>	Twelve Months Ended December 2020	
	Average Unweighted	Average Weighted
Outflows related to derivative exposures and other collateral requirements	\$27,456	\$25,476

Unfunded Commitments**Overview**

GSGUK's commercial lending activities include lending to investment-grade and non-investment-grade corporate borrowers. Such commitments include commitments related to relationship lending activities (principally used for operating and general corporate purposes) and 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, as well as commercial real estate financing and retail lending.

In addition, the firm provides financing to clients who warehouse financial assets. These arrangements are secured by the warehoused assets, primarily consisting of residential real estate, consumer and corporate loans.

Unfunded Commitments Net Cash Outflows

The liquidity standards apply outflow rates to the undrawn portion of committed credit and liquidity facilities that a firm has extended based on counterparty type and purpose. The undrawn portion is defined as the amount of the facility that could be drawn upon within 30 calendar days under the governing agreement, less the fair value of any liquid assets

that serve as collateral, after recognising the applicable haircut for those assets. Commitments extended to non-financial sector corporates are prescribed an outflow rate of 10-30%, insurance sector entities an outflow rate of 40-100%, credit institutions an outflow rate of 40% and all others an outflow rate of 100%.

The table below presents a summary of GSGUK's NCOs related to our unfunded commitments, calculated in accordance with the liquidity standards.

Table 35: Unfunded Commitments Net Cash Outflows

<i>\$ in millions</i>	Twelve Months Ended December 2020	
	Average Unweighted	Average Weighted
Credit and liquidity facilities	\$7,698	\$3,160

Other Net Cash Outflows

The table below presents a summary of GSGUK's other cash outflows and inflows, including, but not limited to, overnight and term funding from Group Inc. and affiliates, derivative inflows, unsettled inventory balances, loans of collateral to effect customer short sales and other prime brokerage services.

Table 36: Other Net Cash Outflows

<i>\$ in millions</i>	Twelve Months Ended December 2020	
	Average Unweighted	Average Weighted
Outflows		
Other contractual obligations	\$76,792	\$18,670
Other contingent funding obligations	56,154	38,733
Inflows		
Other cash inflows	30,028	30,028
Net other cash outflows/(inflows)¹	\$102,918	\$27,375

1. Net other cash outflows/(inflows) reflects the subtraction of the inflow amounts from the outflow amounts shown in the table above and is included for illustrative purposes.

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Table 37: GSGUK Liquidity Coverage Ratio Summary

Scope of consolidation (Consolidated)		Total Unweighted Value				Total Weighted Value			
Currency and units (\$ in millions)									
Period ended		March 2020	June 2020	September 2020	December 2020	March 2020	June 2020	September 2020	December 2020
Number of data points used in the calculation of averages		12	12	12	12	12	12	12	12
HIGH-QUALITY LIQUID ASSETS									
1	Total high-quality liquid assets (HQLA)					71,008	74,231	76,410	78,036
CASH – OUTFLOWS									
2	Retail deposits and deposits from small business customers, of which:	17,089	20,665	24,501	27,428	2,625	3,150	3,717	4,161
3	Stable deposits	136	137	141	105	7	7	7	5
4	Less stable deposits	16,953	20,456	24,226	27,174	2,619	3,143	3,710	4,156
5	Unsecured wholesale funding	19,887	21,628	23,773	26,251	17,131	18,360	19,917	21,960
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	0	0	0	0	0	0	0	0
7	Non-operational deposits (all counterparties)	17,617	19,141	21,061	23,310	14,861	15,874	17,205	19,019
8	Unsecured debt	2,270	2,487	2,712	2,941	2,270	2,487	2,712	2,941
9	Secured wholesale funding					32,159	30,350	29,206	27,388
10	Additional requirements	28,649	31,201	33,371	35,153	20,511	23,314	26,117	28,636
11	Outflows related to derivative exposures and other collateral requirements	20,074	22,993	25,514	27,456	16,996	19,922	22,899	25,476
12	Outflows related to loss of funding on debt products	0	0	0	0	0	0	0	0
13	Credit and liquidity facilities	8,575	8,207	7,857	7,698	3,515	3,392	3,218	3,160
14	Other contractual funding obligations	70,799	71,604	74,611	76,792	18,781	17,744	17,474	18,670
15	Other contingent funding obligations	47,811	50,439	53,413	56,154	35,944	36,827	37,832	38,733
16	TOTAL CASH OUTFLOWS					127,151	129,745	134,263	139,548
CASH – INFLOWS									
17	Secured lending (e.g. reverse repos)	261,883	261,000	264,190	267,316	69,579	68,656	69,575	69,862
18	Inflows from fully performing exposures	4,351	4,545	4,423	4,642	2,314	2,433	2,381	2,412
19	Other cash inflows	24,319	25,368	26,997	30,028	24,319	25,368	26,997	30,028
EU-19a	(Difference between total weighted inflows and total weighted outflows arising from transactions in third countries where there are transfer restrictions or which are denominated in non-convertible currencies)					0	0	0	0
EU-19b	(Excess inflows from a related specialised credit institution)					0	0	0	0
20	TOTAL CASH INFLOWS	290,553	290,912	295,610	301,985	96,212	96,457	98,953	102,302
EU-20a	Fully exempt inflows	0	0	0	0	0	0	0	0
EU-20b	Inflows Subject to 90% Cap	0	0	0	0	0	0	0	0
EU-20c	Inflows Subject to 75% Cap	290,553	277,261	269,679	261,387	96,212	96,457	98,953	102,302
TOTAL ADJUSTED VALUE									
21	LIQUIDITY BUFFER¹					71,008	74,231	76,410	78,036
22	TOTAL NET CASH OUTFLOWS¹					32,776	34,802	36,825	38,651
23	LIQUIDITY COVERAGE RATIO (%)²					217%	214%	208%	203%

¹ The amounts reported in these rows may not equal the calculation of those amounts using component amounts reported in rows 1-20 due to technical factors such as the application of the Level 2 liquid asset caps and the total inflow cap.

² The ratios reported in this row are calculated as average of the monthly LCR's for the trailing twelve months and may not equal the calculation of ratios using component amounts reported in rows 21 and 22.

Pillar 3 Disclosures**Table 38: GSI Liquidity Coverage Ratio Summary**

Scope of consolidation (Solo)	Total Weighted Value			
Currency and units (\$ in millions)				
Period ended	March 2020	June 2020	September 2020	December 2020
Number of data points used in the calculation of averages	12	12	12	12
LIQUIDITY BUFFER	58,607	60,626	61,356	61,658
TOTAL NET CASH OUTFLOWS	28,960	29,835	30,766	31,912
LIQUIDITY COVERAGE RATIO (%) ¹	203%	203%	199%	194%

¹ The ratios reported in this row are calculated as average of the monthly LCR's for the trailing twelve months and may not equal the calculation of ratios using component amounts reported in rows 21 and 22.

Table 39: GSIB Liquidity Coverage Ratio Summary

Scope of consolidation (Solo)	Total Weighted Value			
Currency and units (\$ in millions)				
Period ended	March 2020	June 2020	September 2020	December 2020
Number of data points used in the calculation of averages	12	12	12	12
LIQUIDITY BUFFER	12,400	13,604	15,053	16,378
TOTAL NET CASH OUTFLOWS	7,923	8,702	9,858	10,998
LIQUIDITY COVERAGE RATIO (%) ¹	158%	159%	157%	153%

¹ The ratios reported in this row are calculated as average of the monthly LCR's for the trailing twelve months and may not equal the calculation of ratios using component amounts reported in rows 21 and 22.

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Leverage Ratio

GSGUK is required to monitor and disclose its leverage ratio using the CRR's definition of exposure as amended by the European Commission Leverage Ratio Delegated Act. This leverage ratio compares CRR's definition of Tier 1 capital to a measure of leverage exposure, defined as the sum of certain assets plus certain off-balance-sheet exposures (which include a measure of derivatives, securities financing transactions, commitments and guarantees), less Tier 1 capital deductions.

The PRA has indicated that it will consult on the U.K. Leverage Ratio framework over the summer of 2021. The 3% E.U. minimum requirement enters into force after the transition period at the end of June 2021 hence it is not applicable in the U.K. under the U.K. framework. GSGUK

will become subject to a similar PRA-required leverage ratio that is expected to become effective in January 2022.

Table 40: Leverage Ratio

	As of December 2020		
	GSGUK	GSI	GSIB
Tier 1 Capital	\$ 40,105	\$ 35,262	\$ 3,320
Leverage Ratio Exposure	\$ 797,524	\$ 751,188	\$ 48,882
Leverage Ratio	5.0%	4.7%	6.8%

The following tables present further information on the leverage ratio. Table 41 reconciles the exposure measure to the balance sheets of GSGUK, GSI and GSIB. Table 42 breaks down the exposures from on-balance sheet assets by trading and banking book. Table 43 gives further details on the adjustments and drivers of the leverage ratio.

Table 41: Summary Reconciliation of Accounting Assets and Leverage Ratio Exposures

	As of December 2020		
	GSGUK	GSI	GSIB
Total assets as per balance sheet	\$ 1,312,896	\$ 1,267,858	\$ 59,773
Adjustment for entities which are consolidated for accounting purposes but are outside the scope of regulatory consolidation	-	-	-
Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting framework but excluded from the leverage ratio exposure measure in accordance with Article 429(13) of Regulation (EU) No 575/2013 "CRR"	-	-	-
Adjustments for derivative financial instruments ¹	(550,278)	(546,776)	226
Adjustments for securities financing transactions ¹	28,066	28,765	1,379
Adjustment for off-balance sheet items ¹	8,511	4,403	4,108
Adjustment for intragroup exposures excluded from the leverage ratio exposure measure in accordance with Article 429 (7) of Regulation (EU) No 575/2013 ¹	-	(436)	(13,861)
Adjustment for exposures excluded from the leverage ratio exposure measure in accordance with Article 429 (14) of Regulation (EU) No 575/2013	-	-	-
Other adjustments	(1,671)	(2,626)	(2,743)
Total leverage ratio exposure	\$ 797,524	\$ 751,188	\$ 48,882

1. Differences between the accounting values recognised as assets on the balance sheet and the leverage ratio exposure values. A further breakdown of these amounts can be found in Table 43.

Table 42: On-Balance Sheet Exposures

	As of December 2020		
	GSGUK	GSI	GSIB
Total on-balance sheet exposures¹ (excluding derivatives, SFTs, and exempted exposures), of which:	196,963	172,692	25,320
Trading book exposures	115,072	110,276	3,713
Banking book exposures, of which:	81,891	62,416	21,607
Covered bonds	-	-	-
Exposures treated as sovereigns	49,711	37,627	12,084
Exposures to regional governments, MDB, international organisations and PSE not treated as sovereigns	-	-	-
Institutions	14,373	15,167	2,265
Secured by mortgages of immovable properties	-	-	56
Retail exposures	-	-	11
Corporate	13,280	8,225	5,704
Exposures in default	121	108	13
Other exposures	4,406	1,289	1,474

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Table 43: Leverage Ratio Common Disclosure

\$ in millions	As of December 2020		
	GSGUK	GSI	GSIB
On-balance sheet exposures (excluding derivatives and SFTs)			
On-balance sheet items (excluding derivatives, SFTs and fiduciary assets, but including collateral)	\$ 243,072	\$ 218,981	\$ 28,205
Asset amounts deducted in determining Tier 1 capital	(1,289)	(1,099)	(161)
Total on-balance sheet exposures¹ (excluding derivatives, SFTs and fiduciary assets)	\$ 241,783	\$ 217,882	\$ 28,044
Derivative exposures			
Replacement cost associated with all derivatives transactions (ie net of eligible cash variation margin)	35,085	36,388	417
Add-on amounts for PFE associated with all derivatives transactions (mark-to-market method)	303,053	303,535	1,587
Exposure determined under Original Exposure Method	-	-	-
Gross-up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the applicable accounting framework	-	-	-
Deductions of receivables assets for cash variation margin provided in derivatives transactions	(45,383)	(45,128)	(256)
Exempted CCP leg of client-cleared trade exposures	(4,525)	(4,525)	-
Adjusted effective notional amount of written credit derivatives	705,291	703,630	1,661
Adjusted effective notional offsets and add-on deductions for written credit derivatives	(654,005)	(652,344)	(1,661)
Total derivative exposures	\$ 339,516	\$ 341,556	\$ 1,748
Securities financing transaction exposures			
Gross SFT assets (with no recognition of netting), after adjusting for sales accounting transactions	261,074	242,047	30,042
Netted amounts of cash payables and cash receivables of gross SFT assets	(81,425)	(81,425)	0
Counterparty credit risk exposure for SFT assets	28,066	28,765	1,379
Derogation for SFTs: Counterparty credit risk exposure in accordance with Article 429b (4) and 222 of Regulation (EU) No 575/2013	-	-	-
Agent transaction exposures	-	-	-
Exempted CCP leg of client-cleared SFT exposure	-	-	-
Total securities financing transaction exposures	\$ 207,715	\$ 189,387	\$ 31,421
Other off-balance sheet exposures			
Off-balance sheet exposures at gross notional amount	36,892	22,444	14,449
Adjustments for conversion to credit equivalent amounts	(28,382)	(18,041)	(10,341)
Other off-balance sheet exposures	\$ 8,510	\$ 4,403	\$ 4,108
Exempted exposures in accordance with CRR Article 429 (7) and (14) (on and off balance sheet)			
Exemption of intragroup exposures (solo basis) in accordance with Article 429(7) of Regulation (EU) No 575/2013 (on and off balance sheet)	-	(2,040)	(16,439)
Exposures exempted in accordance with Article 429 (14) of Regulation (EU) No 575/2013 (on and off balance sheet)	-	-	-
Capital and total exposures			
Tier 1 capital	\$ 40,105	\$ 35,262	\$ 3,320
Total leverage ratio exposures	\$ 797,524	\$ 751,188	\$ 48,882
Leverage ratio			
Leverage ratio	5.0%	4.7%	6.8%
Choice on transitional arrangements and amount of derecognised fiduciary items			
Choice on transitional arrangements for the definition of the capital measure	-	-	-
Amount of derecognised fiduciary items in accordance with Article 429(11) of Regulation (EU) No 575/2013	-	-	-

¹ The On Balance Sheet Exposures in Table 43 include cash collateral posted on derivative which is excluded from Table 42 in accordance with the European Commission Implementing Regulation (EU) 2016/200

Pillar 3 Disclosures**Factors impacting the Leverage Ratio**

The leverage ratio has increase from 4.6% in May 2020 to 5.2% in December 2020 driven by decreases in both on-balance sheet exposures and off-balance sheet exposures.

Risk of Excessive Leverage

The risk of excessive leverage is the risk resulting from a vulnerability due to leverage or contingent leverage that may require unintended corrective measures to our business plan, including distressed selling of assets which might result in losses or in valuation adjustments to our remaining assets.

The GSI and GSIB Asset and Liability Committees (GSI and GSIB ALCOs) are the primary governance committees for the management of the UK material subsidiaries' balance sheets, and are responsible for maintaining leverage ratios in accordance with the levels expressed in each entity's risk appetite statement.

We monitor the leverage ratio as calculated above and have processes in place to dynamically manage our assets and liabilities. These processes include:

- Monthly leverage ratio monitoring is conducted for GSI and GSIB. Leverage ratio monitoring thresholds have been established for GSI and GSIB and reported to the respective ALCOs, CROs, CFOs, CEOs, Risk Committees and Boards depending on size of movement.
- Quarterly leverage ratio planning which combines our projected leverage ratio assets (on- and off-balance sheet) and Tier 1 capital of GSGUK, GSI and GSIB.
- Potential new transactions which could have a material impact on GSGUK's capital and/or leverage position are escalated to and approved by Corporate Treasury, and by Controllers and other managers from independent control and support functions.

Capital Adequacy

Overview

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.

We determine the appropriate level and composition of capital by considering multiple factors including current and future regulatory capital requirements, results of capital planning and stress testing processes, resolution capital models and other factors such as rating agency guidelines, subsidiary capital requirements, the business environment and conditions in the financial markets.

Internal Capital Adequacy Assessment Process

We perform an ICAAP with the objective of ensuring that GSGUK is appropriately capitalised relative to the risks in our business. The ICAAP is a comprehensive assessment of the risks to which we are or may be exposed and covers both the risks for which we consider capital to be an appropriate mitigant, and those for which we consider mitigants other than capital to be appropriate.

As part of our ICAAP, we perform an internal risk-based capital assessment. We evaluate capital adequacy based on the result of our internal risk-based capital assessment, which includes the results of stress tests, and our regulatory capital ratios. Stress testing is an integral component of our ICAAP. It is designed to measure our estimated performance under various stressed market conditions and assists us in analysing whether GSGUK holds an appropriate amount of capital relative to the risks of our businesses. Our goal is to hold sufficient capital to ensure we remain adequately capitalised 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.

Pillar 3 Disclosures

Own Funds Template

The table below presents further information on the detailed capital position of GSGUK, GSI and GSIB, in accordance with the format prescribed by the Commission Implementing Regulation (EU) No 1423/2013.

Table 44: Own Funds Disclosure

\$ in millions	As of December 2020		
	GSGUK	GSI	GSIB
Capital instruments and the related share premium accounts	\$ 2,948	\$ 6,166	\$ 2,157
Paid up capital instruments	2,135	598	63
Share premium	813	5,568	2,094
Retained earnings	30,562	22,437	1,219
Accumulated other comprehensive income (and other reserves, to include unrealised gains and losses under the applicable accounting standards)	(318)	(325)	(15)
Common Equity Tier 1 (CET1) capital before regulatory adjustments	\$ 33,192	\$ 28,278	\$ 3,361
Additional value adjustments	(334)	(299)	(3)
Intangible assets (net of related tax liability)	(170)	(167)	(5)
Negative amounts resulting from the calculation of expected loss amounts	(792)	(767)	(25)
Gains or losses on liabilities valued at fair value resulting from changes in own credit standing	106	86	20
Deferred tax assets	(28)	-	(28)
Defined-benefit pension fund assets	(106)	(106)	-
Other adjustments ¹	(63)	(63)	-
Total regulatory adjustments to Common equity Tier 1 (CET1)	\$ (1,387)	\$ (1,316)	\$ (41)
Common Equity Tier 1 (CET1) capital	\$ 31,805	\$ 26,962	\$ 3,320
Additional Tier 1 (AT1) capital	8,300	8,300	-
Tier 1 capital (T1 = CET1 + AT1)	\$ 40,105	\$ 35,262	\$ 3,320
Capital instruments and the related share premium accounts	6,503	5,377	826
Qualifying own funds instruments included in consolidated T2 capital issued by subsidiaries and held by third parties	-	-	-
Of which: Instruments issued by subsidiaries subject to phase out	-	-	-
Non qualifying T2 capital instruments	-	-	-
Tier 2 (T2) capital before regulatory adjustments	\$ 6,503	\$ 5,377	\$ 826
Other deductions	-	-	-
Tier 2 (T2) capital	\$ 6,503	\$ 5,377	\$ 826
Total capital (TC = T1 + T2)	\$ 46,608	\$ 40,639	\$ 4,146
Total risk weighted assets	\$ 275,967	\$ 252,355	\$ 19,263
Common Equity Tier 1 (as a percentage of risk exposure amount)	11.5%	10.7%	17.2%
Tier 1 (as a percentage of risk exposure amount)	14.5%	14.0%	17.2%
Total capital (as a percentage of risk exposure amount)	16.9%	16.1%	21.5%
Institution specific buffer requirement (CET1 requirement in accordance with article 92 (1) (a) plus capital conservation and countercyclical buffer requirements, plus systemic risk buffer, plus the systemically important institution buffer (G-SII or O-SII buffer), expressed as a percentage of risk exposure amount)	7.02%	7.02%	7.02%
Of which: Capital conservation buffer requirement	2.50%	2.50%	2.50%
Of which: Counter cyclical buffer requirement	0.34%	0.33%	0.31%
Common Equity Tier 1 available to meet buffers (as a percentage of risk exposure amount)	3.4%	2.5%	8.9%
Direct and indirect holdings of the capital of financial sector entities where the institution does not have a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	\$ 1,342	\$ 1,290	-
Direct and indirect holdings by the institution of the CET 1 instruments of financial sector entities where the institution has a significant investment in those entities (amount below 10% threshold and net of eligible short positions)	-	-	-

1. Other Adjustments include regulatory deductions for foreseeable charges applicable to profits recognised as of December 2020

Pillar 3 Disclosures

Countercyclical Capital Buffer Template

The following tables present information on the impact of the countercyclical capital buffer as prescribed under CRR Article 440 which came into force from January 1, 2017.

Table 45: Countercyclical Capital Buffer

\$ in millions	As of December 2020		
	GSGUK	GSI	GSIB
Total risk exposure amount	\$ 275,967	\$ 252,355	\$ 19,263
Countercyclical buffer rate	0.02%	0.02%	0.02%
Countercyclical buffer requirement	66	63	4

The geographical distribution of credit exposures relevant for the calculation of the countercyclical capital buffer is broken down in Table 29.

As of December 31, 2020 the Financial Policy Committee (FPC) had recognised exposures of U.K. institutions from Norway, Hong Kong, Czech Republic, Slovakia, Denmark, Bulgaria in addition to the UK as implemented in the calculation of this buffer. These are shown as separate rows below with their respective contributions to own funds requirements for GSGUK, GSI and GSIB.

On March 11, 2020, the Bank of England announced that it has reduced the UK countercyclical capital buffer from 1% to 0% of banks' exposures to U.K. borrowers and counterparties with effect from March 11, 2020. This rate is expected to apply to the company for at least two years and result in the company's U.K. countercyclical capital buffer decreasing by approximately 0.20%.

Table 46: Geographical Distribution of Credit Exposures Relevant for the Calculation of the Buffer

Breakdown by Country	\$ in millions											As of December 2020	
	General credit exposures		Trading book exposure ¹		Securitisation exposure		Own funds requirements			Total	Own funds requirement weights	Counter-cyclical capital buffer rate	
	Exposure value for SA	Exposure value for IRB	Sum of long and short position of trading book	Value of trading book exposure for internal models	Exposure value for SA	Exposure value for IRB	Of which: General credit exposures	Of which: Trading book exposures	Of which: Securitisation exposures				
Norway	-	\$ 245	\$ 1	\$ 198	-	-	\$ 13	\$ 2	-	\$ 15	0.2%	1.00%	
Sweden	-	771	4	\$ 508	-	-	61	6	-	67	0.8%	0.00%	
Hong Kong	1	275	111	\$ 6,173	-	-	39	36	-	75	0.9%	1.00%	
Czech Republic	-	24	-	\$ 50	-	-	1	1	-	2	0.0%	0.50%	
Iceland	-	18	-	\$ 12	-	-	5	0	-	5	0.1%	0.00%	
Slovakia	-	31	-	\$ 5	-	-	1	0	-	1	0.0%	1.00%	
United Kingdom	1,688	21,767	56,038	\$ 1,488,394	-	707	1,171	749	35	1,955	24.1%	0.00%	
Lithuania	-	2	-	\$ 22	-	-	0	0	-	0	0.0%	0.00%	
Denmark	-	650	-	\$ 76	-	-	48	3	-	51	0.6%	0.00%	
Ireland	0	1,400	1,062	\$ 1,135	-	-	117	158	-	275	3.4%	0.00%	
France	-	6,559	52	\$ 4,513	-	19	284	64	13	361	4.5%	0.00%	
Bulgaria	-	-	0	\$ 0	-	-	-	0	-	0	0.0%	0.50%	
Other	757	59,380	16,643	\$ 674,051	-	731	4,108	1,116	63	5,287	65.3%	0.00%	
GSGUK Total	\$ 2,446	\$ 91,122	\$ 73,911	\$ 2,175,137	-	\$ 1,457	\$ 5,848	\$ 2,135	\$ 111	\$ 8,094	100.0%	0.02%	
Norway	-	245	1	198	-	-	13	2	-	15	0.2%	1.00%	
Sweden	-	509	4	\$ 508	-	-	25	6	-	31	0.4%	0.00%	
Hong Kong	-	274	111	6,173	-	-	39	36	-	75	1.1%	1.00%	
Czech Republic	-	24	-	50	-	-	1	1	-	2	0.0%	0.50%	
Iceland	-	18	-	12	-	-	5	0	-	5	0.1%	0.00%	
Slovakia	-	31	-	5	-	-	1	0	-	1	0.0%	1.00%	
United Kingdom	824	20,031	55,887	1,488,394	-	-	920	737	-	1,657	24.5%	0.00%	
Lithuania	-	2	-	22	-	-	0	0	-	0	0.0%	0.00%	
Denmark	-	647	-	76	-	-	47	3	-	50	0.7%	0.00%	

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Ireland	-	1,186	1,032	1,135	-	-	93	156	-	249	3.7%	0.00%
France	-	4,791	40	4,513	-	-	155	63	-	218	3.2%	0.00%
Bulgaria	-	-	0	0	-	-	-	0	-	0	0.0%	0.50%
Other	-	53,619	16,619	674,051	-	-	3,357	1,114	-	4,471	66.0%	0.00%
GSI Total	\$ 824	\$ 81,377	\$ 73,694	\$ 2,175,137	-	-	\$ 4,656	\$ 2,118	-	\$ 6,774	100.0%	0.02%
Norway	-	0	-	-	-	-	0	-	-	0	0.0%	1.00%
Sweden	-	262	-	-	-	-	37	-	-	37	3.0%	0.00%
Hong Kong	-	1	-	-	-	-	0	-	-	0	0.0%	1.00%
Czech Republic	-	0	-	-	-	-	0	-	-	0	0.0%	0.50%
Iceland	-	-	-	-	-	-	-	-	-	-	0.0%	0.00%
Slovakia	-	-	-	-	-	-	-	-	-	-	0.0%	1.00%
United Kingdom	12	2,438	152	-	-	707	198	12	35	245	20.3%	0.00%
Lithuania	-	-	-	-	-	-	-	-	-	-	0.0%	0.00%
Denmark	-	3	-	-	-	-	1	-	-	1	0.1%	0.00%
Ireland	-	214	30	-	-	-	24	2	-	26	2.2%	0.00%
France	-	1,768	12	-	-	19	128	1	13	142	11.8%	0.00%
Bulgaria	-	-	-	-	-	-	-	-	-	-	0.0%	0.50%
Other	77	5,851	23	-	-	731	689	2	63	754	62.6%	0.00%
GSIB Total	\$ 89	\$ 10,537	\$ 217	-	-	\$ 1,457	\$ 1,077	\$ 17	\$ 111	\$ 1,205	100.0%	0.02%

1. The value of trading book exposures for both internal models and standard approach has been reported on a gross basis in line with the reporting requirements however does not form the basis for the capital calculation.

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Capital and MREL Instruments

The following table summarises the main features of capital and MREL instruments for GSGUK as of December 2020.

Table 47: GSGUK Capital and MREL Instruments' Main Features Template

<i>\$ in millions</i>	As of December 2020							
Issuer	GSGUK	GSGUK	GSGUK	GSGUK	GSGUK	GSGUK	GSGUK	GSGUK
Unique Identifier (e.g. CUSIP, ISIN, or Bloomberg identifier for private placement)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Public or private placement	Private placement	Private placement	Private placement	Private placement	Private placement	Private placement	N/A	N/A
Governing law(s) of the instrument	UK	UK	UK	UK	UK	UK	UK	UK
Contractual recognition of write down and conversion powers of resolution authorities	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transitional CRR rules	CET1	Additional Tier 1	Tier 2	Tier 2	Tier 2	Tier 2	Eligible Liability	Eligible Liability
Post-transitional CRR rules	CET1	Additional Tier 1	Tier 2	Tier 2	Tier 2	Tier 2	Eligible Liability	Eligible Liability
Eligible at solo/(sub-) consolidated/solo&(sub-) consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated
Instrument type	Ordinary Shares	Deeply Subordinated Undated Additional Tier 1 Notes	Preference Shares	Preference Shares	Subordinated Debt	Subordinated Debt	Senior debt	Senior debt
Amount recognised in regulatory capital	2,135	8,300	300	2,000	3,528	675	0	0
Nominal amount of instrument	2,135	3,000; 2,800; 2,500	300	2,000	3,528	675	13,076	3,400
Issue Price	2,135	\$1,000,000 per Note	\$1.00 per Preference Share	\$1.00 per Preference Share	3,528	675	13,076	3,400
Redemption Price	2,135	\$1,000,000 per Note	\$1.00 per Preference Share	\$1.00 per Preference Share	3,528	675	13,076	3,400
Accounting Classification	Shareholders' Equity	Shareholders' Equity	Amortised Cost	Amortised Cost	Amortised Cost	Amortised Cost	Amortised Cost	Amortised Cost
Original date of issuance ¹	Aug 20, 2013	June 27, 2017; June 28, 2017; November 28, 2018	June 27, 2018	July 11, 2019	Aug 1, 2005	Mar 20, 2013	Mar 6, 2012	Jan 21, 2020
Perpetual or dated	Perpetual	Perpetual	Dated	Dated	Dated	Dated	Dated	Dated
Original maturity date ²	No maturity	No maturity	July 11, 2029	July 11, 2029	Sep 9, 2030	Dec 26, 2029	Mar 6, 2022	Mar 19, 2030
Issuer call subject to prior supervisory approval	N/A	No	Yes	Yes	No	No	No	No
Option call date, contingent call dates and redemption amount	N/A	N/A	With notice and PRA approval but not earlier than five years from the issue date	With notice and PRA approval but not earlier than five years from the issue date	No	No	N/A	N/A
Subsequent call dates, if applicable	N/A	N/A	Daily	Daily	N/A	N/A	N/A	N/A
Fixed or floating dividend / coupon	N/A	Fixed	Floating	Floating	Floating	Floating	Floating	Floating
Coupon rate and any related index ³	N/A	8.55 per cent.; 8.55 per cent.; 8.67 per cent.	CoF + LTDS + 65 bps	CoF + LTDS + 65 bps	CoF + LTDS + 100bps	CoF + LTDS + 100bps	CoF + LTDS + 40bps	CoF + LTDS + 40bps
Existence of a dividend stopper	No	No	No	No	No	No	No	No
Fully discretionary, partially discretionary or mandatory (in terms of timing)	Fully Discretionary	Fully Discretionary	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory

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Fully discretionary, partially discretionary or mandatory (in terms of amount)	Fully Discretionary	Fully Discretionary	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory
Existence of step up or other incentive to redeem	N/A	N/A	No	No	N/A	N/A	No	No	
Noncumulative or cumulative	Non-cumulative	Non-cumulative	Cumulative	Cumulative	Cumulative	Cumulative	Cumulative	Cumulative	
Convertible or non-convertible	N/A	Non-convertible	Convertible	Convertible	Convertible	Convertible	Convertible	Convertible	
If convertible, conversion trigger(s)	N/A	N/A	Resolution trigger	Resolution trigger	Resolution trigger	Resolution trigger	Resolution trigger	Resolution trigger	
If convertible, fully or partially	N/A	N/A	Fully	Fully	Fully	Fully	Fully	Fully	
If convertible, conversion rate	N/A	N/A	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	
If convertible, mandatory or optional conversion	N/A	N/A	Optional	Optional	Optional	Optional	Optional	Optional	
If convertible, specify instrument type convertible into	N/A	N/A	Ordinary Shares	Ordinary Shares	Ordinary Shares	Ordinary Shares	Ordinary Shares	Ordinary Shares	
If convertible, specify issuer of instrument it converts to	N/A	N/A	GSGUKL	GSGUKL	GSGUKL	GSGUKL	GSGUKL	GSGUKL	
Write-down features	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
If write-down, write-down trigger(s)	N/A	Regulatory Trigger Event ⁴ and Resolution trigger	N/A	N/A	N/A	N/A	N/A	N/A	
If write-down, full or partial	N/A	Always fully (to \$0.01 per Note)	N/A	N/A	N/A	N/A	N/A	N/A	
If write-down, permanent or temporary	N/A	Permanent	N/A	N/A	N/A	N/A	N/A	N/A	
If temporary write-down, description of write-up mechanism	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Type of subordination (only for eligible liabilities)	N/A	N/A	N/A	N/A	N/A	N/A	Contractual	Contractual	
Ranking of the instrument in normal insolvency proceedings	Equity	Perpetual unsecured securities	Preference shares	Preference shares	Subordinated loan facility	Subordinated loan facility	Senior loan	Senior loan	
Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument)	Preference shares	Preference Shares	Unsecured and subordinated debt	Unsecured and subordinated debt	Unsecured and unsecured debt	Unsecured and unsecured debt	Unsecured and senior debt	Unsecured and senior debt	
Non-compliant transitioned features	No	No	No	No	No	No	No	No	
If yes, specify non-compliant features	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Link to the full term and conditions of the instrument (signposting) ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

1. First date of ordinary share issuance.

2. The original maturity date has been extended following amendment and the current maturity date is reflected in the table.

3. CoF represents Cost of Funds (the US Federal Reserve Funds Rate) and LTDS represents Long Term Debt Spread (the Goldman Sachs Weighted Average Cost of Debt).

4. Regulatory Trigger Event will be deemed to have occurred at any time where: (i) the CET1 Ratio of the GSGUKL and its consolidated subsidiaries as calculated by GSGUKL or the PRA is less than 7 per cent.; and or (ii) the CET1 Ratio of GSI as calculated by GSGUKL or the PRA is less than 7 per cent.

5. Instruments are internally issued as such no prospectus is available.

Pillar 3 Disclosures**Key Changes during the Period**

On 21 September 2020, Goldman Sachs (UK) LLC transferred by novation its rights and obligations under the (i) US\$22,000,000,000 senior loan agreement originally dated 6 March 2012 with GSGUK as borrower, (ii) U.S.\$1,125,000,000 subordinated loan agreement originally dated 20 March 2013 with GSGUK as borrower, and (iii) US\$16,875,000,000 subordinated loan agreement originally dated 1 August 2005 with GSGUK as borrower ((ii) and (iii) together, the “Subordinated and Senior Debt Instruments”) to Goldman Sachs UK Funding Limited, a wholly owned subsidiary of Goldman Sachs (UK) LLC. At the same time, the Subordinated and Senior Debt Instruments were amended to extend their maturity, in each case by five years.

On 21 September 2020, the maturity dates of the (i) US\$16,875,000,000 subordinated loan agreement originally dated 5 August 2003 with GSI as borrower, (ii) US\$450,000,000 subordinated loan agreement originally dated 20 March 2013 with GSI as borrower, (iii) \$675,000,000 subordinated loan agreement originally dated 20 March 2013 with GSI as borrower and (iv) \$US2,000,000,000 subordinated loan agreement originally dated 9 September 2015 with GSIB as borrower were extended, in each case by five years.

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The following table summarises the main features of capital instruments for GSI and GSIB as of December 2020.

Table 48: GSI and GSIB Capital Instruments' Main Features Template

<i>\$ in millions</i>							As of December 2020	
Issuer	GSI	GSI	GSI	GSI	GSI	GSIB	GSIB	
Unique Identifier (e.g. CUSIP, ISIN, or Bloomberg identifier for private placement)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Public or private placement	Private placement	Private placement	Private placement	Private placement	Private placement	Private placement	Private placement	
Governing law(s) of the instrument	UK	UK	UK	UK	UK	UK	UK	
Contractual recognition of write down and conversion powers of resolution authorities	No	No	No	No	No	No	No	
Transitional CRR rules	CET1	Additional Tier 1	Tier 2	Tier 2	Tier 2	CET1	Tier 2	
Post-transitional CRR rules	CET1	Additional Tier 1	Tier 2	Tier 2	Tier 2	CET1	Tier 2	
Eligible at solo/(sub-) consolidated/solo&(sub-) consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated	Consolidated	
Instrument type	Ordinary Shares	Deeply Subordinated Undated Additional Tier 1 Notes	Sub-ordinated Debt	Sub-ordinated Debt	Sub-ordinated Debt	Ordinary Shares	Sub-ordinated Debt	
Amount recognised in regulatory capital	598	8,300	4,252	675	450	63	826	
Nominal amount of instrument	598	3,300; 2,500; 2,500	4,252	675	450	63	826	
Issue Price	598	\$1,000,000 per Note	4,252	675	450	63	826	
Redemption Price	598	\$1,000,000 per Note	4,252	675	450	63	826	
Accounting Classification	Shareholder's Equity	Shareholder's Equity	Amortised Cost	Amortised Cost	Amortised Cost	Shareholder's Equity	Amortised Cost	
Original date of issuance ¹	May 18, 1988	June 27, 2017; June 28, 2017; 28 November, 2018	July 31, 2003	June 26, 2012	Mar 20, 2013	Jun 28, 1973	Sep 9, 2015	
Perpetual or dated	Perpetual	Perpetual	Dated	Dated	Dated	Perpetual	Dated	
Original maturity date ²	No maturity	No maturity	Sep 9, 2030	Dec 26, 2029	Dec 26, 2029	No maturity	15 years from agreement	
Issuer call subject to prior supervisory approval	N/A	No	N/A	N/A	N/A	N/A	N/A	
Option call date, contingent call dates and redemption amount	N/A	N/A	No	No	No	N/A	No	
Subsequent call dates, if applicable	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Fixed or floating dividend / coupon	N/A	Fixed	Floating	Floating	Floating	N/A	Floating	
Coupon rate and any related index ³	N/A	8.55 per cent.; 8.55 per cent.; 8.67 per cent.	CoF + LTDS + 100bps	CoF + LTDS + 100bps	CoF + LTDS + 100bps	N/A	CoF + 341bps	
Existence of a dividend stopper	No	No	No	No	No	No	No	
Fully discretionary, partially discretionary or mandatory (in terms of timing)	Fully discretionary	Fully Discretionary	Mandatory	Mandatory	Mandatory	Fully discretionary	Mandatory	
Fully discretionary, partially discretionary or mandatory (in terms of amount)	Fully discretionary	Fully Discretionary	Mandatory	Mandatory	Mandatory	Fully discretionary	Mandatory	
Existence of step up or other incentive to redeem	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Noncumulative or cumulative	Non-cumulative	Non-cumulative	Cumulative	Cumulative	Cumulative	Non-cumulative	Cumulative
Convertible or non-convertible	N/A	Non-Convertible	Convertible	Convertible	Convertible	N/A	Non-Convertible
If convertible, conversion trigger(s)	N/A	N/A	Resolution trigger	Resolution trigger	Resolution trigger	N/A	N/A
If convertible, fully or partially	N/A	Non-convertible	Fully	Fully	Fully	N/A	N/A
If convertible, conversion rate	N/A	N/A	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	Conversion rate to be determined by the BoE	N/A	N/A
If convertible, mandatory or optional conversion	N/A	N/A	Optional	Optional	Optional	N/A	N/A
If convertible, specify instrument type convertible into	N/A	N/A	Ordinary Shares	Ordinary Shares	Ordinary Shares	N/A	N/A
If convertible, specify issuer of instrument it converts to	N/A	N/A	GSI	GSI	GSI	N/A	N/A
Write-down features	N/A	Yes	N/A	N/A	N/A	N/A	N/A
If write-down, write-down trigger(s)	N/A	Regulatory Trigger Event ¹ and Resolution trigger	N/A	N/A	N/A	N/A	N/A
If write-down, full or partial	N/A	Always fully (to \$0.01 per Note)	N/A	N/A	N/A	N/A	N/A
If write-down, permanent or temporary	N/A	Permanent	N/A	N/A	N/A	N/A	N/A
If temporary write-down, description of write-up mechanism	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Type of subordination (only for eligible liabilities)	N/A	Contractual	Contractual	Contractual	Contractual	N/A	Contractual
Ranking of the instrument in normal insolvency proceedings	Equity	Perpetual unsecured securities	Subordinated loan facility	Subordinated loan facility	Subordinated loan facility	Equity	Subordinated loan facility
Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument)	Preference shares	Preference Shares	Unsecured and unsubordinated debt	Unsecured and unsubordinated debt	Unsecured and unsubordinated debt	Preference shares	Unsecured and unsubordinated debt
Non-compliant transitioned features	No	No	No	No	No	No	No
If yes, specify non-compliant features	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Link to the full term and conditions of the instrument (signposting) ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A

1. First date of ordinary share issuance.

2. The original maturity date has been extended following amendment and the current maturity date is reflected in the table.

3. CoF represents Cost of Funds (the US Federal Reserve Funds Rate) and LTDS represents Long Term Debt Spread (the Goldman Sachs Weighted Average Cost of Debt).

4. Regulatory Trigger Event will be deemed to have occurred at any time where: (i) the CET1 Ratio of the GSGUKL and its consolidated subsidiaries as calculated by GSGUKL or the PRA is less than 7 per cent.; and or (ii) the CET1 Ratio of GSI as calculated by GSGUKL or the PRA is less than 7 per cent.

5. Instruments are internally issued as such no prospectus is available.

Governance Arrangements

Directors of GSI and GSIB are selected based primarily on the following criteria: (i) judgement, character, expertise, skills and knowledge useful to the oversight of the companies' businesses; (ii) diversity of viewpoints, backgrounds, experiences, and other demographics; (iii) business or other relevant experience; and (iv) the extent to which the interplay of the candidate's expertise, skills, knowledge and experience with that of other Board members will build a Board that is effective, collegial and responsive to the needs of the companies.

In selecting new directors, we consider a number of factors in seeking to develop a Board that, as a whole, reflects a range of skills, diversity, experience and expertise. It is our aim that at least 40% of the members of the Boards of the regulated entities in our UK group are women.

As of December 31, 2020, 41.67% of the members of the Boards of GSI, GSIB and GSAMI were women.

We have set out below the biographies of the members of the Boards of Directors of GSI and GSIB as of December 31, 2020, together with the positions and number of directorships they held at that date, including those at Goldman Sachs. We have excluded appointments held with organisations which do not pursue predominantly commercial objectives, such as charitable, educational and religious community organisations and counted directorships held within the same group as a single directorship in accordance with the PRA's General Organisational Requirements at 5.4-5.6 and the FCA's Senior Management Arrangements, Systems and Controls (SYSC) handbook at 4.3A.5-7.

Table 49: GSI Board of Directors

Name	Role	Background	Directorships
J. M. D. Barroso	Non-executive director and chair	José Manuel joined the GSI Board of Directors in July 2016 as chair and a non-executive director, and also acts as an advisor to the firm. He is also a member of the GSI Board Nominations Committee. He served as President of the European Commission from 2004 to 2014 and as the Prime Minister of Portugal from 2002 to 2004, having been elected to the Portuguese Parliament in 1985 and having held various ministerial positions. From January 1, 2021 he will be the chair of the board of Gavi, the Vaccine Alliance. José Manuel has a number of academic positions and has received various honorary degrees, prizes and decorations. On behalf of the European Union, José Manuel received the Nobel Peace Prize in 2012. José Manuel graduated in Law from the University of Lisbon and earned an MA in Political Science and a diploma in European studies from the University of Geneva.	1
S. A. Boyle	Executive director	Sally was appointed as a director of GSI in July 2018. Sally is an advisory director to GSI, having recently retired as international head of Human Capital Management (HCM) a position she had held since 2015. Sally is also a member of the Supervisory Boards of Goldman Sachs Bank Europe SE, Goldman Sachs Group Europe SE and Goldman Sachs Europe SE. Sally joined Goldman Sachs in 1999, before which she was a partner at Mills & Reeve Solicitors. Sally is also a non-executive director of the Royal Air Force.	1
C. G. Cripps	Non-executive director	Catherine joined the GSI Board of Directors in April 2019 and is a member of the GSI Board Risk Committee ¹ . Catherine was formerly an Investment Director at GAM, the CEO of a multi-strategy fund of Aida Capital Limited and has held various positions in equity derivatives trading, risk management and product control at different investment banks. Catherine also serves as a non-executive director at CQS Management Ltd and the Nuclear Liabilities Fund Ltd, and until September 2020, at Merian Global Investors Ltd. Alongside her role at the Nuclear Liabilities Fund Ltd, she is a trustee of The Nuclear Trust. Catherine earned an MA in Physics from Oxford University and has recently completed a period of post graduate research in Quantum Information at Imperial College, London.	2
R. J. Gnodde	Executive director and chief executive officer	Richard is chief executive officer of GSI having joined the GSI Board in October 2006. He has been a member of the Firmwide Management Committee since 2003 and is also chair of the European Management Committee and a member of the Firmwide Reputational Risk Committee. Richard joined Goldman Sachs in 1987. Richard serves as a trustee of the University of Cape Town Trust and is on the Campaign Board of Cambridge University. Richard earned a BA from the University of Cape Town and an MA from Cambridge University.	1
Lord Grabiner QC ²	Non-executive director	Anthony Grabiner joined the GSI Board of Directors in June 2015 and is chair of the GSI Board Remuneration and Nominations Committees and a member of the GSI Board Audit Committee. He is an experienced commercial barrister and QC and Head of Chambers at One Essex Court in the Temple, and also sits as a Deputy High Court Judge. He became a life peer in 1999 and has sat on a number of UK Parliamentary Committees in the House of Lords. Lord Grabiner also serves as non-executive director and President of The University of Law Limited and as the Master of Clare College, Cambridge University. Lord Grabiner has a LLB and LLM from the London School of Economics.	2

¹ As of 1 June 2021, Catherine is the acting chair of the GSI Board Risk Committee, pending regulatory approval, and a member of the GSI Board Audit Committee

² Lord Grabiner retired from the Board of GSI on 31 May 2021

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S. Gyimah	Non-executive director	Sam Gyimah joined the GSI Board of Directors in November 2020 ³ . Sam was formerly the Member of Parliament for East Surrey from 2010 through to 2019. During this time, Sam served in a number of ministerial positions including joint Minister for Higher Education, Innovation, Technology and Research at the Department for Business, Energy and Industrial Strategy and the Department for Education in 2018, as well as Parliamentary Under Secretary of State at the Ministry of Justice between 2016 and 2018. Sam has also served as a government whip and as Parliamentary Private Secretary to Prime Minister David Cameron, attending Cabinet. Sam is also a non-executive director of Oxford University Innovation and has held a number of advisory roles including as a senior advisor to Pension Bee. Sam earned an MA in Philosophy, Politics and Economics from the University of Oxford.	2
N. Harman	Non-executive director	Nigel joined the GSI Board of Directors in December 2016 and is chair of the GSI Board Audit Committee and a member of the GSI Board Risk Committee. He was formerly a partner at KPMG, acting in a number of roles including Chairman of UK Banking, Head of Banking and Head of Financial Risk Management. Nigel earned a BSc (Hons) in Economics and Accountancy from Bristol University. He is also a fellow of the Institute of Chartered Accountants.	1
D. W. McDonogh	Executive director	Dermot joined the GSI Board of Directors in December 2016 and is chief operating officer for EMEA. He is also the Chair of the Supervisory Boards of Goldman Sachs Bank Europe SE, Goldman Sachs Group Europe SE and Goldman Sachs Europe SE and, since August 2019, a non-executive director of Goldman Sachs Bank USA. He serves on a number of the firm's committees including the European Management Committee, Firmwide Enterprise Risk Committee, Firmwide Risk Committee, Firmwide Conduct Committee and the Firmwide Asset Liability Committee. Additionally, Dermot co-chairs the GSI Risk Committee and the EMEA Conduct Committee. He joined Goldman Sachs in 1994. Dermot earned a degree in Finance from the University of Limerick in Ireland.	1
T. L. Miller OBE	Non-executive director	Therese ("Terry") Miller joined the GSI Board of Directors in July 2018 and is chair of the GSI Board Risk Committee and a member of the GSI Board Audit Committee ⁴ . She served as general counsel for the London Organising Committee of the Olympic Games and Paralympic Games ("LOCOG") from 2006 to 2013 and as a director of the organizing committee for the 2014 Invictus Games. Prior to joining LOCOG, Terry was the International General Counsel of GSI. She is a non-executive director of Rothesay Life plc and the senior independent director of Galliford Try Holdings plc, as well as a trustee of the Invictus Games Foundation until December 2018. She was appointed an Officer of the Order of the British Empire for her services to the London 2012 Games.	3
E. E. Stecher	Non-executive director	Esta joined the GSI Board of Directors in July 2018 and is a member of the GSI Remuneration Committee. She also chairs the Goldman Sachs Bank USA Board of Directors and is the Deputy Chair of the Supervisory Boards of Goldman Sachs Bank Europe SE, Goldman Sachs Group Europe SE and Goldman Sachs Europe SE, and a director of the Goldman Sachs Philanthropy Fund. She is chair of the Consent Order Oversight Sub-Committee and a member of the Firmwide Reputational Risk Committee and Firmwide Enterprise Risk Committee. Esta is a trustee emeritus of Columbia University and remains involved in other roles at Columbia University. Esta joined Goldman Sachs in 1994, prior to which she was a partner at Sullivan & Cromwell. Esta earned a BA from the University of Minnesota and a JD from Columbia Law School.	1
M. O. Winkelman	Non-executive director	Mark joined the GSI Board of Directors in June 2016 and is a member of the GSI Board Risk and Remuneration Committees. He has also served as a non-executive director of The Goldman Sachs Group, Inc. since December 2014 and is chair of The Goldman Sachs Group, Inc. Risk Committee and a member of its Audit and Governance Committees. Mark previously held a number of senior roles at Goldman Sachs between 1978 and 1994, including as a member of the Management Committee, co-head of the Fixed Income Division and head of the J. Aron Division. Mark is also a trustee emeritus of the Board of Penn Medicine of the University of Pennsylvania.	1

Table 50: GSIB Board of Directors

Name	Role	Background	Directorships
D. C. M. Bicarregui	Executive director	David joined the GSIB Board of Directors in December 2016 and is the chief financial officer of GSIB and the firm's international treasurer, head of global liquidity management. He serves on a number of the firm's Asset and Liability Committees including as co-chair of the GSI, GSIB, Goldman Sachs Europe SE and Goldman Sachs Bank Europe SE Committees and as a member on the Firmwide Committee. He is also a member of the Firmwide New Activity Committee, Structured Products Committee, GSIB Management Committee, GSI and GSIB Risk Committees and the Internal Reorganization, Trade and Transaction Subcommittee. David joined Goldman Sachs in 1997. He serves on the board of St. George's College in Weybridge. David earned a BA (Hons) in Economics and Politics from Exeter University and an MBA from Columbia University and London Business School.	2
C. G. Cripps	Non-executive director	Catherine joined the GSIB Board of Directors in April 2019 and is a member of the GSIB Board Risk Committee ⁵ . Catherine was formerly an Investment Director at GAM, the CEO of a multi-strategy fund of Aida Capital Limited and has held various positions in equity derivatives trading, risk management and product control at different investment banks. Catherine also serves as a non-executive director at CQS Management Ltd and, the Nuclear Liabilities Fund Ltd, and until September 2020, at Merian Global Investors Ltd. Alongside her role at the Nuclear Liabilities Fund Ltd, she is a trustee of The Nuclear Trust. Catherine earned a MA in	2

³ As of 1 June 2021, Sam is a member of the GSI Board Audit Committee

⁴ As of 1 June 2021, Terry is the acting chair of the GSI Board Remuneration and Nominations Committees, pending regulatory approval, and a member of the GSI Board Risk Committee, having stepped down as a member of the GSI Board Audit Committee

⁵ As of 1 June 2021, Catherine is the acting chair of the GSIB Board Risk Committee, pending regulatory approval, and a member of the GSIB Board Audit Committee

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		Physics from Oxford University and has recently completed a period of post graduate research in Quantum Information at Imperial College, London.	
Lord Grabiner QC ⁶	Non-executive director	Anthony Grabiner joined the GSIB Board of Directors in March 2016 and is chair of the GSIB Board Remuneration and Nominations Committees and a member of the GSIB Board Audit Committee. He is an experienced commercial barrister and QC, and Head of Chambers at One Essex Court in the Temple, and also sits as a Deputy High Court Judge. He became a life peer in 1999 and has sat on a number of UK Parliamentary Committees in the House of Lords. Lord Grabiner also serves as non-executive director and President of The University of Law Limited and is the Master of Clare College, Cambridge University. Lord Grabiner has a LLB and LLM from the London School of Economics.	2
S. Gyimah	Non-executive director	Sam Gyimah joined the GSIB Board of Directors in November 2020 ⁷ . Sam was formerly the Member of Parliament for East Surrey from 2010 through to 2019. During this time, Sam served in a number of ministerial positions including joint Minister for Higher Education, Innovation, Technology and Research at the Department for Business, Energy and Industrial Strategy and the Department for Education in 2018, as well as Parliamentary Under Secretary of State at the Ministry of Justice between 2016 and 2018. Sam has also served as a government whip and as Parliamentary Private Secretary to Prime Minister David Cameron, attending Cabinet. Sam is also a non-executive director of Oxford University Innovation and has held a number of advisory roles including as a senior advisor to Pension Bee. Sam earned an MA in Philosophy, Politics and Economics from the University of Oxford.	2
N. Harman	Non-executive director	Nigel joined the GSIB Board of Directors in December 2016 and is chair of the GSIB Board Audit Committee and a member of the GSIB Board Risk Committee. He was formerly a partner at KPMG, acting in a number of roles including Chairman of UK Banking, Head of Banking and Head of Financial Risk Management. Nigel earned a BSc (Hons) in Economics and Accountancy from Bristol University. He is also a fellow of the Institute of Chartered Accountants.	1
D. W. McDonogh	Executive director and chief executive officer	Dermot is chief executive officer of GSIB having joined the GSIB Board in February 2009 and is chief operating officer for EMEA. He is also the Chair of the Supervisory Boards of Goldman Sachs Bank Europe SE, Goldman Sachs Group Europe SE and Goldman Sachs Europe SE and, since August 2019, a non-executive director of Goldman Sachs Bank USA. He serves on a number of the firm's committees including the European Management Committee, Firmwide Enterprise Risk Committee, Firmwide Risk Committee, Firmwide Conduct Committee and the Firmwide Asset Liability Committee. Additionally, Dermot chairs the GSIB Management Committee and co-chairs the GSIB Risk Committee and the EMEA Conduct Committee. He joined Goldman Sachs in 1994. Dermot earned a degree in Finance from the University of Limerick in Ireland.	1
T. L. Miller OBE	Non-executive director	Therese ("Terry") Miller joined the GSIB Board of Directors in August 2015 and is chair of the GSIB Board Risk Committee and a member of the GSIB Board Audit Committee ⁸ . She served as general counsel for the London Organising Committee of the Olympic Games and Paralympic Games ("LOCOG") from 2006 to 2013 and as a director of the organizing committee for the 2014 Invictus Games. Prior to joining LOCOG, Terry was the International General Counsel of GSI. She is a non-executive director of Rothesay Life plc and the senior independent director of Galliford Try Holdings plc, as well as a trustee of the Invictus Games Foundation until December 2018. She was appointed an Officer of the Order of the British Empire for her services to the London 2012 Games.	3
E. E. Stecher	Non-executive director and chair	Esta joined the GSIB Board of Directors in July 2011 and was appointed chair in October 2016. She is a member of the GSIB Board Nominations and Remuneration Committees. She also chairs the Goldman Sachs Bank USA Board of Directors and is the Deputy Chair of the Supervisory Boards of Goldman Sachs Bank Europe SE, Goldman Sachs Group Europe SE and Goldman Sachs Europe SE, and a director of the Goldman Sachs Philanthropy Fund. She is chair of the Consent Order Oversight Sub-Committee and a member of the Firmwide Reputational Risk Committee and Firmwide Enterprise Risk Committee. Esta is a trustee emeritus of Columbia University and remains involved in other roles at Columbia University. Esta joined Goldman Sachs in 1994, prior to which she was a partner at Sullivan & Cromwell. Esta earned a BA from the University of Minnesota and a JD from Columbia Law School.	1
D. D. Wildermuth	Non-executive director	David joined the GSIB Board of Directors in March 2012 and is a member of the GSIB Board Risk Committee. He is the firm's deputy risk officer with oversight for credit risk, debt underwriting, enterprise risk and liquidity risk. David serves as chair of the Allowance for Loan and Leases Losses Committee and the Firmwide Model Risk Control Committee and co-chair of the Firmwide Operational Risk and Resilience Committee and Global Markets Investment Committee. He is also a member of various other Firmwide committees including the Risk, Enterprise Risk and Risk Governance Committees. David joined Goldman Sachs in 1997. He also serves on the Board of Trustees of the East Harlem Scholars Academy. David earned a AB in Computer Science and Economics from Dartmouth College.	1

⁶ Lord Grabiner retired from the Board of GSIB on 31 May 2021

⁷ As of 1 June 2021, Sam is a member of the GSIB Board Audit Committee

⁸ As of 1 June 2021, Terry is the acting chair of the GSIB Board Remuneration and Nominations Committees, pending regulatory approval, and a member of the GSIB Board Risk Committee, having stepped down as a member of the GSIB Board Audit Committee

UK Remuneration Disclosures

Introduction

The following disclosures are made by Goldman Sachs Group UK Limited in accordance with Article 450 of the EU Capital Requirements Regulation No. 575/2013 (“CRR”) in respect of Goldman Sachs International (“GSI”) and Goldman Sachs International Bank (“GSIB”) and in accordance with the Prudential Sourcebooks of the Financial Conduct Authority (“FCA”) in respect of Goldman Sachs Asset Management International (together, the “UK Companies”¹).

Remuneration Programme Philosophy

Retention of talented employees is critical to executing the firm’s business strategy successfully. Remuneration is, therefore, a key component of the costs the firm incurs to generate revenues, similar to cost of goods sold or manufacturing costs in other industries.

The remuneration philosophy and the objectives of the remuneration programme for the firm are reflected in the Compensation Principles for The Goldman Sachs Group, Inc. (“GS Group”), as posted on the Goldman Sachs public website:

<http://www.goldmansachs.com/investor-relations/corporate-governance/corporate-governance-documents/compensation-principles.pdf>

The firm’s Compensation Principles were approved by shareholders at the 2010 annual shareholders’ meeting. In particular, effective remuneration practices should:

- (i) Encourage a real sense of teamwork and communication, binding individual short-term interests to the institution’s long-term interests;
- (ii) Evaluate performance on a multi-year basis;
- (iii) Discourage excessive or concentrated risk-taking;
- (iv) Allow an institution to attract and retain proven talent; and
- (v) Align aggregate remuneration for the firm with performance over the cycle.

Remuneration Governance

The Compensation Committee

The Board of Directors of GS Group (the “Board”) oversees the development, implementation and effectiveness of the firm’s global remuneration practices, which it generally exercises directly or through delegation to the Compensation Committee of the Board (the “Compensation Committee”). The responsibilities of the Compensation Committee include:

- Review and approval of (or recommendation to the Board to approve) the firm’s variable remuneration structure, including the portion to be paid as equity-based awards, all year-end equity-based grants for eligible employees (including those employed by the UK Companies), and the terms and conditions of such awards.
- Assisting the Board in its oversight of the development, implementation and effectiveness of policies and strategies relating to the Human Capital Management (“HCM”) function, including recruiting, retention, career development and progression, management succession (other than that within the purview of the Corporate Governance and Nominating Committee) and diversity.

The Compensation Committee held 8 meetings in 2020 to discuss and make determinations regarding remuneration.

The members of the Compensation Committee at the end of 2020 were M. Michele Burns (Chair), Drew G. Faust, Ellen J. Kullman, Lakshmi N. Mittal and Adebayo O. Ogunlesi (ex-officio). None of the members of the Compensation Committee was an employee of the firm. All members of the Compensation Committee were “independent” within the meaning of the New York Stock Exchange Rules and the GS Group Board Policy on Director Independence.

The Remuneration Committees

The responsibilities of the Board Remuneration Committees of GSI and GSIB (the “Remuneration Committees”) include:

¹ These disclosures include any employees assigned from time to time to Goldman Sachs Bank (USA) London branch.

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- Overseeing the development and implementation of the remuneration policies of GSI and GSIB insofar as they relate to employees of GSI and GSIB whose remuneration is subject to the relevant provisions of the Prudential Regulation Authority (“PRA”) Rulebook or FCA Handbook.
- To take steps to satisfy itself that the remuneration policies of GSI and GSIB are in accordance with the relevant provisions of the PRA Rulebook and FCA Handbook (“Remuneration Code”), including in particular that:
 - the remuneration policies of GSI and GSIB appropriately take into account the long-term interests of shareholders, investors and other stakeholders in GSI and GSIB; and
 - the remuneration policies of GSI and GSIB are consistent with and promote sound and effective risk management and do not encourage risk-taking that exceeds the level of tolerated risk of GSI and GSIB.
- Making recommendations to the Boards of GSI and GSIB for approval and adoption of the remuneration policies of GSI and GSIB once satisfied that the policies are in accordance with the Remuneration Code.

The Remuneration Committees held 7 meetings in 2020 to discuss and make determinations regarding the remuneration policies of GSI and GSIB.

At the end of 2020:

- the members of the GSI Board Remuneration Committee were Lord Anthony S. Grabiner QC (Chair), Mark O. Winkelman and Esta Stecher;
- the members of the GSIB Board Remuneration Committee were Lord Anthony S. Grabiner QC (Chair) and Esta Stecher; and
- none of the members of the Remuneration Committees was an employee of the UK Companies.

Other Stakeholders

In carrying out the responsibilities of the Compensation Committee, the Chair of the Compensation Committee met multiple times with senior management during the year, including the firm’s Chief Operating Officer (“COO”), the Global Head of HCM and other members of senior management.

The firm’s Chief Risk Officer (“CRO”) presented an annual

compensation-related risk assessment to the Compensation Committee, meeting jointly with the Risk Committee of the GS Board, to assist the Compensation Committee in its assessment of the effectiveness of the firm’s remuneration programme, and particularly, whether the programme is consistent with the principle that variable remuneration does not encourage employees to expose the firm to imprudent risk. This assessment most recently occurred in December 2020.

GS Group’s CRO and the CRO for GSI and GSIB also provided a compensation-related risk assessment to the Remuneration Committees.

In addition, the firm’s EMEA Conduct Committee assists senior management of the UK Companies in the oversight of conduct risk and business standards.

External Consultants

The Compensation Committee recognises the importance of using a remuneration consultant that is appropriately qualified and is determined to be independent.

For 2020, the Compensation Committee commissioned the advice of FW Cook who reviewed the Performance Assessment Framework (see below), as well as on other remuneration matters.

Global Remuneration Determination Process

The firm’s global process for setting variable remuneration (including the requirement to consider risk and compliance issues) applies to employees of the UK Companies in the same way as to employees in other regions and is subject to oversight by the senior management of the firm in the region. The firm uses a highly disciplined and robust process for setting variable remuneration across all divisions and regions.

The process involves divisional compensation managers, divisional compensation committees, division heads, HCM, the Firmwide Management Committee (the firm’s most senior leaders), as appropriate. In addition, as part of the remuneration determination process, members of the firm’s Compliance, Risk, Employment Law Group and Employee Relations functions make arrangements for divisional management to take into consideration certain compliance, risk or control matters when determining remuneration of individuals. Before any individual remuneration decisions are finalised, Employee Relations and the Employment Law Group assess the recommended remuneration for relevant individuals in the context of overall performance and other factors, and recommendations are reviewed with respect to

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comparators.

Additionally, the Remuneration Committees oversee the development and implementation of the remuneration policies of GSI and GSIB, and review remuneration-related information during the year, including an annual compensation-related risk assessment, an overview of the firm's remuneration programme and structure, and certain remuneration data.

Link Between Pay and Performance

In 2020, annual remuneration for employees generally comprised fixed remuneration (including base salary) and variable remuneration. The firm's remuneration practices provide for variable remuneration determinations to be made on a discretionary basis. Variable remuneration is based on multiple factors and is not set as a fixed percentage of revenue or by reference to any other formula. Firmwide performance is a key factor in determining variable remuneration.

The firm is committed to aligning variable remuneration with performance. In order to do so, the performance of the firm, division and individual over the past year, as well as over prior years, are taken into account. The firm believes that the firm's senior leaders have responsibility for overall performance and, as a result, senior employees have experienced more volatility in their remuneration year-over-year, particularly in periods when the firm's performance declined significantly.

The firm believes that multi-year guarantees should be avoided as they risk misaligning remuneration and performance, and guaranteed variable remuneration should be awarded in exceptional circumstances only (for example, for certain new hires).

Performance Measurement

Variable remuneration determinations take into account firm, division, business unit, desk and individual performance, as applicable.

Firmwide performance

Certain firmwide financial metrics and year-on-year changes in those metrics are reviewed, including the following:

- Return on average common shareholders' equity;
- Diluted earnings per common share;
- Book value per share;
- Net revenues

Divisional performance

Additionally, each revenue-producing division has quantitative and/or qualitative metrics specific to the division, its business units and, where applicable, desks that are used to evaluate the performance of the division and its employees.

Individual performance

Employees are evaluated annually as part of the performance review feedback process. This process reflects input from a number of employees, including supervisors, peers and those who are junior to the employee, regarding an array of performance measures. The performance evaluations for 2020 included assessments of Teamwork and Collaboration (One GS); Compliance, Risk Management, Code of Conduct, and Firm Reputation; Sensitivity to Risk and Control (revenue-producing employees); Control Side Empowerment (control functions); and Culture.

Performance Assessment Framework

The Performance Assessment Framework, which guided the Compensation Committee's process for 2020, aligns performance metrics and goals across the firm's most senior leaders, and helps to ensure that the remuneration programme for the Firmwide Management Committee continues to be appropriately aligned with the firm's long-term strategy, stakeholder expectations and the safety and soundness of the Firm.

Risk Adjustment

Prudent risk management is a hallmark of the firm's culture and sensitivity to risk and risk management are key elements in assessing employee performance, including as part of the performance review feedback process noted above.

The firm takes risk, including conduct risk, into account both on an ex-ante and ex-post basis when setting the amount and form of variable remuneration for employees. Different lines of business have different risk profiles and these are taken into account when determining remuneration. These include credit, market, liquidity, operational, reputational, legal, compliance and conduct risks. Guidelines are provided to assist compensation managers when applying discretion during the remuneration process to promote consistent consideration of the different risks presented by the firm's businesses. Further, to ensure the independence of control function employees, remuneration for those employees is not determined by individuals in revenue-producing positions but rather by the management of the relevant control function.

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Consistent with prior years, for 2020 certain employees receive a portion of their variable remuneration as an equity-based award that is subject to a number of terms and conditions that could result in forfeiture or recapture. For further details, see “Structure of Remuneration” below.

In the 2020 annual compensation-related risk assessment presented to the Compensation Committee, meeting jointly with the Risk Committee of the GS Board, and separately to the Remuneration Committees, the CRO confirmed that the various components of the firm’s remuneration programmes and policies (for example, process, structure and governance) balanced risk and incentives in a manner that does not encourage imprudent risk-taking. In addition, the CRO stated that the firm has a risk management process that, among other things, is consistent with the safety and soundness of the firm and focuses on our:

- (i) *Risk management culture*: the firm’s culture emphasises continuous and prudent risk management
- (ii) *Risk-taking authority*: there is a formal process for identifying employees who, individually or as part of a group, have the ability to expose the firm to material amounts of risk
- (iii) *Upfront risk management*: the firm has tight controls on the allocation, utilisation and overall management of risk-taking, as well as comprehensive profit and loss and other management information which provide ongoing performance feedback. In addition, in determining variable remuneration, the firm reviews performance metrics that incorporate ex-ante risk adjustments; and
- (iv) *Governance*: the oversight of the GS Group Board, management structure and the associated processes all contribute to a strong control environment and control functions have input into remuneration structure and design

Structure of Remuneration

In accordance with a resolution of the shareholders of Goldman Sachs Group UK Limited, the variable component of remuneration paid to certain employees identified under Article 94(2) of Directive 2013/36/EU as “Material Risk Taker” of GSI and GSIB shall not exceed 200% of the fixed component.

Fixed Remuneration

The firm has a global salary approach to ensure consistency in salary levels and to achieve an appropriate balance between fixed and variable remuneration.

For certain employees identified as Material Risk Takers in

accordance with Commission Delegated Regulation with regard to regulatory technical standards on criteria to identify categories of staff whose professional activities have a material impact on an institution’s risk profile under Article 94(2) of Directive 2013/36/EU, additional fixed remuneration is awarded in the form of an allowance generally paid in cash. The selection of recipients and the value of allowances awarded are determined as a result of an evaluation of professional experience, role and level of organisational responsibility.

Variable Remuneration

For employees with total remuneration and variable remuneration above specific thresholds, variable remuneration is generally paid in a combination of cash and equity-based remuneration. In general, the portion paid in the form of an equity-based award increases as variable remuneration increases and, for Material Risk Takers, is set to ensure compliance with the applicable rules of the Remuneration Code.

The variable remuneration programme is flexible to allow the firm to respond to changes in market conditions and to maintain its pay-for-performance approach. Variable remuneration is discretionary (even if paid consistently over a period of years).

Equity-Based Remuneration

The firm believes that remuneration should encourage a long-term, firmwide approach to performance and discourage imprudent risk-taking. Paying a significant portion of variable remuneration in the form of equity-based remuneration that delivers over time, changes in value according to the price of shares of common stock (shares) of GS Group, and is subject to forfeiture or recapture encourages a long-term, firmwide focus because its value is realised through long-term responsible behaviour and the financial performance of the firm.

The firm imposes transfer restrictions, retention requirements, and anti-hedging policies to further align the interests of the firm’s employees with those of the firm’s shareholders. The firm’s retention and transfer restriction policies, coupled with the practice of paying senior employees a significant portion of variable remuneration in the form of equity-based awards, leads to a considerable investment in shares of GS Group over time. For equity-based awards granted to certain employees, performance conditions may also be applicable.

In addition, from time to time, the firm may make awards consisting of unfunded, unsecured promises to deliver other

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instruments on terms and conditions that are substantially similar to those applicable to Restricted Stock Units (“RSUs”) described below.

- **Deferral Policy:** The deferred portion of fiscal year 2020 annual variable remuneration was generally awarded in the form of RSUs. An RSU is an unfunded, unsecured promise to deliver a share on a predetermined date. RSUs awarded in respect of fiscal year 2020 generally deliver in three equal instalments on or about each of the first, second and third anniversaries of the grant date, assuming the employee has satisfied the terms and conditions of the award at each such date. Where required under the Remuneration Code, RSUs awarded in respect of fiscal year 2020 for certain Material Risk Takers deliver in five equal instalments, either on or about each of the first, second, third, fourth and fifth anniversaries of the grant date, or, for Material Risk Takers who perform a PRA Senior Management Function, on or about each of the third, fourth, fifth, sixth and seventh anniversaries of the grant date, assuming in each case, the employee has satisfied the terms and conditions of the award at each such date.

- **Transfer Restrictions:** The firm generally requires all individuals to hold, until the expiration of a period of up to five years from grant, a material portion of the shares they receive in respect of RSUs granted as part of their year-end remuneration according to the firm’s global deferral table. These transfer restrictions apply to the lower of 50% of the shares delivered before reduction for tax withholding, or the number of shares received after reduction for tax withholding. Because combined tax and social security rates in the United Kingdom are close to 50%, transfer restrictions apply to substantially all net shares delivered to employees resident in the United Kingdom.

An employee generally cannot sell, exchange, transfer, assign, pledge, hedge or otherwise dispose of any RSUs or shares that are subject to transfer restrictions.

- **Retention Requirement:** All shares delivered to employees designated as Material Risk Takers in relation to their variable remuneration are subject to retention in accordance with the requirements of the Remuneration Code.

- **Forfeiture and Recapture Provisions:** The RSUs and shares delivered thereunder in relation to variable remuneration are subject to forfeiture or recapture if the Compensation Committee or its delegate(s) determine(s) that during 2020 the employee participated (or otherwise oversaw or was responsible for, depending on the circumstances, another individual’s participation) in the structuring or marketing of any product or service, or

participated on behalf of the firm or any of its clients in the purchase or sale of any security or other property, in any case without appropriate consideration of the risk to the firm or the broader financial system as a whole (for example, if the employee were to improperly analyse risk or fail sufficiently to raise concerns about such risk) and, as a result of such action or omission, the Compensation Committee or its delegate(s) determine(s) there has been, or reasonably could be expected to be, a material adverse impact on the firm, the employee’s business unit or the broader financial system.

This provision is not limited to financial risks and is designed to encourage the consideration of the full range of risks associated with the activities (for example, legal, compliance or reputational). The provision also does not require that a material adverse impact actually occur, but rather may be triggered if the firm determines that there is a reasonable expectation of such an impact.

The Compensation Committee previously adopted guidelines that set forth a formal process regarding determinations to forfeit or recapture awards for failure to consider risk appropriately upon the occurrence of certain pre-determined events (for example, in the event of annual firmwide, divisional, business unit or individual losses). The review of whether forfeiture or recapture is appropriate includes input from the CRO, as well as representatives from Finance, Legal and Compliance. Determinations are made by the Compensation Committee or its delegates, with any determinations made by delegates reported to the Compensation Committee.

RSUs granted to all Material Risk Takers in relation to variable remuneration are generally subject to forfeiture until delivery of the underlying shares if GS Group is determined by US bank regulators to be “in default” or “in danger of default” as defined under the US Dodd-Frank Wall Street Reform and Consumer Protection Act 2010, or fails to maintain for 90 consecutive business days, the required “minimum tier 1 capital ratio” (as defined under Federal Reserve Board regulations). RSUs awarded in relation to variable remuneration are also subject to forfeiture if the firm or the relevant business unit suffers a “material downturn in financial performance”.

All variable remuneration granted to Material Risk Takers is generally subject to forfeiture or recapture in the event of a “material failure of risk management”, or in the event that the employee engages in “serious misconduct”, at any time during the seven year period after grant (equity-based awards) or payment (cash).

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Additionally, RSUs and shares delivered thereunder in relation to variable remuneration are generally subject to forfeiture or recapture if it is appropriate to hold a Material Risk Taker accountable in whole or in part for “serious misconduct” related to compliance, control or risk that occurred during 2020 by an individual for whom the Material Risk Taker had supervisory responsibility as a result of direct or indirect reporting lines or management responsibility for an office, division or business.

An employee’s RSUs may also be forfeited, and shares delivered thereunder recaptured if the employee engages in conduct constituting “cause” at any time before the RSUs are delivered and any applicable transfer restrictions lapse. Cause includes, among other things, any material violation of any firm policy, any act or statement that negatively reflects on the firm’s name, reputation or business interests and any conduct detrimental to the firm.

With respect to all of the forfeiture conditions, if the firm determines after delivery or release of transfer restrictions that an RSU or share delivered thereunder should have been forfeited or recaptured, the firm can require return of any shares delivered or repayment to the firm of the fair market value of the shares when delivered (including those withheld to pay taxes) or any other amounts paid or delivered in respect thereof.

- Hedging:** The firm’s anti-hedging policy ensures employees maintain the intended exposure to the firm’s stock performance. In particular, all employees are prohibited from hedging RSUs, shares that are subject to transfer restrictions, and, to the extent applicable, retention shares. In addition, executive officers of GS Group (as defined under the Securities Exchange Act of 1934) are prohibited from hedging any shares that they can freely sell. Employees, other than executive officers, may hedge only shares that they can otherwise sell. However, no employee may enter into uncovered hedging transactions or sell short any shares. Employees may only enter into transactions or otherwise make investment decisions with respect to shares during applicable “window periods”.
- Treatment upon Termination or Change-in-Control:** As a general matter, delivery schedules are not accelerated, and transfer restrictions are not removed, when an employee leaves the firm. The limited exceptions include death and “conflicted employment.” A change in control alone is not sufficient to trigger acceleration of any deliveries or removal of transfer restrictions; only if the change in control is followed within 18 months by a termination of employment by the firm without “cause” or by the employee for “good reason” will delivery and release of transfer restrictions be accelerated.

Quantitative Disclosures

The following tables show aggregate quantitative remuneration information for 707 individuals, categorised as Material Risk Takers for the purposes of the Remuneration Code in respect of their duties for the UK Companies. The PRA was consulted on these awards as part of their normal assessment of remuneration.

Material Risk Takers are also eligible to receive certain general non-discretionary ancillary payments and benefits on a similar basis to other employees. These payments and benefits are not included in the disclosures below.

Aggregate remuneration: split between fixed and variable remuneration and forms of variable remuneration

Remuneration paid or awarded for the financial year ended December 31, 2020 comprised fixed remuneration (salaries, allowances and director fees) and variable remuneration. The figures are split into two tables showing “Senior Management” and “Other Material Risk Takers” according to the following definitions:

- Senior Management:** members of the Boards of Directors of the UK Companies, members of the Management Committees for the Europe, Middle East and Africa (EMEA) region and GSIB, the head of each revenue-producing division in the EMEA region and heads of significant business lines in the EMEA region who perform a significant management function corresponding to PRA and FCA Senior Managers of the UK Companies.
- Other Material Risk Takers:** other employees whose activities have a material impact on the risk profile of the firm.

As required by Article 450(2) of CRR and paragraph 308 of the EBA Guidelines, the quantitative information referred to in Article 450(1)(h) of CRR has also been provided separately for each major business area, internal control functions, corporate functions, and at the level of the management body in its management and supervisory function of the UK Companies. In addition, the deferred remuneration shown in the table below includes remuneration subject to the deferral requirements in Principle 12 of the Remuneration Code. The amounts relate only to those employees who were Material Risk Takers at the end of the fiscal year, December 31, 2020.

Pillar 3 Disclosures**Table 51: Senior Management**

	Management Body – Supervisory Function	Management Body – Management Function	Investment Banking ¹	Asset Management ^{2, 3}	Corporate Functions	Independent Control Functions
Number of members of Senior Management	12	8	23	16	5	8
2020 Fixed Remuneration awarded in cash (\$ in millions)	3.08	15.53	84.12	26.68	3.61	4.42
2020 Fixed Remuneration awarded in RSUs (number of RSUs in 000s)	-	9.95	-	-	-	-
2020 Variable Remuneration awarded in cash (\$ in millions)	-	1.31	8.13	4.78	0.69	0.83
2020 Variable Remuneration awarded in RSUs (number of RSUs in 000s)	-	58.38	416.80	46.75	7.83	6.42
Variable to Fixed Remuneration Ratio	-	0.79	1.46	0.67	0.81	0.59
Outstanding unvested as at 1 January 2020 (number of RSUs in 000s) ⁴	-	215.93	672.08	192.72	18.85	14.12
Awarded during 2020 (number of RSUs in 000s)	-	72.65	339.91	66.73	9.40	6.80
Paid out during 2020 (number of RSUs in 000s)	-	36.31	200.10	65.25	7.88	5.25
Reduced through performance adjustments during 2020 (number of RSUs in 000s)	-	-	-	-	-	-
Outstanding unvested as at 31 December 2020 (number of RSUs in 000s) ⁴	-	252.26	811.89	194.21	20.37	15.67

Table 52: Other Material Risk Takers

	Investment Banking ¹	Asset Management ^{2, 3}	Corporate Functions	Independent Control Functions
Number of Other Material Risk Takers	558	31	21	25
2020 Fixed Remuneration awarded in cash (\$ in millions)	390.81	24.37	11.53	7.80
2020 Fixed Remuneration awarded in RSUs (number of RSUs in 000s)	-	-	-	-
2020 Variable Remuneration awarded in cash (\$ in millions)	84.49	7.04	2.84	2.00
2020 Variable Remuneration awarded in RSUs (number of RSUs in 000s)	1,283.84	73.00	31.65	9.00
Variable to Fixed Remuneration Ratio	1.14	1.14	1.02	0.59
Outstanding unvested as at 1 January 2020 (number of RSUs in 000s) ⁴	1,890.30	91.72	51.57	14.28
Awarded during 2020 (number of RSUs in 000s)	984.26	52.94	32.27	7.85
Paid out during 2020 (number of RSUs in 000s)	860.96	46.77	25.75	6.34
Reduced through performance adjustments during 2020 (number of RSUs in 000s)	-	-	-	-
Outstanding unvested as at 31 December 2020 (number of RSUs in 000s) ⁴	2,013.60	97.90	58.09	15.80

¹ Reflects Material Risk Takers in the Investment Banking Division, Merchant Banking Division, Global Markets and Global Investment Research Division

² Reflects Material Risk Takers in the Consumer and Investment Management Division

³ Additional deferred compensation units totalling approximately \$5.6m were awarded to certain individuals in Asset Management during 2020 and remained outstanding as at 31 December 2020 (approximately \$4.3m to Senior Management and \$1.3m to Other Material Risk Takers)

⁴ All elements of deferred remuneration are settled immediately when due, and so there are no amounts of outstanding vested deferred remuneration

Pillar 3 Disclosures***Sign-on and Severance Payments***

Eight Material Risk Takers were awarded sign-on payments and six Material Risk Takers were awarded severance payments during 2020.

Table 53:

	Senior Management	Other Material Risk Takers	Total	Highest Individual Award
Sign-on award (\$ in millions)	-	2.47	2.47	0.84
Severance payment (\$ in millions)	0.09	0.77	0.86	0.55

No sign-on or severance payments were awarded to members of the Management Body.

Material Risk Takers with Total Remuneration of One Million Euros or above

The following table shows the number of Material Risk Takers with total remuneration of EUR 1 million or above arranged by remuneration band for the remuneration period ended December 31, 2020.

Table 54:

Total Remuneration Band (EUR)	Number of Individuals
≥ 1,000,000 to < 1,500,000	133
≥ 1,500,000 to < 2,000,000	74
≥ 2,000,000 to < 2,500,000	36
≥ 2,500,000 to < 3,000,000	12
≥ 3,000,000 to < 3,500,000	12
≥ 3,500,000 to < 4,000,000	17
≥ 4,000,000 to < 4,500,000	11
≥ 4,500,000 to < 5,000,000	4
≥ 5,000,000 to < 6,000,000	14
≥ 6,000,000 to < 7,000,000	4
≥ 7,000,000 to < 8,000,000	10
≥ 8,000,000 to < 9,000,000	2
≥ 9,000,000	10
Total	339

Note: The financial year for the UK Companies was 1 December 2019 through to 31 December 2020. The above UK Remuneration Disclosures however continue to reflect a twelve month remuneration period, from 1 January 2020 through to 31 December 2020.

Cautionary Note on Forward-Looking Statements

We have included in these disclosures, and our management may make, statements that may constitute “forward-looking statements.” 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. These statements include statements other than historical information or statements of current conditions.

It is possible that our actual results and financial condition may differ, possibly materially, from the anticipated results and financial condition indicated in these forward-looking statements. Important factors that could cause our actual results and financial condition to differ from those indicated in the forward-looking statements include, among others, those discussed in “Risk Factors” in Part I, Item 1A in the firm’s 2020 Form 10-K.

Glossary

- **Advanced Internal Ratings-Based (AIRB).** The AIRB approach of CRR provides a methodology for banks, subject to supervisory approval, to use various risk parameters to determine the EAD and risk-weights for regulatory capital calculations. Other risk parameters used in the determination of risk weights are each counterparty's Probability of Default (PD), Loss Given Default (LGD) and the effective maturity of the trade or portfolio of trades.
- **Central Counterparty (CCP).** A counterparty, such as a clearing house, that facilitates trades between counterparties.
- **Comprehensive Risk.** The potential loss in value, due to price risk and defaults, for credit correlation positions. Comprehensive risk consists of a modelled measure which is calculated at a 99.9% confidence level over a one-year time horizon, subject to a floor which is 8% of the standardised specific risk add-on.
- **Credit Correlation Position.** A securitisation position for which all or substantially all of the value of the underlying exposures is based on the credit quality of a single company for which a two-way market exists, or indices based on such exposures for which a two-way market exists, or hedges of these positions (which are typically not securitisation positions).
- **Credit Risk.** 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.
- **Credit Valuation Adjustment (CVA).** An adjustment applied to uncollateralised OTC derivatives to cover the risk of mark-to-market losses of bilateral credit risk (i.e. counterparty and own) in uncollateralised derivatives.
- **Debt Valuation Adjustment (DVA).** An adjustment applied to debt held at fair value representing the mark-to-market of unilateral own credit risk in unsecured debt held at fair value.
- **Default.** A default is considered to have occurred when either or both of the two following events have taken place: (i) we consider that the obligor is unlikely to pay its credit obligations to us in full; or (ii) the obligor has defaulted on a payment and/or is past due more than 90 days on any material Wholesale credit obligation, 180 days on residential mortgage obligations or 120 days on other retail obligations.
- **Default Risk.** The risk of loss on a position that could result from failure of an obligor to make timely payments of principal or interest on its debt obligation, and the risk of loss that could result from bankruptcy, insolvency, or similar proceedings.
- **Effective Expected Positive Exposure (EEPE).** The time-weighted average of non-declining positive credit exposure over the EE simulation. EEPE is used in accordance with the IMM as the exposure measure that is then risk weighted to determine counterparty risk capital requirements.
- **Event Risk.** The risk of loss on equity or hybrid equity positions as a result of a financial event, such as the announcement or occurrence of a company merger, acquisition, spin-off, or dissolution.
- **Expected Exposure (EE).** The expected value of the probability distribution of non-negative credit risk exposures to a counterparty at any specified future date before the maturity date of the longest term transaction in a netting set.
- **Exposure at Default (EAD).** The exposure amount that is risk weighted for regulatory capital calculations. For on-balance-sheet assets, such as receivables and cash, EAD is generally based on the balance sheet value. For the calculation of EAD for off-balance-sheet exposures, including commitments and guarantees, an equivalent exposure amount is calculated based on the notional amount of each transaction multiplied by a credit conversion factor designed to estimate the net additions to funded exposures that would be likely to occur over a one-year horizon, assuming the obligor were to default. For substantially all of the counterparty credit risk arising from OTC derivatives, exchange-traded derivatives and securities financing transactions, internal models calculate the distribution of exposure upon which the EAD calculation is based.
- **Idiosyncratic Risk.** The risk of loss in the value of a position that arises from changes in risk factors unique to that position.
- **Incremental Risk.** The potential loss in value of non-securitised positions due to the default or credit migration of issuers of financial instruments over a one-year time horizon. This measure is calculated at a 99.9% confidence level over a one-year time horizon using a multi-factor model.

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- **Internal Models Methodology (IMM).** The IMM establishes a methodology for entities to use their internal models to estimate exposures arising from OTC derivatives, securities financing transactions and cleared transactions, subject to qualitative and quantitative requirements and supervisory approval.
- **Loss Given Default (LGD).** An estimate of the economic loss rate if a default occurs during economic downturn conditions.
- **Market Risk.** The risk of loss in the value of our inventory, investments, loans and other financial assets and liabilities accounted for at fair value, due to changes in market conditions.
- **Operational Risk.** The risk of an adverse outcome resulting from inadequate or failed internal processes, people, systems or from external events.
- **Other Systemically Important Institutions.** Institutions identified by national regulators as those whose failure or malfunction could potentially lead to serious negative consequences for the domestic financial systems and real economy.
- **Prudent Valuation Adjustment (PVA).** A deduction from CET1 capital where the prudent value of trading assets or other financial assets measured at fair value is materially lower than the fair value recognised in the consolidated financial information.
- **Probability of Default (PD).** Estimate of the probability that an obligor will default over a one-year horizon.
- **Ratings Based Approach.** Under the ratings based method, the risk weighted exposure amount of a rated securitisation position or resecuritisation position are calculated by applying to the exposure value the risk weight associated with the credit quality step as prescribed in CRR multiplied by 1.06.
- **Regulatory Value-at-Risk (VaR).** The potential loss in value of trading positions due to adverse market movements over a 10-day time horizon with a 99% confidence level.
- **Regulatory VaR Backtesting.** Comparison of daily positional loss results to the Regulatory VaR measure calculated as of the end of the prior business day.
- **Resecuritisation Position.** Represents an on or off-balance-sheet transaction in which the risk associated with an underlying pool of exposures is tranching and at least one of the underlying exposures is a securitisation position.
- **Securitisation Position.** Represents a transaction or scheme in which the credit risk associated with an exposure or pool of exposures is tranching and both payments in the transaction or scheme are dependent upon the performance of the exposure or pool of exposures and the subordination of tranches determines the distribution of losses during the ongoing life of the transaction or scheme.
- **Specific Risk.** The risk of loss on a position that could result from factors other than broad market movements and includes event risk, default risk and idiosyncratic risk. The specific risk add-on is applicable for both securitisation positions and for certain non-securitised debt and equity positions, to supplement the model-based measures.
- **Stress Testing.** Stress testing is a method of determining the effect of various hypothetical stress scenarios.
- **Stressed VaR (SVaR).** The potential loss in value of trading assets and liabilities, as well as certain investments, loans, and other financial assets and liabilities, during a period of significant market stress. SVaR is calculated at a 99% confidence level over a 10-day horizon using market data inputs from a continuous 12-month period of stress.
- **Synthetic Securitisation.** Defined as a securitisation transaction in which the tranching is achieved by the use of credit derivatives or guarantees, and the pool of exposures is not removed from the balance sheet of the originator.
- **Traditional Securitisation.** Defined as a securitisation transaction which involves the economic transfer of the exposures being securitised to a securitisation special purpose entity which issues securities; and so that this must be accomplished by the transfer of ownership of the securitised exposures from the originator or through sub-participation; and the securities issued do not represent payment obligations of the originator.
- **Value-at-Risk (VaR).** The potential loss in value of trading assets and liabilities, 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. Risk management VaR is calculated at a 95% confidence level over a one-day horizon.
- **Wholesale Exposure.** A term used to refer collectively to credit exposures to companies, sovereigns or government entities (other than Securitisation, Retail or Equity exposures).

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Appendix I: Scope of Consolidation Tables

Consolidated Balance Sheet under the Regulatory Scope of Consolidation

The following three tables provide a reconciliation of GSGUK, GSI and GSIB balance sheet as of December 31, 2020 on an accounting consolidation basis to the GSGUK, GSI and GSIB balance sheet under the regulatory scope of consolidation. It also breaks down how carrying values under the scope of regulatory consolidation are allocated to the different risk frameworks laid out in Part Three of the CRR.

Table 55: Differences Between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statement Categories with Regulatory Risk Categories¹

GSGUK

\$ in millions

As of December 2020

	Carrying values as reported in published financial statements and under the scope of regulatory consolidation	Carrying values of items				
		Subject to the credit risk framework	Subject to the CCR framework	Subject to the securitisation framework	Subject to the market risk framework	Not subject to capital requirements or subject to deduction from capital
Assets						
Cash and Cash Equivalents	\$ 54,248	\$ 54,248	-	-	-	-
Customer and Receivables	90,873	6,683	84,190	-	-	-
Trading Assets	982,565	1,867	887,693	-	978,953	-
Collateralised agreements	159,708	-	159,708	-	96,359	-
Investments	4,786	4,224	-	562	-	-
Loans	10,976	5,945	4,208	823	-	-
Other Assets	9,740	9,278	-	-	-	462
Total assets	\$ 1,312,896	\$ 82,245	\$ 1,135,799	\$ 1,385	\$ 1,075,312	\$ 462
Liabilities						
Customer and Other payables	\$ 100,508	-	-	-	-	\$ 100,508
Collateralised financings	\$ 99,560	-	99,560	-	80,068	-
Trading Liabilities	931,626	-	879,640	-	929,975	888
Deposits	52,796	-	-	-	848	51,948
Unsecured Borrowings	80,699	-	-	-	-	80,699
Other Liabilities	5,017	-	-	-	-	5,017
Total liabilities	\$ 1,270,206	-	\$ 979,200	-	\$ 1,010,891	\$ 239,060

GSI

\$ in millions

As of December 2020

	Carrying values as reported in published financial statements and under the scope of regulatory consolidation	Carrying values of items				Not subject to capital requirements or subject to deduction from capital
		Subject to the credit risk framework	Subject to the CCR framework	Subject to the securitisation framework	Subject to the market risk framework	
Assets						
Cash and Cash Equivalents	\$ 43,833	\$ 43,833	-	-	-	-
Customer and Receivables	90,380	6,059	84,321	-	-	-
Trading Assets	982,919	1,374	888,302	-	980,400	-
Collateralised agreements	140,682	-	140,682	-	90,689	-
Investments	888	888	-	-	-	-
Loans	567	567	-	-	-	-
Other assets	8,589	8,158	-	-	-	431
Total assets	\$ 1,267,858	\$ 60,879	\$ 1,113,305	-	\$ 1,071,089	\$ 431
Liabilities						
Customer and Other payables	\$ 100,519	-	-	-	-	\$ 100,519
Collateralised financings	113,127	-	113,127	-	93,635	-
Trading Liabilities	932,414	-	880,429	-	931,526	888
Unsecured Borrowings	80,351	-	-	-	-	80,351
Other Liabilities	4,869	-	-	-	-	4,869
Total liabilities	\$ 1,231,280	-	\$ 993,556	-	\$ 1,025,161	\$ 186,627

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GSIB

\$ in millions

As of December 2020

	Carrying values as reported in published financial statements and under the scope of regulatory consolidation	Carrying values of items				Not subject to capital requirements or subject to deduction from capital
		Subject to the credit risk framework	Subject to the CCR framework	Subject to the securitisation framework	Subject to the market risk framework	
Assets						
Cash at bank and in hand	\$ 10,082	\$ 10,082	-	-	-	-
Collateralised agreements	32,889	2,846	30,043	-	15,561	-
Customer and Other Receivables	720	720	-	-	-	-
Trading Asset	1,689	155	1,534	-	428	-
Loans	10,463	5,378	4,262	823	-	-
Investments	2,970	2,408	-	562	-	-
Other Assets	960	926	-	-	-	33
Total assets	\$ 59,773	\$ 22,515	\$ 35,839	\$ 1,385	\$ 15,989	\$ 33
Liabilities						
Collateralised financings	\$ 219	-	\$ 219	-	-	-
Customer and Other Payables	459	-	-	-	-	459
Trading Liabilities	1,221	-	1,221	-	243	-
Deposits	52,799	-	-	-	848	51,951
Unsecured Borrowings	1,555	-	-	-	-	1,555
Other Liabilities	159	-	-	-	-	159
Total liabilities	\$ 56,412	-	\$ 1,440	-	\$ 1,091	\$ 54,124

¹ Carrying values under the scope of regulatory consolidation shown in the first column may not be the sum of the carrying values shown in the remaining columns as some items are subject to capital requirements in one or more risk frameworks.

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Regulatory Balance Sheet Assets Reconciliation to Exposure at Default (EAD)

The following three tables present a reconciliation of the consolidated regulatory balance sheet to EAD for items subject to credit risk, CCR and securitisation and frameworks.

Table 56: Main Sources of Differences Between Regulatory Exposures Amounts and Carrying Values in Financial Statements

GSGUK

\$ in millions

As of December 2020

	Items subject to		
	Credit risk framework	CCR framework	Securitisation framework
1 Assets carrying value amount under the scope of regulatory consolidation (as per template EU LI1)	\$ 82,245	\$ 1,135,799	\$ 1,385
2 Liabilities carrying value amount under the regulatory scope of consolidation (as per template EU LI1)	-	(979,200)	-
3 Total net amount under the regulatory scope of consolidation	82,245	156,599	1,385
4 Off-balance-sheet amounts	8,159	-	72
5 Differences due to credit conversion factor	(2,036)	-	-
6 Differences due netting of collateral, haircut and EAD modelling	1,429	10,050	-
7 Exposure amounts considered for regulatory purposes	\$ 89,797	\$ 166,649	\$ 1,457

GSI

\$ in millions

As of December 2020

	Items subject to		
	Credit risk framework	CCR framework	Securitisation framework
1 Assets carrying value amount under the scope of regulatory consolidation (as per template EU LI1)	\$ 60,879	\$ 1,113,305	-
2 Liabilities carrying value amount under the regulatory scope of consolidation (as per template EU LI1)	-	(993,556)	-
3 Total net amount under the regulatory scope of consolidation	60,879	119,749	-
4 Off-balance-sheet amounts	1,527	-	-
5 Differences due to credit conversion factor	(382)	-	-
6 Differences due netting of collateral, haircut and EAD modelling	1,781	45,012	-
7 Exposure amounts considered for regulatory purposes	\$ 63,805	\$ 164,761	-

GSIB

\$ in millions

As of December 2020

	Items subject to		
	Credit risk framework	CCR framework	Securitisation framework
1 Assets carrying value amount under the scope of regulatory consolidation (as per template EU LI1)	\$ 22,515	\$ 35,839	\$ 1,385
2 Liabilities carrying value amount under the regulatory scope of consolidation (as per template EU LI1)	-	(1,440)	-
3 Total net amount under the regulatory scope of consolidation	22,515	34,399	1,385
4 Off-balance-sheet amounts¹	6,632	-	72
5 Differences due to credit conversion factor	(1,654)	-	-
6 Differences due netting of collateral, haircut and EAD modelling	198	(31,506)	-
7 Exposure amounts considered for regulatory purposes	\$ 27,691	\$ 2,893	\$ 1,457

¹**Off balance sheet amounts:** Off balance sheet amounts are stated gross and primarily consist of undrawn committed facilities and guarantees.

Explanations of differences between accounting and regulatory exposure amounts

The carrying value of assets is usually measured at amortised cost or fair value as at the balance sheet date. For on-balance-sheet assets, such as receivables and cash, the EAD is generally based on the carrying value. For the calculation of EAD for off-balance-sheet exposures, including commitments and guarantees, a credit equivalent exposure amount is calculated based on the notional amount of each transaction multiplied by a credit conversion factor in accordance with Article 166 of CRR.

As GSGUK calculates the majority of its credit exposure under the IMM, the impacts of netting and collateral are integral to the calculation of the exposure. The exposures considered for regulatory purposes are presented on a net and collateralised basis where there is a legally enforceable netting and collateral opinion. Under IFRS, netting is required if legal right of set-off exists and the cash flows are intended to be settled on a net basis.

Pillar 3 Disclosures

Appendix II: Credit Risk Tables

The following three tables present GSGUK, GSI and GSIB's net values of on-balance-sheet and off-balance-sheet exposures by geographical areas and exposure classes as of December 31, 2020.

Table 57: Geographical Breakdown of Exposures

GSGUK

\$ in millions

As of December 2020

		Net value										
		EMEA	France	United Kingdom	Other countries	Asia	China	Other countries	Americas	United States	Other countries	Total
1	Central governments or central banks	\$ 49,581	\$ 32,988	\$ 16,035	\$ 558	\$ 125	-	\$ 125	\$ 4	\$ 4	\$ 0	\$ 49,710
2	Institutions	5,455	424	2,468	2,563	2,674	856	1,818	10,090	9,804	286	18,219
3	Corporates	14,745	2,275	4,159	8,311	1,634	272	1,362	1,592	703	889	17,971
4	Retail	-	-	-	-	-	-	-	-	-	-	-
5	Equity	558	-	490	68	-	-	-	52	2	50	610
5a	Non-credit obligation assets	-	-	-	-	-	-	-	-	-	-	-
6	Total IRB approach	\$ 70,339	\$ 35,687	\$ 23,152	\$ 11,500	\$ 4,433	\$ 1,128	\$ 3,305	\$ 11,738	\$ 10,513	\$ 1,225	\$ 86,510
7	Central governments or central banks	-	-	-	-	-	-	-	-	-	-	-
12	Institutions	239	-	-	239	-	-	-	142	142	-	381
13	Corporates	776	-	705	71	1	-	1	-	-	-	777
14	Retail	23	-	12	11	-	-	-	-	-	-	23
15	Secured by mortgages on immovable property	135	-	79	56	-	-	-	-	-	-	135
16	Exposures in default	10	-	-	10	-	-	-	-	-	-	10
17	Items associated with particularly high risk	1,086	-	692	394	-	-	-	28	-	28	1,114
21	Equity exposures	-	-	-	-	-	-	-	152	152	-	152
22	Other exposures	1,072	-	1,072	-	-	-	-	-	-	-	1,072
23	Total standardised approach	\$ 3,341	-	\$ 2,560	\$ 781	\$ 1	-	\$ 1	\$ 322	\$ 294	\$ 28	\$ 3,664
24	Total	\$ 73,680	\$ 35,687	\$ 25,712	\$ 12,281	\$ 4,434	\$ 1,128	\$ 3,306	\$ 12,060	\$ 10,807	\$ 1,253	\$ 90,174

Pillar 3 Disclosures

GSI

\$ in millions

As of December 2020

		Net value										
		EMEA	France	United Kingdom	Other countries	Asia	China	Other countries	Americas	United States	Other countries	Total
1	Central governments or central banks	\$ 37,501	\$ 32,980	\$ 4,149	\$ 372	\$ 125	-	\$ 125	-	-	-	\$ 37,626
2	Institutions	3,131	375	947	1,809	2,666	856	1,810	9,516	9,232	284	15,313
3	Corporates	4,951	27	2,163	2,761	1,196	267	929	998	558	440	7,145
4	Retail	-	-	-	-	-	-	-	-	-	-	-
5	Equity	558	-	490	68	-	-	-	52	2	50	610
5a	Non-credit obligation assets	-	-	-	-	-	-	-	-	-	-	-
6	Total IRB approach	\$ 46,141	\$ 33,382	\$ 7,749	\$ 5,010	\$ 3,987	\$ 1,123	\$ 2,864	\$ 10,566	\$ 9,792	\$ 774	\$ 60,694
7	Central governments or central banks	-	-	-	-	-	-	-	-	-	-	-
12	Institutions	-	-	-	-	-	-	-	-	-	-	-
13	Corporates	623	-	623	-	-	-	-	-	-	-	623
14	Retail	-	-	-	-	-	-	-	-	-	-	-
15	Secured by mortgages on immovable property	-	-	-	-	-	-	-	-	-	-	-
16	Exposures in default	-	-	-	-	-	-	-	-	-	-	-
17	Items associated with particularly high risk	-	-	-	-	-	-	-	-	-	-	-
21	Equity exposures	-	-	-	-	-	-	-	-	-	-	-
22	Other exposures	679	-	679	-	-	-	-	-	-	-	679
23	Total standardised approach	\$ 1,302	-	\$ 1,302	-	-	-	-	-	-	-	\$ 1,302
24	Total	\$ 47,443	\$ 33,382	\$ 9,051	\$ 5,010	\$ 3,987	\$ 1,123	\$ 2,864	\$ 10,566	\$ 9,792	\$ 774	\$ 61,996

GSIB

\$ in millions

As of December 2020

		Net value										
		EMEA	France	United Kingdom	Other countries	Asia	China	Other countries	Americas	United States	Other countries	Total
1	Central governments or central banks	\$ 12,080	\$ 8	\$ 11,886	\$ 186	\$ 0	-	\$ 0	\$ 4	\$ 4	\$ 0	\$ 12,084
2	Institutions	4,939	49	4,136	754	7	-	7	575	573	2	5,521
3	Corporates	10,587	2,248	2,698	5,641	439	5	434	594	144	450	11,620
4	Retail	-	-	-	-	-	-	-	-	-	-	-
5	Equity	0	-	0	-	-	-	-	-	-	-	0
5a	Non-credit obligation assets	-	-	-	-	-	-	-	-	-	-	-
6	Total IRB approach	\$ 27,606	\$ 2,305	\$ 18,720	\$ 6,581	\$ 446	\$ 5	\$ 441	\$ 1,173	\$ 721	\$ 452	\$ 29,225
7	Central governments or central banks	-	-	-	-	-	-	-	-	-	-	-
12	Institutions	-	-	-	-	-	-	-	-	-	-	-
13	Corporates	12	-	12	-	-	-	-	-	-	-	12
14	Retail	11	-	-	11	-	-	-	-	-	-	11
15	Secured by mortgages on immovable property	56	-	-	56	-	-	-	-	-	-	56
16	Exposures in default	10	-	-	10	-	-	-	-	-	-	10
17	Items associated with particularly high risk	-	-	-	-	-	-	-	-	-	-	-
21	Equity exposures	-	-	-	-	-	-	-	-	-	-	-
22	Other exposures	17	-	17	-	-	-	-	-	-	-	17
23	Total standardised approach	\$ 106	-	\$ 29	\$ 77	-	-	-	-	-	-	\$ 106
24	Total	\$ 27,712	\$ 2,305	\$ 18,749	\$ 6,658	\$ 446	\$ 5	\$ 441	\$ 1,173	\$ 721	\$ 452	\$ 29,331

Pillar 3 Disclosures

The following three tables present GSGUK, GSI and GSIB's net values of on-balance-sheet and off-balance-sheet exposures by industry or counterparty types and exposure classes as of December 31, 2020.

Table 58: Concentration of Exposures by Industry or Counterparty Types**GSGUK**

\$ in millions

As of December 2020

		Sovereigns (including Central Banks)	Banks	CCPs and Exchanges	Other Financials	Real Estate	Manufac turing	Transport, Utilities & Storage	Retail / Wholesale trade	Services and other Industries	Total
1	Central governments or central banks	\$ 49,674	-	-	\$ 19	-	-	-	-	\$ 17	\$ 49,710
2	Institutions	-	7,414	138	10,663	-	-	-	-	4	18,219
3	Corporates	0	828	448	8,975	863	1,778	1,662	525	2,892	17,971
4	Retail	-	-	-	-	-	-	-	-	-	-
5	Equity	-	21	32	66	-	1	-	-	490	610
5a	Non-credit obligation assets	-	-	-	-	-	-	-	-	-	-
6	Total IRB approach	\$ 49,674	\$ 8,263	\$ 618	\$ 19,723	\$ 863	\$ 1,779	\$ 1,662	\$ 525	\$ 3,403	\$ 86,510
7	Central governments or central banks	-	-	-	-	-	-	-	-	-	-
12	Institutions	-	206	-	175	-	-	-	-	-	381
13	Corporates	-	-	-	0	58	-	-	-	719	777
14	Retail	-	-	-	-	23	-	-	-	-	23
15	Secured by mortgages on immovable property	-	-	-	-	135	-	-	-	-	135
16	Exposures in default	-	-	-	-	-	-	-	-	10	10
17	Items associated with particularly high risk	-	-	-	364	188	-	108	64	390	1,114
21	Equity exposures	-	-	-	152	-	-	-	0	-	152
22	Other exposures	-	-	-	-	-	-	-	-	1,072	1,072
23	Total standardised approach	-	\$ 206	-	\$ 691	\$ 404	-	\$ 108	\$ 64	\$ 2,191	\$ 3,664
24	Total	\$ 49,674	\$ 8,469	\$ 618	\$ 20,414	\$ 1,267	\$ 1,779	\$ 1,770	\$ 589	\$ 5,594	\$ 90,174

Pillar 3 Disclosures

GSI

\$ in millions

As of December 2020

	Sovereigns (including Central Banks)	Banks	CCPs and Exchanges	Other Financials	Real Estate	Manufac turing	Transport, Utilities & Storage	Retail / Wholesale trade	Services and other Industries	Total	
1	Central governments or central banks	\$ 37,590	-	-	\$ 19	-	-	-	\$ 17	\$ 37,626	
2	Institutions	-	6,770	138	8,401	-	-	-	4	15,313	
3	Corporates	-	826	201	5,057	247	30	138	643	7,145	
4	Retail	-	-	-	-	-	-	-	-	-	
5	Equity	-	21	32	66	-	1	-	490	610	
5a	Non-credit obligation assets	-	-	-	-	-	-	-	-	-	
6	Total IRB approach	\$ 37,590	\$ 7,617	\$ 371	\$ 13,543	\$ 247	\$ 31	\$ 138	\$ 3	\$ 1,154	\$ 60,694
7	Central governments or central banks	-	-	-	-	-	-	-	-	-	
12	Institutions	-	-	-	-	-	-	-	-	-	
13	Corporates	-	-	-	-	-	-	-	623	623	
14	Retail	-	-	-	-	-	-	-	-	-	
15	Secured by mortgages on immovable property	-	-	-	-	-	-	-	-	-	
16	Exposures in default	-	-	-	-	-	-	-	-	-	
17	Items associated with particularly high risk	-	-	-	-	-	-	-	-	-	
21	Equity exposures	-	-	-	-	-	-	-	-	-	
22	Other exposures	-	-	-	-	-	-	-	679	679	
23	Total standardised approach	-	-	-	-	-	-	-	\$ 1,302	\$ 1,302	
24	Total	\$ 37,590	\$ 7,617	\$ 371	\$ 13,543	\$ 247	\$ 31	\$ 138	\$ 3	\$ 2,456	\$ 61,996

GSIB

\$ in millions

As of December 2020

	Sovereigns (including Central Banks)	Banks	CCPs and Exchanges	Other Financials	Real Estate	Manufac turing	Transport, Utilities & Storage	Retail / Wholesale trade	Services and other Industries	Total	
1	Central governments or central banks	\$ 12,084	-	-	-	-	-	-	-	\$ 12,084	
2	Institutions	-	695	-	4,826	-	-	-	0	5,521	
3	Corporates	0	2	247	4,712	616	1,748	1,524	522	2,249	11,620
4	Retail	-	-	-	-	-	-	-	-	-	
5	Equity	-	-	-	-	-	-	-	0	0	
5a	Non-credit obligation assets	-	-	-	-	-	-	-	-	-	
6	Total IRB approach	\$ 12,084	\$ 697	\$ 247	\$ 9,538	\$ 616	\$ 1,748	\$ 1,524	\$ 522	\$ 2,249	\$ 29,225
7	Central governments or central banks	-	-	-	-	-	-	-	-	-	
12	Institutions	-	-	-	-	-	-	-	-	-	
13	Corporates	-	-	-	-	-	-	-	12	12	
14	Retail	-	-	-	-	-	-	-	11	11	
15	Secured by mortgages on immovable property	-	-	-	-	-	-	-	56	56	
16	Exposures in default	-	-	-	-	-	-	-	10	10	
17	Items associated with particularly high risk	-	-	-	-	-	-	-	-	-	
21	Equity exposures	-	-	-	-	-	-	-	-	-	
22	Other exposures	-	-	-	-	-	-	-	17	17	
23	Total standardised approach	-	-	-	-	-	-	-	\$ 106	\$ 106	
24	Total	\$ 12,084	\$ 697	\$ 247	\$ 9,538	\$ 616	\$ 1,748	\$ 1,524	\$ 522	\$ 2,355	\$ 29,331

Pillar 3 Disclosures

The following three tables present GSGUK, GSI and GSIB's net values of on-balance-sheet and off-balance-sheet exposures by industry or counterparty types and exposure classes as of December 31, 2020.

Table 59: Maturity of Exposures**GSGUK**

\$ in millions As of December 2020

		Net exposure value					Total
		On demand	<= 1 Year	> 1 Year <= 5 Years	>5 years	No Stated Maturity	Total
1	Central governments or central banks	\$ 47,021	\$ 588	-	\$ 2,101	-	\$ 49,710
2	Institutions	4,496	11,948	1,481	233	61	18,219
3	Corporates	544	7,125	8,556	1,731	15	17,971
4	Retail	-	-	-	-	-	-
5	Equity	-	185	-	72	353	610
5a	Non-credit obligation assets	-	-	-	-	-	-
6	Total IRB approach	\$ 52,061	\$ 19,846	\$ 10,037	\$ 4,137	\$ 429	\$ 86,510
12	Institutions	-	381	-	-	-	381
13	Corporates	-	776	-	-	1	777
14	Retail	-	-	-	23	-	23
15	Secured by mortgages on immovable property	-	-	-	135	-	135
16	Exposures in default	-	-	-	10	-	10
17	Items associated with particularly high risk	-	-	-	-	1,114	1,114
21	Equity exposures	-	-	-	-	152	152
22	Other exposures	-	1,072	-	-	-	1,072
23	Total standardised approach	-	\$ 2,229	-	\$ 168	\$ 1,267	\$ 3,664
24	Total	\$ 52,061	\$ 22,075	\$ 10,037	\$ 4,305	\$ 1,696	\$ 90,174

GSI

\$ in millions As of December 2020

		Net exposure value					Total
		On demand	<= 1 Year	> 1 Year <= 5 Years	>5 years	No Stated Maturity	Total
1	Central governments or central banks	\$ 37,185	\$ 441	-	-	-	\$ 37,626
2	Institutions	4,258	10,809	1	184	61	15,313
3	Corporates	542	5,400	1,040	148	15	7,145
4	Retail	-	-	-	-	-	-
5	Equity	-	185	-	72	353	610
5a	Non-credit obligation assets	-	-	-	-	-	-
6	Total IRB approach	\$ 41,985	\$ 16,835	\$ 1,041	\$ 404	\$ 429	\$ 60,694
12	Institutions	-	-	-	-	-	-
13	Corporates	-	622	-	-	1	623
14	Retail	-	-	-	-	-	-
15	Secured by mortgages on immovable property	-	-	-	-	-	-
16	Exposures in default	-	-	-	-	-	-
17	Items associated with particularly high risk	-	-	-	-	-	-
21	Equity exposures	-	-	-	-	-	-
22	Other exposures	-	679	-	-	-	679
23	Total standardised approach	-	\$ 1,301	-	-	\$ 1	\$ 1,302
24	Total	\$ 41,985	\$ 18,136	\$ 1,041	\$ 404	\$ 430	\$ 61,996

Pillar 3 Disclosures

GSIB

\$ in millions

As of December 2020

		Net exposure value					
		On demand	<= 1 Year	> 1 Year <= 5 Years	>5 years	No Stated Maturity	Total
1	Central governments or central banks	\$ 9,836	\$ 147	-	\$ 2,101	-	\$ 12,084
2	Institutions	238	2,022	3,212	49	-	5,521
3	Corporates	2	1,725	8,218	1,675	-	11,620
4	Retail	-	-	-	-	-	-
5	Equity	-	0	-	-	-	0
5a	Non-credit obligation assets	-	-	-	-	-	-
6	Total IRB approach	\$ 10,076	\$ 3,894	\$ 11,430	\$ 3,825	-	\$ 29,225
12	Institutions	-	-	-	-	-	-
13	Corporates	-	12	-	-	-	12
14	Retail	-	-	-	11	-	11
15	Secured by mortgages on immovable property	-	-	-	56	-	56
16	Exposures in default	-	-	-	10	-	10
17	Items associated with particularly high risk	-	-	-	-	-	-
21	Equity exposures	-	-	-	-	-	-
22	Other exposures	-	17	-	-	-	17
23	Total standardised approach	-	\$ 29	-	\$ 77	-	\$ 106
24	Total	\$ 10,076	\$ 3,923	\$ 11,430	\$ 3,902	-	\$ 29,331

Pillar 3 Disclosures

Table 60: Credit Quality of Exposures by Exposure Class and Instrument

GSGUK

\$ in millions

As of December 2020

		Gross carrying values of		Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
		Defaulted exposures ¹	Non-defaulted exposures					
1	Central governments or central banks	-	\$ 49,710	-	-	-	-	\$ 49,710
2	Institutions	93	18,127	1	-	-	-	18,219
3	Corporates	18	17,966	13	-	-	-	17,971
3a	Non-credit obligation assets	-	-	-	-	-	-	-
14	Equity	17	593	-	-	-	-	610
15	Total IRB approach	\$ 128	\$ 86,396	\$ 14	-	-	-	\$ 86,510
16	Central governments or central banks	-	-	-	-	-	-	-
21	Institutions	-	381	-	-	-	-	381
22	Corporates	-	777	-	-	-	-	777
24	Retail	-	23	-	-	-	-	23
26	Secured by mortgages on immovable property	-	135	-	-	-	-	135
28	Exposures in default	10	-	-	-	-	-	10
29	Items associated with particularly high risk	-	1,114	-	-	-	-	1,114
33	Equity exposures	-	152	-	-	-	-	152
34	Other exposures	-	1,072	-	-	-	-	1,072
35	Total standardised approach	\$ 10	\$ 3,654	-	-	-	-	\$ 3,664
36	Total	\$ 138	\$ 90,050	\$ 14	-	-	-	\$ 90,174
37	Of which: Loans	46	7,777	12	-	-	-	7,811
38	Of which: Debt securities	62	2,703	-	-	-	-	2,765
39	Of which: Off- balance-sheet exposures	-	8,158	2	-	-	-	8,156

GSI

\$ in millions

As of December 2020

		Gross carrying values of		Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
		Defaulted exposures ¹	Non-defaulted exposures					
1	Central governments or central banks	-	\$ 37,626	-	-	-	-	\$ 37,626
2	Institutions	93	15,220	-	-	-	-	15,313
3	Corporates	15	7,130	-	-	-	-	7,145
3a	Non-credit obligation assets	-	-	-	-	-	-	-
14	Equity	17	593	-	-	-	-	610
15	Total IRB approach	\$ 125	\$ 60,569	-	-	-	-	\$ 60,694
16	Central governments or central banks	-	-	-	-	-	-	-
21	Institutions	-	-	-	-	-	-	-
22	Corporates	-	623	-	-	-	-	623
24	Retail	-	-	-	-	-	-	-
26	Secured by mortgages on immovable property	-	-	-	-	-	-	-
28	Exposures in default	-	-	-	-	-	-	-
29	Items associated with particularly high risk	-	-	-	-	-	-	-
33	Equity exposures	-	-	-	-	-	-	-
34	Other exposures	-	679	-	-	-	-	679
35	Total standardised approach	-	\$ 1,302	-	-	-	-	\$ 1,302
36	Total	\$ 125	\$ 61,871	-	-	-	-	\$ 61,996
37	Of which: Loans	33	1,390	-	-	-	-	1,423
38	Of which: Debt securities	62	587	-	-	-	-	649
39	Of which: Off- balance-sheet exposures	-	1,527	-	-	-	-	1,527

Pillar 3 Disclosures

GSIB

							As of December 2020	
		Gross carrying values of		Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs	Credit risk adjustment charges of the period	Net values
	Defaulted exposures ¹	Non-defaulted exposures						
1	Central governments or central banks	-	\$ 12,084		-	-	-	\$ 12,084
2	Institutions	-	5,522	1	-	-	-	\$ 5,521
3	Corporates	3	11,630	13	-	-	-	\$ 11,620
3a	Non-credit obligation assets	-	-	-	-	-	-	-
14	Equity	-	-	-	-	-	-	-
15	Total IRB approach	\$ 3	\$ 29,236	\$ 14	-	-	-	\$ 29,225
16	Central governments or central banks	-	-	-	-	-	-	-
21	Institutions	-	-	-	-	-	-	-
22	Corporates	-	12	-	-	-	-	12
24	Retail	-	11	-	-	-	-	11
26	Secured by mortgages on immovable property	-	56	-	-	-	-	56
28	Exposures in default	10	-	-	-	-	-	10
29	Items associated with particularly high risk	-	-	-	-	-	-	-
33	Equity exposures	-	-	-	-	-	-	-
34	Other exposures	-	17	-	-	-	-	17
35	Total standardised approach	\$ 10	\$ 96	-	-	-	-	\$ 106
36	Total	\$ 13	\$ 29,332	\$ 14	-	-	-	\$ 29,331
37	Of which: Loans	13	9,600	12	-	-	-	9,601
38	Of which: Debt securities	-	2,116	-	-	-	-	2,116
39	Of which: Off- balance-sheet exposures	-	6,631	2	-	-	-	6,629

¹The defaulted exposures quantified in the tables above include positions where the obligor defaulted prior to our purchase of the position.

Pillar 3 Disclosures

Table 61: Credit Quality of Exposures by Industry or Counterparty Types

GSGUK

\$ in millions

As of December 2020

		Gross carrying values of				Accumulated write-offs	Credit risk adjustment charges of the period	Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment			
1	Central governments or central banks	-	\$ 49,674	-	-	-	-	\$ 49,674
2	Services and other Industries	17	5,580	3	-	-	-	5,594
3	Banks	108	8,361	0	-	-	-	8,469
4	Other Financials	-	20,422	8	-	-	-	20,414
5	CCPs and Exchanges	-	618	0	-	-	-	618
6	Manufacturing	10	1,770	1	-	-	-	1,779
7	Transport, Utilities & Storage	3	1,769	2	-	-	-	1,770
8	Retail / Wholesale trade	-	589	0	-	-	-	589
9	Real Estate	-	1,267	0	-	-	-	1,267
10	Total	\$ 138	\$ 90,050	\$ 14	-	-	-	\$ 90,174

GSI

\$ in millions

As of December 2020

		Gross carrying values of				Accumulated write-offs	Credit risk adjustment charges of the period	Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment			
1	Central governments or central banks	-	\$ 37,590	-	-	-	-	\$ 37,590
2	Services and other Industries	7	2,449	-	-	-	-	2,456
3	Banks	108	7,509	-	-	-	-	7,617
4	Other Financials	-	13,543	-	-	-	-	13,543
5	CCPs and Exchanges	-	371	-	-	-	-	371
6	Manufacturing	10	21	-	-	-	-	31
7	Transport, Utilities & Storage	-	138	-	-	-	-	138
8	Retail / Wholesale trade	-	3	-	-	-	-	3
9	Real Estate	-	247	-	-	-	-	247
10	Total	\$ 125	\$ 61,871	-	-	-	-	\$ 61,996

GSIB

\$ in millions

As of December 2020

		Gross carrying values of				Accumulated write-offs	Credit risk adjustment charges of the period	Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment			
1	Central governments or central banks	-	\$ 12,084	-	-	-	-	\$ 12,084
2	Services and other Industries	10	2,348	3	-	-	-	2,355
3	Banks	-	697	0	-	-	-	697
4	Other Financials	-	9,546	8	-	-	-	9,538
5	CCPs and Exchanges	-	247	0	-	-	-	247
6	Manufacturing	-	1,749	1	-	-	-	1,748
7	Transport, Utilities & Storage	3	1,523	2	-	-	-	1,524
8	Retail / Wholesale trade	-	522	0	-	-	-	522
9	Real Estate	-	616	0	-	-	-	616
10	Total	\$ 13	\$ 29,332	\$ 14	-	-	-	\$ 29,331

Pillar 3 Disclosures

Table 62: Credit Quality of Exposures by Geography

GSGUK

\$ in millions

As of December 2020

		Gross carrying values of					Credit risk adjustment charges of the period	Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs		
1	EMEA	\$ 137	\$ 73,554	\$ 11	-	-	-	\$ 73,680
2	France	0	35,689	2	-	-	-	35,687
3	United Kingdom	1	25,712	1	-	-	-	25,712
4	Other Countries	136	12,153	8	-	-	-	12,281
5	Asia	1	4,433	-	-	-	-	4,434
6	China	-	1,128	-	-	-	-	1,128
7	Other Countries	1	3,305	-	-	-	-	3,306
8	Americas	-	12,063	3	-	-	-	12,060
9	United States	-	10,807	0	-	-	-	10,807
10	Other Countries	-	1,256	3	-	-	-	1,253
12	Total	\$ 138	\$ 90,050	\$ 14	-	-	-	\$ 90,174

GSI

\$ in millions

As of December 2020

		Gross carrying values of					Credit risk adjustment charges of the period	Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs		
1	EMEA	\$ 124	\$ 47,319	-	-	-	-	\$ 47,443
2	France	-	33,382	-	-	-	-	33,382
3	United Kingdom	1	9,050	-	-	-	-	9,051
4	Other Countries	123	4,887	-	-	-	-	5,010
5	Asia	1	3,986	-	-	-	-	3,987
6	China	-	1,123	-	-	-	-	1,123
7	Other Countries	1	2,863	-	-	-	-	2,864
8	Americas	-	10,566	-	-	-	-	10,566
9	United States	-	9,792	-	-	-	-	9,792
10	Other Countries	-	774	-	-	-	-	774
12	Total	\$ 125	\$ 61,871	-	-	-	-	\$ 61,996

GSIB

\$ in millions

As of December 2020

		Gross carrying values of					Credit risk adjustment charges of the period	Net values
		Defaulted exposures	Non-defaulted exposures	Specific credit risk adjustment	General credit risk adjustment	Accumulated write-offs		
1	EMEA	\$ 13	\$ 27,710	\$ 11	-	-	-	\$ 27,712
2	France	0	2,307	2	-	-	-	2,305
3	United Kingdom	-	18,750	1	-	-	-	18,749
4	Other Countries	13	6,653	8	-	-	-	6,658
5	Asia	-	446	-	-	-	-	446
6	China	-	5	-	-	-	-	5
7	Other Countries	-	441	-	-	-	-	441
8	Americas	-	1,176	3	-	-	-	1,173
9	United States	-	721	0	-	-	-	721
10	Other Countries	-	455	3	-	-	-	452
12	Total	\$ 13	\$ 29,332	\$ 14	-	-	-	\$ 29,331

Pillar 3 Disclosures

Table 63: Credit Quality of Forborne Exposures

GSGUK

\$ millions

December 2020

		Gross carrying amount of forborne exposures / Nominal amount				Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions		Collaterals received and financial guarantees received on forborne exposures	
		Performing forborne	Non-performing forborne		On performing forborne exposures	On non- performing forborne exposures		Of which: Collateral and financial guarantees received on non-performing exposures with forbearance measures	
			Of which defaulted	Of which impaired					
010	Loans and advances	-	-	-	-	-	-	-	
020	Central banks	-	-	-	-	-	-	-	
030	General governments	-	-	-	-	-	-	-	
040	Credit institutions	-	-	-	-	-	-	-	
050	Other financial corporations	-	-	-	-	-	-	-	
060	Non-financial corporations	-	-	-	-	-	-	-	
070	Households	-	-	-	-	-	-	-	
080	Debt Securities	12	-	-	-	-	-	-	
090	Loan commitments given	-	-	-	-	-	-	-	
100	Total	\$ 12	-	-	-	-	-	-	

GSI

\$ millions

December 2020

		Gross carrying amount of forborne exposures / Nominal amount				Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions		Collaterals received and financial guarantees received on forborne exposures	
		Performing forborne	Non-performing forborne		On performing forborne exposures	On non- performing forborne exposures		Of which: Collateral and financial guarantees received on non-performing exposures with forbearance measures	
			Of which defaulted	Of which impaired					
010	Loans and advances	-	-	-	-	-	-	-	
020	Central banks	-	-	-	-	-	-	-	
030	General governments	-	-	-	-	-	-	-	
040	Credit institutions	-	-	-	-	-	-	-	
050	Other financial corporations	-	-	-	-	-	-	-	
060	Non-financial corporations	-	-	-	-	-	-	-	
070	Households	-	-	-	-	-	-	-	
080	Debt Securities	12	-	-	-	-	-	-	
090	Loan commitments given	-	-	-	-	-	-	-	
100	Total	\$ 12	-	-	-	-	-	-	

Table 64: Credit Quality of Performing and Non-performing Exposures by Past Due Days

GSGUK

\$ millions

December 2020

		Gross carrying amount / Nominal amount											
		Performing exposures			Non-performing exposures								
			Not past due or Past due <= 30 days	Past due > 30 days <= 90 days		Unlikely to pay that are not past-due or past-due <= 90 days	Past due > 90 days <= 180 days	Past due > 180 days <= 1 year	Past due > 1 year <= 2 years	Past due > 2 year <= 5 years	Past due > 5 year <= 7 years	Past due > 7 years	Of which defaulted
010	Loans and advances	\$ 269,855	\$ 269,855	-	\$ 71	\$ 2	-	-	\$ 13	-	\$ 56	-	\$ 71
020	Central banks	3,666	3,666	-	-	-	-	-	-	-	-	-	-
030	General governments	1,752	1,752	-	-	-	-	-	-	-	-	-	-
040	Credit institutions	21,606	21,606	-	56	-	-	-	-	-	56	-	56
050	Other financial corporations	237,950	237,950	-	-	-	-	-	-	-	-	-	-
060	Non-financial corporations	3,998	3,998	-	15	2	-	13	-	-	-	-	15
070	Of which SMEs	-	-	-	-	-	-	-	-	-	-	-	-
080	Households	883	883	-	-	-	-	-	-	-	-	-	-
090	Debt Securities	3,555	3,555	-	88	-	-	0	17	-	-	71	88
100	Central banks	-	-	-	-	-	-	-	-	-	-	-	-
110	General governments	2,102	2,102	-	-	-	-	-	-	-	-	-	-
120	Credit institutions	39	39	-	68	-	-	-	-	-	-	68	68
130	Other financial corporations	711	711	-	-	-	-	-	-	-	-	-	-
140	Non-financial corporations	703	703	-	20	-	-	0	17	-	-	3	20
150	Off-balance sheet exposures	6,800			-								-
160	Central banks	-			-								-
170	General governments	-			-								-
180	Credit institutions	56			-								-
190	Other financial corporations	2,141			-								-
200	Non-financial corporations	4,600			-								-
210	Households	3			-								-
220	Total	\$ 280,210	\$ 273,410	-	\$ 159	\$ 2	-	-	\$ 13	\$ 17	\$ 56	\$ 71	\$ 159

Pillar 3 Disclosures

GSI

\$ millions

December 2020

		Gross carrying amount / Nominal amount											
		Performing exposures			Non-performing exposures								
			Not past due or Past due <= 30 days	Past due > 30 days <= 90 days	Unlikely to pay that are not past-due or past-due <= 90 days	Past due > 90 days <= 180 days	Past due > 180 days <= 1 year	Past due > 1 year <= 2 years	Past due > 2 year <= 5 years	Past due > 5 year <= 7 years	Past due > 7 years	Of which defaulted	
010	Loans and advances	\$ 238,918	\$ 238,918	-	\$ 69	-	-	-	\$ 13	-	\$ 56	-	\$ 69
020	Central banks	3,532	3,532	-	-	-	-	-	-	-	-	-	-
030	General governments	1,721	1,721	-	-	-	-	-	-	-	-	-	-
040	Credit institutions	21,756	21,756	-	56	-	-	-	-	-	56	-	56
050	Other financial corporations	210,498	210,498	-	-	-	-	-	-	-	-	-	-
060	Non-financial corporations	1,242	1,242	-	13	-	-	-	13	-	-	-	13
070	Of which SMEs	-	-	-	-	-	-	-	-	-	-	-	-
080	Households	169	169	-	-	-	-	-	-	-	-	-	-
090	Debt Securities	564	564	-	88	-	-	-	0	17	-	71	88
100	Central banks	-	-	-	-	-	-	-	-	-	-	-	-
110	General governments	0	0	-	-	-	-	-	-	-	-	-	-
120	Credit institutions	39	39	-	68	-	-	-	-	-	-	68	68
130	Other financial corporations	155	155	-	-	-	-	-	-	-	-	-	-
140	Non-financial corporations	370	370	-	20	-	-	-	0	17	-	3	20
150	Off-balance sheet exposures	212											
160	Central banks	-											
170	General governments	-											
180	Credit institutions	56											
190	Other financial corporations	156											
200	Non-financial corporations	-											
210	Households	-											
220	Total	\$ 239,694	\$ 239,482	-	\$ 157	-	-	-	\$ 13	\$ 17	\$ 56	\$ 71	\$ 157

Pillar 3 Disclosures

GSIB

\$ millions

December 2020

		Gross carrying amount / Nominal amount											
		Performing exposures			Non-performing exposures								Of which default- ed
			Not past due or Past due <= 30 days	Past due > 30 days <= 90 days	Unlikely to pay that are not past-due or past-due <= 90 days	Past due > 90 days <= 180 days	Past due > 180 days <= 1 year	Past due > 1 year <= 2 years	Past due > 2 year <= 5 years	Past due > 5 year <= 7 years	Past due > 7 years		
010	Loans and advances											\$ 45,192	
020	Central banks	127	127	-	-	-	-	-	-	-	-	-	-
030	General governments	20	20	-	-	-	-	-	-	-	-	-	-
040	Credit institutions	274	274	-	-	-	-	-	-	-	-	-	-
050	Other financial corporations	41,399	41,399	-	-	-	-	-	-	-	-	-	-
060	Non-financial corporations	2,746	2,746	-	2	2	-	-	-	-	-	-	2
070	Of which SMEs	-	-	-	-	-	-	-	-	-	-	-	-
080	Households	626	626	-	-	-	-	-	-	-	-	-	-
090	Debt Securities	3,048	3,048	-	-	-	-	-	-	-	-	-	-
100	Central banks	-	-	-	-	-	-	-	-	-	-	-	-
110	General governments	2,102	2,102	-	-	-	-	-	-	-	-	-	-
120	Credit institutions	-	-	-	-	-	-	-	-	-	-	-	-
130	Other financial corporations	946	946	-	-	-	-	-	-	-	-	-	-
140	Non-financial corporations	-	-	-	-	-	-	-	-	-	-	-	-
150	Off-balance sheet exposures	6,588											
160	Central banks	-											
170	General governments	-											
180	Credit institutions	-											
190	Other financial corporations	1,985											
200	Non-financial corporations	4,600											
210	Households	3											
220	Total	\$ 54,828	\$ 48,240	-	\$ 2	\$ 2	-	-	-	-	-	-	\$ 2

Pillar 3 Disclosures

Table 65: Performing and Non-performing Exposures and Related Provisions

GSGUK

\$ millions														Dec 2020		
		Gross carrying amount/nominal amount						Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions						Accumulated partial write-off	Collateral and financial guarantees received	
		Performing exposures			Non-performing exposures			Performing exposures – accumulated impairment and provisions			Non-performing exposures – accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions				On performing exposures	On non-performing exposures
		Of which stage 1	Of which stage 2		Of which stage 2	Of which stage 3		Of which stage 1	Of which stage 2		Of which stage 2	Of which stage 3				
1	Loans and advances	\$ 269,855	\$ 269,419	\$ 436	\$ 71	-	\$ 2	\$ 129	\$ 93	\$ 36	\$ 24	-	\$ 1	\$ 8	\$ 184,274	-
2	Central banks	3,666	3,666	-	-	-	-	-	-	-	-	-	-	-	3,090	-
3	General governments	1,752	1,752	-	-	-	-	-	-	-	-	-	-	-	761	-
4	Credit institutions	21,606	21,606	-	56	-	-	-	-	-	22	-	-	-	9,796	-
5	Other financial corporations	237,950	237,674	276	-	-	-	68	52	15	-	-	-	-	169,068	-
6	Non-financial corporations	3,998	3,842	\$ 156	15	-	2	46	26	21	2	-	1	8	795	-
7	Of which SMEs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Households	883	879	4	-	-	-	15	15	0	-	-	-	-	764	-
9	Debt securities	3,555	3,555	-	88	-	-	-	-	-	16	-	-	-	-	-
10	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	General governments	2,102	2,102	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Credit institutions	39	39	-	68	-	-	-	-	-	-	-	-	-	-	-
13	Other financial corporations	711	711	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Non-financial corporations	703	703	-	20	-	-	-	-	-	16	-	-	-	-	-
15	Off-balance-sheet exposures	6,800	6,501	299	-	-	-	21	14	7	-	-	-	-	-	-
16	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	General governments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Credit institutions	56	56	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Other financial corporations	2,141	2,125	16	-	-	-	6	6	0	-	-	-	-	-	-
20	Non-financial corporations	4,600	4,320	280	-	-	-	15	8	7	-	-	-	-	-	-
21	Households	3	0	3	-	-	-	0	0	0	-	-	-	-	-	-
22	Total	\$ 280,210	\$ 279,475	\$ 735	\$ 159	-	\$ 2	\$ 108	\$ 79	\$ 29	\$ 40	-	\$ 1	\$ 8	\$ 184,274	-

Pillar 3 Disclosures

GSI

\$ millions

Dec 2020

	Gross carrying amount/nominal amount						Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions						Accumulated partial write-off	Collateral and financial guarantees received		
	Performing exposures			Non-performing exposures			Performing exposures – accumulated impairment and provisions			Non-performing exposures – accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions				On performing exposures	On non-performing exposures	
		Of which stage 1	Of which stage 2		Of which stage 2	Of which stage 3		Of which stage 1	Of which stage 2		Of which stage 2	Of which stage 3				
1	Loans and advances	\$ 238,918	\$ 238,918	-	\$ 69	-	-	\$ 129	\$ 93	\$ 36	\$ 23	-	-	-	\$ 157,520	-
2	Central banks	3,532	3,532	-	-	-	-	-	-	-	-	-	-	-	3,090	-
3	General governments	1,721	1,721	-	-	-	-	-	-	-	-	-	-	-	761	-
4	Credit institutions	21,756	21,756	-	56	-	-	-	-	-	22	-	-	-	9,796	-
5	Other financial corporations	210,498	210,498	-	-	-	-	68	52	15	-	-	-	-	143,698	-
6	Non-financial corporations	1,242	1,242	-	13	-	-	46	26	21	1	-	-	-	111	-
7	Of which SMEs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Households	169	169	-	-	-	-	15	15	0	-	-	-	-	64	-
9	Debt securities	564	564	-	88	-	-	-	-	-	16	-	-	-	-	-
10	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	General governments	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Credit institutions	39	39	-	68	-	-	-	-	-	-	-	-	-	-	-
13	Other financial corporations	155	155	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Non-financial corporations	370	370	-	20	-	-	-	-	-	16	-	-	-	-	-
15	Off-balance-sheet exposures	212	212	-	-	-	-	21	14	7	-	-	-	-	-	-
16	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	General governments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Credit institutions	56	56	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Other financial corporations	156	156	-	-	-	-	6	6	0	-	-	-	-	-	-
20	Non-financial corporations	-	-	-	-	-	-	15	8	7	-	-	-	-	-	-
21	Households	-	-	-	-	-	-	0	0	0	-	-	-	-	-	-
22	Total	\$ 239,694	\$ 239,694	-	\$ 157	-	-	\$ 108	\$ 79	\$ 29	\$ 39	-	-	-	\$ 157,520	-

Pillar 3 Disclosures

GSIB

\$ millions

Dec 2020

	Gross carrying amount/nominal amount						Accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions						Accumulated partial write-off	Collateral and financial guarantees received		
	Performing exposures			Non-performing exposures			Performing exposures – accumulated impairment and provisions			Non-performing exposures – accumulated impairment, accumulated negative changes in fair value due to credit risk and provisions				On performing exposures	On non-performing exposures	
		Of which stage 1	Of which stage 2		Of which stage 2	Of which stage 3		Of which stage 1	Of which stage 2		Of which stage 2	Of which stage 3				
1	Loans and advances	\$ 45,192	\$ 44,756	\$ 436	\$ 2	-	\$ 2	\$ 129	\$ 93	\$ 36	\$ 1	-	\$ 1	\$ 8	\$ 40,125	-
2	Central banks	127	127	-	-	-	-	-	-	-	-	-	-	-	-	-
3	General governments	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Credit institutions	274	\$ 274	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Other financial corporations	41,399	41,123	\$ 276	-	-	-	68	52	15	-	-	-	-	38,830	-
6	Non-financial corporations	2,746	2,590	\$ 156	2	-	2	46	26	21	1	-	1	8	684	-
7	Of which SMEs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Households	626	622	\$ 4	-	-	-	15	15	0	-	-	-	-	611	-
9	Debt securities	3,048	3,048	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	General governments	2,102	2,102	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Credit institutions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Other financial corporations	946	946	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Non-financial corporations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Off-balance-sheet exposures	6,588	6,289	299	-	-	-	21	14	7	-	-	-	-	-	-
16	Central banks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	General governments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Credit institutions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Other financial corporations	1,985	1,969	16	-	-	-	6	6	0	-	-	-	-	-	-
20	Non-financial corporations	4,600	4,320	280	-	-	-	15	8	7	-	-	-	-	-	-
21	Households	3	0	3	-	-	-	0	0	0	-	-	-	-	-	-
22	Total	\$ 54,828	\$ 54,093	\$ 735	\$ 2	-	\$ 2	\$ 150	\$ 107	\$ 43	\$ 1	-	\$ 1	\$ 8	\$ 40,125	-

Pillar 3 Disclosures**Table 66: Collateral Obtained by Taking Possession and Execution Processes****GSGUK**

<i>\$ in millions</i>	As of December 2020	
	Collateral obtained by taking possession accumulated	
	Value at initial recognition	Accumulated negative changes
Property Plant and Equipment (PP&E)	-	-
Other than Property Plant and Equipment	25	4
<i>Residential immovable property</i>	-	-
<i>Commercial Immovable property</i>	-	-
<i>Movable property (auto, shipping, etc.)</i>	-	-
<i>Equity and debt instruments</i>	25	4
<i>Other</i>	-	-
Total	\$ 25	\$ 4

GSI

<i>\$ in millions</i>	As of December 2020	
	Collateral obtained by taking possession accumulated	
	Value at initial recognition	Accumulated negative changes
Property Plant and Equipment (PP&E)	-	-
Other than Property Plant and Equipment	25	4
<i>Residential immovable property</i>	-	-
<i>Commercial Immovable property</i>	-	-
<i>Movable property (auto, shipping, etc.)</i>	-	-
<i>Equity and debt instruments</i>	25	4
<i>Other</i>	-	-
Total	\$ 25	\$ 4

Table 67: IRB (Equity Exposures Subject to the Simple Risk - Weighted Approach)¹

GSGUK

\$ in millions **As of December 2020**

Equities under the simple risk-weighted approach						
Categories	On BS amount	Off BS amount	Risk Weight	Exposure Amount	RWAs	Capital Requirements
Exchange-traded equity exposures	\$ 533	-	290%	\$ 533	\$ 1,545	\$ 124
Other Equity Exposures	\$ 78	-	370%	\$ 78	\$ 288	\$ 23
Total	\$ 611			\$ 611	\$ 1,833	\$ 147

GSI

\$ in millions **As of December 2020**

Equities under the simple risk-weighted approach						
Categories	On BS amount	Off BS amount	Risk Weight	Exposure Amount	RWAs	Capital Requirements
Exchange-traded equity exposures	\$ 533	-	290%	\$ 533	\$ 1,545	\$ 124
Other Equity Exposures	\$ 78	-	370%	\$ 78	\$ 288	\$ 23
Total	\$ 611			\$ 611	\$ 1,833	\$ 147

1. GSGUK and its subsidiaries do not have private equity exposures which are risk-weighted at 190%.

Pillar 3 Disclosures

Table 68: IRB Approach - Credit Risk Exposures by Exposure Class and PD Range

GSGUK

\$ in millions As of December 2020

PD Scale	Original on - BS gross exposures	Off-BS exposures pre-CCF	Average CCF	EAD post CRM and post CCF	Average PD	Number of Obligors	Average LGD	Average Maturity	RWAs	RWA density	EL	Value Adjustments and provisions
Central governments or central banks												
0.00 to <0.15	\$ 49,675	-	-	\$ 49,675	0.0003	23	0.5000	1.1692	\$ 4,852	10%	\$ 8	
0.15 to <0.25	16	-	-	16	0.0017	7	0.5000	1.0000	5	32%	0	
0.25 to <0.50	11	-	-	11	0.0026	2	0.5000	1.0000	5	42%	0	
0.50 to <0.75	8	-	-	8	0.0067	3	0.5000	1.0000	6	72%	0	
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	
2.50 to <10.00	0	-	-	0	0.0667	3	0.5000	1.0000	1	174%	0	
10.00 to <100.00	0	-	-	0	0.2378	2	0.5000	1.0000	1	272%	0	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Subtotal	\$ 49,710	-	-	\$ 49,710	0.0003	40	0.5000	1.1691	\$ 4,870	10%	\$ 8	-
Institutions												
0.00 to <0.15	\$ 15,529	\$ 480	6%	\$ 14,799	0.0007	502	0.6879	1.5013	\$ 3,458	23%	\$ 5	
0.15 to <0.25	856	213	67%	1,016	0.0018	157	0.6489	1.3344	630	62%	1	
0.25 to <0.50	265	-	-	265	0.0026	56	0.6529	1.0000	193	73%	0	
0.50 to <0.75	407	-	-	407	0.0066	48	0.6695	1.2576	523	128%	2	
0.75 to <2.50	179	-	-	178	0.0210	150	0.6543	1.0000	330	185%	2	
2.50 to <10.00	117	-	-	117	0.0906	17	0.5586	4.3934	362	310%	6	
10.00 to <100.00	80	-	-	80	0.2378	28	0.6607	1.0000	323	405%	13	
100.00 (Default)	93	-	-	93	1.0000	4	0.6800	3.5665	287	309%	-	
Subtotal	17,526	693.06055	97%	16,955	0.0084	962	0.6832	1.5012	\$ 6,106	36%	\$ 29	\$ 1
Corporates												
0.00 to <0.15	\$ 3,750	\$ 1,421	26%	\$ 4,816	0.0005	347	0.6045	1.5795	\$ 1,151	24%	\$ 1	
0.15 to <0.25	1,627	1,265	64%	3,002	0.0022	128	0.7384	2.8564	1,921	64%	3	
0.25 to <0.50	405	1,003	95%	1,154	0.0028	86	0.6377	3.7043	1,043	90%	2	
0.50 to <0.75	799	968	83%	1,986	0.0063	82	0.6822	2.2339	2,549	128%	9	
0.75 to <2.50	1,418	479	177%	2,972	0.0174	286	0.6741	2.6700	6,062	204%	34	
2.50 to <10.00	1,498	2,129	103%	3,207	0.0817	97	0.5617	2.8016	8,471	264%	149	
10.00 to <100.00	1,008	197	330%	1,156	0.2378	217	0.5787	2.9764	4,242	367%	159	
100.00 (Default)	18	-	-	18	1.0000	9	0.6306	3.9747	80	446%	-	
Subtotal	\$ 10,523	\$ 7,462	70%	\$ 18,311	0.0345	1,252	0.6392	2.4753	\$ 25,519	139%	\$ 357	\$ 13
Total (all portfolios)	\$ 77,759	\$ 8,155	72%	\$ 84,976	0.0089	2,254	0.5413	1.4494	\$ 36,495	42%	\$ 394	\$ 14

Pillar 3 Disclosures

GSI

\$ in millions

As of December 2020

PD Scale	Original on - BS gross exposures	Off-BS exposures pre-CCF	Average CCF	EAD post CRM and post CCF	Average PD	Number of Obligors	Average LGD	Average Maturity	RWAs	RWA density	EL	Value Adjustments and provisions
Central governments or central banks												
0.00 to <0.15	\$ 37,606	-	-	\$ 37,606	0.0003	14	0.5000	1.0000	\$ 3,331	9%	\$ 6	
0.15 to <0.25	9	-	-	9	0.0017	3	0.5000	1.0000	3	32%	0	
0.25 to <0.50	11	-	-	11	0.0026	1	0.5000	1.0000	5	42%	0	
0.50 to <0.75	-	-	-	-	-	-	-	-	-	-	-	
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	
2.50 to <10.00	-	-	-	-	-	-	-	-	-	-	-	
10.00 to <100.00	-	-	-	-	-	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Subtotal	\$ 37,626	-	-	\$ 37,626	0.0003	18	0.5000	1.0000	\$ 3,339	9%	\$ 6	-
Institutions												
0.00 to <0.15	\$ 13,814	-	-	\$ 13,814	0.0006	432	0.5679	1.0413	\$ 3,194	23%	\$ 5	
0.15 to <0.25	492	-	-	492	0.0017	142	0.6572	1.0001	278	57%	1	
0.25 to <0.50	265	-	-	265	0.0026	55	0.6529	1.0000	193	73%	0	
0.50 to <0.75	340	-	-	340	0.0066	46	0.6815	1.0000	427	126%	2	
0.75 to <2.50	178	-	-	178	0.0210	148	0.6543	1.0000	330	185%	2	
2.50 to <10.00	50	-	-	50	0.0958	15	0.6346	4.3219	177	357%	3	
10.00 to <100.00	80	-	-	80	0.2378	27	0.6607	1.0000	323	405%	12	
100.00 (Default)	93	-	-	93	1.0000	4	0.6800	3.5665	287	309%	-	
Subtotal	15,312	-	-	15,312	0.0086	869	0.5771	1.0637	\$ 5,209	34%	\$ 25	-
Corporates												
0.00 to <0.15	\$ 2,705	-	-	\$ 2,705	0.0005	299	0.6231	1.1376	\$ 608	22%	\$ 1	
0.15 to <0.25	996	-	-	1,422	0.0018	85	0.6588	1.5401	935	66%	2	
0.25 to <0.50	141	-	-	141	0.0026	52	0.6509	1.0000	101	72%	0	
0.50 to <0.75	409	300	-	1,095	0.0063	51	0.7442	1.6935	1,481	135%	5	
0.75 to <2.50	461	-	-	1,656	0.0160	255	0.7815	1.9833	3,735	226%	21	
2.50 to <10.00	305	1,227	-	1,334	0.0910	25	0.6452	1.3486	3,956	296%	78	
10.00 to <100.00	587	-	-	587	0.2378	124	0.6467	2.3012	2,365	403%	90	
100.00 (Default)	15	-	-	15	1.0000	7	0.6534	4.4572	79	514%	-	
Subtotal	\$ 5,619	\$ 1,527	-	\$ 8,955	0.0351	898	0.6782	1.5371	\$ 13,260	148%	\$ 197	-
Total (all portfolios)	\$ 58,557	\$ 1,527	-	\$ 61,893	0.0074	1,785	0.5449	1.0935	\$ 21,808	35%	\$ 228	-

Pillar 3 Disclosures

GSIB

\$ in millions

As of December 2020

PD Scale	Original on - BS gross exposures	Off-BS exposures pre-CCF	Average CCF	EAD post CRM and post CCF	Average PD	Number of Obligors	Average LGD	Average Maturity	RWAs	RWA density	EL	Value Adjustments and provisions
Central governments or central banks												
0.00 to <0.15	\$ 12,069	-	13%	\$ 12,069	0.0003	9	0.5000	1.6964	\$ 1,521	13%	\$ 2	
0.15 to <0.25	7	-	33%	7	0.0018	4	0.5000	1.0000	2	33%	0	
0.25 to <0.50	0	-	42%	0	0.0026	1	0.5000	1.0000	0	42%	0	
0.50 to <0.75	8	-	72%	8	0.0067	3	0.5000	1.0000	6	72%	0	
0.75 to <2.50	-	-	-	-	-	-	-	-	-	-	-	
2.50 to <10.00	0	-	174%	0	0.0667	3	0.5000	1.0000	1	174%	0	
10.00 to <100.00	0	-	272%	0	0.2378	2	0.5000	1.0000	1	272%	0	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Subtotal	\$ 12,084	-	100%	\$ 12,084	0.0003	22	0.5000	1.6956	\$ 1,531	13%	\$ 2	-
Institutions												
0.00 to <0.15	\$ 4,331	\$ 480	6%	\$ 4,147	0.0006	62	0.5632	1.8887	\$ 265	6%	\$ 0	
0.15 to <0.25	364	213	67%	524	0.0018	15	0.6412	1.6480	351	67%	1	
0.25 to <0.50	0	-	73%	0	0.0026	1	0.6561	1.0000	0	73%	0	
0.50 to <0.75	67	-	142%	67	0.0067	2	0.6090	2.5558	96	142%	0	
0.75 to <2.50	0	-	190%	0	0.0237	2	0.6438	1.0000	0	190%	0	
2.50 to <10.00	67	-	275%	67	0.0869	2	0.5027	4.4461	185	275%	3	
10.00 to <100.00	0	-	361%	0	0.2378	1	0.6641	1.0000	0	361%	0	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Subtotal	\$ 4,829	\$ 693	97%	\$ 4,805	0.0020	85	0.5715	1.9076	\$ 897	19%	\$ 4	\$ 1
Corporates												
0.00 to <0.15	\$ 1,045	\$ 1,421	26%	\$ 2,111	0.0005	49	0.5806	2.1456	\$ 543	26%	\$ 1	
0.15 to <0.25	1,334	1,265	64%	2,282	0.0018	42	0.5607	2.7973	1,469	64%	2	
0.25 to <0.50	352	1,003	95%	1,104	0.0026	31	0.5839	3.7460	1,049	95%	2	
0.50 to <0.75	390	668	120%	891	0.0064	31	0.6059	2.8983	1,068	120%	3	
0.75 to <2.50	957	479	177%	1,317	0.0191	31	0.5389	3.5335	2,327	177%	14	
2.50 to <10.00	1,193	905	241%	1,872	0.0751	71	0.5022	3.8373	4,515	241%	70	
10.00 to <100.00	421	197	330%	569	0.2378	93	0.5085	3.6724	1,877	330%	68	
100.00 (Default)	3	-	25%	3	1.0000	2	0.4899	1.0021	1	25%	-	
Subtotal	\$ 5,695	\$ 5,938	87%	\$ 10,149	0.0313	350	0.5548	3.1098	\$ 12,849	127%	\$ 160	\$ 13
Total (all portfolios)	\$ 22,608	\$ 6,631	94%	\$ 27,038	0.0122	457	0.5333	2.2640	\$ 15,277	57%	\$ 166	\$ 14

Pillar 3 Disclosures

Table 69: IRB Approach - Backtesting of PD per Exposure Class

GSGUK

Exposure class	PD Range		External rating equivalent		Weighted average PD	Arithmetic average PD by obligors	Number of obligors ¹		Defaulted obligors in the year	of which: new defaulted obligors in the year	Average historical annual default rate (5 years)
	Min	Max	Min	Max			Beginning of the year	End of the year			
Central governments or central banks	0.01%	23.78%	AAA	CCC	0.03%	1.83%	15	40	1	1	0.00%
Institutions	0.03%	23.78%	AAA	CCC	0.24%	1.22%	200	939	8	7	1.00%
Corporates	0.03%	23.78%	AAA	CCC	3.88%	5.26%	543	1,241	17	10	1.62%

GSI

Exposure class	PD Range		External rating equivalent		Weighted average PD	Arithmetic average PD by obligors	Number of obligors ¹		Defaulted obligors in the year	of which: new defaulted obligors in the year	Average historical annual default rate (5 years)
	Min	Max	Min	Max			Beginning of the year	End of the year			
Central governments or central banks	0.01%	0.26%	AAA	CCC	0.03%	0.06%	5	18	1	1	0.00%
Institutions	0.03%	23.78%	AAA	CCC	0.26%	1.27%	137	865	7	6	1.38%
Corporates	0.03%	23.78%	AAA	CCC	4.67%	4.07%	241	891	13	6	2.23%

GSIB

Exposure class	PD Range		External rating equivalent		Weighted average PD	Arithmetic average PD by obligors	Number of obligors ¹		Defaulted obligors in the year	of which: new defaulted obligors in the year	Average historical annual default rate (5 years)
	Min	Max	Min	Max			Beginning of the year	End of the year			
Central governments or central banks	0.01%	23.78%	AAA	CCC	0.03%	3.28%	10	22	-	-	0.00%
Institutions	0.03%	23.78%	AAA	CCC	0.20%	0.69%	63	74	1	1	0.00%
Corporates	0.03%	23.78%	AAA	CCC	3.13%	8.27%	302	350	4	4	0.62%

1. Defaulted counterparties are excluded from the number of obligors

Pillar 3 Disclosures**Table 70: Exposure-Weighted Average LGD and PD by Geography****GSGUK**

		LGD			PD		
		EMEA	Americas	Asia	EMEA	Americas	Asia
1	Central governments or central banks	50.00%	50.00%	50.00%	0.03%	0.04%	0.02%
2	Institutions	65.46%	52.49%	64.52%	0.83%	0.07%	0.08%
3	Corporates	60.26%	68.22%	62.47%	3.74%	2.08%	2.27%

GSI

		LGD			PD		
		EMEA	Americas	Asia	EMEA	Americas	Asia
1	Central governments or central banks	50.00%	50.00%	50.00%	0.03%	0.01%	0.01%
2	Institutions	65.93%	53.08%	64.52%	1.01%	0.07%	0.08%
3	Corporates	66.48%	73.26%	62.65%	4.36%	1.46%	2.44%

GSIB

		LGD			PD		
		EMEA	Americas	Asia	EMEA	Americas	Asia
1	Central governments or central banks	50.00%	50.00%	50.00%	0.03%	0.05%	9.75%
2	Institutions	59.88%	42.26%	64.93%	0.20%	0.06%	0.06%
3	Corporates	55.72%	47.17%	61.97%	3.06%	4.66%	1.77%

Pillar 3 Disclosures

Table 71: Standardised Approach - Credit Risk Exposure and CRM Effects

GSGUK

\$ in millions

						As of December 2020	
Exposure classes		Exposures before CCF and CRM		Exposures post CCF and CRM		RWAs and RWA density	
		On-balance-sheet amount	Off-balance-sheet amount	On-balance-sheet amount	Off-balance-sheet amount	RWAs	RWA density
1	Central governments or central banks	-	-	-	-	-	-
6	Institutions	381	-	381	-	126	33%
7	Corporates	777	-	777	-	777	100%
8	Retail	33	-	33	-	28	84%
9	Secured by mortgages on immovable property	135	-	135	-	47	35%
10	Exposures in default	-	-	-	-	-	-
11	Higher-risk categories	1,114	-	1,114	-	1,671	150%
15	Equity	152	-	152	-	152	100%
16	Other items	1,072	-	1,072	-	1,619	151%
17	Total	\$ 3,664	-	\$ 3,664	-	\$ 4,420	121%

GSI

\$ in millions

						As of December 2020	
Exposure classes		Exposures before CCF and CRM		Exposures post CCF and CRM		RWAs and RWA density	
		On-balance-sheet amount	Off-balance-sheet amount	On-balance-sheet amount	Off-balance-sheet amount	RWAs	RWA density
1	Central governments or central banks	-	-	-	-	-	-
6	Institutions	-	-	-	-	-	-
7	Corporates	623	-	623	-	623	100%
8	Retail	-	-	-	-	-	-
9	Secured by mortgages on immovable property	-	-	-	-	-	-
10	Exposures in default	-	-	-	-	-	-
11	Higher-risk categories	-	-	-	-	-	-
15	Equity	-	-	-	-	-	-
16	Other items	679	-	679	-	1,225	181%
17	Total	\$ 1,302	-	\$ 1,302	-	\$ 1,848	142%

GSIB

\$ in millions

						As of December 2020	
Exposure classes		Exposures before CCF and CRM		Exposures post CCF and CRM		RWAs and RWA density	
		On-balance-sheet amount	Off-balance-sheet amount	On-balance-sheet amount	Off-balance-sheet amount	RWAs	RWA density
1	Central governments or central banks	-	-	-	-	-	-
6	Institutions	-	-	-	-	-	-
7	Corporates	12	-	12	-	12	100%
8	Retail	11	-	11	-	8	75%
9	Secured by mortgages on immovable property	56	-	56	-	20	36%
10	Exposures in default	10	-	10	-	11	110%
11	Higher-risk categories	-	-	-	-	-	-
15	Equity	-	-	-	-	-	-
16	Other items	17	-	17	-	\$ 17	100%
17	Total	\$ 106	-	\$ 106	-	\$ 68	64%

Pillar 3 Disclosures

Table 72: Standardised Approach

GSGUK

\$ in millions

As of December 2020

Exposure classes	Risk weight								Total	Of which unrated
	0%	20%	35%	50%	75%	100%	150%	250%		
1 Central governments or central banks	-	-	-	-	-	-	-	-	-	-
6 Institutions	-	215	-	166	-	-	-	-	381	-
7 Corporates	-	-	-	-	-	777	-	-	777	648
8 Retail	-	-	-	-	23	-	-	-	23	23
9 Secured by mortgages on immovable property	-	-	134	-	-	9	1	-	145	134
10 Exposures in default	-	-	-	-	-	-	-	-	-	-
11 Higher-risk categories	-	-	-	-	-	-	1,114	-	1,114	785
15 Equity	-	-	-	-	-	152	-	-	152	152
16 Other items	-	-	-	-	-	708	-	364	1,072	1,072
17 Total	-	\$ 215	\$ 134	\$ 166	\$ 23	\$ 1,646	\$ 1,115	\$ 364	\$ 3,664	\$ 2,814

GSI

\$ in millions

As of December 2020

Exposure classes	Risk weight								Total	Of which unrated
	0%	20%	35%	50%	75%	100%	150%	250%		
1 Central governments or central banks	-	-	-	-	-	-	-	-	-	-
6 Institutions	-	-	-	-	-	-	-	-	-	-
7 Corporates	-	-	-	-	-	623	-	-	623	623
8 Retail	-	-	-	-	-	-	-	-	-	-
9 Secured by mortgages on immovable property	-	-	-	-	-	-	-	-	-	-
10 Exposures in default	-	-	-	-	-	-	-	-	-	-
11 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
15 Equity	-	-	-	-	-	-	-	-	-	-
16 Other items	-	-	-	-	-	314	-	365	679	679
17 Total	-	-	-	-	-	\$ 937	-	\$ 365	\$ 1,302	\$ 1,302

GSIB

\$ in millions

As of December 2020

Exposure classes	Risk weight								Total	Of which unrated
	0%	20%	35%	50%	75%	100%	150%	250%		
1 Central governments or central banks	-	-	-	-	-	-	-	-	-	-
6 Institutions	-	-	-	-	-	-	-	-	-	-
7 Corporates	-	-	-	-	-	12	-	-	12	12
8 Retail	-	-	-	-	11	-	-	-	11	11
9 Secured by mortgages on immovable property	-	-	56	-	-	-	-	-	56	56
10 Exposures in default	-	-	-	-	-	9	1	-	10	10
11 Higher-risk categories	-	-	-	-	-	-	-	-	-	-
15 Equity	-	-	-	-	-	-	-	-	-	-
16 Other items	-	-	-	-	-	17	-	-	17	17
17 Total	-	-	\$ 56	-	\$ 11	\$ 38	\$ 1	-	\$ 106	\$ 106

Pillar 3 Disclosures

Appendix III: Counterparty Credit Risk Tables

Table 73: IRB Approach - CCR Exposures by Portfolio and PD Scale

GSGUK

\$ in millions

As of December 2020

	PD Scale	EAD post CRM	Average PD	Number of Obligors	Average LGD	Average Maturity	RWAs	RWA density
Sovereign								
	0.00 to <0.15	\$ 11,707	0.00028	53	0.5019	1.12	\$ 906	8%
	0.15 to <0.25	5,597	0.00180	10	0.5000	1.85	2,350	42%
	0.25 to <0.50	144	0.00260	12	0.5000	1.33	66	46%
	0.50 to <0.75	264	0.00608	10	0.5000	1.23	188	71%
	0.75 to <2.50	78	0.02370	1	0.5000	5.00	140	179%
	2.50 to <10.00	4	0.09177	4	0.5000	1.00	9	199%
	10.00 to <100.00	0	0.23780	1	0.5000	1.00	0	272%
	100.00 (Default)	-	-	-	-	-	-	0%
	Subtotal	\$ 17,794	0.00099	91	0.5013	1.37	\$ 3,659	21%
Institutions								
	0.00 to <0.15	\$ 53,212	0.00058	3,234	0.6321	1.80	\$ 15,816	30%
	0.15 to <0.25	11,158	0.00174	940	0.6554	1.83	7,019	63%
	0.25 to <0.50	2,525	0.00260	597	0.6576	1.51	2,062	82%
	0.50 to <0.75	5,871	0.00656	428	0.6677	1.27	5,186	88%
	0.75 to <2.50	2,379	0.01751	1,702	0.6657	1.07	4,189	176%
	2.50 to <10.00	1,276	0.07083	92	0.6445	4.07	3,707	291%
	10.00 to <100.00	196	0.23780	182	0.6876	1.71	790	403%
	100.00 (Default)	2	0.99900	2	0.6560	0.01	1	69%
	Subtotal	\$ 76,619	0.00360	7,177	0.6405	1.77	\$ 38,770	51%
Corporates								
	0.00 to <0.15	\$ 32,441	0.00047	1,652	0.6079	1.77	\$ 8,355	26%
	0.15 to <0.25	7,743	0.00173	604	0.6360	3.38	6,968	90%
	0.25 to <0.50	4,109	0.00260	340	0.6308	1.94	3,144	77%
	0.50 to <0.75	3,072	0.00633	949	0.6982	2.32	4,573	149%
	0.75 to <2.50	4,927	0.01752	1,336	0.7384	1.61	9,963	202%
	2.50 to <10.00	1,826	0.08534	448	0.6816	1.97	5,558	304%
	10.00 to <100.00	1,063	0.23780	498	0.6239	2.59	3,939	371%
	100.00 (Default)	1	0.99900	1	0.6616	1.77	0	46%
	Subtotal	\$ 55,182	0.01005	5,828	0.6330	2.05	\$ 42,500	77%
	Total (all portfolios)	\$ 149,595	0.00567	13,096	0.6211	1.82	\$ 84,929	57%

Pillar 3 Disclosures

GSI

\$ in millions

As of December 2020

	PD Scale	EAD post CRM	Average PD	Number of Obligors	Average LGD	Average Maturity	RWAs	RWA density
Sovereign								
	0.00 to <0.15	\$ 11,707	0.0003	53	0.5019	1.12	\$ 906	8%
	0.15 to <0.25	5,597	0.0018	10	0.5000	1.85	2,350	42%
	0.25 to <0.50	144	0.0026	12	0.5000	1.33	66	46%
	0.50 to <0.75	264	0.0061	10	0.5000	1.23	188	71%
	0.75 to <2.50	78	0.0237	1	0.5000	5.00	140	179%
	2.50 to <10.00	4	0.0918	4	0.5000	1.00	9	199%
	10.00 to <100.00	0	0.2378	1	0.5000	1.00	0	272%
	100.00 (Default)	-	-	-	-	-	-	0%
	Subtotal	\$ 17,794	0.0010	91	0.5013	1.37	\$ 3,659	21%
Institutions								
	0.00 to <0.15	\$ 51,856	0.0006	3,191	0.6188	1.79	\$ 15,714	30%
	0.15 to <0.25	11,081	0.0017	933	0.6554	1.83	6,969	63%
	0.25 to <0.50	2,502	0.0026	591	0.6575	1.51	2,041	82%
	0.50 to <0.75	5,866	0.0066	425	0.6677	1.27	5,180	88%
	0.75 to <2.50	2,378	0.0175	1,698	0.6657	1.07	4,188	176%
	2.50 to <10.00	1,276	0.0708	92	0.6445	4.07	3,707	291%
	10.00 to <100.00	194	0.2378	171	0.6879	1.72	782	403%
	100.00 (Default)	2	0.9990	2	0.6560	0.01	1	69%
	Subtotal	\$ 75,155	0.0036	7,103	0.6314	1.76	\$ 38,582	51%
Corporates								
	0.00 to <0.15	\$ 32,397	0.0005	1,643	0.6080	1.77	\$ 8,342	26%
	0.15 to <0.25	7,600	0.0017	408	0.6332	3.41	6,878	90%
	0.25 to <0.50	3,997	0.0026	336	0.6299	1.85	2,970	74%
	0.50 to <0.75	3,061	0.0063	943	0.6983	2.33	4,561	149%
	0.75 to <2.50	4,913	0.0175	1,324	0.7385	1.61	9,931	202%
	2.50 to <10.00	1,809	0.0856	447	0.6830	1.94	5,509	304%
	10.00 to <100.00	1,015	0.2378	389	0.6223	2.60	3,748	369%
	100.00 (Default)	1	0.9990	1	0.6616	1.77	0	46%
	Subtotal	\$ 54,793	0.0099	5,491	0.6326	2.04	\$ 41,939	77%
	Total (all portfolios)	\$ 147,742	0.0056	12,685	0.0056	1.82	\$ 84,180	57%

GSIB

\$ in millions

As of December 2020

	PD Scale	EAD post CRM	Average PD	Number of Obligors	Average LGD	Average Maturity	RWAs	RWA density
Sovereign								
	0.00 to <0.15	-	-	-	-	-	-	0%
	0.15 to <0.25	-	-	-	-	-	-	0%
	0.25 to <0.50	-	-	-	-	-	-	0%
	0.50 to <0.75	-	-	-	-	-	-	0%
	0.75 to <2.50	-	-	-	-	-	-	0%
	2.50 to <10.00	-	-	-	-	-	-	0%
	10.00 to <100.00	-	-	-	-	-	-	0%
	100.00 (Default)	-	-	-	-	-	-	0%
	Subtotal	-	-	-	-	-	-	0%
Institutions								
	0.00 to <0.15	\$ 2,395	0.0006	34	0.6457	1.23	102	4%
	0.15 to <0.25	77	0.0018	7	0.6584	1.54	50	64%
	0.25 to <0.50	24	0.0026	6	0.6611	1.85	21	87%
	0.50 to <0.75	5	0.0063	3	0.6589	1.00	6	119%
	0.75 to <2.50	1	0.0156	4	0.6654	1.00	1	172%
	2.50 to <10.00	-	-	-	-	-	-	0%
	10.00 to <100.00	2	0.2378	11	0.6616	1.00	8	405%
	100.00 (Default)	-	-	-	-	-	-	0%
	Subtotal	\$ 2,504	0.0009	65	0.6463	1.24	\$ 188	7%
Corporates								
	0.00 to <0.15	\$ 44	0.0006	9	0.5376	1.75	\$ 13	30%
	0.15 to <0.25	143	0.0018	196	0.7852	1.48	90	63%
	0.25 to <0.50	112	0.0026	4	0.6637	4.96	174	156%
	0.50 to <0.75	11	0.0065	6	0.6648	1.00	12	112%
	0.75 to <2.50	14	0.0179	12	0.7084	2.71	32	228%
	2.50 to <10.00	17	0.0580	1	0.5354	5.00	49	282%
	10.00 to <100.00	48	0.2378	109	0.6576	2.25	191	399%
	100.00 (Default)	-	-	-	-	-	-	0%
	Subtotal	\$ 389	0.0342	337	0.6892	2.79	\$ 561	144%
	Total (all portfolios)	\$ 2,893	0.00535	402	0.6520	1.45	\$ 749	26%

Table 74: Impact of Netting and Collateral Held on Exposure Values¹

GSGUK

<i>\$ in millions</i>		As of December 2020				
	Gross positive fair value or net carrying amount	Netting benefits	Netted current credit exposure	Collateral held	Net credit exposure²	
1	Derivatives	\$ 889,357	\$ 804,898	\$ 84,459	\$ 135,631	\$ 36,764
2	SFTs	289,234	105,720	183,513	292,708	19,493
4	Total	\$ 1,178,591	\$ 910,618	\$ 267,972	\$ 428,339	\$ 56,257

GSI

<i>\$ in millions</i>		As of December 2020				
	Gross positive fair value or net carrying amount	Netting benefits	Netted current credit exposure	Collateral held	Net credit exposure²	
1	Derivatives	\$ 888,463	\$ 805,741	\$ 82,722	\$ 133,281	\$ 36,720
2	SFTs	266,329	105,720	160,608	468,139	20,151
4	Total	\$ 1,154,792	\$ 911,461	\$ 243,330	\$ 601,420	\$ 56,871

GSIB

<i>\$ in millions</i>		As of December 2020				
	Gross positive fair value or net carrying amount	Netting benefits	Netted current credit exposure	Collateral held	Net credit exposure²	
1	Derivatives	\$ 3,074	\$ 940	\$ 2,134	\$ 2,350	\$ 144
2	SFTs	33,918	-	33,918	40,245	41
4	Total	\$ 36,992	\$ 940	\$ 36,052	\$ 42,595	\$ 185

¹ GSGUK and its subsidiaries do not have cross-product netting where both derivatives and SFTs are netted at a counterparty level.

² Net credit exposure for derivatives and SFTs represents the current exposure component of the modelled EAD, and takes into account legally enforceable collateral received.

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Table 75: Composition of Collateral for Exposures to CCR

GSGUK

\$ in millions As of December 2020

	Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received	Fair value of posted collateral
	Segregated	Unsegregated	Segregated	Unsegregated		
Sovereign	\$ 12,638	\$ 14,070	\$ 11,837	\$ 24,210	\$ 222,512	\$ 163,413
Equities	17,896	3	-	-	58,958	98,176
Corporate Bonds	184	1,439	-	330	7,306	12,672
Cash	16,984	71,078	3,393	65,078	301	470
Other	1,339	-	-	1	3,631	6,154
Total	\$ 49,041	\$ 86,590	\$ 15,230	\$ 89,619	\$ 292,708	\$ 280,885

GSI

\$ in millions As of December 2020

	Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received	Fair value of posted collateral
	Segregated	Unsegregated	Segregated	Unsegregated		
Sovereign	\$ 12,485	\$ 14,070	\$ 11,837	\$ 24,210	\$ 318,196	\$ 271,527
Equities	15,935	3	-	-	132,541	146,967
Corporate Bonds	176	1,439	-	330	11,765	17,174
Cash	16,979	70,855	3,393	64,701	301	308
Other	1,339	-	-	1	5,336	7,423
Total	\$ 46,914	\$ 86,367	\$ 15,230	\$ 89,242	\$ 468,139	\$ 443,399

GSIB

\$ in millions As of December 2020

	Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received	Fair value of posted collateral
	Segregated	Unsegregated	Segregated	Unsegregated		
Sovereign	\$ 153	-	-	-	\$ 5,766	\$ 625
Equities	1,961	-	-	-	16,944	-
Corporate Bonds	8	-	-	-	17,132	-
Cash	5	223	-	377	135	162
Other	-	-	-	-	268	-
Total	\$ 2,127	\$ 223	-	\$ 377	\$ 40,245	\$ 787

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Appendix IV: Past Due Exposures, Impaired Exposures and Impairment Provisions Tables

Table 76: Changes in the Stock of General and Specific Credit Risk Adjustments¹

	As of December 2020			
	Accumulated specific credit risk adjustment		Accumulated general credit risk adjustment	
	GSGUK	GSIB	GSGUK	GSIB
<i>\$ in millions</i>				
1 Opening balance as of May 2020	\$ 25	\$ 25	-	-
2 Increases due to amounts set aside for estimated loan losses during the period	-	-	-	-
3 Decreases due to amounts reversed for estimated loan losses during the period	-	-	-	-
6 Impact of exchange rate differences	-	-	-	-
8a Position and valuation changes	(11)	(11)	-	-
9 Closing balance as of December 2020	\$ 14	\$ 14	-	-

¹Changes in specific credit risk adjustment are due to position and valuation changes rather than changes in amounts set aside for estimated loan losses, transfers between credit risk adjustments, exchange rate differences or business combinations (such as acquisitions and disposals of subsidiaries).

Table 77: Changes in the Stock of Defaulted and Impaired Loans and Debt Securities¹

	As of December 2020		
	Gross carrying value defaulted exposures		
	GSGUK	GSI	GSIB
<i>\$ in millions</i>			
1 Opening balance as of May 2020	\$ 169	\$ 156	\$ 13
2 Loans and debt securities that have defaulted or impaired since the last reporting period	\$ 13	13	-
5 Other changes	\$ (61)	(61)	-
6 Closing balance as of December 2020	\$ 121	\$ 108	\$ 13

¹There were no defaulted or impaired loans and debt securities written off or returned to non-defaulted status during the period.

Appendix V: Index of Tables to EBA Templates

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56	Template 2	EU LI2 - Main sources of differences between regulatory exposure amounts and carrying values in financial statements	80
N/A	Template 3 ¹	EU LI3 - Outline of the differences in the scopes of consolidation (entity by entity)	N/A
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67	Template 5 ²	EU CR10 - IRB (specialised lending and equities)	100
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1. Template 3 (The disclosure on differences in the scopes of consolidation) has been disclosed within the Basis of Consolidation section of the document.
2. The specialised lending section of Template 5 (IRB (specialised lending and equities)) has not been disclosed as GSGUK and its subsidiaries does not have specialised lending exposure.
3. Template 6 (Non-deducted participation in insurance undertakings) has not been disclosed as GSGUK and its subsidiaries do not have material holdings of own funds instruments of an insurance undertaking, re-insurance undertaking or an insurance holding company.
4. Template 28 (Standardised approach – CCR exposures by regulatory portfolio and risk) has not been disclosed as the material entities within GSGUK have regulatory permission from the PRA to compute risk weights in accordance with the AIRB approach. As a result, CCR exposures outside of these entities that are subject to the Standardised approach are deemed to be immaterial. The CCR exposure class, institutions, represents less than 5% of the total CCR exposure.