



Annual Report

December 31, 2023

Goldman Sachs International Bank (unlimited company)

Company Number: 01122503

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Strategic Report

Introduction

Goldman Sachs International Bank (GSIB or the bank) is involved in lending and deposit-taking activities, securities lending and acts as a primary dealer for U.K. government bonds.

The bank's primary regulators are the Prudential Regulation Authority (PRA) and the Financial Conduct Authority (FCA).

The bank's ultimate parent undertaking and controlling entity is The Goldman Sachs Group, Inc. (Group Inc.). Group Inc. is a bank holding company and a financial holding company regulated by the Board of Governors of the Federal Reserve System (FRB). In relation to the bank, "GS Group affiliate" means Group Inc. or any of its subsidiaries. Group Inc., together with its consolidated subsidiaries, form "GS Group". GS Group is a leading global financial institution that delivers a broad range of financial services to a large and diversified client base that includes corporations, financial institutions, governments and individuals. The bank's results prepared under United States Generally Accepted Accounting Principles (U.S. GAAP) are included in the consolidated financial statements of GS Group.

The bank's principal office is in the U.K., and the bank has branches in Germany (the Frankfurt branch), which holds central bank cash balances and is involved in lending and deposit-taking activities, and South Africa (the Johannesburg branch), which is involved in client execution activities.

References to "the financial statements" are to the directors' report and audited financial statements as presented in Part II of this annual report.

All references to December 2023 and 2023 refer to the year ended, or the date, as the context requires, December 31, 2023. All references to December 2022 and 2022 refer to the year ended, or the date, as the context requires, December 31, 2022.

Executive Overview

The directors consider profit for the year, total assets and Common Equity Tier 1 (CET1) capital as the bank's key performance indicators.

Income Statement

The income statement is set out on page 20 of this annual report. The bank's profit for 2023 was \$506 million, an increase of 132% compared with 2022.

Net interest income was \$764 million for 2023, compared with \$577 million for 2022. This increase primarily reflects higher interest rates received on collateralised agreements and cash and cash equivalents, partially offset by higher interest paid on deposits.

Non-interest gains were \$84 million for 2023, compared with non-interest losses of \$31 million for 2022. This increase primarily reflects mark to market on interest rate derivative instruments used for hedging interest rate risk.

Impairments on financial instruments comprised a release of \$11 million for 2023. This reflects a decrease in the allowance for impairment associated with lending activities following an improvement to the macroeconomic environment.

Operating expenses were \$160 million for 2023, compared with \$176 million for 2022. This decrease primarily reflects lower transaction based expenses and management charges from GS Group affiliates.

Balance Sheet

The balance sheet is set out on page 21 of this annual report.

As of December 2023, total assets were \$89.85 billion, an increase of \$12.87 billion from December 2022, reflecting an increase in collateralised agreements of \$14.65 billion.

As of December 2023, total liabilities were \$85.83 billion, an increase of \$12.33 billion from December 2022, reflecting an increase in deposits of \$13.22 billion. Deposits increased from \$67.84 billion as of December 2022 to \$81.06 billion as of December 2023 primarily due to an increase in deposits from institutional clients.

The bank's CET1 capital was \$3.93 billion as of December 2023 and \$3.41 billion as of December 2022.

Future Outlook

The directors consider that the year end financial position of the bank was satisfactory. No significant change in the bank's principal business activities is currently expected.

Strategic Report

Business Environment

In 2023, the global economy grew, but was impacted throughout the year by broad macroeconomic and geopolitical concerns. Concerns about persistent inflation and the economic outlook were somewhat eased by improvement in inflationary measures over the course of the year and increased expectations for a soft landing for the U.S. economy amid a slowdown in the pace of monetary policy tightening, both contributing to improved market sentiment. During the early part of the year, momentum was temporarily disrupted by stress in the banking sector, which led to the failure of certain regional banks in the U.S. and the combination of Switzerland's two largest financial institutions, resulting in a period of high interest rate volatility before concerns subsided after regional banks showed stability. Geopolitical stresses that carried over into 2023, including the conflict in Ukraine and ongoing tensions with China, remained elevated. Additionally, the renewed onset of conflict in the Middle East added to the uncertainty of global stability. The above factors contributed to higher global equity prices compared with the end of 2022 and pressure in the commercial real estate market.

Principal Risks and Uncertainties

The bank faces a variety of risks that are substantial and inherent in its businesses.

The principal risks and uncertainties that the bank faces are: market risk, liquidity risk, credit risk, operational risk, legal and regulatory risk, competition risk, and market developments and general business environment risk. These risks have been summarised below.

These risks are primarily addressed through the bank's corporate governance framework, see "Directors' Report – Corporate Governance" for further information. For further information about liquidity risk, market risk and credit risk and the bank's mitigants, see Note 29 to the financial statements. Legal and regulatory risks are primarily managed by the bank's independent risk oversight and control functions. Market developments and general business environment risks are overseen by a series of committees, councils and working groups at both the GS Group and the bank level. Competition risk is primarily managed by the bank's strategy and the bank's engagement with employees, see "Directors' Report – Corporate Governance – Strategy" and "Directors' Report – Corporate Governance – Stakeholder Engagement – Engagement with Employees", respectively, for further information.

Market

- The bank's businesses have been and may in the future be adversely affected by conditions in the global financial markets and broader economic conditions.
- Changes in market interest rates could adversely affect the bank's revenues and expenses, the value of assets and obligations, and the availability and cost of funding.
- The bank's market-making activities have been and may in the future be affected by changes in the levels of market volatility.
- Inflation has had, and could continue to have, a negative effect on the bank's business, results of operations and financial condition.

Liquidity

- The bank's liquidity, profitability and businesses may be adversely affected by an inability to access the debt capital markets or to sell assets.
- Loss of deposits could increase the bank's funding costs and adversely affect the bank's liquidity and ability to grow its business.
- Reductions in the bank's and/or Group Inc.'s credit ratings or an increase in its credit spreads may adversely affect its liquidity and cost of funding.

Strategic Report

Credit

- The bank's businesses, profitability and liquidity may be adversely affected by deterioration in the credit quality of or defaults by third parties.
- Concentration of risk increases the potential for significant losses in the bank's underwriting, lending, investing and financing activities.
- Derivative transactions and delayed documentation or settlements may expose the bank to credit risk, unexpected risks and potential losses.
- The bank might underestimate the credit losses inherent in its loan portfolio and have credit losses in excess of the amount reserved.

Operational

- A failure in the bank's operational systems or human error, malfeasance or other misconduct, could impair the bank's liquidity, disrupt its businesses, result in the disclosure of confidential information, damage its reputation and cause losses.
- A failure or disruption in the bank's infrastructure, or in the operational systems or infrastructure of third parties, could impair the bank's liquidity, disrupt its businesses, damage its reputation and cause losses.
- The development and use of artificial intelligence presents risks and challenges that may adversely impact the bank's business.
- A failure to protect the bank's computer systems, networks and information, and its clients' information, against cyber attacks and similar threats could impair its ability to conduct its businesses, result in the disclosure, theft or destruction of confidential information, damage its reputation and cause losses.
- The bank may incur losses as a result of ineffective risk management processes and strategies.
- The bank is reliant on Group Inc. and other GS Group affiliates for client business, various services, capital and liquidity.

Legal and Regulatory

- The bank's businesses and those of its clients are subject to extensive and pervasive regulation around the world.
- A failure to appropriately identify and address potential conflicts of interest could adversely affect the bank's businesses.
- Substantial civil or criminal liability or significant regulatory action against the bank could have material adverse financial effects, or cause it significant reputational harm, which in turn could seriously harm its business prospects.

- In conducting its business around the world, the bank is subject to political, legal, regulatory and other risks that are inherent in operating in many countries.
- The application of regulatory strategies and requirements to facilitate the orderly resolution of large financial institutions could create greater risk of loss for the bank's security holders.

Competition

- The financial services industry is highly competitive.
- The bank's businesses would be adversely affected if the bank is unable to hire and retain qualified employees.

Market Developments and General Business Environment

- The bank's businesses, financial condition, liquidity and results of operations have been and may in the future be adversely affected by unforeseen or catastrophic events, including pandemics, terrorist attacks, wars, extreme weather events or other natural disasters.
- Climate change could disrupt the bank's businesses, adversely affect client activity levels and the creditworthiness of its client counterparties, and the bank's efforts to address concerns relating to climate change could result in damage to its reputation.
- The bank's business, financial condition, liquidity and results of operations could be adversely affected by disruptions in the global economy caused by conflicts, and related sanctions and other developments.
- The bank may be adversely affected by negative publicity.
- Certain of the bank's businesses and its funding instruments may be adversely affected by changes in reference rates, currencies, indices or baskets to which products it offers or funding it raises are linked.
- The bank's business, financial condition, liquidity and results of operations may be adversely affected by disruptions in the global economy caused by escalating tensions between the U.S. and China.
- The bank faces enhanced risks as GS Group operates in new locations and the bank transacts with a broader array of clients and counterparties.

Strategic Report

Credit Ratings

The table below presents the unsecured credit ratings and outlook of the bank.

| | As of December 2023 | | |
|--------------------------|---------------------|---------|--------|
| | Fitch | Moody's | S&P |
| Short-term bank deposits | F1 | P-1 | N/A |
| Short-term debt | F1 | P-1 | A-1 |
| Long-term bank deposits | A+ | A1 | N/A |
| Long-term debt | A+ | A1 | A+ |
| Ratings outlook | Stable | Stable | Stable |

Carbon, Energy and Business Travel Consumption and Reporting

The bank's main sources of Greenhouse Gas (GHG) emissions are the operation of office facilities, dedicated data centres and business travel. In 2015, GS Group achieved carbon neutrality in its operations and business travel, ahead of its 2020 goal announced in 2009. Since then, GS Group has committed to procuring 80% of renewable electricity from long-term, impactful agreements by 2025. GS Group has expanded its operational carbon commitment to include its supply chain, targeting net-zero carbon emissions by 2030.

More information on GS Group's sustainability efforts, including its sustainable finance strategy, energy consumption and carbon emissions can be found in the annual Goldman Sachs Sustainability Report, available at www.goldmansachs.com/investor-relations/corporate-governance/sustainability-reporting.

Streamlined Energy and Carbon Reporting (SECR).

The tables below present the bank's U.K. energy consumption and associated GHG emissions, as well as normalisation metrics for the purposes of SECR. As multiple GS Group subsidiaries occupy the same office space, the U.K. energy consumption and associated Scope 1 and 2 GHG emissions across GS Group have been allocated to the bank based on the bank's U.K. headcount, as a proportion of GS Group's total U.K. headcount.

The table below presents the bank's energy consumption.

| MWh | Year Ended December | |
|--------------------------|---------------------|-------|
| | 2023 | 2022 |
| Total energy consumption | 1,460 | 1,593 |

The table below presents the bank's GHG emissions.

| tCO ₂ e | Year Ended December | |
|--|---------------------|------------|
| | 2023 | 2022 |
| Scope 1: Direct emissions | | |
| Direct | 36 | 53 |
| Scope 2: Indirect emissions | | |
| Location - indirect | 276 | 264 |
| Market - indirect | — | 4 |
| Scope 3: Other indirect emissions - Business travel | | |
| Commercial air | 81 | 277 |
| Ground transportation | — | 2 |
| Totals | | |
| Scope 1, 2 (location) | 312 | 317 |
| Scope 1, 2 (location) and 3 business travel | 393 | 596 |
| Scope 1, 2 (market) and 3 business travel | 117 | 336 |

The table below presents the bank's normalisation metrics.

| tCO ₂ e/U.K. employee | Year Ended December | |
|----------------------------------|---------------------|------|
| | 2023 | 2022 |
| Scope 1, 2 (location) | 2.8 | 2.7 |

Strategic Report

During 2023, the bank updated its energy consumption and GHG emissions methodologies to reflect the latest carbon accounting approaches and standards and as a result, comparatives in the tables above have conformed to the current period presentation. In addition, comparatives have been revised to incorporate updated energy consumption and emissions data where available.

During 2023 in comparison to 2022:

- The bank's energy consumption and Scope 1 GHG emissions have decreased primarily due to a reduction in natural gas consumed as COVID-19 protocols for heating and cooling, which resulted in higher consumption, reverted to lower demand-based usage from the fourth quarter of 2022.
- The bank's Scope 3 business travel GHG emissions have decreased primarily due to a reduction in employee travel.

GS Group's GHG emissions are calculated in line with the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard (revised edition). The boundaries of the GHG inventory are defined using the operational control approach and cover the emissions GS Group is responsible for across Scope 1, 2 and material Scope 3 business travel. The emissions are calculated by multiplying actual consumption data by industry accepted emission factors. Where actual data is unavailable, data is estimated based on GHG accounting best practices.

GS Group gathers data from its operations on an ongoing basis, with primary evidence sourced from office managers and managed centrally via GS Group's GHG Emissions Reporting Operating Procedure. GS Group seeks to ensure the accuracy of its environmental metrics and data collection processes by maintaining a robust internal inventory management plan, continuously enhancing its carbon accounting methodology and obtaining third party verification of its Scope 1, 2 and Scope 3 business travel emissions.

Maximising Energy Efficiency

GS Group aims to maximise energy efficiency in its corporate real estate by occupying energy efficient real estate, consolidating space, where possible, and leveraging efficient technology and equipment. As of December 2023, 79% of Goldman Sachs' U.K. rentable square footage holds BREEAM certification (83% as of December 2022).

During 2023, GS Group continued to maximise the operational efficiency of its real estate, focusing on increasing its building efficiency through a number of projects. Across buildings, GS Group transitioned away from COVID-19 implemented system settings to more demand-based settings, optimised air conditioning settings and enhanced lighting sensors to better align energy consumption with occupancy. For further information about GS Group's operational impact in sustainability, see www.goldmansachs.com/our-commitments/sustainability/sustainable-finance/our-operational-impact/index.html.

Section 172(1) Statement

The directors have included the section 172(1) statement in the directors' report, consistent with corporate governance disclosures.

Date of Authorisation of Issue

The strategic report was authorised for issue by the board of directors on April 22, 2024.



By order of the Board
L. A. Donnelly
Director
April 22, 2024

Directors' Report

The directors present their report and the audited financial statements for the year ended December 2023.

Introduction

In accordance with section 414A of the Companies Act 2006, the directors have prepared a strategic report, which is included in Part I of this annual report and which contains a review of the bank's businesses and a description of the principal risks and uncertainties facing the bank. The bank's risk management objectives and policies, (including exposures to liquidity risk, market risk and credit risk) are described in Note 29 to the financial statements. The directors have chosen to disclose the bank's Streamlined Energy and Carbon Reporting and the future outlook of the bank in the strategic report in accordance with section 414C(11) of the Companies Act 2006.

Corporate Governance

The bank has a robust corporate governance framework which is embedded in its approach to running its business. This framework is designated to align with legal and regulatory requirements and guidance issued by various bodies as relevant to the bank and as appropriate for its business and shareholding structure. As a wholly-owned subsidiary within GS Group, the bank also aligns its corporate governance with that of GS Group. While the bank does not formally apply any single corporate governance code, its governance arrangements are broadly consistent with the Financial Reporting Council (FRC) Wates Corporate Governance Principles for Large Private Companies.

Role of the Board. The board of directors (known hereafter as the "Board") has overall responsibility for the management of the bank. As part of this role, the Board approves and oversees implementation of the bank's strategic objectives, risk strategy and internal governance. The Board monitors the integrity of the bank's accounting and financial reporting systems including financial and operational controls and regulatory compliance and has oversight of senior management.

Purpose, Values and Culture. Whilst some of these areas of responsibility are delegated to Board committees, the Board as a whole is responsible for overseeing the bank's strategic direction and culture.

The purpose of GS Group as a whole is to advance sustainable economic growth and financial opportunity. Its values which underpin this purpose are client service, excellence, partnership and integrity. As a subsidiary within GS Group, the bank is aligned to this purpose and these values.

The bank strives to maintain a work environment that fosters professionalism, excellence, high standards of business ethics, diversity, teamwork and cooperation amongst employees. The bank recognises that it needs the most talented people to deliver outstanding results for clients. A diverse workforce in terms of gender, ethnicity, sexual orientation, background, culture and education ensures the development of better ideas, products and services.

The Board recognises the importance of maintaining and developing the culture of the bank, and does so by setting the 'tone from the top' and overseeing how culture and values are fostered by the management of the bank. The Board receives regular updates on culture, conduct and diversity and inclusion from management.

GS Group maintains a Code of Business Conduct and Ethics, supplemented by 14 Business Principles, and a compendium of internal policies to inform and guide employees in their roles.

Strategy. GS Group's focus is on delivering sustainable, long-term returns for its shareholders through a strategy that revolves around its clients. Its strategy comprises three core objectives:

- To grow and strengthen its existing businesses: to capture higher wallet share across a wider range of clients;
- To diversify its products and services: to build a more durable source of earnings; and
- To operate more efficiently: so that it can drive higher margins and returns across the organisation.

The bank's strategy, aligned with that of GS Group, is implemented by the executive management of the bank with Board oversight. The chief executive officer of the bank updates the Board on the bank's performance against its strategic objectives at Board meetings.

Composition of the Board. The directors collectively possess a broad range of skills, backgrounds, experience and knowledge appropriate for the effective oversight of the bank's business. The roles of the chair of the Board and the chief executive officer are held by different individuals.

The Board considers that the size and structure of the Board is appropriate to oversee the businesses conducted by the bank. As of December 2023, the Board is comprised of nine directors, six of whom are independent. The bank has Audit, Risk, Nominations and Remuneration Board committees.

Directors' Report

The Board Nominations Committee is responsible for identifying and recommending qualified candidates for Board membership and utilises a Succession Planning Framework. This sets out the process and criteria, which includes the consideration of Board diversity, for the selection of new directors. The use of a skills matrix enables the experience and expertise of the Board both individually and as a whole to be assessed. New directors are provided with a comprehensive and bespoke induction programme. The chair of the Board oversees an ongoing training and development programme for the directors to enhance their knowledge and engagement.

The Board Nominations Committee oversees the effectiveness of the Board, its committees and their chairs and members, and evaluates this annually. It also reviews the size, structure and composition of the Board, including the balance of independent and non-independent directors.

The approach to directors' conflicts of interest and the anticipated time commitment required is discussed with each director on their joining the Board and reviewed annually as part of the fitness and propriety assessment process. All the directors meet the applicable regulatory requirements for the number of directorships they are permitted to hold.

Responsibilities and Accountability. The bank's governance model fully incorporates the Senior Managers and Certification Regime.

The Board is supported by various Board committees, each with a charter setting out its duties and the responsibilities delegated to it. The committees are comprised of non-executives only to enable them to provide oversight and challenge to management. The chairs of these Board committees report to the Board on the proceedings and recommendations of the committees. Certain matters are reserved for decision by the Board alone.

Opportunity and Risk. The bank believes that effective risk management is critical to its success, and so has established an enterprise risk management framework that employs a comprehensive, integrated approach to risk management, and through which the risks associated with the bank's businesses are identified, assessed, monitored and managed. The bank's risk management structure is built around three core components: governance, processes and people.

Risk management governance starts with the Board, which both directly and through its committees, including the GSIB Board Risk Committee and the GSIB Risk Committee, oversee the bank's risk management policies and practices implemented through the enterprise risk management framework. The Board is responsible for the annual review and approval of the bank's risk appetite statement, which describes the levels and types of risk it is willing to accept, in order to achieve the objectives included in its strategic business plan, while remaining in compliance with regulatory requirements. The bank's strategy set out above is aligned with that of GS Group and the Board is ultimately responsible for overseeing and providing direction about the bank's strategic business plan and risk appetite.

The chief risk officer reports to the GSIB Board Risk Committee and GS Group's chief risk officer. As part of the review of the firmwide risk portfolio, the chief risk officer regularly advises the GSIB Board Risk Committee of relevant risk metrics and material exposures, including risk limits and thresholds established in the bank's risk appetite statement.

Remuneration Framework. Attracting and retaining talent is fundamental to GS Group's long-term success as a firm. Compensation, when structured appropriately, is an important way of attracting, retaining and incentivising talent and in reinforcing GS Group's culture. GS Group's remuneration philosophy is reflected in the Goldman Sachs Compensation Principles as posted on the Goldman Sachs public website. 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; (v) Align aggregate compensation for GS Group with performance over the cycle; and (vi) Promote a strong risk management and control environment.

The bank develops remuneration policies and practices in accordance with applicable regulatory rules whilst ensuring that these are aligned so far as possible with the Goldman Sachs Compensation Principles. Employees share in performance-based incentive schemes.

The GSIB Board Remuneration Committee oversees the development and implementation of these remuneration policies and practices.

Directors' Report

Stakeholder Engagement. The bank's stakeholders include its shareholder, employees, suppliers, clients, regulators and the environment and communities in which it operates.

Engagement with Shareholder

The bank is a wholly-owned subsidiary of Group Inc. As such its purpose, culture, values and strategies are aligned with those of its ultimate shareholder. The Board receives regular updates on GS Group strategy. Chairs of Board committees meet regularly with their counterparts on the Group Inc.'s board of directors. The bank's chief executive officer is a member of GS Group's Management Committee.

Engagement with Employees

The bank applies GS Group's firmwide policies and procedures, and where applicable also contributes to GS Group's strategy, metrics and targets in relation to employee matters. The bank considers its employees as its greatest asset and the Board is responsible for overseeing the bank's engagement with them. This includes regular updates from management on various metrics, including on diversity and inclusion.

Senior management engaged with employees in various ways during the year including: 'Town Halls', where questions are solicited in advance and feedback gathered afterwards; Talks at GS with external and internal speakers; employee feedback surveys; email and voicemail communications and manager engagement. Employees are invited to watch quarterly earnings announcements and receive internal briefings so that they are made aware of the financial and economic factors affecting the performance of the bank. A sophisticated firmwide intranet further enables employees to be engaged.

It is the bank's policy that there should be effective communication with all employees who, subject to practical and commercial considerations, should be made aware of financial and economic factors affecting the performance of the bank and consulted on and involved in decisions that affect their current jobs or future prospects. Employees share in performance-based incentive schemes.

The bank supports the diversity and inclusion initiatives of GS Group and seeks to help its people achieve their full potential by investing in them and supporting a culture of continuous development. The company's goals are to maximise individual capabilities, increase commercial effectiveness and innovation, reinforce the firm's culture, expand professional opportunities, and help its people contribute positively to their communities.

GS Group has a range of initiatives in place to increase diverse representation at all levels and foster inclusion. Various affinity groups for employees are supported by the bank. Certain GS Group affiliates are a signatory to the U.K. Race at Work Charter and the U.K. Women in Finance Charter. In September 2021 the commitment to have women professionals comprising 30% of senior talent (vice presidents and above) by 2023 was met.

Engagement with Other Stakeholders

Clients – The Board as a whole regularly receives updates from management on client engagement.

Suppliers – GS Group has globally consistent standards and procedures for the on-boarding, use and payment of external suppliers (vendors). In partnering with GS Group to deliver on its objectives, suppliers are required to meet business, compliance and financial stability requirements and adhere to GS Group's vendor code of conduct, which describes its expectations that suppliers conduct business responsibly. Suppliers in industries perceived to be of higher risk in relation to Environmental, Social and Governance (ESG) or modern slavery and human trafficking are subject to enhanced due diligence and monitoring. The bank reports its activities on this within its annual Modern Slavery Act statement, which is reviewed and approved by the Board. GS Group has a long history of working with small and diverse businesses as part of its vendor diversity programme and has implemented strategies to promote greater diversity within its supplier base. In 2020, GS Group committed to increase spend with small and diverse suppliers by 50% by 2025 (from its 2020 baseline), a goal which was achieved in 2022. In 2023, GS Group set a new goal to spend a further \$1.5 billion on goods and services from small and diverse vendors globally by the end of 2025.

Regulators – the bank has an active dialogue with its regulators. Senior management and directors meet with regulators on a frequent basis.

Environment – GS Group has a global approach to sustainability through its platform for sustainable finance. GS Group's approach to sustainable finance is focused on two long-term imperatives: advancing the climate transition by helping industries usher in and thrive in a low-carbon economy; and driving inclusive growth by leveraging its business capabilities to improve access and affordability and to advance economic empowerment. In 2020, GS Group announced a target to deploy \$750 billion in sustainable financing, investing and advisory activity by the beginning of 2030. As of December 2023, GS Group achieved approximately 75% of that goal, in which the bank has played a part.

Directors' Report

Corporate and Workplace Solutions is responsible for GS Group's global workplace, including sustainability initiatives across its operations and supply chain. Managing these is integral to operating GS Group sustainably to minimise GS Group's impact on the environment and actively foster a diverse and sustainable supply chain. This approach is applied consistently across all entities in GS Group including the bank.

Communities – the bank supports its communities in many ways, with global initiatives coordinated through GS Group's Office of Corporate Engagement. In the U.K. these include the 10,000 Small Businesses entrepreneurship programme which helps small business owners create jobs and economic opportunity by providing access to education and business support services, and the 10,000 Women programme which fosters economic growth by providing women entrepreneurs with a business and management education, mentoring and networking, and access to capital. Charitable initiatives include Goldman Sachs Gives, a donor advised fund through which Goldman Sachs' current and retired senior employees work together to recommend grants to qualifying non-profit organisations to help them achieve their goals, Community TeamWorks, which enables the company's employees to participate in high-impact, team-based volunteer opportunities and supporting relief efforts.

Internal Control over Financial Reporting. Management of the bank is responsible for establishing and maintaining adequate internal control over financial reporting. The bank's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the bank's financial statements for external reporting purposes in accordance with U.K.-adopted international accounting standards and International Financial Reporting Standards (IFRS) as it applies in the E.U.

The bank's internal control over financial reporting includes policies and procedures that pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.K.-adopted international accounting standards and IFRS as it applies in the E.U., and that receipts and expenditures are being made only in accordance with authorisations of management and the directors of the bank; and provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use or disposition of the bank's assets that could have a material effect on the bank's financial statements.

Section 172(1) Statement

Under section 172 of the Companies Act 2006, the directors of the bank are required to act in the way they consider, in good faith, would be most likely to promote the success of the bank for the benefit of its stakeholders as a whole. In doing this, section 172 requires a director to have regard, among other matters, to: the likely consequences of any decision in the long term; the interests of the bank's employees; the need to foster the bank's business relationships with clients, suppliers and others; the impact of the bank's operations on the community and the environment; the desirability of the bank maintaining a reputation for high standards of business conduct; and the need to act fairly with stakeholders of the bank.

The directors give careful consideration to the factors set out above in discharging their duties under section 172 and they inform the directors' decision-making as a Board. The bank endorses GS Group's updated code of Business Conduct and Ethics set out on the Goldman Sachs public website and looks to conduct its business in accordance with the highest ethical standards and in compliance with all applicable laws, rules and regulations.

The directors are committed to effective engagement with all of the bank's stakeholders. They recognise that building strong relationships with these stakeholders will help the bank deliver its strategy in line with its long-term values, and operate the business in a sustainable way. The Board seeks to understand and balance the relative interests and priorities of each group and to have regard to these, as appropriate, in their discussions and in the decision-making process. As part of this, the Board receives regular updates from the chief executive officer of the bank and from the bank's shareholder. The agenda setting process for Board meetings is designed to ensure topics relevant to stakeholders are brought to the board in a frequent and timely manner.

In addition, the Board may receive training and other information to further develop its understanding of key issues impacting the bank's stakeholders. The Board is further supported by the GSIB Board Audit Committee, the GSIB Board Risk Committee and the GSIB Board Remuneration Committee who consider in more detail the systems and controls in place in relation to engagement with stakeholders.

More details about the bank's engagement with its stakeholders can be found in "Corporate Governance – Stakeholder Engagement" above.

Directors' Report

Dividends

The directors do not recommend the payment of an ordinary dividend for 2023. No dividends were paid in 2022.

Exchange Rate

The British pound/U.S. dollar exchange rate was £/\$1.2746 as of December 2023 and £/\$1.2063 as of December 2022. The average rate for 2023 was £/\$1.2469 and for 2022 was £/\$1.2329.

Disclosure of Information to Auditors

In the case of each of the persons who are directors of the bank at the date when this report was approved:

- So far as each of the directors is aware, there is no relevant audit information of which the bank's auditors are unaware; and
- Each of the directors has taken all the steps that they ought to have taken as a director to make themselves aware of any relevant audit information and to establish that the bank's auditors are aware of that information.

Independent Auditors

The bank has passed a resolution to re-appoint Mazars LLP as auditors of the bank for financial periods commencing on or after January 1, 2023.

Statement of Directors' Responsibilities in Respect of the Financial Statements

The directors are responsible for preparing the strategic report, the directors' report and the consolidated financial statements in accordance with applicable law and regulation.

Company law requires the directors to prepare financial statements for each financial year. Under that law, the directors have prepared the financial statements in accordance with U.K.-adopted international accounting standards.

The bank has also prepared financial statements in accordance with International Financial Reporting Standards (IFRS) adopted pursuant to Regulation (EC) No 1606/2002 as it applies in the E.U.

Under company law, directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the bank and of the profit or loss of the bank for that year. In preparing the financial statements, the directors are required to:

- Select suitable accounting policies and then apply them consistently;
- State whether applicable U.K.-adopted international accounting standards and IFRS adopted pursuant to Regulation (EC) No 1606/2002 as it applies in the E.U. have been followed, subject to any material departures disclosed and explained in the financial statements;
- Make judgements and estimates that are reasonable and prudent; and
- Prepare the financial statements on the going concern basis unless it is inappropriate to presume that the bank will continue in business.

The directors are responsible for safeguarding the assets of the bank and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The directors are also responsible for keeping adequate accounting records that are sufficient to show and explain the bank's transactions and disclose with reasonable accuracy at any time the financial position of the bank and enable them to ensure that the financial statements comply with the Companies Act 2006.

The directors are responsible for the maintenance and integrity of the bank's financial statements on the Goldman Sachs website.

Legislation in the U.K. governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

Directors' Report**Directors' Confirmations**

Each of the directors, whose names and functions are listed in "Directors" below, confirm that to the best of their knowledge:

- The financial statements, which have been prepared in accordance with U.K.-adopted international accounting standards and IFRS adopted pursuant to Regulation (EC) No 1606/2002 as it applies in the E.U., give a true and fair view of the assets, liabilities, financial position and profit or loss of the bank; and
- The strategic report includes a fair review of the development and performance of the business and the position of the bank, together with a description of the principal risks and uncertainties that the bank faces.

Directors

The directors of the bank who served throughout the year and to the date of this report, except where noted, were:

Name

C. G. Cripps
 L. A. Donnelly
 Sir Bradley Fried, Chair (appointed on February 1, 2023 and resigned on March 31, 2024)
 R. J. Gnodde, Chief executive officer (appointed on January 5, 2023)
 A. S. Golten
 S. P. Gyimah
 N. Harman
 T. L. Miller CBE
 N. Pathmanabhan
 E. E. Stecher (resigned on January 31, 2023)

The appointment of Lord Paul Deighton KBE was approved by the Board on March 20, 2024 subject to regulatory approval.

No director had, at the year end, any interest requiring note herein.

Qualifying Third Party Indemnity Provisions

An indemnity provision, as defined by section 234 of the Companies Act 2006, is provided to the directors of the bank under the by-laws of The Goldman Sachs Group, Inc. This indemnity was in force throughout the year and to the date of this report.

Date of Authorisation of Issue

The financial statements were authorised for issue by the Board on April 22, 2024.



On behalf of the Board
L. A. Donnelly
Director
April 22, 2024

Independent auditors' report to the members of Goldman Sachs International Bank (unlimited company)

Opinion

We have audited the financial statements of Goldman Sachs International Bank (the bank) for the year ended 31 December 2023 which comprise the Income Statement, the Statement of Comprehensive Income, the Balance Sheet, the Statement of Changes in Equity, the Statement of Cash Flows, and notes to the financial statements, including material accounting policy information.

The financial reporting framework that has been applied in their preparation is applicable law and U.K.-adopted international accounting standards.

In our opinion, the financial statements:

- give a true and fair view of the state of the bank's affairs as at 31 December 2023 and of its' profit for the year then ended;
- have been properly prepared in accordance with U.K.-adopted international accounting standards; and
- have been prepared in accordance with the requirements of the Companies Act 2006.

Separate opinion in relation to International Financial Reporting Standards (IFRS) as adopted by the European Union (E.U.)

As explained in Note 2 to the financial statements, in addition to complying with its legal obligation to apply U.K.-adopted international accounting standards, the bank has also applied IFRS as adopted by the E.U.

In our opinion, the financial statements give a true and fair view of the financial position of the bank as at 31 December 2023 and of its financial performance and its cash flows for the year then ended in accordance with IFRS as adopted by the E.U.

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the "Auditors' responsibilities for the audit of the financial statements" section of our report. We are independent of the bank in accordance with the ethical requirements that are relevant to our audit of the financial statements in the U.K., including the Financial Reporting Council's (FRC) Ethical Standard as applied to public interest entities, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Conclusions relating to going concern

In auditing the financial statements, we have concluded that the directors' use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

Our audit procedures to evaluate the directors' assessment of the bank's ability to continue to adopt the going concern basis of accounting included but were not limited to:

- undertaking an initial assessment at the planning stage of the audit to identify events or conditions that may cast significant doubt on the bank's ability to continue as a going concern;
- making enquiries of the directors to understand the period of assessment considered by them, the assumptions they considered and the implication of those when assessing the bank's future financial performance;
- reviewing the directors' going concern assessment to determine that it appropriately considers an assessment of key business risks including assessing the sufficiency of the bank's capital and liquidity taking into consideration the most recent Internal Capital Adequacy Assessment Process and Internal Liquidity Adequacy Assessment Process;
- assessing the assumptions used in the forecasts and management assessments, including assessing the accuracy of the forecasts and incorporating back-testing to determine the historical accuracy of management's forecasting and budgeting, and considering the extent of reliance on capital invested by the bank's parent company;
- making inquiries of management, reading correspondence with regulators and minutes of board meetings;
- assessing key assumptions and mitigating actions put in place in response to external factors including, but not limited to, inflation levels and interest rates;
- considering whether there were events subsequent to the balance sheet date or relevant information included in the financial statements of the bank's ultimate parent company (The Goldman Sachs Group, Inc.) which could have a bearing on the bank's going concern conclusion;
- considering the consistency of the directors' forecasts with other areas of the annual accounts and our audit; and
- evaluating the appropriateness of the disclosures in the financial statements in relation to the description of the directors' assessment of going concern.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the bank's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

Independent auditors' report to the members of Goldman Sachs International Bank (unlimited company)

Our responsibilities and the responsibilities of the directors with respect to going concern are described in the relevant sections of this report.

Key audit matter

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements of the current period and include the most significant assessed risks of material misstatement (whether or not due to fraud) we identified, including those which had the greatest effect on: the overall audit strategy; the allocation of resources in the audit; and directing the efforts of the engagement team. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

We summarise below the key audit matter in forming our opinion above, together with an overview of the principal audit procedures performed to address the matter and our key observations arising from those procedures. This matter, together with our findings, was communicated to those charged with governance through our Audit Completion Report.

**Independent auditors' report to the members of
Goldman Sachs International Bank (unlimited company)**

| Key Audit Matter | How our scope addressed this matter |
|--|---|
| <p>Valuation of allowance for impairment on loans held at amortised cost under IFRS 9 - Expected Credit Losses (Notes 3, 4 and 29)</p> <p>As at December 2023, the bank had \$11.42 billion (December 2022: \$12.13 billion) gross exposure to loans held at amortised cost with an Expected Credit Loss (ECL) of \$120 million (December 2022: \$131 million).</p> <p>Note 4 'Critical Accounting Estimates and Judgements' sets out that the measurement of ECL for financial assets classified at amortised cost requires the use of complex models and significant forward-looking assumptions about the credit behaviour and future economic conditions.</p> <p>The estimation of ECL on the bank's loan portfolio is complex and inherently judgemental. The risk is concentrated in the following areas:</p> <ul style="list-style-type: none"> • Complexity of model estimations and subjectivity of assumptions – Inherently judgemental modelling and assumptions are used to estimate ECL which involves determining Probabilities of Default (PD), Loss Given Default (LGD), and Exposures at Default (EAD), including quantitative and qualitative assessments such as the credit rating and rate of future drawdowns. • Significant Increase in Credit Risk (SICR) – The quantitative and qualitative triggers selected to identify a SICR are a key area of judgement within the bank's ECL calculation, as these criteria determine whether a 12 month or lifetime provision is recognised. • Economic scenarios – IFRS 9 requires the bank to measure ECL on an unbiased forward-looking basis reflecting a range of future economic conditions. Significant management judgement is applied in determining the forward-looking economic scenarios used, the probability weightings associated with the scenarios and the complexity of models used to derive the probability weightings. • Macro-economic forecasts and qualitative adjustments to the ECL estimate – The current market environment of persistent inflation and rising interest rates, growing importance of climate change, and geopolitical conflicts in 2023 led management to assess qualitative adjustments to the ECL estimate. • Individual impairments – The calculation methodology for individual impairments on stage 3 exposures, specifically on the cash-flow discounting interest rate used by management, and collateral valuation. | <p>Our audit procedures included, but were not limited to:</p> <p>We performed end to end process walkthroughs to identify the key systems, applications and controls used in the ECL processes and assessed the design and implementation of the key controls related to this process.</p> <p>Key aspects of our control testing involved evaluating the design and implementation, and testing the operating effectiveness of the key controls over the:</p> <ul style="list-style-type: none"> • completeness and accuracy of the loan key data inputs and attributes feeding into the ECL models, involving IT specialists to test the appropriate data flow between ECL and lending related applications; • model governance including approval of changes in assumptions or methodologies, model validation, implementation and monitoring; • definition and application of the SICR criteria and the definition of default; • internal credit ratings and credit quality reviews process; • authorisation and calculation of qualitative adjustments; and • selection and implementation of economic variables and controls over the economic scenario selection and probability weightings. <p>We noted no significant exceptions in the design and implementation, or operating effectiveness of these key controls and we determined that we could rely on these key controls for the purposes of our audit.</p> <p>With the support of our credit risk specialists, we:</p> <ul style="list-style-type: none"> • assessed the compliance of the bank's impairment methodologies with IFRS 9 requirements by reviewing the models and SICR criteria and challenging key assumptions; • assessed the proper specifications of the statistical models; • assessed the reasonableness and completeness of the qualitative adjustments to the ECL estimate determined by management; • tested the proper calibration of the models' parameters including modelled qualitative adjustments to the ECL estimate; • independently replicated the ECL models across all of the lending portfolio segments; and • reviewed selected parts of the ECL models' code and ensured that the code is consistent with management's ECL methodology. |

Independent auditors’ report to the members of Goldman Sachs International Bank (unlimited company)

| | |
|---|--|
| <p>Overall, the range of reasonable outcomes could be greater than materiality for the financial statements as a whole.</p> | <p>With the support of our economist expert, we:</p> <ul style="list-style-type: none"> ◦ assessed the reasonableness of the bank’s methodology and models for determining the economic scenarios used and the probability weightings applied to them; ◦ assessed the reasonableness and completeness of key economic variables which included comparing samples of economic variables to external sources; and ◦ assessed the reasonableness of the bank’s qualitative assessments by challenging key economic assumptions applied in their calculation based on external sources. <p>We also performed the substantive testing described below:</p> <ul style="list-style-type: none"> • performed an analytical review to corroborate the results of the test of details with the overall ECL trend, benchmarking the staging allocation and qualitative adjustments to the ECL estimate against similar banks; • performed testing over a sample of key inputs to ECL calculations; • assessed the appropriateness of the collateral valuations; • performed independent credit file reviews for all stage 3 loans and a sample of stage 1 and stage 2 loans at December 2023 to confirm appropriateness of staging and assessment of individual impairment, where applicable; • performed a stand-back assessment on the resulting ECL and qualitative adjustment estimates to assess their appropriateness; • evaluated and challenged the work performed by the credit risk specialists and the economist expert and their conclusions; and • assessed the appropriateness and adequacy of the disclosures in the financial statements in relation to ECL. <p>Our observations</p> <p>We found the approach taken by the bank in respect to ECL is materially in accordance with the requirements of IFRS 9 and determined that the allowance for impairment of loans held at amortised cost is not materially misstated at December 2023.</p> |
|---|--|

Our application of materiality and an overview of the scope of our audit

The scope of our audit was influenced by our application of materiality. We set certain quantitative thresholds for materiality. These, together with qualitative considerations, helped us to determine the scope of our audit and the nature, timing and extent of our audit procedures on the individual financial statement line items and disclosures and in evaluating the effect of misstatements, both individually and on the financial statements as a whole.

Based on our professional judgement, we determined materiality for the financial statements as a whole as follows:

Independent auditors' report to the members of Goldman Sachs International Bank (unlimited company)

Materiality

| | |
|---------------------------------|---|
| Overall materiality | \$30.1 million (December 2022: \$26.1 million) |
| How we determined it | 0.75% net assets (December 2022: 0.75% net assets) |
| Rationale for benchmark applied | <p>Profit before tax is the benchmark typically used for profit-oriented banks. However, this may not be an appropriate benchmark where the bank is a wholly owned subsidiary of an international group where profit at the legal entity level does not reflect the overall nature and size of operations.</p> <p>The primary users of the bank's financial statements are the parent entities, regulators, customers and counterparties and their focus is on the regulatory capital adequacy of the bank. In our view, net assets, an audited component of the balance sheet, is the primary component of regulatory capital and was considered an appropriate benchmark.</p> |
| Performance materiality | <p>Performance materiality is set to reduce to an appropriately low level the probability that the aggregate of uncorrected and undetected misstatements in the financial statements exceeds materiality for the financial statements as a whole.</p> <p>We set performance materiality at \$21.1 million (December 2022: \$20.9 million), which represents 70% (December 2022: 80%) of overall materiality, which reflects the history of misstatements, our consideration of the audit risks and effectiveness of controls.</p> |
| Reporting threshold | We agreed with the audit committee that we would report to them misstatements identified during our audit above \$0.9 million (December 2022: \$0.8 million) as well as misstatements below that amount that, in our view, warranted reporting for qualitative reasons. |

As part of designing our audit, we assessed the risk of material misstatement in the financial statements, whether due to fraud or error, and then designed and performed audit procedures responsive to those risks. In particular, we looked at where the directors made subjective judgements, such as assumptions on significant accounting estimates.

We tailored the scope of our audit to ensure that we performed sufficient work to be able to give an opinion on the financial statements as a whole. We used the outputs of our risk assessment, our understanding of the bank, its environment, controls, and critical business processes, to consider qualitative factors to ensure that we obtained sufficient coverage across all financial statement line items.

Our audit of the bank was undertaken to the materiality level specified above and was performed at the bank's office in London and at the parent company's offices in New York and Bangalore.

Specified audit procedures were performed by the parent company's auditors in New York and Bangalore, acting as component auditors for the purpose of the audit of the bank in accordance with our instructions. We instructed the parent company's auditors to perform specified audit procedures over certain areas that are relevant to the bank including general information technology controls over systems hosted in New York, information technology automated controls, and manual and system dependent manual controls over trade flows, operations and reconciliations, the allowance for credit losses on loans held at amortised cost and valuation of financial instruments.

We determined the level of involvement we needed as the bank's auditor in the work of the parent company's auditors to be able to conclude whether sufficient and appropriate audit evidence was obtained to provide a basis for our opinion on the financial statements as a whole. We maintained oversight of the parent company's auditors' audit work relevant to the bank, directing and supervising their activities related to our audit of the bank. This included setting the scope of work including processes and controls, communicating with the parent company's auditors throughout the audit, evaluating their reporting to us, and reviewing and challenging selected key workpapers supporting the conclusions. We concluded that the procedures performed on our behalf were sufficient for the purposes of issuing our opinion.

Independent auditors' report to the members of Goldman Sachs International Bank (unlimited company)

Other information

The other information comprises the information included in the annual report other than the financial statements and our auditors' report thereon. The directors are responsible for the other information. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

Our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the course of audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether this gives rise to a material misstatement in the financial statements themselves. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in this regard.

Opinions on other matters prescribed by the Companies Act 2006

In our opinion, based on the work undertaken in the course of the audit:

- the information given in the strategic report and the directors' report for the financial year for which the financial statements are prepared is consistent with the financial statements; and
- the strategic report and the directors' report have been prepared in accordance with applicable legal requirements.

Matters on which we are required to report by exception

In light of the knowledge and understanding of the bank and its environment obtained in the course of the audit, we have not identified material misstatements in the strategic report or the directors' report.

We have nothing to report in respect of the following matters in relation to which the Companies Act 2006 requires us to report to you if, in our opinion:

- adequate accounting records have not been kept by the bank, or returns adequate for our audit have not been received from branches not visited by us; or
- the bank's financial statements are not in agreement with the accounting records and returns; or
- certain disclosures of directors' remuneration specified by law are not made; or

- we have not received all the information and explanations we require for our audit.

Responsibilities of directors

As explained more fully in the directors' responsibilities statement set out on page 11, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the directors are responsible for assessing the bank's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the bank or to cease operations, or have no realistic alternative but to do so.

Auditors' responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

The extent to which our procedures are capable of detecting irregularities, including fraud is detailed below.

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud.

Based on our understanding of the bank and its industry, we considered that non-compliance with the following laws and regulations might have a material effect on the financial statements: financial crime regulations, and regulatory and supervisory requirements from the regulatory authorities where the bank conducts its business, including primarily the Prudential Regulatory Authority (PRA) and the Financial Conduct Authority (FCA).

To help us identify instances of non-compliance with these laws and regulations, and in identifying and assessing the risks of material misstatement in respect to non-compliance, our procedures included, but were not limited to:

Independent auditors' report to the members of Goldman Sachs International Bank (unlimited company)

- obtaining an understanding of the legal and regulatory frameworks applicable to the bank and the industry in which it operates;
- inquiring of management and, where appropriate, those charged with governance, as to whether the bank is in compliance with laws and regulations, and discussing their policies and procedures regarding compliance with laws and regulations;
- inspecting correspondence with relevant licensing or regulatory authorities, primarily the PRA and the FCA, during the year and up until the date of the approval of the financial statements;
- holding a bilateral meeting with the PRA to enhance our understanding of the regulator's focus and potential concerns related to the bank;
- reviewing minutes of meetings of directors held during the year and up until the date of approval of the financial statements;
- discussing amongst the engagement team the identified laws and regulations and remaining alert to any indications of non-compliance throughout our audit; and
- focusing on areas of laws and regulations that could reasonably be expected to have a material effect on the financial statements from our general commercial and sector experience and through discussions with those charged with governance and senior management, review of regulatory and legal correspondence, and review of minutes of meetings of the Board of Directors and the Audit Committee during the year and up until the date of the approval of the financial.

We also considered those laws and regulations that have a direct effect on the preparation of the financial statements, such as tax legislation and the Companies Act 2006.

In addition, we evaluated the directors' and management's incentives and opportunities for fraudulent manipulation of the financial statements, including the risk of management override of controls, and determined that the principal risks related to posting manual journal entries to manipulate financial performance, management bias through judgements and assumptions in significant accounting estimates. Our procedures in relation to fraud included but were not limited to:

- making enquiries of the directors and management on whether they had knowledge of any actual, suspected or alleged fraud;
- gaining an understanding of the internal controls established to mitigate risks related to fraud;
- discussing amongst the engagement team the risks of fraud;
- verifying that related parties transactions were conducted at arm's length;

- addressing the risks of fraud through management override of controls by performing journal entry testing and by incorporating unpredictability testing into our audit procedures; and
- being skeptical to the potential of management bias through judgements and assumptions in significant accounting estimates.

The primary responsibility for the prevention and detection of irregularities, including fraud, rests with both those charged with governance and management. As with any audit, there remained a risk of non-detection of irregularities, as these may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal controls. The risks of material misstatement that had the greatest effect on our audit are discussed in the "Key audit matters" section of this report. A further description of our responsibilities is available on the FRC's website at www.frc.org.uk/auditorsresponsibilities. This description forms part of our auditors' report.

Other matters which we are required to address

Following the recommendation of the audit committee, we were appointed by the board of directors on 11 March 2021 to audit the financial statements for the year ended December 2021 and subsequent financial periods. The period of total uninterrupted engagement is three years, covering the years ended December 2021 to December 2023. The non-audit services prohibited by the FRC's Ethical Standard were not provided to the bank and we remain independent of the bank in conducting our audit. Our audit opinion is consistent with our additional report to the audit committee.

Use of the audit report

This report is made solely to the bank's members as a body in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the bank's members those matters we are required to state to them in an auditors' report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the bank and the bank's members as a body for our audit work, for this report, or for the opinions we have formed.



Greg Simpson (Senior Statutory Auditor)
for and on behalf of Mazars LLP
Chartered Accountants and Statutory Auditor
30 Old Bailey
London
EC4M 7AU
April 22, 2024

Income Statement

| <i>\$ in millions</i> | Note | Year Ended December | |
|--|------|---------------------|---------------|
| | | 2023 | 2022 |
| Interest income from financial instruments measured at fair value through profit or loss | | \$ 2,626 | \$ 1,070 |
| Interest income from financial instruments measured at fair value through other comprehensive income | | 10 | 10 |
| Interest income from financial instruments measured at amortised cost | | 1,789 | 641 |
| Interest expense from financial instruments measured at fair value through profit or loss | | (1,407) | (445) |
| Interest expense from financial instruments measured at amortised cost | | (2,254) | (699) |
| Net interest income | | 764 | 577 |
| Gains or losses from financial instruments at fair value through profit or loss | | 9 | (82) |
| Fees and commissions | | 75 | 51 |
| Non-interest gains/(losses) | | 84 | (31) |
| Net revenues | 5 | 848 | 546 |
| Impairments on financial instruments | 29 | 11 | (94) |
| Operating expenses | 6 | (160) | (176) |
| Profit before taxation | | 699 | 276 |
| Income tax expense | 9 | (193) | (58) |
| Profit for the financial year | | \$ 506 | \$ 218 |

Net revenues and profit before taxation of the bank are derived from continuing operations in the current and prior years.

Statement of Comprehensive Income

| <i>\$ in millions</i> | Note | Year Ended December | |
|---|------|---------------------|----------------|
| | | 2023 | 2022 |
| Profit for the financial year | | \$ 506 | \$ 218 |
| Other comprehensive income | | | |
| Items that will not be reclassified subsequently to profit or loss | | | |
| Debt valuation adjustment | 19 | (6) | 22 |
| U.K. deferred tax attributable to the components of other comprehensive income | | 2 | (6) |
| Total items that will not be reclassified subsequently to profit or loss | | (4) | 16 |
| Items that will be reclassified subsequently to profit or loss | | | |
| Translation losses and net investment hedges | 27 | (2) | (3) |
| Gains/(losses) from financial instruments measured at fair value through other comprehensive income | | 61 | (363) |
| U.K. deferred tax attributable to the components of other comprehensive income | | (17) | 103 |
| Total items that will be reclassified subsequently to profit or loss | | 42 | (263) |
| Other comprehensive gains/(losses) for the financial year, net of tax | | 38 | (247) |
| Total comprehensive income/(losses) for the financial year | | \$ 544 | \$ (29) |

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

Balance Sheet

| <i>\$ in millions</i> | Note | As of December | |
|---|------|------------------|------------------|
| | | 2023 | 2022 |
| Assets | | | |
| Cash and cash equivalents | 23 | \$ 19,932 | \$ 18,455 |
| Collateralised agreements | 10 | 52,139 | 37,489 |
| Customer and other receivables | 11 | 916 | 209 |
| Trading assets | 12 | 5,214 | 5,367 |
| Loans | 13 | 8,075 | 9,109 |
| Investments | 14 | 3,168 | 4,078 |
| Other assets | 15 | 405 | 2,273 |
| Total assets | | 89,849 | 76,980 |
| Liabilities | | | |
| Collateralised financings | 17 | 41 | 301 |
| Customer and other payables | 18 | 772 | 764 |
| Trading liabilities | 12 | 1,636 | 1,604 |
| Deposits | 19 | 81,061 | 67,841 |
| Unsecured borrowings | 20 | 2,128 | 2,827 |
| Other liabilities | 21 | 193 | 169 |
| Total liabilities | | 85,831 | 73,506 |
| Shareholder's equity | | | |
| Share capital | 22 | 63 | 63 |
| Share premium account | | 2,094 | 2,094 |
| Retained earnings | | 2,144 | 1,638 |
| Accumulated other comprehensive income | | (283) | (321) |
| Total shareholder's equity | | 4,018 | 3,474 |
| Total liabilities and shareholder's equity | | \$ 89,849 | \$ 76,980 |

The financial statements were approved by the Board on April 22, 2024 and signed on its behalf by:



L. A. Donnelly
Director

Statement of Changes in Equity

| <i>\$ in millions</i> | Year Ended December | |
|---|---------------------|-----------------|
| | 2023 | 2022 |
| Share capital | | |
| Beginning balance | \$ 63 | \$ 63 |
| Ending balance | 63 | 63 |
| Share premium account | | |
| Beginning balance | 2,094 | 2,094 |
| Ending balance | 2,094 | 2,094 |
| Retained earnings | | |
| Beginning balance | 1,638 | 1,420 |
| Profit for the financial year | 506 | 218 |
| Share-based payments | 2 | 1 |
| Management recharge related to share-based payments | (2) | (1) |
| Ending balance | 2,144 | 1,638 |
| Accumulated other comprehensive income | | |
| Beginning balance | (321) | (74) |
| Other comprehensive gains/(losses) | 38 | (247) |
| Ending balance | (283) | (321) |
| Total shareholder's equity | \$ 4,018 | \$ 3,474 |

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

Statement of Cash Flows

| <i>\$ in millions</i> | Year Ended December | |
|--|---------------------|--------|
| | 2023 | 2022 |
| Cash flows from operating activities | | |
| Cash generated from operations | 23 \$ 345 \$ | 8,225 |
| Taxation paid | (167) | (118) |
| Net cash from operating activities | 178 | 8,107 |
| Cash flows from investing activities | | |
| Capital expenditure for intangible assets | (5) | — |
| Proceeds from sales of investments | 999 | 669 |
| Net cash from investing activities | 994 | 669 |
| Cash flows from financing activities | | |
| Interest paid on financing activities | (71) | (39) |
| Net cash used in financing activities | (71) | (39) |
| Net increase in cash and cash equivalents | 1,101 | 8,737 |
| Cash and cash equivalents, beginning balance | 18,455 | 9,901 |
| Foreign exchange gains/(losses) on cash and cash equivalents | 376 | (183) |
| Cash and cash equivalents, ending balance | 23 \$ 19,932 \$ | 18,455 |

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

Notes to the Financial Statements

Note 1.

General Information

The bank is a private unlimited company and is incorporated and domiciled in England and Wales. The address of its registered office is Plumtree Court, 25 Shoe Lane, London, EC4A 4AU, United Kingdom.

The bank's immediate parent undertaking is Goldman Sachs Group UK Limited (GSG UK), a company incorporated and domiciled in England and Wales.

The ultimate controlling undertaking and the parent company of the smallest and largest group for which consolidated financial statements are prepared is The Goldman Sachs Group, Inc., a company incorporated in the United States of America. Copies of its consolidated financial statements, as well as certain regulatory filings, for example Quarterly Reports on Form 10-Q and the Annual Report on Form 10-K, that provide further information about GS Group and its business activities, can be obtained from Investor Relations, 200 West Street, New York, NY 10282, United States of America, GS Group's principal place of business, or at www.goldmansachs.com/investor-relations.

Basel III Pillar 3 Disclosures

The bank is included in the consolidated Pillar 3 disclosures of GSG UK, as required by the U.K. capital framework. GSG UK's December 2023 Pillar 3 disclosures will be made available in conjunction with the publication of its consolidated financial information at www.goldmansachs.com/disclosures.

Country-by-Country Reporting

The bank is included in the consolidated country-by-country reporting disclosures of GSG UK, as required by the Capital Requirements (Country-by-Country Reporting) Regulations 2013. GSG UK's December 2023 Country-by-Country Reporting will be made available by December 31, 2024 at www.goldmansachs.com/disclosures.

Branch Information

The Frankfurt branch had total assets of \$19.46 billion (€17.63 billion) as of December 2023 and \$18.10 billion (€16.91 billion) as of December 2022.

The Johannesburg branch had total assets of \$160 million (R2.92 billion) as of December 2023 and \$160 million (R2.72 billion) as of December 2022.

Note 2.

Basis of Preparation

Statement of Compliance

These financial statements have been prepared in accordance with U.K.-adopted international accounting standards, the requirements of the Companies Act 2006, as applicable to companies reporting under those standards, and International Financial Reporting Standards (IFRS) adopted pursuant to Regulation (EC) No 1606/2002 as it applies to companies incorporated in the E.U. (IFRS as it applies in the E.U.).

As of and for the year ended December 2023, U.K.-adopted international accounting standards, applicable to the bank, were consistent with IFRS as it applies in the E.U.

These financial statements have been prepared on the going concern basis, under the historical cost basis (modified as explained in "Financial Assets and Liabilities" below).

Going Concern

These financial statements have been prepared on a going concern basis. The directors are satisfied that the bank has sufficient capital and resources to continue to operate for a period of at least twelve months from the date of approval of these financial statements. In reaching this conclusion, the directors have considered the financial results of the bank, its capital management activities and liquidity as set out in Note 29 of this annual report.

Consolidation

The bank has elected not to prepare consolidated financial statements as permitted by Section 402 of the Companies Act 2006 and, for the purpose of IFRS as it applies in the E.U., relevant accounting directives, as its subsidiaries are not material for the purpose of giving a true and fair view.

The bank has interests in the below special purpose entities that are fully funded by the bank through profit participating loan arrangements:

- Elan Woninghypotheek B.V. (incorporated in The Netherlands).
- Parkmore Point Limited (incorporated in England Wales).

The activities of these special purpose entities consist of the origination and purchase of mortgage loans with intention to subsequently securitise or sell as a portfolio of whole loans at a future date. These special purpose entities are consolidated in the financial statements of Group Inc.

These financial statements are separate financial statements.

Notes to the Financial Statements

Note 3.

Material Accounting Policies

New Standards, Amendments and Interpretations
Amendments to IAS 1 ‘Presentation of Financial Statements’ (IAS 1) and IFRS Practice Statement 2 ‘Making Materiality Judgements’ and IAS 12 ‘Income Taxes’ (IAS 12). The bank has applied the following amendments:

- **Disclosure of Accounting Policies (Amendments to IAS 1 and to IFRS Practice Statement 2 ‘Making Materiality Judgements’).** This amendment requires the disclosure of material accounting policies, replacing the requirement to disclose significant accounting policies. This amendment had a limited impact on the bank’s accounting policies disclosures, but did not have any impact on the amounts recognised in the financial statements.
- **International Tax Reform – Pillar Two Model Rules (Amendments to IAS 12).** This amendment was introduced in response to the Organisation for Economic Cooperation and Development Global Anti-Base Erosion Model Rules (Pillar Two), providing a mandatory temporary exception to recognise and disclose information about deferred tax assets and liabilities related to Pillar Two income taxes and requiring disclosure of known or reasonable estimable information about an entity’s exposure to Pillar Two income taxes. See Note 9 ‘Income Tax Expense’ for the bank’s Pillar Two Model Rules disclosure.

Accounting Policies

Revenue Recognition. Net revenues consists of revenues from lending and deposit-taking activities, securities lending and from primary dealer activities in European government bonds.

Non-derivative financial assets mandatorily at fair value through profit or loss and non-derivative financial liabilities held for trading or designated at fair value through profit or loss are recognised at fair value with realised and unrealised gains and losses included in gains or losses from financial instruments at fair value through profit or loss, with the exception of changes in the fair value of financial liabilities designated at fair value through profit or loss attributable to own credit spreads (debt valuation adjustment or DVA), which is recognised in other comprehensive income, unless this would create or enlarge an accounting mismatch in profit or loss. Associated interest and expenses are included within net interest income.

Unrealised gains and losses related to the change in fair value of financial assets and liabilities measured at fair value through profit or loss are recognised from trade date in gains or losses from financial instruments at fair value through profit or loss or other comprehensive income in the case of DVA.

Derivative financial assets and liabilities are recognised at fair value with realised and unrealised gains and losses included in gains or losses from financial instruments at fair value through profit or loss, with the exception of exchange of interest in currency derivative instruments related to funding products, which is included in net interest income. Financial assets are marked to bid prices and financial liabilities are marked to offer prices. Fair value measurements do not include transaction costs.

Financial assets and liabilities measured at amortised cost are initially recognised at fair value plus transaction costs and subsequently measured at amortised cost using the effective interest method. Finance revenue is recorded in interest income from financial instruments measured at amortised cost. Finance costs, including discounts allowed on issue, are recorded in interest expense from financial instruments measured at amortised cost.

Financial assets at fair value through other comprehensive income are measured at fair value with gains or losses recognised in other comprehensive income. On derecognition, gains or losses accumulated in other comprehensive income are reclassified to the income statement. Finance income, foreign exchange gains and losses and impairment are recognised in the income statement.

Fees from the bank’s lending activities which are not an integral component of the effective interest method, and fees from securities lending activities are included in fees and commissions.

Revenue from Contracts with Clients

Revenues earned from contracts with clients are recognised when the performance obligations related to the underlying transactions are completed.

If the bank is principal to the transaction, the bank recognises revenue on contracts with clients, gross of expenses incurred to satisfy some or all of its performance obligations. The bank is principal to the transaction if it has the primary obligation to provide the service to the client. The bank satisfies the performance obligation by itself, or by engaging other GS Group affiliates to satisfy some or all of its performance obligations on its behalf. Such revenue is recognised in net revenues and expenses incurred are recognised in operating expenses.

Notes to the Financial Statements

Segment Reporting. The directors manage the bank's business activities as a single operating segment and accordingly no segmental reporting has been provided.

Short-Term Employee Benefits. Short-term employee benefits, such as wages and salaries, are measured on an undiscounted basis and accrued as an expense over the period in which the employee renders the service to the bank. Provision is made for discretionary year-end compensation whether to be paid in cash or share-based awards where, as a result of bank policy and past practice, a constructive obligation exists at the balance sheet date.

Share-Based Payments. Group Inc. issues awards in the form of restricted stock units (RSUs) to the bank's employees in exchange for employee services. Group Inc. generally issues new shares of common stock upon delivery of share-based awards and the bank has no obligation to settle the awards. The awards are therefore classified as equity settled. As a result the cost of share-based transactions with employees is measured based on the grant-date fair value of the award. The bank recognises the grant-date fair value of the award in compensation and benefits in the income statement, with a corresponding credit directly to equity. For share-based awards that do not require future service (i.e., vested awards, including awards granted to retirement eligible employees), the grant-date fair value is expensed immediately. For share-based awards that require future service, the grant-date fair value is recognised over the relevant service period. Expected forfeitures are included in determining the amount of awards expected to vest and thus the share-based employee compensation expense. Cash dividend equivalents, unless prohibited by regulation, are generally paid on outstanding RSUs.

The bank has also entered into a chargeback agreement with Group Inc. under which it is committed to pay to Group Inc., at the delivery date of the shares, an amount in cash equal to (a) the grant-date fair value of those awards and (b) subsequent movements in the fair value of those awards between the grant date and delivery to employees (subsequent to the vesting date). The bank accounts for (a) by recognising a payable to Group Inc in other liabilities based on the grant date fair value of the award, with a corresponding debit directly to equity and for (b) by recognising the subsequent movement in the fair value of awards between the grant date and ultimate delivery to employees in compensation and benefits in the income statement, with a corresponding increase or decrease in other liabilities. As a result, the share-based payment transaction and chargeback agreement, in aggregate, gives rise to a total charge to the income statement based on the grant-date fair value of the awards adjusted for subsequent movements in the fair value of those awards prior to delivery.

Current and Deferred Taxation. Current tax is calculated on the basis of the tax laws enacted or substantively enacted at the balance sheet date in the countries where the bank operates and generates taxable income.

Deferred tax is recognised in respect of all temporary differences that have originated, but not reversed at the balance sheet date, where transactions or events have occurred at that date that will result in an obligation to pay more tax or a right to pay less tax in the future with the following exceptions:

- Deferred tax assets are recognised only to the extent that it is more likely than not that there will be suitable taxable profits from which the future reversal of the underlying temporary differences can be deducted.
- Deferred tax is measured on an undiscounted basis at the tax rates that are expected to apply in the periods in which temporary differences reverse, based on tax rates and laws enacted or substantively enacted at the balance sheet date.

Current tax and deferred tax is generally recognised in the income statement or directly in other comprehensive income according to where the associated gain or loss was recognised.

Dividends. Final equity dividends are recognised as a liability and deducted from equity in the period in which the dividends are approved by the bank's shareholder. Interim equity dividends are recognised and deducted from equity when paid.

Cash and cash equivalents. This includes cash at bank and highly liquid overnight deposits held in the ordinary course of business.

Foreign Currencies. The bank's financial statements are presented in U.S. dollars, which is also the bank's functional currency.

Transactions denominated in foreign currencies are translated into U.S. dollars at rates of exchange ruling on the date the transaction occurred. Monetary assets and liabilities, and non-monetary assets and liabilities measured at fair value, denominated in foreign currencies are translated into U.S. dollars at rates of exchange ruling at the balance sheet date. Foreign exchange gains and losses are recognised in net revenues.

The results of branches and representative offices with non-U.S. dollar functional currencies are translated at the average rates of exchange during the period and their balance sheet at the rates ruling at the balance sheet date. Exchange differences arising from the retranslation of their balance sheet and results are reported in other comprehensive income.

Notes to the Financial Statements

Financial Assets and Liabilities.

Recognition and Derecognition

Financial assets and liabilities, other than cash instruments purchased or sold in regular way transactions, are recognised when the bank becomes party to the contractual provisions of the instrument. Financial assets are derecognised when the contractual rights to the cash flows from the financial asset expire or if the bank transfers the financial asset and the transfer qualifies for derecognition. A transferred financial asset qualifies for derecognition if the bank transfers substantially all the risks and rewards of ownership of the financial asset or if the bank neither transfers nor retains substantially all the risks and rewards of ownership of the financial asset but does not retain control. Financial liabilities are derecognised only when they are extinguished, i.e., when the obligation specified in the contract is discharged or cancelled or expires.

Cash instruments purchased or sold in regular way transactions are recognised and derecognised using settlement date accounting.

Classification and Measurement: Financial Assets

The bank classifies financial assets as subsequently measured at amortised cost, fair value through profit or loss or fair value through other comprehensive income on the basis of both the bank's business model for managing financial assets and the contractual cash flow characteristics of the financial assets. The business model reflects how the bank manages particular groups of assets in order to generate future cash flows. Where the bank's business model is to hold the assets to collect contractual cash flows, the bank subsequently assesses whether the financial assets' cash flows represent solely payments of principal and interest.

• Financial assets measured at amortised cost.

Financial assets that are held for the collection of contractual cash flows and have cash flows that represent solely payments of principal and interest are measured at amortised cost. The bank considers whether the cash flows represent basic lending arrangements, and where contractual terms introduce exposure to risk or volatility inconsistent with a basic lending arrangement, the financial asset is mandatorily measured at fair value through profit or loss (see below).

Financial assets measured at amortised cost are initially measured at fair value plus transaction costs and subsequently at amortised cost using the effective interest method. The effective interest method is a method of calculating the amortised cost of a financial instrument and allocating the interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset or, when appropriate, a shorter period to the net carrying value of the financial asset. When calculating the effective interest rate, the bank estimates cash flows considering all contractual terms of the financial asset but does not consider future credit losses. Finance revenue is recorded in interest income from financial assets at amortised cost. Financial assets measured at amortised cost include:

- Cash and cash equivalents;
- Certain collateralised agreements, which consists of certain resale agreements and intercompany loans;
- Customer and other receivables;
- Certain loans and investments; and
- Certain other assets, which consists of certain intercompany loans and miscellaneous receivables and other.

- **Financial assets mandatorily measured at fair value through profit or loss.** Financial assets that are not held for the collection of contractual cash flows and/or do not have cash flows that represent solely payments of principal and interest are mandatorily measured at fair value through profit or loss. Financial assets mandatorily measured at fair value are initially measured at fair value with transaction costs expensed in the income statement. Such financial assets are subsequently measured at fair value with gains or losses recognised in gains or losses from financial instruments at fair value through profit or loss. Financial assets mandatorily measured at fair value include:

- Certain collateralised agreements, which consists of all securities borrowed, and certain resale agreements and intercompany loans;
- Trading assets, which consists of trading cash instruments and derivative instruments; and
- Certain loans and investments.

Notes to the Financial Statements

• **Financial assets measured at fair value through other comprehensive income.** Financial assets that are held for the collection of contractual cash flows and sale and have cash flows that represent solely payments of principal and interest are measured at fair value through other comprehensive income. Financial assets measured at fair value through other comprehensive income are initially measured at fair value with transaction costs expensed in the income statement. Such financial assets are subsequently measured at fair value with gains or losses recognised in other comprehensive income, with the exception of impairment and foreign exchange gains and losses which are recognised in the income statement. On derecognition, gains or losses accumulated in other comprehensive income are reclassified to the income statement. Finance income calculated using the effective interest method is recognised in the income statement. Financial assets measured at fair value through other comprehensive income include government and agency obligations within investments.

Classification and Measurement: Financial Liabilities

The bank classifies its financial liabilities into the below categories based on the purpose for which they were acquired or originated.

• **Financial liabilities held for trading.** Financial liabilities held for trading are initially measured at fair value and subsequently at fair value through profit or loss, with gains or losses recognised in gains or losses from financial instruments at fair value through profit or loss. Financial liabilities held for trading include trading liabilities, which consists of:

- Trading cash instruments; and
- Derivative instruments.

• **Financial liabilities designated at fair value through profit or loss.** The bank designates certain financial liabilities at fair value through profit or loss. Financial liabilities designated at fair value through profit or loss are initially measured at fair value and subsequently at fair value through profit or loss, with DVA being recognised in other comprehensive income, if it does not create or enlarge an accounting mismatch, and the remaining changes in the fair value being recognised in gains or losses from financial instruments at fair value through profit or loss. Amounts recognised in other comprehensive income attributable to own credit spreads are not subsequently transferred to the income statement, even upon derecognition of the financial liability. Gains or losses exclude contractual interest, which is included in net interest income, for all instruments other than hybrid financial instruments. The primary reasons for designating such financial liabilities at fair value through profit or loss are:

- To eliminate or significantly reduce a measurement or recognition inconsistency that would otherwise arise from measuring assets or liabilities or recognising the gains and losses on them on different bases; and
- The group of financial liabilities, or financial assets and liabilities, is managed and its performance evaluated on a fair value basis.

Financial liabilities designated at fair value through profit or loss include:

- Certain collateralised financings;
 - Certain deposits, which consists of certain time deposits; and
 - Certain unsecured borrowings, which consists of certain intercompany loans.
- **Financial liabilities measured at amortised cost.** Financial liabilities measured at amortised cost are initially measured at fair value plus transaction costs and subsequently measured at amortised cost using the effective interest method. See “Financial assets measured at amortised cost” above for further information on the effective interest method. Finance costs, including discounts allowed on issue, are recorded in interest expense on financial instruments measured at amortised cost. Financial liabilities measured at amortised cost include:
- Certain collateralised financings;
 - Customer and other payables;
 - Certain deposits, which consists of all overnight deposits and certain time deposits;
 - Certain unsecured borrowings that have not been designated at fair value through profit or loss; and
 - Certain other liabilities, which primarily consists of compensation and benefits and accrued expenses and other.

Impairment

The bank assesses the expected credit losses associated with financial assets measured at amortised cost, debt financial assets at fair value through other comprehensive income, and certain loan commitments and financial guarantee contracts on a forward-looking basis in accordance with the provisions of IFRS 9 ‘Financial Instruments’ (IFRS 9). The measurement of expected credit losses reflects an unbiased and probability weighted amount that is determined by evaluating a range of possible outcomes, the time value of money, and reasonable and supportable information that is available without undue cost or effort at the reporting date about past events, current conditions and forecasts of future economic conditions. Expected credit losses are recorded in impairments on financial instruments.

Notes to the Financial Statements

The bank's impairment model is based on changes in credit quality since initial recognition of financial assets measured at amortised cost and incorporates the following three stages:

- **Stage 1.** Financial assets measured at amortised cost that are not credit-impaired on initial recognition and there has been no significant increase in credit risk since initial recognition. The ECL is measured at an amount equal to the expected credit losses that result from default events possible within the next twelve months.
- **Stage 2.** Financial assets measured at amortised cost where there has been a significant increase in credit risk since initial recognition, however not yet deemed to be credit-impaired. The ECL is measured based on expected credit losses on a lifetime basis.
- **Stage 3.** Financial assets measured at amortised cost that are in default, or are defined as credit-impaired. The ECL is measured based on expected credit losses on a lifetime basis.

Determination of the relevant staging for each financial asset is dependent on the definition of 'significant increase in credit risk' (stage 1 to stage 2) and the definition of 'credit-impaired' (stage 3). The bank considers a financial asset to have experienced a significant increase in credit risk when certain quantitative or qualitative conditions are met. Quantitative thresholds include absolute probability of default thresholds on investment-grade financial assets and relative probability of default thresholds on non-investment grade financial assets. Qualitative review is also performed as part of the bank's credit risk management process, including a back-stop consideration of 30 days past due. The bank considers a financial asset to be credit-impaired when it meets Credit Risk's definition of default, which is either when the bank considers that the obligor is unlikely to pay its credit obligations to the bank in full, without recourse by the bank to actions, such as realising security (if held), or the obligor has defaulted on a payment and/or is past due more than 90 days.

The ECL is determined by projecting the probability of default, loss given default and exposure at default for each individual exposure. To calculate expected credit losses, these three components are multiplied together and discounted back to the reporting date. The discount rate used in the ECL calculation is the original effective interest rate. The probability of default represents the likelihood of a borrower defaulting on its financial obligation. The loss given default is the bank's expectation of the extent of loss on the default exposure, and takes into consideration amongst other things, collateral on the financial asset. The exposure at default is the amount the bank expects to be owed at the time the financial obligation defaults. The bank uses internal credit risk ratings that reflect the assessment of the probability of default of individual counterparties. The bank uses multiple macroeconomic scenarios within the ECL calculation, the weightings for which are subject to ongoing internal review and approval.

The ECL model takes into account the weighted average of a range of forecasts of future economic conditions. The forecasts include baseline, favourable and adverse economic scenarios over a three-year period. For financial assets in stage 2 or stage 3 which have an expected life beyond three years, the model reverts to historical loss information based on a non-linear modelled approach. The bank applies judgement in weighing individual scenarios each quarter based on a variety of factors, including internally derived economic outlook, market consensus, recent macroeconomic conditions and industry trends.

Forward-looking information, such as key economic variables impacting credit risk and expected credit losses, is incorporated into both the assessment of staging and the calculation of ECL.

The allowance for impairment losses also includes qualitative components which allow management to reflect the uncertain nature of economic forecasting and account for model imprecision and concentration risk.

The bank estimates the expected portion of the loan commitment that will be drawn down over its expected life. The ECL is then based on the present value of the expected shortfalls in cash flows if the loan is drawn down, based on a probability-weighting of the three scenarios. The expected cash shortfalls are discounted at an approximation to the expected effective interest rate on the loan.

The bank writes off financial assets, in whole or in part, when it has concluded that there is no reasonable expectation of recovery. When a financial asset is deemed to be uncollectable, the bank concludes this to be an indicator that there is no reasonable expectation of recovery. The bank still seeks to recover amounts it is legally owed in full, but which have been wholly or partially written off due to no reasonable expectation of full recovery.

Notes to the Financial Statements

Classification of Financial Liabilities and Equity

Financial liabilities and equity instruments are classified according to the substance of the contractual arrangements. A financial liability is any liability that is a contractual obligation to deliver cash or another financial asset to another entity; or to exchange financial assets or financial liabilities with another entity under conditions that are potentially unfavourable to the entity. An equity investment is any contract that evidences a residual interest in the assets of the entity after deducting all liabilities. Instruments are evaluated to determine if they contain both liability and equity components. The initial carrying value of a compound financial instrument is allocated first to the liability component, measured at fair value, and the equity is assigned the residual amount.

Offsetting Financial Assets and Liabilities

Financial assets and liabilities are offset and the net amount presented in the balance sheet where there is:

- Currently a legally enforceable right to set-off the recognised amounts; and
- Intent to settle on a net basis or to realise the asset and settle the liability simultaneously.

Where these conditions are not met, financial assets and liabilities are presented on a gross basis in the balance sheet.

Fair Value Measurement

See Note 28 for details about the fair value measurement of the bank's financial assets and liabilities.

Fair Value Hedges

The bank applies hedge accounting under IAS 39 'Financial Instruments: Recognition and Measurement' for certain interest rate swaps used to manage the interest rate exposure of certain fixed-rate deposits. To qualify for hedge accounting, the derivative hedge must be highly effective at reducing the risk from the exposure being hedged. Additionally, the bank must formally document the hedging relationship at inception and assess the hedging relationship to ensure the derivative hedge continues to be highly effective over the life of the hedging relationship.

Net Investment Hedging. Where net investment hedging is employed, all gains and losses on the effective portion of the hedging instrument, together with any gains and losses on the foreign currency translation of the hedge investment, are taken directly to other comprehensive income. Any gains or losses on the ineffective portion are recognised immediately in the income statement. The cumulative gains and losses on the hedging instrument and gains and losses on the translation of the hedged investment are recognised in the income statement only on substantial liquidation of the investment.

Collateralised Agreements and Collateralised Financings.

Collateralised agreements include resale agreements, securities borrowed and intercompany loans. Collateralised financings include repurchase agreements. See "Classification and Measurement: Financial Assets" and "Classification and Measurement: Financial Liabilities" above for details on the classification and measurement of these instruments. Collateral received or posted can be in the form of cash or securities. Cash collateral is recognised/derecognised when received/paid. Collateral posted by the bank in the form of securities is not derecognised from the balance sheet, whilst collateral received in the form of securities is not recognised in the balance sheet. If collateral received is subsequently sold, the obligation to return the collateral and the cash received are recognised in the balance sheet.

Pension Arrangements. The bank is a participating employer of a defined contribution pension plan. The contributions payable for the period are charged to operating expenses. Differences between contributions payable for the period and contributions actually paid are shown as either accruals or prepayments in the balance sheet.

Intangible Assets. Intangible assets are stated at cost less accumulated amortisation and provision for impairment. Subject to the recognition criteria in IAS 38 'Intangible Assets' being met, costs incurred during the period that are directly attributable to the development or improvement of new business application software are capitalised as assets in the course of construction. Assets in the course of construction are transferred to computer software once completed and ready for their intended use.

Computer software is amortised on a straight-line basis over its estimated useful life, which is three years. No amortisation is charged on assets in the course of construction. Amortisation is included in operating expenses and the amortisation policies are reviewed on an annual basis.

Intangible fixed assets are tested for impairment whenever events or changes in circumstances suggest that an asset's or asset group's carrying value may not be fully recoverable.

Notes to the Financial Statements

Provisions, Contingent Liabilities and Contingent Assets. Provisions are recognised in the financial statements when it is probable that an outflow of economic benefits will be required to settle a present (legal or constructive) obligation, which has arisen as a result of past events, and for which a reliable estimate can be made of the amount of the obligation. Legal obligations that may arise as a result of proposed new laws are recognised as obligations only when the legislation is virtually certain to be enacted as drafted.

A contingent liability is a possible obligation that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the bank or a present obligation that arises from past events but is not recognised because either an outflow of economic benefits is not probable or the amount of the obligation cannot be reliably measured.

A contingent asset is a possible asset that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the bank.

Contingent liabilities and contingent assets are not recognised in the financial statements. However, disclosure is made unless the probability of settlement is remote.

Note 4.

Critical Accounting Estimates and Judgements

The preparation of financial statements requires management to make judgements, estimates and assumptions that affect the amounts recognised in these financial statements. The nature of estimation means that actual outcomes could differ from those estimates. The following estimates have had the most significant effect on amounts recognised in the financial statements:

Allowance for Impairment

The allowance for impairment (see Notes 13, 21 and 29) is determined by an ECL model internally developed to meet the impairment requirements of IFRS 9. The measurement of ECL requires the use of a complex model and significant assumptions about future economic conditions and credit behaviour. Significant judgements are also required in applying the accounting requirements for measuring ECL, including determining criteria for significant increases in credit risk and establishing the number and weighting of forward looking scenarios.

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

Fair Value Measurement

Certain of the bank's financial assets and liabilities include significant unobservable inputs (i.e., level 3). See Note 28 for information about the carrying value, valuation techniques and significant inputs of these instruments.

Notes to the Financial Statements**Note 5.****Net Revenues**

Net revenues include net interest income and non-interest gains/(losses). Net interest income includes interest on financial instruments measured at fair value and amortised cost. Non-interest gains/(losses) includes:

- Gains and losses on financial instruments mandatorily measured at fair value through profit or loss, which primarily relate to non-interest gains/(losses) on trading assets and trading liabilities, and certain collateralised agreements, loans and investments.
- Gains and losses on financial instruments designated at fair value through profit or loss, which primarily relate to non-interest gains/(losses) on collateralised financings and certain deposits and unsecured borrowings.
- Fees and commissions, which primarily relates to lending and securities lending activities.

The table below presents the bank's net revenues.

| \$ in millions | Year Ended December | |
|--|---------------------|----------------|
| | 2023 | 2022 |
| Interest income | | |
| Interest income from financial instruments measured at fair value through profit or loss | \$ 2,626 | \$ 1,070 |
| Interest income from financial instruments measured at fair value through other comprehensive income | 10 | 10 |
| Interest income from financial instruments measured at amortised cost | 1,789 | 641 |
| Total interest income | 4,425 | 1,721 |
| Interest expense | | |
| Interest expense from financial instruments measured at fair value through profit or loss | (1,407) | (445) |
| Interest expense from financial instruments measured at amortised cost | (2,254) | (699) |
| Total interest expense | (3,661) | (1,144) |
| Net interest income | 764 | 577 |
| Non-interest gains/(losses) | | |
| Financial instruments mandatorily at fair value through profit or loss | 100 | (208) |
| Financial instruments designated at fair value through profit or loss | (91) | 126 |
| Fees and commissions | 75 | 51 |
| Total non-interest gains/(losses) | 84 | (31) |
| Net revenues | \$ 848 | \$ 546 |

In the table above, financial instruments designated at fair value through profit or loss are frequently economically hedged with financial instruments measured mandatorily at fair value through profit or loss. Accordingly, gains or losses that are reported in financial instruments designated at fair value through profit or loss can be partially offset by gains or losses reported in financial instruments measured mandatorily at fair value through profit or loss.

Interest Income and Interest Expense

The table below presents the bank's sources of interest income and interest expense.

| \$ in millions | Year Ended December | |
|--|---------------------|----------------|
| | 2023 | 2022 |
| Interest income | | |
| Cash and cash equivalents | \$ 689 | \$ 76 |
| Collateralised agreements | 2,308 | 681 |
| Trading assets | 24 | 33 |
| Loans | 617 | 379 |
| Investments | 27 | 14 |
| Derivative instruments | 530 | 279 |
| Negative interest on financial liabilities | 143 | 202 |
| Other assets | 87 | 57 |
| Total interest income | 4,425 | 1,721 |
| Interest expense | | |
| Collateralised financings | (271) | (27) |
| Trading liabilities | (1) | (7) |
| Deposits | (3,027) | (907) |
| Unsecured borrowings | (260) | (126) |
| Derivative instruments | (102) | (25) |
| Negative interest on financial assets | — | (52) |
| Total interest expense | (3,661) | (1,144) |
| Net interest income | \$ 764 | \$ 577 |

In the table above, interest on derivative instruments consists of exchange of interest in currency derivative instruments related to funding products.

Notes to the Financial Statements

Note 6.

Operating Expenses

The table below presents the bank's operating expenses.

| <i>\$ in millions</i> | Year Ended December | |
|---|---------------------|---------------|
| | 2023 | 2022 |
| Management charges from GS Group affiliates | \$ 82 | \$ 96 |
| Transaction based expenses | 21 | 36 |
| Compensation and benefits | 18 | 21 |
| Market development | 4 | 12 |
| Depreciation and amortisation | 10 | 4 |
| Professional fees | 8 | 2 |
| Occupancy | 2 | 2 |
| Communications and technology | 1 | 2 |
| Other expenses | 14 | 1 |
| Operating expenses | \$ 160 | \$ 176 |

In the table above:

- Management charges from GS Group affiliates includes charges relating to operational and administrative support and management services, received from GS Group affiliates.
- Transaction based expenses includes expenses resulting from completed transactions, which are directly related to client revenues, and certain expenses incurred to satisfy performance obligations where the bank is principal to a transaction as required by IFRS 15 'Revenue from Contracts with Customers' (IFRS 15). Such expenses were \$15 million for 2023 and \$31 million for 2022.

The table below presents the fees payable to the bank's auditor, which are included in professional fees.

| <i>\$ in millions</i> | Year Ended December | |
|-----------------------|---------------------|---------------|
| | 2023 | 2022 |
| Audit fees | \$ 2.8 | \$ 2.4 |
| Total | \$ 2.8 | \$ 2.4 |

Note 7.

Compensation and Benefits

A portion of the persons involved in the bank's operations are employed by GS Group affiliates. The charges made by these GS Group affiliates, including share-based payments, for all the services provided (personnel and other) to the bank are included in the management charges from GS Group affiliates (see Note 6).

Total average headcount was 133 for 2023 and 138 for 2022. Total headcount was 162 as of December 2023 and 132 as of December 2022. Additionally, 36 persons as of December 2023 and 48 persons as of December 2022 who were employed by GS Group affiliates were assigned to the bank through employee arrangements. Services are also provided to the bank by employees of other GS Group affiliates under a Master Services Agreement supplemented by service level agreements.

The table below presents the bank's compensation and benefits costs incurred by the bank.

| <i>\$ in millions</i> | Year Ended December | |
|---|---------------------|--------------|
| | 2023 | 2022 |
| Wages and salaries | \$ 15 | \$ 18 |
| Social security costs | 2 | 2 |
| Pension costs - defined contribution plan | 1 | 1 |
| Total | \$ 18 | \$ 21 |

In the table above, total compensation and benefits included a charge of \$400,000 for 2023 and a credit of \$100,000 for 2022 representing recharges from Group Inc. equivalent to changes in the fair value of share-based payment awards during the year.

Notes to the Financial Statements

Note 8.

Share-Based Payments

Stock Incentive Plan

Group Inc. sponsors a stock incentive plan, The Goldman Sachs Amended and Restated Stock Incentive Plan (2021) (2021 SIP), which provides for, amongst others, grants of RSUs, restricted stock, dividend equivalent rights and incentive stock options, each of which may be subject to terms and conditions, including performance or market conditions. On April 29, 2021, Group Inc.'s shareholders approved the 2021 SIP. The 2021 SIP is a successor to several predecessor stock incentive plans, the first of which was adopted on April 30, 1999, and each of which was approved by Group Inc.'s shareholders. The 2021 SIP is scheduled to terminate on the date of Group Inc.'s annual meeting of shareholders that occurs in 2025.

The bank recorded share-based compensation in respect of the amortisation of granted equity awards, net of forfeitures, of \$2 million for 2023 and \$819,000 for 2022. The resultant credit to equity arising from these share-based payments has been offset in equity as a result of the recognition of a liability for amounts arising under the terms of the chargeback agreement with Group Inc. under which the bank is committed to pay to Group Inc. the grant-date fair value, as well as subsequent movements in the fair value of those awards to Group Inc. at the time of delivery to its employees.

Restricted Stock Units

Group Inc. grants RSUs (including RSUs subject to performance or market conditions) to the bank's employees, which are generally valued based on the closing price of the underlying shares on the date of grant after taking into account a liquidity discount for any applicable post-vesting and delivery transfer restrictions. The value of equity awards also considers the impact of material non-public information, if any, that the GS Group expects to make available shortly following grant. RSUs not subject to performance or market conditions generally vest and underlying shares of common stock deliver (net of required withholding tax) over a three-year period as outlined in the applicable award agreements. Award agreements generally provide that vesting is accelerated in certain circumstances, such as on retirement, death, disability and, in certain cases, conflicted employment. Delivery of the underlying shares of common stock is conditioned on the grantees satisfying certain vesting and other requirements outlined in the award agreements.

RSUs that are subject to performance or market conditions generally are settled after the end of a three to five-year period. For awards that are subject to performance or market conditions, the final award is adjusted from zero up to 150% of the original grant based on satisfaction of those conditions. Dividend equivalents that accrue on these awards are paid when the awards settle.

The table below presents the bank's activity related to RSUs.

| | Restricted stock units outstanding | | Weighted average grant-date fair value of restricted stock units outstanding | |
|---------------------------------|------------------------------------|----------------------------|--|----------------------------|
| | Future service required | No future service required | Future service required | No future service required |
| Year Ended December 2023 | | | | |
| Beginning balance | 1,163 | 3,577 | \$ 290.25 | \$ 283.46 |
| Granted | 666 | 3,886 | \$ 339.30 | \$ 319.76 |
| Forfeited | (5) | — | \$ 261.71 | \$ — |
| Delivered | — | (2,643) | \$ — | \$ 281.19 |
| Vested | (1,138) | 1,138 | \$ 303.85 | \$ 303.85 |
| Transfers | — | — | \$ — | \$ — |
| Ending balance | 686 | 5,958 | \$ 315.53 | \$ 312.04 |
| Year Ended December 2022 | | | | |
| Beginning balance | 2,065 | 3,371 | \$ 233.97 | \$ 235.36 |
| Granted | 1,428 | 1,209 | \$ 326.25 | \$ 336.93 |
| Forfeited | (117) | (231) | \$ 319.84 | \$ 307.40 |
| Delivered | — | (3,036) | \$ — | \$ 232.60 |
| Vested | (2,264) | 2,264 | \$ 260.77 | \$ 260.77 |
| Transfers | 51 | — | \$ 225.08 | \$ — |
| Ending balance | 1,163 | 3,577 | \$ 290.25 | \$ 283.46 |

In the table above:

- The weighted average grant-date fair value of RSUs granted was \$322.62 during 2023 and \$331.14 during 2022. The grant-date fair value of these RSUs included an average liquidity discount of 4.72% during 2023 and 2.81% during 2022, to reflect post-vesting and delivery transfer restrictions, generally of 1 year for both 2023 and 2022.
- The aggregate fair value of awards that vested was \$2 million for 2023 and \$1 million for 2022.

Notes to the Financial Statements

Note 9.

Income Tax Expense

The table below presents an analysis of the bank's income tax expense.

| \$ in millions | Year Ended December | |
|---|---------------------|--------------|
| | 2023 | 2022 |
| Current tax | | |
| U.K. taxation | \$ 173 | \$ 71 |
| Adjustments in respect of prior periods | 1 | 1 |
| Overseas taxation | 3 | 3 |
| Total current tax | 177 | 75 |
| Deferred tax | | |
| Origination and reversal of temporary differences | 16 | (6) |
| Adjustments in respect of prior periods | — | (11) |
| Total deferred tax | 16 | (17) |
| Income tax expense | \$ 193 | \$ 58 |

The table below presents a reconciliation between income tax expense and the amount calculated by applying the weighted average combined U.K. corporation tax rate (including banking surcharge) applicable to the bank for 2023 of 27.75% (2022: 27.0%) to profit before taxation. The bank's weighted average combined U.K. corporation tax rate for 2023 of 27.75% included three months from January 1, 2023 to March 31, 2023 at 27.0% and nine months from April 1, 2023 to December 31, 2023 at 28.0%.

| \$ in millions | Year Ended December | |
|--|---------------------|--------------|
| | 2023 | 2022 |
| Profit before taxation | \$ 699 | \$ 276 |
| Profit multiplied by U.K. corporation tax rate of 27.75% (2022: 27%) | 194 | 75 |
| Changes in recognition and measurement of deferred tax assets | (3) | (6) |
| Permanent differences | — | — |
| Exchange differences and other | 1 | (1) |
| Adjustments in respect of prior periods | 1 | (10) |
| Income tax expense | \$ 193 | \$ 58 |

In July 2023, the Finance (No. 2) Act 2023 enacted certain provisions of the Organisation for Economic Co-operation and Development Global Anti-Base Erosion (GloBE) Model Rules (Pillar Two), including a Domestic Minimum Top-Up Tax, which will apply to GS Group from January 2024. Pillar Two aims to ensure that multinational companies pay a minimum effective corporate tax rate of 15% in each jurisdiction in which they operate. The bank does not expect a material impact to its 2024 annual effective tax rate, absent a significant change in its profitability or mix of earnings, based on its current understanding of these rules. The bank has applied the exception to recognising and disclosing information about deferred tax assets and liabilities related to Pillar Two income taxes.

The Finance Act 2022, which decreased the bank surcharge applicable to the bank from 8.0% to 3.0% from April 1, 2023, was enacted in February 2022. As a result, during 2022, the bank's deferred tax assets were remeasured and a deferred tax benefit of \$497,000 was recognised in the income statement. This change, coupled with the increase in the U.K. corporate tax main rate from 19.0% to 25.0% from April 1, 2023, enacted in June 2021, resulted in the combined U.K. corporation tax rate (including banking surcharge) applicable to the bank increasing from 27.0% to 28.0% from April 1, 2023.

Note 10.

Collateralised Agreements

The table below presents the banks' collateralised agreements.

| \$ in millions | As of December | |
|---------------------|------------------|------------------|
| | 2023 | 2022 |
| Resale agreements | \$ 40,660 | \$ 28,724 |
| Securities borrowed | 1,555 | 3 |
| Intercompany loans | 9,924 | 8,762 |
| Total | \$ 52,139 | \$ 37,489 |

Note 11.

Customer and Other Receivables

The table below presents the bank's customer and other receivables.

| \$ in millions | As of December | |
|--|----------------|---------------|
| | 2023 | 2022 |
| Receivables from broker/dealers and clearing organisations | \$ 40 | \$ 48 |
| Receivables from customers and counterparties | 876 | 161 |
| Total | \$ 916 | \$ 209 |

Notes to the Financial Statements

Note 12.

Trading Assets and Liabilities

Trading assets and liabilities include trading cash instruments and derivatives held in connection with the bank's market-making or risk management activities.

The table below presents the bank's trading assets.

| \$ in millions | As of December | |
|---------------------------------------|-----------------|-----------------|
| | 2023 | 2022 |
| Trading cash instruments | | |
| Bank loans | \$ 42 | \$ 57 |
| Government and agency obligations | 1,315 | 2,951 |
| Mortgage-backed loans | 28 | 259 |
| Total trading cash instruments | 1,385 | 3,267 |
| Derivatives | | |
| Interest rates | 540 | 459 |
| Credit | 1,784 | 190 |
| Currencies | 703 | 1,366 |
| Equities | 802 | 85 |
| Total derivatives | 3,829 | 2,100 |
| Total | \$ 5,214 | \$ 5,367 |

The table below presents the bank's trading liabilities.

| \$ in millions | As of December | |
|---------------------------------------|-----------------|-----------------|
| | 2023 | 2022 |
| Trading cash instruments | | |
| Government and agency obligations | \$ 4 | \$ 48 |
| Total trading cash instruments | 4 | 48 |
| Derivatives | | |
| Interest rates | 510 | 491 |
| Credit | 124 | 101 |
| Currencies | 264 | 936 |
| Equities | 734 | 28 |
| Total derivatives | 1,632 | 1,556 |
| Total | \$ 1,636 | \$ 1,604 |

Note 13.

Loans

The table below presents the bank's loans.

| \$ in millions | As of December | |
|-----------------------|-----------------|-----------------|
| | 2023 | 2022 |
| Bank loans | \$ 3,623 | \$ 4,330 |
| Mortgage-backed loans | 4,452 | 4,779 |
| Total | \$ 8,075 | \$ 9,109 |

In the table above, total loans included an allowance for impairment of \$108 million as of December 2023 and \$108 million as of December 2022.

Note 14.

Investments

Investments are generally held by the bank in connection with its long-term investing or risk management activities.

The table below presents investments.

| \$ in millions | As of December | |
|-----------------------------------|-----------------|-----------------|
| | 2023 | 2022 |
| Government and agency obligations | \$ 2,852 | \$ 2,387 |
| Debt instruments | 316 | 1,691 |
| Total | \$ 3,168 | \$ 4,078 |

In the table above, government and agency obligations were held for the purposes of managing the bank's fixed interest rate risk from deposit-taking activities.

Note 15.

Other Assets

The table below presents the bank's other assets by type.

| \$ in millions | As of December | |
|-------------------------------------|----------------|-----------------|
| | 2023 | 2022 |
| Financial assets | | |
| Intercompany loans | \$ 8 | \$ 1,886 |
| Miscellaneous receivables and other | 250 | 195 |
| Total financial assets | 258 | 2,081 |
| Non-financial assets | | |
| Intangible assets | 17 | 19 |
| Right-of-use assets | 1 | 3 |
| Deferred tax assets | 122 | 154 |
| Prepayments and accrued income | 2 | 1 |
| Tax-related assets | 5 | 15 |
| Total non-financial assets | 147 | 192 |
| Total | \$ 405 | \$ 2,273 |

In the table above, miscellaneous receivables and other primarily includes receivables for allocation of net revenues among GS Group affiliates for their participation in GS Group's business activities.

Notes to the Financial Statements

Note 16.

Deferred Tax Assets

The table below presents the components of the bank's deferred tax asset.

| \$ in millions | As of December | |
|---|----------------|---------------|
| | 2023 | 2022 |
| Unused tax losses | \$ 16 | \$ 36 |
| Unrealised gains and losses on intercompany funding | 4 | 3 |
| Debt valuation adjustment | — | (2) |
| Government and agency obligations measured at fair value through other comprehensive income | 108 | 125 |
| Other temporary differences | (6) | (8) |
| Total | \$ 122 | \$ 154 |

The table below presents changes in each component of the bank's deferred tax asset.

| \$ in millions | As of December | |
|--|----------------|---------------|
| | 2023 | 2022 |
| Unused tax losses | | |
| Beginning balance | \$ 36 | \$ 32 |
| Transfer to the income statement | (20) | 4 |
| Ending balance | \$ 16 | \$ 36 |
| Unrealised gains and losses on intercompany funding | | |
| Beginning balance | \$ 3 | (14) |
| Transfer to the income statement | 1 | 17 |
| Ending balance | \$ 4 | \$ 3 |
| Debt valuation adjustment | | |
| Beginning balance | \$ (2) | \$ 3 |
| Transfer to other comprehensive income | 2 | (5) |
| Ending balance | \$ — | \$ (2) |
| Government and agency obligations measured at fair value through other comprehensive income | | |
| Beginning balance | \$ 125 | \$ 23 |
| Transfer to other comprehensive income | (17) | 102 |
| Ending balance | \$ 108 | \$ 125 |
| Other temporary differences | | |
| Beginning balance | \$ (8) | (6) |
| Transfer to the income statement | 3 | (4) |
| Translation gains | (1) | 2 |
| Ending balance | \$ (6) | (8) |
| Total | | |
| Beginning balance | \$ 154 | \$ 38 |
| Transfer to the income statement (see Note 9) | (16) | 17 |
| Transfer to other comprehensive income | (15) | 97 |
| Translation gains | (1) | 2 |
| Ending balance | \$ 122 | \$ 154 |

The deferred tax asset is recognised on the basis of estimated future taxable profits over the bank's planning horizon. Having considered the expected performance of the business, the directors are of the opinion that these projections support the recognition of the deferred tax asset.

Note 17.

Collateralised Financings

The table below presents the bank's collateralised financings.

| \$ in millions | As of December | |
|-----------------------|----------------|---------------|
| | 2023 | 2022 |
| Repurchase agreements | \$ 41 | \$ 301 |
| Total | \$ 41 | \$ 301 |

Note 18.

Customer and Other Payables

The table below presents the bank's customer and other payables.

| \$ in millions | As of December | |
|---|----------------|---------------|
| | 2023 | 2022 |
| Payables to broker/dealers and clearing organisations | \$ 35 | \$ 72 |
| Payables to customers and counterparties | 737 | 692 |
| Total | \$ 772 | \$ 764 |

Note 19.

Deposits

The table below presents the bank's deposits.

| \$ in millions | As of December | |
|-----------------------|------------------|------------------|
| | 2023 | 2022 |
| Customer deposits | \$ 75,444 | \$ 62,358 |
| Intercompany deposits | 5,617 | 5,483 |
| Total | \$ 81,061 | \$ 67,841 |

In the table above, customer deposits included deposits from institutional clients, private wealth management clients and retail clients through the digital deposit platform.

Notes to the Financial Statements

Debt Valuation Adjustment

The bank calculates the fair value of deposits that are designated at fair value through profit or loss by discounting future cash flows at a rate which incorporates GS Group's credit spreads.

The table below presents information about the bank's net DVA gains/(losses) (pre-tax) on such financial liabilities, which is included in other comprehensive income.

| \$ in millions | Year Ended December | |
|------------------------------|---------------------|-------|
| | 2023 | 2022 |
| DVA gains/(losses) (pre-tax) | \$ (6) | \$ 22 |

The table below presents information about the cumulative net DVA gains included in accumulated other comprehensive income.

| \$ in millions | As of December | |
|---------------------|----------------|------|
| | 2023 | 2022 |
| DVA gains (pre-tax) | \$ — | \$ 6 |

Hedge Accounting

The bank designates certain interest rate swaps as fair value hedges that are used to manage the interest rate exposure of certain fixed-rate deposits. These interest rate swaps hedge changes in fair value attributable to the relevant benchmark interest rate, effectively converting fixed-rate obligations into floating-rate obligations.

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

- Differences in timing of cash flows between the hedged item and hedging instrument.
- Differences in discounting between the hedged item and the hedging instrument, as cash collateralised derivatives are discounted using Overnight Indexed Swap discount curves, which are not consistently applied to the hedged item.
- Counterparty credit risk impacting fair value movements on uncollateralised interest rate swaps but not the underlying hedged item.

For qualifying fair value hedges, gains or losses on derivatives and the change in fair value of the hedged item attributable to the hedged risk are included in net revenues. When a derivative is no longer designated as a hedge, any remaining difference between the carrying value and par value of the hedged item is amortised over the remaining life of the hedged item using the effective interest method.

The table below presents information about hedging instruments, which are classified in derivatives within trading assets and liabilities in the balance sheet.

| \$ in millions | As of December | |
|--------------------------|----------------|---------|
| | 2023 | 2022 |
| Asset carrying value | \$ — | \$ 1 |
| Liability carrying value | \$ (22) | \$ (38) |

The table below presents the notional of hedging instruments by contractual maturity date.

| \$ in millions | As of December | |
|-----------------------------------|----------------|---------------|
| | 2023 | 2022 |
| Between one and three months | \$ — | \$ 49 |
| Between three months and one year | — | — |
| Between one and five years | 468 | 351 |
| Over five years | — | 125 |
| Total | \$ 468 | \$ 525 |

The average fixed rate of the bank's hedging instruments was 1.11% for 2023 and 1.08% for 2022.

The table below presents the carrying value of hedged items that are designated in a hedging relationship and the related cumulative hedging adjustment (increase/(decrease)) from current and prior hedging relationships included in such carrying values.

| \$ in millions | Carrying value | Cumulative hedging adjustment |
|----------------------------|----------------|-------------------------------|
| | | |
| As of December 2023 | | |
| Deposits | \$ 448 | \$ 24 |
| As of December 2022 | | |
| Deposits | \$ 422 | \$ 43 |

The table below presents the bank's gains/(losses) from interest rate derivatives accounted for as hedges, the related hedged deposits and the hedge ineffectiveness on these derivatives, recognised in net revenues.

| \$ in millions | Year Ended December | |
|------------------------------|---------------------|---------------|
| | 2023 | 2022 |
| Interest rate hedges | \$ 19 | \$ (60) |
| Hedged deposits | (20) | 59 |
| Hedge ineffectiveness | \$ (1) | \$ (1) |

Notes to the Financial Statements

Note 20.

Unsecured Borrowings

The table below presents the bank's unsecured borrowings.

| \$ in millions | As of December | |
|------------------------|-----------------|-----------------|
| | 2023 | 2022 |
| Overdrafts | \$ 11 | \$ 22 |
| Debt securities issued | 220 | — |
| Intercompany loans | 1,065 | 1,973 |
| Subordinated loans | 832 | 832 |
| Total | \$ 2,128 | \$ 2,827 |

In the table above, subordinated loans consist of a long-term loan from other GS Group affiliates of \$826 million and accrued interest on this loan. The loan is unsecured and carries interest at a margin over the U.S. Federal Reserve's Federal Funds rate and constitutes regulatory capital as approved by the PRA. The loan is repayable on September 8, 2030. Any repayment prior to this maturity date requires PRA approval.

Note 21.

Other Liabilities

The table below presents the bank's other liabilities by type.

| \$ in millions | As of December | |
|---|----------------|---------------|
| | 2023 | 2022 |
| Financial liabilities | | |
| Allowance for impairment on unfunded lending commitments measured at amortised cost | \$ 12 | \$ 23 |
| Compensation and benefits | 3 | 4 |
| Lease liabilities | — | 3 |
| Accrued expenses and other | 162 | 137 |
| Total financial liabilities | 177 | 167 |
| Non-financial liabilities | | |
| Income tax-related liabilities | 13 | 1 |
| Other taxes and social security costs | 3 | 1 |
| Total non-financial liabilities | 16 | 2 |
| Total | \$ 193 | \$ 169 |

Note 22.

Share Capital

The table below presents the bank's share capital.

| Allotted, called up and fully paid | Ordinary shares | |
|------------------------------------|-------------------|----------------|
| | of £1 each | \$ in millions |
| As of December 2022 | 40,169,994 | \$ 63 |
| As of December 2023 | 40,169,994 | \$ 63 |

Note 23.

Statement of Cash Flows Reconciliations

The table below presents the bank's cash and cash equivalents for the purpose of the statement of cash flows.

| \$ in millions | As of December | |
|---------------------------|----------------|-----------|
| | 2023 | 2022 |
| Cash and cash equivalents | \$ 19,932 | \$ 18,455 |

Reconciliation of Cash Flows From Operating Activities

The table below presents a reconciliation of cash flows from operating activities.

| \$ in millions | Year Ended December | |
|---|---------------------|-----------------|
| | 2023 | 2022 |
| Profit before taxation | \$ 699 | \$ 276 |
| Adjustments for | | |
| Depreciation and amortisation (see Note 6) | 10 | 4 |
| Foreign exchange (gains)/losses | (387) | 170 |
| Share-based compensation expense | 1 | 1 |
| Gains on investments | (27) | (29) |
| Interest expense on financing activities | 70 | 43 |
| Cash generated before changes in operating assets and liabilities | 366 | 465 |
| Changes in operating assets | | |
| (Increase)/decrease in collateralised agreements | (14,650) | 17,701 |
| (Increase)/decrease in customer and other receivables | (707) | 83 |
| (Increase)/decrease in trading assets | 153 | (2,140) |
| Decrease in loans | 1,034 | 2,691 |
| (Increase)/decrease in other assets | 1,841 | (1,132) |
| Changes in operating assets | (12,329) | 17,203 |
| Changes in operating liabilities | | |
| Increase/(decrease) in collateralised financings | (260) | 67 |
| Increase in customer and other payables | 8 | 512 |
| Increase in trading liabilities | 32 | 778 |
| Increase/(decrease) in deposits | 13,220 | (11,794) |
| Increase/(decrease) in unsecured borrowings | (699) | 935 |
| Increase in other liabilities | 7 | 59 |
| Changes in operating liabilities | 12,308 | (9,443) |
| Cash generated from operations | \$ 345 | \$ 8,225 |

In the table above:

- Cash generated from operations included interest paid of \$3.32 billion for 2023 and \$1.17 billion for 2022, and interest received of \$3.74 billion for 2023 and \$677 million for 2022.
- Foreign exchange (gains)/losses primarily relate to the non-cash revaluation of Euro cash balances, primarily held in central banks for liquidity management purposes. The revaluation of cash balances and other monetary assets and liabilities is recognised in profit before taxation.
- Both the principal and interest related to subordinated loans is classified as financing activity.

Notes to the Financial Statements

Note 24.

Commitments and Contingencies

Commitments

The table below presents the bank's commitments.

| \$ in millions | As of December | |
|---|-----------------|-----------------|
| | 2023 | 2022 |
| Unfunded lending commitments | | |
| Principal risk | \$ 3,794 | \$ 3,410 |
| Sub-participated | 663 | 2,562 |
| Total unfunded lending commitments | 4,457 | 5,972 |
| Other commitments | | |
| Investment commitments | 22 | 24 |
| Forward starting resale agreements | 954 | 289 |
| Forward starting repurchase agreements | 224 | 231 |
| Other | 4 | 85 |
| Total other commitments | 1,204 | 629 |
| Total | \$ 5,661 | \$ 6,601 |

The bank originates a number of bank loans and mortgage-backed loans which are held as principal risk. The bank also holds bank loans and mortgage-backed loans which are sub-participated to GS Group affiliates and third party institutions. The unfunded portion of these agreements, where cash has not been deposited with the bank to collateralise the undrawn commitment is presented above.

The bank enters into repurchase and resale agreements that settle at a future date, generally within three business days. The bank's funding of these commitments depends on the satisfaction of all contractual conditions to the resale agreement and these commitments can expire unused.

Contingent Liabilities and Financial Guarantee Contracts

The bank, in its capacity as an agent in securities lending, indemnifies most of its securities lending customers against losses incurred in the event that borrowers do not return securities. The maximum exposure to loss under guarantees was \$3.69 billion as of December 2023 and \$3.05 billion as of December 2022. The market value of the collateral held to cover the loss was \$3.89 billion as of December 2023 and \$3.19 billion as of December 2022.

The bank has contingent liabilities in relation to financial guarantee contracts written of \$476 million as of December 2023 and \$33 million as of December 2022. This represents the maximum exposure in excess of the amount recorded in the balance sheet as financial guarantee contracts.

Note 25.

Maturity of Assets and Liabilities

The table below presents the expected maturity of the bank's assets and liabilities.

| \$ in millions | Non-current | Current | Total |
|--------------------------------|------------------|------------------|------------------|
| As of December 2023 | | | |
| Assets | | | |
| Cash and cash equivalents | \$ — | \$ 19,932 | \$ 19,932 |
| Collateralised agreements | 12,836 | 39,303 | 52,139 |
| Customer and other receivables | — | 916 | 916 |
| Trading assets | 53 | 5,161 | 5,214 |
| Loans | 3,705 | 4,370 | 8,075 |
| Investments | 3,105 | 63 | 3,168 |
| Other assets | 17 | 388 | 405 |
| Total assets | \$ 19,716 | \$ 70,133 | \$ 89,849 |
| Liabilities | | | |
| Collateralised financings | \$ — | \$ 41 | \$ 41 |
| Customer and other payables | — | 772 | 772 |
| Trading liabilities | 5 | 1,631 | 1,636 |
| Deposits | 1,319 | 79,742 | 81,061 |
| Unsecured borrowings | 1,870 | 258 | 2,128 |
| Other liabilities | — | 193 | 193 |
| Total liabilities | \$ 3,194 | \$ 82,637 | \$ 85,831 |
| As of December 2022 | | | |
| Assets | | | |
| Cash and cash equivalents | \$ — | \$ 18,455 | \$ 18,455 |
| Collateralised agreements | 11,024 | 26,465 | 37,489 |
| Customer and other receivables | — | 209 | 209 |
| Trading assets | 347 | 5,020 | 5,367 |
| Loans | 3,505 | 5,604 | 9,109 |
| Investments | 3,983 | 95 | 4,078 |
| Other assets | 1,867 | 406 | 2,273 |
| Total assets | \$ 20,726 | \$ 56,254 | \$ 76,980 |
| Liabilities | | | |
| Collateralised financings | \$ — | \$ 301 | \$ 301 |
| Customer and other payables | — | 764 | 764 |
| Trading liabilities | — | 1,604 | 1,604 |
| Deposits | 1,926 | 65,915 | 67,841 |
| Unsecured borrowings | 2,827 | — | 2,827 |
| Other liabilities | — | 169 | 169 |
| Total liabilities | \$ 4,753 | \$ 68,753 | \$ 73,506 |

In the table above:

- Current assets and liabilities include amounts that the bank expects to realise or settle in its normal operating cycle and includes assets and liabilities held for trading purposes and cash and cash equivalents.
- Non-current assets and liabilities are amounts that the bank expects to be recovered or settled after more than twelve months and includes the bank's deferred tax asset and assets and liabilities with contractual maturities greater than one year.

Notes to the Financial Statements**Note 26.****Related Party Disclosures**

Parties are considered to be related if one party has the ability to directly or indirectly control the other party or exercise significant influence over the party in making financial or operational decisions. The bank's related parties include:

- The bank's parent entities;
- Other GS Group affiliates; and
- Key management personnel of the bank.

Key management personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of the bank. Key management personnel include the directors of the bank and members of senior management who are designated as managers under the PRA and FCA's Senior Managers and Certification Regime.

Key Management Compensation

Key management personnel are employed by GS Group affiliates. Compensation is included in the management charges from GS Group affiliates (see Note 6).

Directors' Emoluments

In accordance with the Companies Act 2006, directors' emoluments represent the proportion of total emoluments paid or payable in respect of qualifying services only. This total only includes the value of cash and benefits in kind, and does not include the value of equity awards in accordance with the provisions of Schedule 5 of the Statutory Instruments 2008/410. Directors also receive emoluments for non-qualifying services which are not required to be disclosed.

The table below presents the bank's directors' emoluments.

| <i>\$ in millions</i> | Year Ended December | |
|---|---------------------|---------------|
| | 2023 | 2022 |
| Aggregate emoluments | \$ 2.7 | \$ 1.6 |
| Company pension contributions to money purchase schemes | — | — |
| Total | \$ 2.7 | \$ 1.6 |

The table below presents emoluments for the highest paid director.

| <i>\$ in millions</i> | Year Ended December | |
|---|---------------------|--------|
| | 2023 | 2022 |
| Aggregate emoluments | \$ 0.8 | \$ 0.5 |
| Company pension contributions to money purchase schemes | \$ — | \$ — |
| Accrued annual pension at end of the year | \$ — | \$ — |

Three directors were members of a defined contribution scheme for 2023 (2022: Four directors). Three directors including the highest paid director, have received or are due to receive Group Inc. shares in respect of long-term incentive schemes for 2023 (2022: Four directors). No directors have exercised stock options during 2023 (2022: No directors)

The aggregate emoluments of the seven non-executive directors for 2023 (2022: six non-executive directors) who were members of the Board for all or part of 2023 was approximately \$890,000 (for all or part of 2022: approximately \$940,000).

Transactions with Related Parties

The bank's transactions with related parties primarily include the following.

Risk Management and Market-Making Activity

The bank routinely enters into derivatives and buys and sells securities and loans with related parties for risk management and market-making purposes, which are recognised in trading assets and trading liabilities.

The table below presents the bank's outstanding derivatives with related parties.

| <i>\$ in millions</i> | As of December | |
|------------------------|----------------|----------|
| | 2023 | 2022 |
| Derivative assets | \$ 1,771 | \$ 1,884 |
| Derivative liabilities | \$ 1,180 | \$ 1,401 |

The table below presents the gross outstanding buys and sells of regular-way securities and loans from/to other GS Group affiliates.

| <i>\$ in millions</i> | As of December | |
|---|----------------|--------|
| | 2023 | 2022 |
| Outstanding regular-way buys of securities and loans | \$ 571 | \$ 278 |
| Outstanding regular-way sells of securities and loans | \$ 648 | \$ 363 |

The bank also holds securities in, and makes loans to other GS Group affiliates. The bank also exchanges cash and security collateral in connection with derivative transactions. Cash collateral received is recognised in customer and other payables. Cash collateral paid is recognised in customer and other receivables. The bank received security collateral from other GS Group affiliates of \$55.25 billion as of December 2023 and \$46.23 billion as of December 2022, primarily on collateralised agreements, and posted security collateral to related parties of \$16.73 billion as of December 2023 and \$17.07 billion as of December 2022.

Notes to the Financial Statements

Funding Activity

The bank routinely enters into collateralised agreements and collateralised financings with GS Group affiliates, primarily to deploy liquidity, source securities and fund inventory on a secured basis.

In addition, a significant portion of the bank's unsecured borrowings is from GS Group affiliates, see Note 20 for further details. The bank has received deposits, and has also made loans to, and holds investments in certain GS Group affiliates. See Notes 19, 13, 15 and 14, respectively, for further details.

Interest-bearing instruments are typically priced based on the term, currency, size, subordination and whether the instrument is secured or unsecured.

Commitments and Guarantees

The table below presents the bank's financial commitments with other GS Group affiliates.

| \$ in millions | As of December | |
|--|-----------------|-----------------|
| | 2023 | 2022 |
| Sub-participated loans | \$ 444 | \$ 1,356 |
| Forward starting resale agreements | 954 | 289 |
| Forward starting repurchase agreements | 224 | 231 |
| Other | — | 83 |
| Total | \$ 1,622 | \$ 1,959 |

Transfer Pricing and Management Charges

The bank participates in the allocation of net revenues among GS Group affiliates for their involvement in GS Group's business activities. In addition, the bank incurs management charges from GS Group affiliates relating to operational and administrative support and management services.

Share-Based Payments

The bank has entered into a chargeback agreement with Group Inc. under which it is committed to pay to Group Inc. (a) the grant-date fair value of those awards and (b) subsequent movements in the fair value of those awards between the grant date and ultimate delivery to employees (subsequent to the vesting date). See Note 7 and Note 8 for further information.

Related Party Assets and Liabilities

The table below presents the bank's assets and liabilities with related parties.

| \$ in millions | Parent entities | Other GS Group affiliates | Total |
|--------------------------------|-----------------|---------------------------|------------------|
| As of December 2023 | | | |
| Assets | | | |
| Cash and cash equivalents | \$ — | \$ — | \$ — |
| Collateralised agreements | — | 52,139 | 52,139 |
| Customer and other receivables | — | 846 | 846 |
| Trading assets | — | 1,783 | 1,783 |
| Loans | — | — | — |
| Investments | — | 169 | 169 |
| Other assets | 3 | 92 | 95 |
| Total assets | \$ 3 | \$ 55,029 | \$ 55,032 |
| Liabilities | | | |
| Collateralised financings | \$ — | \$ 41 | \$ 41 |
| Customer and other payables | — | 660 | 660 |
| Trading liabilities | — | 1,180 | 1,180 |
| Deposits | — | 5,617 | 5,617 |
| Unsecured borrowings | 965 | 932 | 1,897 |
| Other liabilities | 4 | 140 | 144 |
| Total liabilities | \$ 969 | \$ 8,570 | \$ 9,539 |
| As of December 2022 | | | |
| Assets | | | |
| Cash and cash equivalents | \$ — | \$ — | \$ — |
| Collateralised agreements | — | 37,489 | 37,489 |
| Customer and other receivables | — | 157 | 157 |
| Trading assets | — | 1,896 | 1,896 |
| Loans | — | — | — |
| Investments | — | 1,595 | 1,595 |
| Other assets | 550 | 1,375 | 1,925 |
| Total assets | \$ 550 | \$ 42,512 | \$ 43,062 |
| Liabilities | | | |
| Collateralised financings | \$ — | \$ 301 | \$ 301 |
| Customer and other payables | — | 685 | 685 |
| Trading liabilities | — | 1,401 | 1,401 |
| Deposits | — | 5,483 | 5,483 |
| Unsecured borrowings | 1,102 | 1,703 | 2,805 |
| Other liabilities | 3 | 111 | 114 |
| Total liabilities | \$ 1,105 | \$ 9,684 | \$ 10,789 |

Notes to the Financial Statements

Related Party Income and Expense

The table below presents income and expenses related to transactions with related parties other than Key Management Personnel.

| <i>\$ in millions</i> | Parent entities | Other GS Group affiliates | Total |
|---|-----------------|---------------------------|-----------------|
| Year Ended December 2023 | | | |
| Net revenues | | | |
| Interest income | \$ 11 | \$ 2,525 | \$ 2,536 |
| Interest expense | (98) | (710) | (808) |
| Transfer pricing revenues | 1 | 27 | 28 |
| Total net revenues | \$ (86) | \$ 1,842 | \$ 1,756 |
| Operating expenses | | | |
| Management charges from GS Group affiliates | \$ — | \$ 82 | \$ 82 |
| Transaction based expenses | — | 15 | 15 |
| Total operating expenses | \$ — | \$ 97 | \$ 97 |
| Year Ended December 2022 | | | |
| Net revenues | | | |
| Interest income | \$ 15 | \$ 930 | \$ 945 |
| Interest expense | (58) | (195) | (253) |
| Transfer pricing revenues | — | 55 | 55 |
| Total net revenues | \$ (43) | \$ 790 | \$ 747 |
| Operating expenses | | | |
| Management charges from GS Group affiliates | \$ — | \$ 96 | \$ 96 |
| Transaction based expenses | — | 31 | 31 |
| Total operating expenses | \$ — | \$ 127 | \$ 127 |

In the table above, transaction based expenses primarily include expenses for activity where the bank is principal to transactions for which it engages other GS Group affiliates to satisfy some or all of its performance obligations, resulting in a gross up in net revenues and expenses as required by IFRS 15.

Note 27.

Financial Instruments

Financial Assets and Liabilities by Category

The tables below present the bank's carrying value of financial assets and liabilities by category.

| <i>\$ in millions</i> | Financial Assets | | | Total |
|--------------------------------|---------------------------|------------------|------------------------|------------------|
| | Mandatorily at fair value | Amortised cost | Fair value through OCI | |
| As of December 2023 | | | | |
| Cash and cash equivalents | \$ — | \$ 19,932 | \$ — | \$ 19,932 |
| Collateralised agreements | 19,546 | 32,593 | — | 52,139 |
| Customer and other receivables | — | 916 | — | 916 |
| Trading assets | 5,214 | — | — | 5,214 |
| Loans | 510 | 7,565 | — | 8,075 |
| Investments | 308 | 461 | 2,399 | 3,168 |
| Other assets | — | 258 | — | 258 |
| Total | \$ 25,578 | \$ 61,725 | \$ 2,399 | \$ 89,702 |
| As of December 2022 | | | | |
| Cash and cash equivalents | \$ — | \$ 18,455 | \$ — | \$ 18,455 |
| Collateralised agreements | 21,954 | 15,535 | — | 37,489 |
| Customer and other receivables | — | 209 | — | 209 |
| Trading assets | 5,367 | — | — | 5,367 |
| Loans | 457 | 8,652 | — | 9,109 |
| Investments | 1,859 | 50 | 2,169 | 4,078 |
| Other assets | 551 | 1,530 | — | 2,081 |
| Total | \$ 30,188 | \$ 44,431 | \$ 2,169 | \$ 76,788 |

| <i>\$ in millions</i> | Financial Liabilities | | | Total |
|-----------------------------|-----------------------|--------------------------|------------------|------------------|
| | Held for trading | Designated at fair value | Amortised cost | |
| As of December 2023 | | | | |
| Collateralised financings | \$ — | \$ 16 | \$ 25 | \$ 41 |
| Customer and other payables | — | — | 772 | 772 |
| Trading liabilities | 1,636 | — | — | 1,636 |
| Deposits | — | 22,619 | 58,442 | 81,061 |
| Unsecured borrowings | — | 841 | 1,287 | 2,128 |
| Other liabilities | — | — | 177 | 177 |
| Total | \$ 1,636 | \$ 23,476 | \$ 60,703 | \$ 85,815 |
| As of December 2022 | | | | |
| Collateralised financings | \$ — | \$ 123 | \$ 178 | \$ 301 |
| Customer and other payables | — | — | 764 | 764 |
| Trading liabilities | 1,604 | — | — | 1,604 |
| Deposits | — | 10,539 | 57,302 | 67,841 |
| Unsecured borrowings | — | 1,500 | 1,327 | 2,827 |
| Other liabilities | — | — | 167 | 167 |
| Total | \$ 1,604 | \$ 12,162 | \$ 59,738 | \$ 73,504 |

Notes to the Financial Statements**Interest Rate Benchmarks Subject to Reform**

As of July 1, 2023, the publication of all London Interbank Offered Rate (LIBOR) settings as representative rates has ceased. The FCA has allowed the publication and use of synthetic rates for certain GBP LIBOR settings in legacy GBP LIBOR-based contracts through March 2024 and for 3 month USD LIBOR settings in legacy USD LIBOR-based contracts through September 2024.

The table below presents the bank's exposure to interest rate benchmarks subject to reform.

| <i>\$ in millions</i> | Non-derivative financial assets | Derivative notional amount |
|----------------------------|------------------------------------|-------------------------------|
| As of December 2023 | | |
| USD LIBOR | \$ 147 | \$ — |
| GBP LIBOR | 76 | — |
| Total | \$ 223 | \$ — |
| As of December 2022 | | |
| USD LIBOR | \$ 194 | \$ 992 |
| GBP LIBOR | 123 | — |
| Total | \$ 317 | \$ 992 |

In the table above:

- Non-derivative financial assets consists of loans.
- Derivative notionals excludes amounts for which fallbacks apply, or amounts for which all future cashflows have already been fixed, as the bank has no ongoing IBOR exposure related to these transactions.

Offsetting of Financial Assets and Liabilities

The tables below present the bank's financial assets and liabilities that are subject to enforceable netting agreements and offsetting. Amounts are only offset in the balance sheet, when the bank currently has a legally enforceable right to set-off the recognised amounts and an intention either to settle on a net basis, or to realise the asset and settle the liability simultaneously. In the tables below:

- Gross amounts exclude the effects of both counterparty netting and collateral, and therefore are not representative of the bank's economic exposure.
- Amounts not offset in the balance sheet include counterparty netting (i.e., the netting of financial assets and liabilities for a given counterparty when a legal right of set-off exists under an enforceable netting agreement), and cash and security collateral received and posted under enforceable credit support agreements, that do not meet the criteria for offsetting under IFRS.
- Where the bank has received or posted collateral under credit support agreements, but has not yet determined whether such agreements are enforceable, the related collateral has not been included in the amounts not offset in the balance sheet.
- Gross amounts included derivative assets of \$1.91 billion as of December 2023 and \$197 million as of December 2022, and derivative liabilities of \$184 million as of December 2023 and \$153 million as of December 2022, which are not subject to an enforceable netting agreement or are subject to a netting agreement that the bank has not yet determined to be enforceable.
- All resale agreements and securities borrowed within collateralised agreements and all collateralised financings are subject to enforceable netting agreements as of both December 2023 and December 2022.

Notes to the Financial Statements

Amounts not offset in the balance sheet

| <i>\$ in millions</i> | Gross amounts | Amounts offset in the balance sheet | Net amount presented in the balance sheet | Counterparty netting | Cash collateral | Security collateral | Net amount |
|---|-------------------|-------------------------------------|---|----------------------|-----------------|---------------------|------------------|
| As of December 2023 | | | | | | | |
| Financial assets | | | | | | | |
| Collateralised agreements | \$ 55,822 | \$ (13,608) | \$ 42,214 | \$ (41) | \$ — | \$ (40,919) | \$ 1,254 |
| Customer and other receivables | 46 | — | 46 | — | (32) | — | 14 |
| Derivatives | 3,829 | — | 3,829 | (1,132) | (403) | (33) | 2,261 |
| Trading assets | 3,829 | — | 3,829 | (1,132) | (403) | (33) | 2,261 |
| Loans | 4,310 | — | 4,310 | — | — | (4,064) | 246 |
| Investments | 316 | — | 316 | — | — | (316) | — |
| Financial assets subject to enforceable netting agreements | 64,323 | (13,608) | 50,715 | (1,173) | (435) | (45,332) | 3,775 |
| Financial assets not subject to enforceable netting agreements | 38,987 | — | 38,987 | — | — | — | 38,987 |
| Total financial assets | \$ 103,310 | \$ (13,608) | \$ 89,702 | \$ (1,173) | \$ (435) | \$ (45,332) | \$ 42,762 |
| Financial liabilities | | | | | | | |
| Collateralised financings | \$ 13,649 | \$ (13,608) | \$ 41 | \$ (41) | \$ — | \$ — | \$ — |
| Customer and other payables | 413 | — | 413 | — | (403) | — | 10 |
| Derivatives | 1,631 | — | 1,631 | (1,132) | (32) | (77) | 390 |
| Trading liabilities | 1,631 | — | 1,631 | (1,132) | (32) | (77) | 390 |
| Financial liabilities subject to enforceable netting agreements | 15,693 | (13,608) | 2,085 | (1,173) | (435) | (77) | 400 |
| Financial liabilities not subject to enforceable netting agreements | 83,730 | — | 83,730 | — | — | — | 83,730 |
| Total financial liabilities | \$ 99,423 | \$ (13,608) | \$ 85,815 | \$ (1,173) | \$ (435) | \$ (77) | \$ 84,130 |
| As of December 2022 | | | | | | | |
| Financial assets | | | | | | | |
| Collateralised agreements | \$ 44,749 | \$ (16,022) | \$ 28,727 | \$ (300) | \$ — | \$ (28,189) | \$ 238 |
| Customer and other receivables | 9 | — | 9 | — | (4) | — | 5 |
| Derivatives | 2,101 | — | 2,101 | (1,394) | (466) | (13) | 228 |
| Trading assets | 2,101 | — | 2,101 | (1,394) | (466) | (13) | 228 |
| Loans | 4,908 | — | 4,908 | — | — | (4,285) | 623 |
| Investments | 1,691 | — | 1,691 | — | — | (1,691) | — |
| Financial assets subject to enforceable netting agreements | 53,458 | (16,022) | 37,436 | (1,694) | (470) | (34,178) | 1,094 |
| Financial assets not subject to enforceable netting agreements | 39,352 | — | 39,352 | — | — | — | 39,352 |
| Total financial assets | \$ 92,810 | \$ (16,022) | \$ 76,788 | \$ (1,694) | \$ (470) | \$ (34,178) | \$ 40,446 |
| Financial liabilities | | | | | | | |
| Collateralised financings | \$ 16,322 | \$ (16,022) | \$ 300 | \$ (300) | \$ — | \$ — | \$ — |
| Customer and other payables | 643 | — | 643 | — | (466) | — | 177 |
| Derivatives | 1,556 | — | 1,556 | (1,394) | (4) | (26) | 132 |
| Trading liabilities | 1,556 | — | 1,556 | (1,394) | (4) | (26) | 132 |
| Financial liabilities subject to enforceable netting agreements | 18,521 | (16,022) | 2,499 | (1,694) | (470) | (26) | 309 |
| Financial liabilities not subject to enforceable netting agreements | 71,005 | — | 71,005 | — | — | — | 71,005 |
| Total financial liabilities | \$ 89,526 | \$ (16,022) | \$ 73,504 | \$ (1,694) | \$ (470) | \$ (26) | \$ 71,314 |

Notes to the Financial Statements

Collateral Received and Pledged

The bank receives cash and securities (e.g., government and agency obligations, corporate debt securities, equity securities) as collateral, primarily in connection with resale agreements, securities borrowed, derivative transactions and loans. The bank obtains cash and securities as collateral on an upfront or contingent basis for derivative instruments and collateralised agreements to reduce its credit exposure to individual counterparties.

In many cases, the bank is permitted to deliver or repledge financial instruments received as collateral in connection with collateralised derivative transactions and meeting bank settlement requirements.

The bank also pledges certain trading assets in connection with repurchase agreements to counterparties who may or may not have the right to deliver or repledge.

The table below presents the bank's financial instruments received as collateral that were available to be delivered or repledged; and that were delivered or repledged by the bank.

| <i>\$ in millions</i> | As of December | |
|---|----------------|-----------|
| | 2023 | 2022 |
| Collateral available to be delivered or repledged | \$ 55,249 | \$ 46,233 |
| Collateral that was delivered or repledged | \$ 16,733 | \$ 17,073 |

The bank has received cash collateral of \$420 million as of December 2023 and \$643 million as of December 2022, and posted cash collateral of \$36 million as of December 2023 and \$9 million as of December 2022. Amounts received and posted are equivalent to trading assets and trading liabilities.

Hedge Accounting

Net Investment Hedging. The bank seeks to reduce the impact of fluctuations in foreign exchange rates on its foreign operations through the use of foreign currency forward contracts. For foreign currency forward contracts designated as hedges, the effectiveness of the hedge is assessed based on the overall changes in the fair value of the forward contracts (i.e., based on changes in forward rates).

For qualifying net investment hedges, the gains or losses on the hedging instruments, to the extent effective, are included in the statement of comprehensive income.

The table below presents the bank's gains/(losses) from currency derivatives accounted for as hedges, and the related revaluation of the foreign operations included in the statement of comprehensive income.

| <i>\$ in millions</i> | As of December | |
|---------------------------|----------------|--------|
| | 2023 | 2022 |
| Currency hedges | \$ 2 | \$ 3 |
| Hedged foreign operations | \$ (4) | \$ (6) |

The table below presents the bank's fair value of asset and liability derivative instruments designated as hedges.

| <i>\$ in millions</i> | As of December 2023 | | As of December 2022 | |
|---|---------------------|------------------------|---------------------|------------------------|
| | Derivative assets | Derivative liabilities | Derivative assets | Derivative liabilities |
| Derivative instruments designated as hedges | \$ — | \$ — | \$ — | \$ (1) |

The table below presents the notional of the asset and liability derivative instruments designated as hedges.

| <i>\$ in millions</i> | As of December 2023 | | As of December 2022 | |
|---|---------------------|------------------------|---------------------|------------------------|
| | Derivative assets | Derivative liabilities | Derivative assets | Derivative liabilities |
| Derivative instruments designated as hedges | \$ 19 | \$ (65) | \$ — | \$ (66) |

Unconsolidated Structured Entities

The bank has interests in structured entities that it does not control (unconsolidated structured entities), which primarily includes senior and subordinated debt in residential and commercial mortgage-backed securitisation entities.

Structured entities generally finance the purchase of assets by issuing debt securities that are either collateralised by or indexed to the assets held by the structured entity. The debt securities issued by a structured entity may include tranches of varying levels of subordination. The bank's involvement with structured entities primarily includes securitisation of financial assets.

The table below presents a summary of the bank's unconsolidated structured entities in which the bank holds interests.

| <i>\$ in millions</i> | As of December | |
|--------------------------------------|----------------|----------|
| | 2023 | 2022 |
| Assets in structured entities | \$ 2,412 | \$ 1,464 |
| Carrying value of interests - assets | \$ 121 | \$ 330 |
| Maximum exposure to loss | \$ 121 | \$ 330 |

The carrying values of the bank's interests are included in the balance sheet in "Investments".

Notes to the Financial Statements

Note 28.

Fair Value Measurement

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

IFRS has a three-level hierarchy for disclosure of fair value measurements. This hierarchy prioritises inputs to the valuation techniques used to measure fair value, giving the highest priority to level 1 inputs and the lowest priority to level 3 inputs. A financial instrument's level in this hierarchy is based on the lowest level of input that is significant to its fair value measurement.

The fair value hierarchy is as follows:

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

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

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

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

Valuation Techniques and Significant Inputs

Trading Cash Instruments, Loans and Investments.

Valuation techniques and significant inputs for each level of the fair value hierarchy include:

Level 1

Level 1 instruments are valued using quoted prices for identical unrestricted instruments in active markets. The bank defines active markets for equity instruments based on the average daily trading volume both in absolute terms and relative to the market capitalisation for the instrument. The bank defines active markets for debt instruments based on both the average daily trading volume and the number of days with trading activity.

Level 2

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

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

Level 3

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

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

Notes to the Financial Statements

• **Mortgages and Other Asset-Backed Loans and Securities.** Significant inputs are generally determined based on relative value analyses and include:

- Market yields implied by transactions of similar or related assets;
- Transaction prices in both the underlying collateral and instruments with the same or similar underlying collateral;
- Current performance of the borrower or loan collateral and recovery assumptions if a default occurs; and
- Timing of expected future cash flows (duration) which, in certain cases, may incorporate the impact of other unobservable inputs (e.g., prepayment speeds).

• **Corporate Debt Instruments, Government and Agency Obligations and Loans.** Significant inputs are generally determined based on relative value analyses, which incorporate comparisons both to prices of credit default swaps that reference the same or similar underlying instrument or entity and to other debt instruments for the same or similar issuer for which observable prices or broker quotations are available. Significant inputs include:

- Market yields implied by transactions of similar or related assets;
- Current levels and changes in market indices, such as the iTraxx and CDX (indices that track the performance of corporate credit);
- Current performance of the borrower or loan collateral and recovery assumptions if a default occurs;
- Maturity and coupon profile of the instrument; and
- Market and transaction multiples for corporate debt instruments with convertibility or participation options.

Derivatives. Derivatives may be traded on an exchange (exchange-traded) or they may be privately negotiated contracts, which are usually referred to as OTC derivatives. Certain of the bank's OTC derivatives are cleared and settled through central clearing counterparties (OTC-cleared), while others are bilateral contracts between two counterparties (bilateral OTC).

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

• **Interest Rate.** In general, the key inputs used to value interest rate derivatives are transparent, even for most long-dated contracts. Interest rate swaps and options denominated in the currencies of leading industrialised nations are characterised by high trading volumes and tight bid/offer spreads. Interest rate derivatives that reference indices, such as an inflation index, or the shape of the yield curve (e.g., 10-year swap rate vs. 2-year swap rate) are more complex, but the key inputs are generally observable.

• **Credit.** Price transparency for credit default swaps, including both single names and baskets of credits, varies by market and underlying reference entity or obligation. Credit default swaps that reference indices, large corporates and major sovereigns generally exhibit the most price transparency. For credit default swaps with other underliers, price transparency varies based on credit rating, the cost of borrowing the underlying reference obligations, and the availability of the underlying reference obligations for delivery upon the default of the issuer. Credit default swaps that reference loans, asset-backed securities and emerging market debt instruments tend to have less price transparency than those that reference corporate bonds. In addition, more complex credit derivatives, such as those sensitive to the correlation between two or more underlying reference obligations or to secured funding spreads, generally have less price transparency.

• **Currency.** Prices for currency derivatives based on the exchange rates of leading industrialised nations, including those with longer tenors, are generally transparent. The primary difference between the price transparency of developed and emerging market currency derivatives is that emerging markets tend to be only observable for contracts with shorter tenors.

• **Equity.** Price transparency for equity derivatives varies by market and underlier. Options on indices and the common stock of corporates included in major equity indices exhibit the most price transparency. Equity derivatives generally have observable market prices, except for contracts with long tenors or reference prices that differ significantly from current market prices. More complex equity derivatives, such as those sensitive to the correlation between two or more individual stocks, generally have less price transparency.

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

Notes to the Financial Statements

Level 1

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

Level 2

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

In evaluating the significance of a valuation input, the bank considers, among other factors, a portfolio's net risk exposure to that input.

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

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

Level 3

Level 3 derivatives are valued using models which utilise observable level 1 and/or level 2 inputs, as well as unobservable level 3 inputs. Unobservable inputs include certain correlations, illiquid credit and secured funding spreads, recovery rates and certain equity and interest rate volatilities.

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

Where there is a difference between the initial transaction price and the fair value calculated by internal models, a gain or loss is recognised after initial recognition only to the extent that it arises from a change in a factor (including time) that market participants would consider in setting a price.

Valuation Adjustments

Valuation adjustments are integral to determining the fair value of derivative portfolios and are used to adjust the mid-market valuations produced by derivative pricing models to the exit price valuation. These adjustments incorporate bid/offer spreads, the cost of liquidity, CVA and funding valuation adjustments, which account for the credit and funding risk inherent in the uncollateralised portion of derivative portfolios.

The bank also makes funding valuation adjustments to collateralised derivatives where the terms of the agreement do not permit the bank to deliver or repledge collateral received. Market-based inputs are generally used when calibrating valuation adjustments to market-clearing levels.

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

Notes to the Financial Statements

Other Financial Assets and Liabilities. Valuation techniques and significant inputs of other financial assets and liabilities include:

- **Resale and Repurchase Agreements and Securities Borrowed and Loaned.** The significant inputs to the valuation of resale and repurchase agreements and securities borrowed and loaned are funding spreads, the amount and timing of expected future cash flows and interest rates.
- **Other Secured Financings.** The significant inputs to the valuation of secured intercompany loans and other borrowings measured at fair value are the amount and timing of expected future cash flows, interest rates, funding spreads, the fair value of the collateral delivered by the bank (which is determined using the amount and timing of expected future cash flows, market prices, market yields and recovery assumptions) and the frequency of additional collateral calls.
- **Deposits.** The significant inputs to the valuation of deposits measured at fair value are interest rates and the amount and timing of future cash flows.
- **Unsecured Borrowings.** The significant inputs to the valuation of unsecured borrowings measured at fair value are the amount and timing of expected future cash flows, interest rates and the credit spreads of GS Group. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the bank's other derivative instruments.

Fair Value of Financial Assets and Liabilities by Level

The table below presents, by level within the fair value hierarchy, the bank's financial assets and liabilities measured at fair value on a recurring basis.

| <i>\$ in millions</i> | Level 1 | Level 2 | Level 3 | Total |
|------------------------------------|-----------------|------------------|---------------|------------------|
| As of December 2023 | | | | |
| Financial assets | | | | |
| Collateralised agreements | \$ — | \$ 19,546 | \$ — | \$ 19,546 |
| Trading cash instruments | — | 1,381 | 4 | 1,385 |
| Derivatives | — | 3,752 | 77 | 3,829 |
| Trading assets | — | 5,133 | 81 | 5,214 |
| Loans | — | 503 | 7 | 510 |
| Investments | 2,399 | 267 | 41 | 2,707 |
| Other assets | — | — | — | — |
| Total financial assets | \$ 2,399 | \$ 25,449 | \$ 129 | \$ 27,977 |
| Financial liabilities | | | | |
| Collateralised financings | \$ — | \$ 16 | \$ — | \$ 16 |
| Trading cash instruments | 4 | — | — | 4 |
| Derivatives | — | 1,600 | 32 | 1,632 |
| Trading liabilities | 4 | 1,600 | 32 | 1,636 |
| Deposits | — | 22,454 | 165 | 22,619 |
| Unsecured borrowings | — | 621 | 220 | 841 |
| Total financial liabilities | \$ 4 | \$ 24,691 | \$ 417 | \$ 25,112 |
| Net derivatives | \$ — | \$ 2,152 | \$ 45 | \$ 2,197 |

| <i>\$ in millions</i> | Level 1 | Level 2 | Level 3 | Total |
|------------------------------------|-----------------|------------------|---------------|------------------|
| As of December 2022 | | | | |
| Financial assets | | | | |
| Collateralised agreements | \$ — | \$ 21,954 | \$ — | \$ 21,954 |
| Trading cash instruments | — | 3,258 | 9 | 3,267 |
| Derivatives | — | 2,072 | 28 | 2,100 |
| Trading assets | — | 5,330 | 37 | 5,367 |
| Loans | — | 226 | 231 | 457 |
| Investments | 2,300 | 1,691 | 37 | 4,028 |
| Other assets | — | 551 | — | 551 |
| Total financial assets | \$ 2,300 | \$ 29,752 | \$ 305 | \$ 32,357 |
| Financial liabilities | | | | |
| Collateralised financings | \$ — | \$ 123 | \$ — | \$ 123 |
| Trading cash instruments | — | 48 | — | 48 |
| Derivatives | — | 1,540 | 16 | 1,556 |
| Trading liabilities | — | 1,588 | 16 | 1,604 |
| Deposits | — | 10,539 | — | 10,539 |
| Unsecured borrowings | — | 1,500 | — | 1,500 |
| Total financial liabilities | \$ — | \$ 13,750 | \$ 16 | \$ 13,766 |
| Net derivatives | \$ — | \$ 532 | \$ 12 | \$ 544 |

Notes to the Financial Statements

Significant Unobservable Inputs Used in Level 3 Fair Value Measurements

Trading Cash Instrument Assets, Loans and Investments. The table below presents level 3 trading cash instrument assets, loans and investments and ranges and weighted averages of significant unobservable inputs used to value level 3 trading cash instrument assets, loans and investments.

| \$ in millions, except inputs | Year Ended December 2023 | | Year Ended December 2022 | |
|---|--------------------------|------------------|--------------------------|------------------|
| | Amount or Range | Weighted Average | Amount or Range | Weighted Average |
| Trading cash instrument assets, loans and investments | | | | |
| Bank loans, mortgage-backed loans and debt instruments | | | | |
| Level 3 assets | \$ 52 | | \$ 277 | |
| Yield | 7.9% to 15.0% | 9.0% | 3.9% to 16.5% | 6.8% |
| Recovery rate | N/A | N/A | 45.0% to 45.0% | 45.0% |
| Duration (years) | 0.5 to 3.9 | 1.1 | 0.6 to 8.6 | 3.2 |

In the table above:

- Ranges represent the significant unobservable inputs that were used in the valuation of each type of instrument.
- Weighted averages are calculated by weighting each input by the relative fair value of the instrument.
- The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one instrument. For example, the highest yield for mortgage-backed loans is appropriate for valuing a specific mortgage but may not be appropriate for valuing any other mortgages. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of level 3 instruments.
- Increases in yield or duration used in the valuation of level 3 instruments would have resulted in a lower fair value measurement, while increases in recovery rate or multiples would have resulted in a higher fair value measurement as of both December 2023 and December 2022. Due to the distinctive nature of each level 3 instrument, the interrelationship of inputs is not necessarily uniform within each product type.
- Instruments are valued using discounted cash flows.

Derivatives, Deposits and Unsecured Borrowings.

The table below presents net level 3 derivatives, deposits and unsecured borrowings and ranges, averages and medians of significant unobservable inputs used to value level 3 derivatives, deposits and unsecured borrowings.

In addition to amounts presented in the table below, the bank has net level 3 interest rate derivative liabilities of \$3 million as of December 2023 and net level 3 interest rate derivative assets of \$5 million as of December 2022.

| \$ in millions, except inputs | Year Ended December 2023 | | Year Ended December 2022 | |
|-------------------------------|--------------------------|----------------|--------------------------|----------------|
| | Amount or Range | Average/Median | Amount or Range | Average/Median |
| Derivatives | | | | |
| Credit, net | \$ 28 | | \$ (12) | |
| Credit spreads (bps) | 82% to 140% | 121%/128% | N/A | N/A |
| Credit Recovery | 40% to 70% | 50%/45% | N/A | N/A |
| Equities, net | \$ 20 | | \$ 19 | |
| Correlation | N/A | N/A | 65% to 90% | 78%/78% |
| Volatility | 10% to 15% | 13%/14% | 17% to 19% | 18%/18% |
| Deposits | | | | |
| Level 3 liabilities | \$ 165 | | \$ — | |
| Volatility | 12% to 15% | 14%/14% | N/A | N/A |
| Unsecured borrowings | | | | |
| Level 3 liabilities | \$ 220 | | \$ — | |
| Credit spreads (bps) | 300% | 300% | N/A | N/A |

Transfers Between Level 1 and Level 2 of the Fair Value Hierarchy

During both the years ended December 2023 and December 2022, there were no significant transfers between level 1 and level 2 financial assets and liabilities measured at fair value on a recurring basis.

Level 3 Rollforward

The table below presents a summary of the changes in fair value for all level 3 financial assets and liabilities measured at fair value on a recurring basis.

| \$ in millions | Year Ended December | |
|------------------------------|---------------------|----------------|
| | 2023 | 2022 |
| Financial assets | | |
| Beginning balance | \$ 305 | \$ 291 |
| Gains/(losses) | 37 | (18) |
| Purchases | 27 | 24 |
| Sales | (11) | (114) |
| Settlements | (244) | (95) |
| Transfers into level 3 | 15 | 243 |
| Transfers out of level 3 | — | (26) |
| Ending balance | \$ 129 | \$ 305 |
| Financial liabilities | | |
| Beginning balance | \$ (16) | \$ (78) |
| Losses | (35) | (3) |
| Sales | (215) | (16) |
| Settlements | 5 | 81 |
| Transfers into level 3 | \$ (156) | \$ — |
| Ending balance | \$ (417) | \$ (16) |

Notes to the Financial Statements

In the table above:

- If a financial asset or financial liability was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3. For level 3 financial assets, increases are shown as positive amounts, while decreases are shown as negative amounts. For level 3 financial liabilities, increases are shown as negative amounts, while decreases are shown as positive amounts.
- Transfers between levels of the fair value hierarchy are recognised at the beginning of the reporting period in which they occur. Accordingly, the tables do not include gains or losses for level 3 financial assets and liabilities that were transferred out of level 3 prior to the end of the period.
- Level 3 financial assets and liabilities are frequently economically hedged with level 1 and level 2 financial assets and liabilities. Accordingly, level 3 gains or losses that are reported for a particular class of financial asset or financial liability can be partially offset by gains or losses attributable to level 1 or level 2 in the same class of financial asset or financial liability or gains or losses attributable to level 1, level 2 or level 3 in a different class of financial asset or financial liability. As a result, gains or losses included in the level 3 rollforward do not necessarily represent the overall impact on the bank's results of operations, liquidity or capital resources.
- Gains or losses on level 3 financial assets for the years ended December 2023 and December 2022 are reported in "Gains or losses from financial instruments at fair value through profit or loss" in the income statement.

Transfers Between Level 2 and Level 3 of the Fair Value Hierarchy

Transfers between level 2 and level 3 generally occur due to changes in the transparency of level 3 inputs. A lack of market evidence leads to reduced transparency, whereas an increase in the availability of market evidence leads to an increase in transparency.

Financial Assets

Year Ended December 2023

Transfers into level 3 primarily reflected transfers of certain equity derivatives from level 2, principally due to reduced priced transparency, and transfers of certain credit derivatives due to reduced transparency of certain credit spread inputs of certain volatility and correlation inputs.

Year Ended December 2022

Transfers into and out of level 3 primarily reflected transfers of certain loans to or from level 2, principally due to changes in transparency of certain yield products.

Financial Liabilities

Year Ended December 2023

Transfers into level 3 primarily reflected transfers of certain deposits from level 2, principally due to reduced transparency of certain volatility inputs.

Fair Value Financial Assets and Liabilities Valued Using Techniques That Incorporate Unobservable Inputs

The fair value of financial assets and liabilities may be determined in whole or part using a valuation technique based on assumptions that are not supported by prices from observable current market transactions in the same instrument or based on available observable market data and changing these assumptions will change the resultant estimate of fair value. The potential impact of using reasonable possible alternative assumptions for the valuations, including significant unobservable inputs, has been quantified as \$16 million as of December 2023 and \$27 million as of December 2022, for favourable changes, and \$3 million as of December 2023 and \$6 million as of December 2022, for unfavourable changes.

In determining reasonably possible alternative assumptions, a detailed business and position level review has been performed to identify and quantify instances where potential uncertainty exists. This has taken into account the positions' fair value as compared to the range of available market information.

Notes to the Financial Statements**Fair Value of Financial Assets and Liabilities Not Measured at Fair Value**

The table below presents the bank's financial assets and liabilities that are not measured at fair value by expected maturity.

| <i>\$ in millions</i> | As of December | |
|------------------------------------|------------------|------------------|
| | 2023 | 2022 |
| Financial assets | | |
| Current | \$ 48,794 | \$ 32,567 |
| Non-current | 12,931 | 11,864 |
| Total financial assets | \$ 61,725 | \$ 44,431 |
| Financial liabilities | | |
| Current | \$ 58,977 | \$ 58,002 |
| Non-current | 1,726 | 1,736 |
| Total financial liabilities | \$ 60,703 | \$ 59,738 |

In the table above:

- Current financial assets and liabilities are short-term in nature and therefore their carrying values in the balance sheet are a reasonable approximation of fair value.
- Non-current financial assets primarily include collateralised agreements and loans. The fair value of these was higher than the carrying value by approximately \$3 million as of December 2023 and lower by \$2 million as of December 2022. The fair values have been determined based on level 2 of the fair value hierarchy, with the exception of \$2.82 billion as of December 2023 and \$2.49 billion as of December 2022, which have been determined based on level 3 of the fair value hierarchy.
- Non-current financial liabilities are primarily related to intercompany loans and subordinated loans. The interest rates of these are variable in nature and approximate prevailing market interest rates for instruments with similar terms and characteristics. As such, their carrying values in the balance sheet are a reasonable approximation of fair value.

Note 29.**Financial Risk Management and Capital Management****Capital Management and Regulatory Capital****Overview**

The bank determines the appropriate amount and composition of its equity capital by considering multiple factors including the bank's current and future regulatory capital requirements, the results of the bank's capital planning and stress testing process, the results of resolution capital models and other factors, such as rating agency guidelines, the business environment and conditions in the financial markets.

The table below presents information about the bank's risk-based capital.

| <i>\$ in millions</i> | As of December | |
|--|-----------------|-----------------|
| | 2023 | 2022 |
| Share capital | \$ 63 | \$ 63 |
| Share premium account | 2,094 | 2,094 |
| Retained earnings | 2,144 | 1,638 |
| Accumulated other comprehensive income | (283) | (321) |
| Deductions | (84) | (64) |
| CET1 and Tier 1 capital | \$ 3,934 | \$ 3,410 |
| Subordinated loans | \$ 826 | \$ 826 |
| Tier 2 capital | \$ 826 | \$ 826 |
| Total capital | \$ 4,760 | \$ 4,236 |

During both the years ended December 2023 and December 2022, the bank was in compliance with the capital requirements set by the PRA.

Notes to the Financial Statements

Liquidity Risk Management

Overview

Liquidity risk is the risk that the bank will be unable to fund itself or meet its liquidity needs in the event of bank-specific, broader industry or market liquidity stress events. The bank has in place a comprehensive and conservative set of liquidity and funding policies. The bank's principal objective is to be able to fund itself and to enable its core businesses to continue to serve clients and generate revenues, even under adverse circumstances.

Treasury, which reports to GS Group's chief financial officer, has primary responsibility for developing, managing and executing GS Group's liquidity and funding strategy within its risk appetite.

Liquidity Risk, which is independent of the revenue-producing units and Treasury, and reports to GS Group's chief risk officer, has primary responsibility for identifying, monitoring and managing GS Group's liquidity risk through oversight across GS Group's global businesses and the establishment of stress testing and limits frameworks. The bank's framework for managing liquidity risk is consistent with, and part of, the GS Group framework.

Liquidity Risk Management Principles

The bank manages 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.

GCLA. GCLA is liquidity that the bank maintains to meet a broad range of potential cash outflows and collateral needs in a stressed environment. A primary liquidity principle is to pre-fund its estimated potential cash and collateral needs during a liquidity crisis and hold this liquidity in the form of unencumbered, highly liquid securities and cash.

The bank believes that the securities held in its GCLA would be readily convertible to cash in a matter of days, through liquidation, by entering into repurchase agreements or from maturities of resale agreements, and that this cash would allow it to meet immediate obligations without needing to sell other assets or depend on additional funding from credit-sensitive markets.

The banks's GCLA is distributed across asset types, issuers and clearing agents with the goal of providing sufficient operating liquidity to ensure timely settlement in all major markets, even in a difficult funding environment.

Asset-Liability Management. The bank's liquidity risk management policies are designed to ensure the bank has a sufficient amount of financing, even when funding markets experience persistent stress. The bank manages maturities and diversity of funding across markets, products and counterparties, and seeks to maintain a diversified external funding profile with an appropriate tenor, taking into consideration the characteristics and liquidity profile of its assets.

The bank's goal is to ensure it maintains sufficient liquidity to fund its assets and meet its contractual and contingent obligations in normal times, as well as during periods of market stress. Through the dynamic balance sheet management process, actual and projected asset balances are used to determine secured and unsecured funding requirements. In a liquidity crisis, the bank would begin by liquidating and monetising its GCLA before selling other assets. However, the bank recognises that orderly asset sales may be prudent or necessary in a severe or persistent liquidity crisis.

Contingency Funding Plan. GS Group maintains a contingency funding plan, which has a Goldman Sachs International Bank-specific addendum, to provide a framework for analysing and responding to a liquidity crisis situation or periods of market stress. The contingency funding plan outlines a list of potential risk factors, key reports and metrics that are reviewed on an ongoing basis to assist in assessing the severity of, and managing through, a liquidity crisis and/or market dislocation. The contingency funding plan also describes the bank's potential responses if assessments indicate that the bank has entered a liquidity crisis, which include pre-funding for what the bank estimates will be its potential cash and collateral needs, as well as utilising secondary sources of liquidity. Mitigants and action items to address specific risks which may arise are also described and assigned to individuals responsible for execution.

Notes to the Financial Statements

Maturity of Financial Assets, Financial Liabilities and Commitments

The table below presents an analysis of the cash flows of the bank's financial assets, financial liabilities and commitments by contractual maturity except for trading assets and liabilities held for trading which are classified as trading/on demand.

In the table below:

- Cash flows by contractual maturity include interest that will accrue on loans, deposits and unsecured borrowings measured at amortised cost. All other financial assets and financial liabilities, which primarily relate to collateralised agreements, have been disclosed at their carrying values, consistent with the values used in the liquidity risk management of these instruments.

- Financial assets and financial liabilities, with the exception of those that are held for trading or designated at fair value through profit or loss, are disclosed at their undiscounted cash flows. The fair values of such financial assets and financial liabilities have been disclosed as this is consistent with the values used in the liquidity risk management of these instruments.
- Cash collateral received and paid has been classified as trading/on demand, consistent with the derivatives that it primarily relates to.
- Liquidity risk on derivatives is mitigated through master netting agreements and cash collateral arrangements.
- Unsecured borrowings include certain debt securities issued that have trigger events that are not in the control of the bank and could be repaid earlier than their contractual maturities.

| <i>\$ in millions</i> | Trading/on demand | Less than one month | Between one and three months | Between three months and one year | Between one and five years | Over five years | Total |
|--------------------------------|-------------------|---------------------|------------------------------|-----------------------------------|----------------------------|-----------------|------------------|
| As of December 2023 | | | | | | | |
| Financial assets | | | | | | | |
| Cash and cash equivalents | \$ — | \$ 19,932 | \$ — | \$ — | \$ — | \$ — | 19,932 |
| Collateralised agreements | — | 10,634 | 10,197 | 18,385 | 12,923 | — | 52,139 |
| Customer and other receivables | — | 916 | — | — | — | — | 916 |
| Trading assets | 3,830 | — | 893 | 438 | 31 | 22 | 5,214 |
| Loans | 3,319 | 102 | 121 | 1,094 | 3,808 | 277 | 8,721 |
| Investments | — | 2 | 27 | 21 | 1,628 | 1,490 | 3,168 |
| Other assets | — | 251 | — | — | 7 | — | 258 |
| Total | \$ 7,149 | \$ 31,837 | \$ 11,238 | \$ 19,938 | \$ 18,397 | \$ 1,789 | \$ 90,348 |
| Financial liabilities | | | | | | | |
| Collateralised financings | \$ — | \$ 41 | \$ — | \$ — | \$ — | \$ — | 41 |
| Customer and other payables | — | 772 | — | — | — | — | 772 |
| Trading liabilities | 1,631 | — | — | — | — | 5 | 1,636 |
| Deposits | 47,023 | 6,941 | 14,419 | 11,382 | 1,134 | 217 | 81,116 |
| Unsecured borrowings | — | 38 | — | 238 | 936 | 1,399 | 2,611 |
| Other liabilities | — | 177 | — | — | — | — | 177 |
| Total | 48,654 | 7,969 | 14,419 | 11,620 | 2,070 | 1,621 | 86,353 |
| Commitments | — | 5,661 | — | — | — | — | 5,661 |
| Total | \$ 48,654 | \$ 13,630 | \$ 14,419 | \$ 11,620 | \$ 2,070 | \$ 1,621 | \$ 92,014 |
| As of December 2022 | | | | | | | |
| Financial assets | | | | | | | |
| Cash and cash equivalents | \$ — | \$ 18,455 | \$ — | \$ — | \$ — | \$ — | 18,455 |
| Collateralised agreements | — | 5,957 | 10,171 | 10,313 | 11,048 | — | 37,489 |
| Customer and other receivables | — | 209 | — | — | — | — | 209 |
| Trading assets | 2,101 | — | 1,993 | 958 | 53 | 262 | 5,367 |
| Loans | 4,613 | 65 | 232 | 786 | 3,674 | 342 | 9,712 |
| Investments | 2 | — | 3 | 90 | 1,547 | 2,436 | 4,078 |
| Other assets | — | 752 | — | — | 729 | 600 | 2,081 |
| Total | \$ 6,716 | \$ 25,438 | \$ 12,399 | \$ 12,147 | \$ 17,051 | \$ 3,640 | \$ 77,391 |
| Financial liabilities | | | | | | | |
| Collateralised financings | \$ — | \$ 301 | \$ — | \$ — | \$ — | \$ — | 301 |
| Customer and other payables | — | 764 | — | — | — | — | 764 |
| Trading liabilities | 1,604 | — | — | — | — | — | 1,604 |
| Deposits | 43,062 | 7,815 | 7,176 | 7,946 | 1,604 | 349 | 67,952 |
| Unsecured borrowings | — | — | 7 | 29 | 2,116 | 896 | 3,048 |
| Other liabilities | — | 167 | — | — | — | — | 167 |
| Total | 44,666 | 9,047 | 7,183 | 7,975 | 3,720 | 1,245 | 73,836 |
| Commitments | — | 6,601 | — | — | — | — | 6,601 |
| Total | \$ 44,666 | \$ 15,648 | \$ 7,183 | \$ 7,975 | \$ 3,720 | \$ 1,245 | \$ 80,437 |

Notes to the Financial Statements

Market Risk Management

Overview

Market risk is the risk of loss in the value of the bank's instruments accounted for at fair value due to changes in market conditions. The bank employs a variety of risk measures to monitor market risk. Categories of market risk include the following:

- Interest rate risk: results from exposures to changes in the level, slope and curvature of yield curves, the volatilities of interest rates, prepayment speeds and credit spreads;
- Equity price risk: results from exposures to changes in prices and volatilities of individual equities, baskets of equities and equity indices;
- Currency rate risk: results from exposures to changes in spot prices, forward prices and volatilities of currency rates; and
- Commodity price risk: results from exposures to changes in spot prices, forward prices and volatilities of commodities, such as crude oil and metals.

Market Risk, which is independent of the revenue-producing units and reports to GS Group's chief risk officer, has primary responsibility for assessing, monitoring and managing GS Group's market risk through oversight across GS Group's 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, both at the GS Group and bank level.

Market Risk Management Process

The bank's process for managing market risk includes:

- Monitoring compliance with established market risk limits and reporting the bank's exposure;
- Diversifying exposures;
- Controlling position sizes; and
- Evaluating mitigants, such as economic hedges in related securities or derivatives.

The bank's framework for managing market risk is consistent with, and part of, the GS Group framework, and results are analysed by business and in aggregate, at both the GS Group and bank level.

Risk Measures

The bank 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 the product, business and bank-wide level.

A variety of risk measures are used to estimate the size of potential losses for both moderate and more extreme market moves over both short and long-term time horizons. Primary risk measures are VaR, which is used for shorter-term periods, and stress tests. The bank's risk report details key risks, drivers and changes for each business, and is distributed daily to senior management of both the revenue-producing units and independent risk oversight and control functions.

VaR. VaR is the potential loss in value due to adverse market movements over a defined time horizon with a specified confidence level. A one-day time horizon with a 95% confidence level is typically employed. The VaR model is a single 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 across the bank.

Metrics

The table below presents the bank's average daily VaR and year-end VaR, as well as the high and low VaR for the year.

| <i>\$ in millions</i> | As of or for the Year Ended December | |
|-----------------------|--------------------------------------|------|
| | 2023 | 2022 |
| Average daily VaR | \$4 | \$5 |
| Year-end VaR | \$3 | \$4 |
| High VaR | \$7 | \$8 |
| Low VaR | \$2 | \$4 |

Notes to the Financial Statements

Sensitivity Measures

The bank's sensitivity to other market risk measures is described below.

10% Sensitivity Measures. The market risk for positions, accounted for at fair value, that are not included in VaR is determined by estimating the potential reduction in net revenues of a 10% decline in the value of these positions. The market risk of these positions was \$3 million for December 2023 and \$2 million for December 2022.

Credit and Funding Spread Sensitivity on Financial Liabilities. VaR excludes the impact of changes in the bank's own credit spreads (debt valuation adjustment) on financial liabilities designated at fair value. The estimated sensitivity to a one basis point increase in the bank's own credit spreads on financial liabilities designated at fair value was a gain of \$1 million as of both December 2023 and December 2022. However, the actual net impact of a change in the bank's own credit spreads is also affected by the liquidity, duration and convexity (as the sensitivity is not linear to changes in yields) of those financial liabilities designated at fair value, as well as the relative performance of any hedges undertaken.

Non-Trading Currency Exposure Sensitivity. VaR excludes non-trading currency exposure. The bank monitors its non-trading currency exposure on a daily basis and frequently hedges this exposure. As such there was no significant net exposure to any individual currency as of both December 2023 and December 2022.

Credit Risk Management

Overview

Credit risk represents the potential for loss due to the default or deterioration in credit quality of a counterparty (e.g., an OTC derivatives counterparty or a borrower) or an issuer of securities or other instruments the bank holds. The bank's exposure to credit risk comes mostly from lending activities and client transactions in OTC derivatives. 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. In addition, the bank holds other positions that give rise to credit risk (e.g., bonds) – these credit risks are captured as a component of market risk measures, which are monitored and managed by Market Risk.

Credit Risk, which is independent of the revenue-producing units and reports to GS Group's chief risk officer, has primary responsibility for assessing, monitoring and managing GS Group's credit risk through oversight across GS Group's global businesses. The bank's framework for managing credit risk is consistent with the framework of GS Group, established by GS Group's Risk Governance Committee.

Credit Risk Management Process

The process for managing credit risk includes:

- Monitoring compliance with established credit risk limits and reporting the bank's exposure and credit concentrations;
- Assessing the likelihood that a counterparty will default on its payment obligations;
- Measuring the bank's current and potential credit exposure and losses resulting from a counterparty default;
- Using credit risk mitigants, including collateral and hedging; and
- Maximising recovery through active workout and restructuring of claims.

Notes to the Financial Statements

As part of the risk assessment process, Credit Risk performs credit reviews, which include initial and ongoing analyses of the bank's counterparties. 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 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 aggregate credit risk by product, internal credit rating, industry, country and region.

Maximum Exposure to Credit Risk – Financial Assets Subject to Impairment

The table below presents an analysis of the bank's credit risk exposure for loans for which an allowance for impairment is recognised. The gross carrying value of financial assets below also represents the bank's maximum exposure to credit risk on these financial assets. Investment grade exposures include counterparties with internally determined credit ratings between AAA and BBB-. Non-investment grade exposures include counterparties with internally determined credit ratings of BB+ or lower.

| <i>\$ in millions</i> | Stage 1 | Stage 2 | Stage 3 | Total |
|---------------------------------|-----------------|---------------|---------------|-----------------|
| As of December 2023 | | | | |
| Credit rating equivalent | | | | |
| Investment grade | \$ 4,186 | \$ — | \$ — | \$ 4,186 |
| Non-investment grade | 2,481 | 837 | 169 | 3,487 |
| Gross carrying value | 6,667 | 837 | 169 | 7,673 |
| Allowance for impairment | (18) | (27) | (63) | (108) |
| Carrying value | \$ 6,649 | \$ 810 | \$ 106 | \$ 7,565 |
| As of December 2022 | | | | |
| Credit rating equivalent | | | | |
| Investment grade | \$ 5,251 | \$ 26 | \$ — | \$ 5,277 |
| Non-investment grade | 2,715 | 638 | 130 | 3,483 |
| Gross carrying value | 7,966 | 664 | 130 | 8,760 |
| Allowance for impairment | (36) | (20) | (52) | (108) |
| Carrying value | \$ 7,930 | \$ 644 | \$ 78 | \$ 8,652 |

The allowance for impairment ratio increased to 1.4% at December 2023 compared with 1.2% as of December 2022.

The table below presents an analysis of the bank's credit risk exposure for unfunded commitments for which an allowance for impairment is recognised.

| <i>\$ in millions</i> | Stage 1 | Stage 2 | Stage 3 | Total |
|---------------------------------|---------------|---------------|-------------|----------------|
| As of December 2023 | | | | |
| Credit rating equivalent | | | | |
| Investment grade | \$ 2,025 | \$ — | \$ — | \$ 2,025 |
| Non-investment grade | 1,382 | 326 | 16 | 1,724 |
| Unfunded commitments | 3,407 | 326 | 16 | 3,749 |
| Allowance for impairment | \$ (6) | \$ (6) | \$ — | \$ (12) |
| As of December 2022 | | | | |
| Credit rating equivalent | | | | |
| Investment grade | \$ 1,818 | \$ — | \$ — | \$ 1,818 |
| Non-investment grade | 1,229 | 280 | 39 | 1,548 |
| Unfunded commitments | 3,047 | 280 | 39 | 3,366 |
| Allowance for impairment | \$ (13) | \$ (8) | \$ (2) | \$ (23) |

The allowance for impairment also includes qualitative components which allow management to reflect the uncertain nature of economic forecasting, capture uncertainty regarding model inputs, and account for model imprecision and concentration risk. While the assessment is qualitative in nature, the quantification and implementation of these assessments are systematic and model based and considered a core component of the bank's modelled loan losses.

The bank also has credit risk exposure to the following financial assets where the allowance for impairment is not material:

- Cash and cash equivalents of \$19.93 billion as of December 2023 and \$18.46 billion as of December 2022;
- Collateralised agreements of \$32.59 billion as of December 2023 and \$15.54 billion as of December 2022;
- Customer and other receivables of \$916 million as of December 2023 and \$209 million as of December 2022;
- Investments of \$2.86 billion as of December 2023 and \$2.22 billion as of December 2022; and
- Other assets of \$258 million as of December 2023 and \$1.53 billion as of December 2022.

The total amount of undiscounted expected credit losses at initial recognition for purchased or originated credit-impaired financial assets recognised was \$nil for both the years ended December 2023 and December 2022.

Collateral and Other Credit Enhancements

The bank employs a range of policies and practices to mitigate credit risk. The most common of these is accepting collateral for funds advanced. The bank has internal policies on the acceptability of specific classes of collateral or credit risk mitigation. The bank prepares a valuation of the collateral obtained as part of the loan origination process. This assessment is reviewed periodically.

Notes to the Financial Statements

The bank closely monitors collateral held for financial assets considered to be credit-impaired, as it becomes more likely that the bank will take possession of collateral to mitigate potential credit losses. Credit-impaired financial assets were \$169 million as of December 2023 and \$130 million as of December 2022 and the allowance for impairment on these credit-impaired financial assets was \$63 million as of December 2023 and \$52 million as of December 2022. No collateral was held on these loans.

Allowance for Impairment

The allowance for impairment recorded in the year is impacted by a variety of factors, including transfers between stages as a result of financial instruments experiencing significant increases in credit risk or becoming credit-impaired, new financial instruments recognised during the year and changes in modelling assumptions such as PDs, LGDs and EADs based on updated macroeconomic assumptions. Other factors include foreign exchange revaluations and derecognition of financial instruments.

The table below presents changes in the allowance for impairment for loans.

| <i>\$ in millions</i> | Stage 1 | Stage 2 | Stage 3 | Total |
|--|--------------|--------------|--------------|---------------|
| Year Ended December 2023 | | | | |
| Beginning balance | \$ 36 | \$ 20 | \$ 52 | \$ 108 |
| Items with profit or loss impact | | | | |
| Transfers: | | | | |
| – Stage 1 to stage 2 | (9) | 9 | — | — |
| – Stage 1 to stage 3 | (8) | — | 8 | — |
| – Stage 2 to stage 1 | 4 | (4) | — | — |
| – Stage 2 to stage 3 | — | (1) | 1 | — |
| New financial assets originated or purchased | 19 | — | — | 19 |
| Financial assets de-recognised during the year | (20) | (5) | (21) | (46) |
| Changes in PDs/LGDs/EADs | (8) | 8 | 30 | 30 |
| Translation (gains)/ losses | 4 | — | (6) | (2) |
| Total items with profit or loss impact | (18) | 7 | 12 | 1 |
| Recoveries | — | — | 2 | 2 |
| Charge-offs | — | — | (3) | (3) |
| Ending balance | \$ 18 | \$ 27 | \$ 63 | \$ 108 |
| Year Ended December 2022 | | | | |
| Beginning balance | \$ 32 | \$ 18 | \$ 1 | \$ 51 |
| Items with profit or loss impact | | | | |
| Transfers: | | | | |
| – Stage 1 to stage 2 | (4) | 4 | — | — |
| – Stage 1 to stage 3 | (1) | — | 1 | — |
| – Stage 2 to stage 3 | — | (14) | 14 | — |
| New financial assets originated or purchased | 9 | 3 | 1 | 13 |
| Financial assets de-recognised during the year | (11) | (2) | (4) | (17) |
| Changes in PDs/LGDs/EADs | 10 | 9 | 77 | 96 |
| Translation (gains)/ losses | 1 | 2 | (16) | (13) |
| Total items with profit or loss impact | 4 | 2 | 73 | 79 |
| Charge-offs | — | — | (22) | (22) |
| Ending balance | \$ 36 | \$ 20 | \$ 52 | \$ 108 |

The contractual amount outstanding on loans that were written off during the year and that can still be subjected to enforcement activity is \$15 million as of December 2023 and \$74 million as of December 2022.

The allowance for impairment for other financial assets where the bank has credit risk exposure did not change significantly during both the years ended December 2023 and December 2022.

The table below presents changes in the allowance for impairment for unfunded commitments.

| <i>\$ in millions</i> | Stage 1 | Stage 2 | Stage 3 | Total |
|--|--------------|-------------|-------------|--------------|
| Year Ended December 2023 | | | | |
| Beginning balance | \$ 13 | \$ 8 | \$ 2 | \$ 23 |
| Items with profit or loss impact | | | | |
| Transfers: | | | | |
| – Stage 1 to stage 2 | (17) | 17 | — | — |
| – Stage 1 to stage 3 | (59) | — | 59 | — |
| – Stage 2 to stage 1 | 1 | (1) | — | — |
| – Stage 2 to stage 3 | — | (1) | 1 | — |
| New financial assets originated or purchased | 93 | — | — | 93 |
| Financial assets de-recognised during the year | (14) | (7) | (3) | (24) |
| Changes in PDs/LGDs/EADs | (6) | 10 | 4 | 8 |
| Translation (gains)/ losses | (5) | (20) | (63) | (88) |
| Total items with profit or loss impact | (7) | (2) | (2) | (11) |
| Ending balance | \$ 6 | \$ 6 | \$ — | \$ 12 |
| Year Ended December 2022 | | | | |
| Beginning balance | \$ 5 | \$ 4 | \$ — | \$ 9 |
| Items with profit or loss impact | | | | |
| Transfers: | | | | |
| – Stage 2 to stage 3 | — | (2) | 2 | — |
| New financial assets originated or purchased | 8 | 5 | — | 13 |
| Financial assets de-recognised during the year | (3) | — | (1) | (4) |
| Changes in PDs/LGDs/EADs | 3 | 3 | — | 6 |
| Translation losses | — | (2) | 1 | (1) |
| Total items with profit or loss impact | 8 | 4 | 2 | 14 |
| Ending balance | \$ 13 | \$ 8 | \$ 2 | \$ 23 |

Forward Looking Information

As of December 2023, the forecasted economic scenarios were most heavily weighted towards the baseline and adverse scenarios. The forecast model incorporated adjustments to reflect the impact of the macroeconomic environment, including GDP growth, unemployment rates and inflation.

The bank's allowance for impairment primarily related to corporate loans to borrowers in the U.K. and E.U.

The table below presents the forecasted range (across the baseline, adverse and favourable scenarios) of the U.K. and E.U. unemployment and GDP growth rates used in the forecast model.

Notes to the Financial Statements

| | U.K. unemployment rate | Growth/(decline) in U.K. GDP |
|---------------------------------------|------------------------|------------------------------|
| As of December 2023 | | |
| Forecast for the quarter ended | | |
| June 2024 | 4.2% to 6.2% | (1.2)% to 0.5% |
| December 2024 | 4.2% to 7.4% | (2.5)% to 1.2% |
| June 2025 | 4.1% to 8.2% | (3.5)% to 1.9% |
| As of December 2022 | | |
| Forecast for the quarter ended | | |
| June 2023 | 4.2% to 6.4% | (1.2)% to (0.2)% |
| December 2023 | 4.1% to 8.3% | (1.5)% to 0.6% |
| June 2024 | 4.1% to 8.3% | (1.1)% to 1.7% |

| | E.U. unemployment rate | Growth/(decline) in E.U. GDP |
|---------------------------------------|------------------------|------------------------------|
| As of December 2023 | | |
| Forecast for the quarter ended | | |
| June 2024 | 6.3% to 8.7% | (2.0)% to 0.8% |
| December 2024 | 6.3% to 10.0% | (3.0)% to 1.8% |
| June 2025 | 6.3% to 10.7% | (3.7)% to 2.8% |
| As of December 2022 | | |
| Forecast for the quarter ended | | |
| June 2023 | 6.9% to 9.0% | (2.0)% to 0.2% |
| December 2023 | 7.0% to 10.1% | (3.0)% to 1.3% |
| June 2024 | 6.9% to 10.1% | (2.8)% to 2.5% |

Sensitivity of Expected Credit Losses

The ECL is sensitive to assumptions about future economic conditions, including the macro-economic variables used and the respective probability weightings assigned to the scenarios used to determine the probability-weighted ECL, as well as to assumptions of credit behaviour.

The table below presents the probability-weighted ECL (actual) compared to the ECL arising when 100% weighting is applied to the adverse scenario. The sensitivity analysis is applied to the stage 1 and stage 2 positions. Stage 3 provisions are not subject to the same level of measurement uncertainty as default has been observed at the balance sheet date. Stage 3 positions have therefore been excluded from the analysis.

| \$ in millions | As of December | | | |
|----------------|----------------|---------------|--------------|---------------|
| | 2023 | | 2022 | |
| | Actual | Adverse | Actual | Adverse |
| Stage 1 | \$ 24 | \$ 33 | \$ 49 | \$ 43 |
| Stage 2 | 33 | 86 | 28 | 112 |
| Total | \$ 57 | \$ 119 | \$ 77 | \$ 155 |

Transfers between stage 1 and stage 2 are based on the assessment of significant increases in credit risk relative to initial recognition. The impact of moving from 12 months expected credit losses to lifetime expected losses, or vice versa, can have a significant impact on expected credit losses.

The table below presents the impact of staging on the ECL by comparing, the allowance if all performing loans were in stage 2, to the actual ECL on these positions based on their stage allocation at the balance sheet date.

| \$ in millions | As of December | |
|---|----------------|--------------|
| | 2023 | 2022 |
| Aggregate stage 1 and stage 2 based on actual staging | \$ 57 | \$ 77 |
| All performing loans using lifetime ECL | 91 | 121 |
| Difference | \$ 34 | \$ 44 |

Credit Concentrations

The bank's concentrations to credit risk arise from its lending activities, and may be impacted by changes in economic, industry or political factors. These activities expose the bank to many different industries and counterparties, and may also subject the bank to a concentration of credit risk to a particular central bank, counterparty, or to borrower or issuer, including sovereign issuers. The bank seeks to mitigate credit risk by actively monitoring aggregate exposures against limits on individual entities and their consolidating groups, as well as countries and industries, and obtaining collateral from counterparties as deemed appropriate.

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

The table below presents the bank's net credit exposure to financial assets by industry and region.

| \$ in millions | As of December | |
|------------------------------------|-----------------|-----------------|
| | 2023 | 2022 |
| Credit Exposure by Industry | | |
| Corporate | 1,610 | 1,712 |
| Commercial real estate | 779 | 742 |
| Residential real estate | 409 | 464 |
| Securities-based | 2,784 | 3,020 |
| Other collateralised | 1,973 | 2,646 |
| Other | 10 | 68 |
| Total | \$ 7,565 | \$ 8,652 |
| Credit Exposure by Region | | |
| EMEA | \$ 4,774 | \$ 5,922 |
| Americas | 2,053 | 735 |
| Asia | 738 | 1,995 |
| Total | \$ 7,565 | \$ 8,652 |

Notes to the Financial Statements

Gross Carrying Value

The table below presents changes in the gross carrying value of bank loans and mortgage-backed loans.

| <i>\$ in millions</i> | Stage 1 | Stage 2 | Stage 3 | Total |
|--|-----------------|---------------|---------------|-----------------|
| Year Ended December 2023 | | | | |
| Beginning balance | \$ 7,966 | \$ 664 | \$ 130 | \$ 8,760 |
| Transfers: | | | | |
| – Stage 1 to stage 2 | (735) | 735 | — | — |
| – Stage 1 to stage 3 | (51) | — | 51 | — |
| – Stage 2 to stage 1 | 65 | (65) | — | — |
| – Stage 2 to stage 3 | — | (59) | 59 | — |
| New financial assets originated or purchased | 2,944 | — | — | 2,944 |
| Financial assets de-recognised during the year | (3,522) | (438) | (71) | (4,031) |
| Ending balance | \$ 6,667 | \$ 837 | \$ 169 | \$ 7,673 |
| Year Ended December 2022 | | | | |
| Beginning balance | \$ 10,753 | \$ 146 | \$ 2 | \$ 10,901 |
| Transfers: | | | | |
| – Stage 1 to stage 2 | (284) | 284 | — | — |
| – Stage 1 to stage 3 | (93) | — | 93 | — |
| – Stage 2 to stage 3 | — | (74) | 74 | — |
| New financial assets originated or purchased | 3,041 | 373 | 12 | 3,426 |
| Financial assets de-recognised during the year | (5,451) | (65) | (51) | (5,567) |
| Ending balance | \$ 7,966 | \$ 664 | \$ 130 | \$ 8,760 |

Maximum Exposure to Credit Risk - Financial Instruments Not Subject to Impairment

The table below contains an analysis of the credit risk exposure for financial assets not subject to impairment (i.e., mandatorily at fair value). This presents the bank's gross credit exposure to and net credit exposure after taking account of assets captured by market risk in the bank's risk management process, counterparty netting (i.e., the netting of financial assets and liabilities for a given counterparty when a legal right of set-off exists under an enforceable netting agreement), and cash and security collateral received under credit support agreements, which management considers when determining credit risk.

| <i>\$ in millions</i> | Collateralised agreements | Trading assets | Loans | Investments | Other assets | Total |
|--------------------------------|---------------------------|-----------------|------------------|---------------|---------------|-------------------|
| As of December 2023 | | | | | | |
| Gross credit exposure | \$ 19,546 | \$ 5,214 | \$ 510 | \$ 308 | \$ — | \$ 25,578 |
| Assets captured by market risk | — | — | — | — | — | — |
| Counterparty netting | (41) | (1,132) | — | — | — | (1,173) |
| Cash collateral | (32) | (403) | — | — | — | (435) |
| Security collateral received | (40,919) | (33) | (4,064) | (316) | — | (45,332) |
| Net credit exposure | \$ (21,446) | \$ 3,646 | \$(3,554) | \$ (8) | \$ — | \$(21,362) |
| As of December 2022 | | | | | | |
| Gross credit exposure | \$ 21,954 | \$ 5,367 | \$ 457 | \$ 1,859 | \$ 551 | \$ 30,188 |
| Assets captured by market risk | — | — | — | — | 0 | — |
| Counterparty netting | (301) | (1,394) | — | — | 0 | (1,695) |
| Cash collateral | (4) | (466) | — | — | 0 | (470) |
| Security collateral received | (20,773) | (13) | — | (1,641) | — | (22,427) |
| Net credit exposure | \$ 876 | \$ 3,494 | \$ 457 | \$ 218 | \$ 551 | \$ 5,596 |

The table below present the bank's gross credit exposure to financial instruments measured at fair value through profit or loss by internally determined public rating agency equivalents and other credit metrics.

| <i>\$ in millions</i> | As of December | |
|-----------------------|------------------|------------------|
| | 2023 | 2022 |
| AAA | \$ 206 | \$ 179 |
| AA | 146 | 16 |
| A | 21,394 | 20,854 |
| BBB | 483 | 5,336 |
| BB or lower | 3,349 | 3,803 |
| Unrated | — | — |
| Total | \$ 25,578 | \$ 30,188 |

In the table above, the bank's unrated gross credit exposure includes assets captured by market risk. The bank's unrated gross credit exposure excluding assets captured by market risk was \$nil million as of both December 2023 and December 2022, which are financial assets for which the bank has not assigned an internally determined public rating agency equivalent.

Notes to the Financial Statements

In addition to credit risk on financial assets, the bank also has credit exposure in respect of contingent and forward starting resale agreements, financial guarantee contracts written and in its capacity as an agent in securities lending.

The bank's gross credit exposure related to contingent and forward starting resale agreements was \$954 million as of December 2023 and \$289 million as of December 2022. However, this is fully mitigated by collateral if these commitments are fulfilled. The exposure was with counterparties with an internally determined public rating agency equivalent of AA.

The bank's gross credit exposure related to financial guarantee contracts written was \$476 million as of December 2023 and \$33 million as of December 2022.

The maximum exposure to the bank as an agent in securities lending was \$3.69 billion as of December 2023 and \$3.05 billion as of December 2022. However, this is fully mitigated by the market value of the collateral held to cover the loss.

Note 30.

Transferred Assets

Assets Continued to be Recognised in Full. During the year, the bank transferred certain financial assets where the transfers failed to meet the derecognition criteria, as contained in IFRS 9, and as a result of which the bank continues to recognise these assets in full in the balance sheet.

The bank transfers assets owned to counterparties in the ordinary course of business to collateralise repurchase agreements and other securities lending transactions. In these transactions the transferred assets continue to be recognised by the bank for accounting purposes because the transactions require the financial instruments to be repurchased at maturity of the agreement and the bank remains exposed to the price, credit and interest rate risk of these instruments. When the bank receives cash proceeds from the transfer of the asset, a financial liability is recognised in respect of the consideration received and recorded in collateralised financings. When the bank receives non-cash collateral (in the form of securities) no liability is initially recognised. If collateral received is subsequently sold, the obligation to return the collateral is recognised as a liability in trading liabilities.

Other financial assets transferred that continue to be recognised on the balance sheet for accounting purposes relate to pledges of securities as collateral, primarily for derivative transactions. The obligations under such derivatives are recorded in trading liabilities.

Financial assets which have been transferred but which remain on the balance sheet for accounting purposes were \$1 million as of December 2023 and \$108 million as of December 2022.

Derecognised Assets With Ongoing Exposure.

The bank transfers financial assets to securitisation vehicles. The bank generally receives cash in exchange for the transferred assets but may have continuing involvement with the transferred assets, including ownership of beneficial interests in the securitised financial assets, primarily in the form of debt instruments.

Where the bank's continuing involvement in transferred assets is through retained or purchased interests in securitised assets, the bank's risk of loss is limited to the carrying value of these interests.

The bank accounts for assets pending transfer at fair value and therefore does not typically recognise significant gains or losses upon the transfer of assets. The bank does not have continuing involvement that could require the bank to repurchase derecognised financial assets.

The tables below present information about the bank's exposure through continuing involvement and the gains or losses related to those transactions.

| <i>\$ in millions</i> | Carrying value | Maximum exposure to loss |
|----------------------------|----------------|--------------------------|
| As of December 2023 | | |
| Investments | \$ 121 | \$ 121 |
| As of December 2022 | | |
| Investments | \$ 330 | \$ 330 |

| <i>\$ in millions</i> | Income in the year | Cumulative income |
|----------------------------|--------------------|-------------------|
| As of December 2023 | | |
| Investments | \$ 13 | \$ 47 |
| As of December 2022 | | |
| Investments | \$ 2 | \$ 34 |