

Unaudited Half-yearly Financial Report June 30, 2018

Goldman Sachs International (unlimited company)
Company Number: 02263951

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Introduction

Goldman Sachs International (GSI or the company) provides a wide range of financial services to clients located worldwide. The company also operates a number of branches and representative offices across Europe, the Middle East and Africa (EMEA) to provide financial services to clients in those regions.

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

The company'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. In relation to the company, "group undertaking" means Group Inc. or any of its subsidiaries. Group Inc., together with its consolidated subsidiaries, form "GS Group". GS Group is a leading global investment banking, securities and investment management firm that provides a wide range of financial services to a substantial and diversified client base that includes corporations, financial institutions, governments and individuals. GS Group has a presence in EMEA through a number of subsidiaries, including GSI.

The company seeks to be the advisor of choice for its clients and a leading participant in global financial markets. As part of GS Group, the company also enters into transactions with affiliates in the normal course of business as part of its market-making activities and general operations. The company, consistent with GS Group, reports its activities in four business segments: Investment Banking; Institutional Client Services; Investing & Lending; and Investment Management.

The company strives to maintain a work environment that fosters professionalism, excellence, diversity, cooperation among employees and high standards of business ethics. The company 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. For further information regarding Goldman Sachs leadership, its people, culture and commitment to diversity see www.goldmansachs.com/who-we-are/.

References to "the financial statements" are to the unaudited financial statements as presented in Part II of this financial report. All references to June 2018 and June 2017 refer to the periods ended, or the dates, as the context requires, June 30, 2018 and June 30, 2017, respectively. All references to December 2017 refer to the date December 31, 2017. All references to "the 2017 Annual Report" are to the company's Annual Report for the year ended December 31, 2017.

Unless otherwise stated, all amounts in this financial report are prepared in accordance with United Kingdom Generally Accepted Accounting Practices (U.K. GAAP). The company also prepares results under United States Generally Accepted Accounting Principles (U.S. GAAP), which are included in the consolidated financial statements of GS Group.

Executive Overview

Profit and Loss Account

Three Months Ended June 2018 versus June 2017.

The profit and loss account is set out on page 18 of this financial report. The company's profit for the financial period was \$633 million for the second quarter of 2018, compared with \$287 million for the second quarter of 2017.

Net revenues were \$2.15 billion for the second quarter of 2018, 30% higher than the second quarter of 2017, reflecting significantly higher net revenues in Institutional Client Services and Investment Management, and higher net revenues in Investment Banking and Investing & Lending.

Administrative expenses were \$1.25 billion for the second quarter of 2018, 6% higher than the second quarter of 2017, primarily due to significantly higher other expenses, reflecting the impact of the company adopting IFRS 15 'Revenue from Contracts with Customers' (IFRS 15), which changed the presentation of certain costs from a net presentation within net revenues to a gross basis. In addition, management charges from/to group undertakings and brokerage, clearing, exchange and distribution fees were significantly higher. These increases were partially offset by significantly lower direct costs of employment.

Six Months Ended June 2018 versus June 2017. The company's profit for the financial period was \$1.17 billion for the first half of 2018, an increase of 64% compared with the first half of 2017.

Net revenues were \$4.55 billion for the first half of 2018, 39% higher than the first half of 2017, primarily due to significantly higher net revenues in Institutional Client Services, Investment Management and Investment Banking, and higher net revenues in Investing & Lending.

Administrative expenses were \$2.85 billion for the first half of 2018, 34% higher than the first half of 2017, primarily due to significantly higher other expenses, reflecting the impact of the company adopting IFRS 15. In addition, management charges from/to group undertakings were significantly higher and direct costs of employment were higher.

See "Results of Operations" below for further information about the company's net revenues, segment reporting and administrative expenses.

Capital Ratios

As of June 2018, the company's Common Equity Tier 1 ratio was 10.5% (under CRD IV as defined in "Equity Capital Management and Regulatory Capital — Regulatory Capital").

Balance Sheet

The balance sheet is set out on page 19 of this financial report. In the subsequent paragraphs, total assets are the sum of "Fixed assets", "Current assets" and "Pension surplus". Total liabilities are the sum of "Creditors: amounts falling due within one year", "Creditors: amounts falling due after more than one year" and "Provisions for liabilities".

As of June 2018, total assets were \$979.25 billion, an increase of \$38.85 billion from December 2017, reflecting increases in cash at bank and in hand of \$16.91 billion, financial instruments owned of \$11.12 billion and collateralised agreements of \$8.26 billion. Cash at bank and in hand increased primarily due to an increase in cash deposits held as Global Core Liquid Assets (GCLA). Financial instruments owned increased primarily due to an increase in cash instruments, principally as a result of an increase in equity securities and government and agency obligations. Collateralised agreements increased primarily due to changes in client and firm activity.

As of June 2018, total liabilities were \$946.16 billion, an increase of \$37.47 billion from December 2017, reflecting increases in other creditors of \$29.42 billion, collateralised financings of \$4.08 billion and financial instruments sold, but not yet purchased of \$3.97 billion. Other creditors increased primarily due to an increase in unsecured borrowings. Collateralised financings increased primarily due to changes in client and firm activity. Financial instruments sold, but not yet purchased increased primarily due to an increase in cash instruments, principally as a result of an increase in government and agency obligations and equity securities, partially offset by a decrease in derivative instruments.

Total level 3 financial assets were \$4.92 billion and \$4.04 billion as of June 2018 and December 2017, respectively. See Note 18 to the financial statements for further information about level 3 financial assets, including changes in level 3 financial assets and related fair value measurement.

Under U.S. GAAP, as of June 2018, total assets were \$447.44 billion and total liabilities were \$420.29 billion. The company's total assets and total liabilities under U.S. GAAP differ from those reported under U.K. GAAP primarily due to the company presenting derivative balances gross under U.K. GAAP if they are not net settled in the normal course of business, even where it has a legally enforceable right to offset those balances.

Business Environment

Global

During the second quarter of 2018, real gross domestic product (GDP) growth appeared to increase in most major developed economies. However, economic activity slowed in several major emerging market economies, and emerging market asset prices declined significantly as concerns arose about the vulnerability of emerging economies to a stronger U.S. dollar and higher U.S. Treasury rates. The U.S. Presidential Administration proposed significant increases in tariffs on imports, which prompted retaliatory measures from major U.S. trading partners. The rising global trade tensions were a meaningful source of uncertainty affecting asset prices. The U.S. Federal Reserve followed an increase in the target federal funds rate in March 2018 with another increase in June 2018, and the European Central Bank announced in June 2018 a reduction to its future monthly asset purchases.

In investment banking, industry-wide announced and completed mergers and acquisitions volumes increased compared with the first quarter of 2018. Industry-wide equity underwriting transactions increased slightly, while industry-wide debt underwriting transactions declined compared with the first quarter of 2018.

Europe

In the Euro area, real GDP growth decreased during the quarter, while measures of inflation were mixed. The European Central Bank maintained its main refinancing operations rate at 0.00% and its deposit rate at (0.40)%, but announced in June 2018 that its monthly asset purchases will continue at a reduced pace of €15 billion per month after September 2018 and through December 2018, after which net asset purchases will end. Measures of unemployment remained high, but continued their downward trend, and the Euro depreciated by 5% against the U.S. dollar compared with the end of the first quarter of 2018. The movements in 10-year Euro area government bond yields were mixed, with bonds yields lower in most countries, but significantly higher in Italy. Following a period of significant political uncertainty, a new coalition government was formed in Italy at the end of May 2018. In equity markets, the CAC 40 Index, DAX Index and Euro Stoxx 50 Index increased by 3%, 2% and 1%, respectively, compared with the end of the first quarter of 2018.

In the U.K., real GDP growth appeared to increase compared with the previous quarter. The Bank of England maintained its official bank rate at 0.50% during the period, and the British pound depreciated by 6% against the U.S. dollar. Yields on 10-year U.K. government bonds decreased and, in equity markets, the FTSE 100 Index increased by 8% compared with the end of the first quarter of 2018.

In investment banking, EMEA industry-wide announced and completed mergers and acquisitions volumes increased compared with the first quarter of 2018. EMEA industry-wide equity underwriting transactions increased, while EMEA industry-wide debt underwriting transactions declined compared with the first quarter of 2018.

Results of Operations

Recent Accounting Development

The company adopted IFRS 15 from January 1, 2018. As a result of adopting this standard, the company has prospectively changed the presentation of certain costs from a net presentation within net revenues to a gross basis, resulting in an increase in both net revenues and administrative expenses by \$109 million for the three months ended June 2018 and \$231 million for the six months ended June 2018, in comparison to the company's past presentation. See Note 2 to the financial statements for further information.

Net Revenues

Net revenues include the net profit arising from transactions, with both third parties and affiliates, in securities, foreign exchange and other financial instruments, and fees and commissions. This is inclusive of associated interest and dividends. See "Segment Reporting" below for further details.

Segment Reporting

The table below presents the net revenues of the company's segments.

		Three Months Ended June			Six Month Ended Jun			
\$ in millions	-:	2018		2017		2018		2017
Investment Banking								
Financial Advisory	\$	165	\$	116	\$	318	\$	235
Underwriting		225		214		460		359
Total Investment Banking	\$	390	\$	330	\$	778	\$	594
Fixed Income, Currency and Commodities Client Execution Equities	\$	500 866	\$	362 705		1,309 1,698		893 1,258
Total Institutional Client Services	\$1	,366	\$1	,067	\$3	3,007	\$2	2,151
Investing & Lending	\$	174	\$	118	\$	297	\$	260
Investment Management	\$	216	\$	131	\$	464	\$	274
Total net revenues	\$2	2,146	\$1	,646	\$4	1,546	\$3	3,279

Investment Banking

Investment Banking consists of:

Financial Advisory. Includes strategic advisory engagements with respect to mergers and acquisitions, divestitures, corporate defence activities, restructurings, spinoffs, risk management and derivative transactions directly related to these client advisory engagements.

Underwriting. Includes equity and debt underwriting of public offerings and private placements, including local and cross-border transactions and acquisition financing, of a wide range of securities and other financial instruments, including loans, and derivative transactions directly related to these client underwriting activities.

Three Months Ended June 2018 versus June 2017.

Net revenues in Investment Banking were \$390 million for the second quarter of 2018. Net revenues in Investment Banking (excluding the impact of adopting IFRS 15) were \$338 million for the second quarter of 2018, slightly higher than the second quarter of 2017.

Net revenues in Financial Advisory were \$165 million for the second quarter of 2018. Net revenues in Financial Advisory (excluding the impact of adopting IFRS 15) were \$151 million for the second quarter of 2018, 30% higher than the second quarter of 2017, primarily reflecting an increase in completed mergers and acquisitions transactions.

Net revenues in Underwriting were \$225 million for the second quarter of 2018. Net revenues in Underwriting (excluding the impact of adopting IFRS 15) were \$187 million for the second quarter of 2018, 13% lower than the second quarter of 2017, due to significantly lower net revenues in debt underwriting, partially offset by higher net revenues in equity underwriting.

As of June 2018, the company's investment banking transaction backlog increased significantly compared with March 2018 due to significantly higher estimated net revenues from potential advisory transactions. In addition, estimated net revenues from potential debt underwriting transactions were significantly higher, particularly from leveraged finance transactions, and estimated net revenues from potential equity underwriting transactions were higher.

The company's investment banking transaction backlog represents an estimate of future net revenues from investment banking transactions where the company believes that future revenue realisation is more likely than not. The company believes changes in its investment banking transaction backlog may be a useful indicator of client activity levels which, over the long term, impact net revenues.

Six Months Ended June 2018 versus June 2017. Net revenues in Investment Banking were \$778 million for the first half of 2018. Net revenues in Investment Banking (excluding the impact of adopting IFRS 15) were \$656 million for the first half of 2018, 10% higher than the first half of 2017.

Net revenues in Financial Advisory were \$318 million for the first half of 2018. Net revenues in Financial Advisory (excluding the impact of adopting IFRS 15) were \$273 million for the first half of 2018, 16% higher than the first half of 2017, primarily reflecting an increase in completed mergers and acquisitions transactions.

Net revenues in Underwriting were \$460 million for the first half of 2018. Net revenues in Underwriting (excluding the impact of adopting IFRS 15) were \$383 million for the first half of 2018, 7% higher than the first half of 2017, primarily reflecting higher net revenues in equity underwriting. Net revenues in debt underwriting were essentially unchanged.

As of June 2018, the company's investment banking transaction backlog increased significantly compared with December 2017 due to significantly higher estimated net revenues from potential advisory transactions. In addition, estimated net revenues from potential debt underwriting transactions were higher, particularly from structured finance transactions, partially offset by lower estimated net revenues from potential equity underwriting transactions.

Institutional Client Services

Institutional Client Services consists of:

Fixed Income, Currency and Commodities Client Execution. Includes client execution activities related to making markets in both cash and derivative instruments for interest rate products, credit products, mortgages, currencies and commodities.

- Interest Rate Products. Government bonds (including inflation-linked securities) across maturities, other government-backed securities, securities sold under agreements to repurchase (repurchase agreements), and interest rate swaps, options and other derivatives.
- Credit Products. Investment-grade corporate securities, high-yield securities, credit derivatives, exchange-traded funds, bank and bridge loans, municipal securities, emerging market and distressed debt, and trade claims.
- Mortgages. Commercial mortgage-related securities, loans and derivatives, residential mortgage-related securities, loans and derivatives, and other asset-backed securities, loans and derivatives.
- **Currencies.** Currency options, spot/forwards and other derivatives on G-10 currencies and emerging-market products.

• **Commodities.** Commodity derivatives and, to a lesser extent, physical commodities, involving crude oil and petroleum products, natural gas, base, precious and other metals, electricity, coal, agricultural and other commodity products.

Equities. Includes client execution activities related to making markets in equity products and commissions and fees from executing and clearing institutional client transactions on major stock, options and futures exchanges worldwide, as well as over-the-counter (OTC) transactions. Equities also includes the securities services business, which provides financing, securities lending and other prime brokerage services to institutional clients, including hedge funds, mutual funds, pension funds and foundations, and generates revenues primarily in the form of interest rate spreads or fees.

The company's results are influenced by a combination of interconnected drivers, including (i) client activity levels and transactional bid/offer spreads (collectively, client activity), and (ii) changes in the fair value of its inventory, and interest income and interest expense related to the holding, hedging and funding of its inventory (collectively, market-making inventory changes). Due to the integrated nature of the company's market-making activities, disaggregation of net revenues into client activity and market-making inventory changes is judgemental and has inherent complexities and limitations.

Three Months Ended June 2018 versus June 2017.

Net revenues in Institutional Client Services were \$1.37 billion for the second quarter of 2018. Net revenues in Institutional Client Services (excluding the impact of adopting IFRS 15) were \$1.33 billion for the second quarter of 2018, 24% higher than the second quarter of 2017.

Net revenues in Fixed Income, Currency and Commodities Client Execution (FICC Client Execution) were \$500 million for the second quarter of 2018. Net revenues in FICC Client Execution (excluding the impact of adopting IFRS 15) were \$474 million for the second quarter of 2018, 31% higher than the second quarter of 2017, due to significantly higher net revenues in interest rate products and commodities as well as higher net revenues in mortgages, partially offset by significantly lower net revenues in currencies and credit products.

Net revenues in Equities were \$866 million for the second quarter of 2018. Net revenues in Equities (excluding the impact of adopting IFRS 15) were \$854 million for the second quarter of 2018, 21% higher than the second quarter of 2017, due to significantly higher net revenues in securities services, and higher net revenues in equities client execution and commission and fees.

Six Months Ended June 2018 versus June 2017. Net revenues in Institutional Client Services were \$3.01 billion for the first half of 2018. Net revenues in Institutional Client Services (excluding the impact of adopting IFRS 15) were \$2.93 billion for the first half of 2018, 36% higher than the first half of 2017.

Net revenues in FICC Client Execution were \$1.31 billion for the first half of 2018. Net revenues in FICC Client Execution (excluding the impact of adopting IFRS 15) were \$1.26 billion for the first half of 2018, 41% higher than the first half of 2017, due to significantly higher net revenues in commodities, currencies and credit products as well as higher net revenues in interest rate products, partially offset by lower net revenues in mortgages.

Net revenues in Equities were \$1.70 billion for the first half of 2018. Net revenues in Equities (excluding the impact of adopting IFRS 15) were \$1.67 billion for the first half of 2018, 33% higher than the first half of 2017, due to significantly higher net revenues in equities client execution, and higher net revenues in securities services and commission and fees.

Investing & Lending

Investing & Lending includes direct investments made by the company, which are typically longer-term in nature, and net revenues associated with providing investing services to other GS Group entities.

Three Months Ended June 2018 versus June 2017.

Net revenues in Investing & Lending were \$174 million for the second quarter of 2018. Net revenues in Investing & Lending (excluding the impact of adopting IFRS 15) were \$169 million for the second quarter of 2018, 43% higher than the second quarter of 2017. The increase was primarily due to generally more favourable market movements compared with the second quarter of 2017.

Six Months Ended June 2018 versus June 2017. Net revenues in Investing & Lending were \$297 million for the first half of 2018. Net revenues in Investing & Lending (excluding the impact of adopting IFRS 15) were \$292 million for the first half of 2018, 12% higher than the first half of 2017. The increase was primarily due to generally more favourable market movements compared with the first half of 2017.

Investment Management

Investment Management provides investment management and wealth advisory services, including portfolio management and financial counselling, and brokerage and other transaction services to high-net-worth individuals and families. Investment Management also includes net revenues associated with providing investing services to funds managed by GS Group.

Three Months Ended June 2018 versus June 2017.

Net revenues in Investment Management were \$216 million for the second quarter of 2018. Net revenues in Investment Management (excluding the impact of adopting IFRS 15) were \$202 million for the second quarter of 2018, 54% higher than the second quarter of 2017, primarily due to an increase in net revenues from providing investing services.

Six Months Ended June 2018 versus June 2017. Net revenues in Investment Management were \$464 million for the first half of 2018. Net revenues in Investment Management (excluding the impact of adopting IFRS 15) were \$433 million for the first half of 2018, 58% higher than the first half of 2017, primarily due to an increase in net revenues from providing investing services.

Administrative Expenses

Administrative expenses are primarily influenced by compensation (including the impact of the Group Inc. share price on share-based compensation), headcount and levels of business activity. Direct costs of employment include salaries, allowances, estimated year-end discretionary compensation, amortisation and mark-to-market of share-based compensation and other items such as benefits. Discretionary compensation is significantly impacted by, among other factors, the level of net revenues, overall financial performance, prevailing labour markets, business mix, the structure of share-based compensation programmes and the external environment.

The table below presents the company's administrative expenses and total staff (including employees, consultants and temporary staff).

	Three Months		Six M	lonths
	Ended June		Ended	d June
\$ in millions	2018	2017	2018	2017
Direct costs of employment	\$ 586	\$ 751	\$1,528	\$1,392
Brokerage, clearing, exchange				
and distribution fees	224	183	438	337
Market development	22	22	44	37
Communications and technology	31	25	59	48
Depreciation and amortisation	16	8	30	16
Occupancy	43	39	83	76
Professional fees	37	33	75	52
Management charges from/to				
group undertakings	112	56	230	65
Other expenses	177	55	365	106
Total administrative expenses	\$1,248	\$1,172	\$2,852	\$2,129
Total staff at period-end	4,364	4,132		

In the table above:

 Direct costs of employment included a credit of \$121 million and a credit of \$29 million for the three months ended June 2018 and June 2017, respectively, and a credit of \$63 million and a credit of \$51 million for the six months ended June 2018 and June 2017, respectively, relating to the mark-tomarket of share-based compensation.

- The company has reclassified \$18 million of transaction and other fees that are paid to exchanges for the three months ended June 2017 and \$34 million for the six months ended June 2017 from other expenses to brokerage, clearing, exchange and distribution fees to conform to the current period presentation.
- Management charges from/to group undertakings includes service charges relating to operational and administrative support, and management services received from and provided to group undertakings. This included a charge of \$213 million and a credit of \$101 million for the three months ended June 2018, and a charge of \$146 million and a credit of \$90 million for the three months ended June 2017, a charge of \$447 million and a credit of \$217 million for the six months ended June 2018, and a charge of \$241 million and a credit of \$176 million for the six months ended June 2017.

Three Months Ended June 2018 versus June 2017.

Administrative expenses were \$1.25 billion for the second quarter of 2018, 6% higher than the second quarter of 2017. Administrative expenses (excluding the impact of adopting IFRS 15) were \$1.14 billion for the second quarter of 2018, 3% lower than the second quarter of 2017.

Direct costs of employment were \$586 million for the second quarter of 2018, 22% lower than the second quarter of 2017. Direct costs of employment include the mark-to-market impact of share-based compensation. Excluding the mark-to-market impact of share-based compensation for both periods, direct costs of employment were \$707 million for the second quarter of 2018, 9% lower than the second quarter of 2017.

Brokerage, clearing, exchange and distribution fees were \$224 million for the second quarter of 2018, 22% higher than the second quarter of 2017, reflecting an increase in activity levels.

Management charges from/to group undertakings were \$112 million for the second quarter of 2018, \$56 million higher than the second quarter of 2017, primarily due to higher charges from affiliates.

Other expenses were \$177 million for the second quarter of 2018, \$122 million higher than the second quarter of 2017, primarily due to the impact of adopting IFRS 15.

As of June 2018, total staff was essentially unchanged compared with March 2018.

Six Months Ended June 2018 versus June 2017. Administrative expenses were \$2.85 billion for the first half of 2018, 34% higher than the first half of 2017. Administrative expenses (excluding the impact of adopting IFRS 15) were \$2.62 billion for the first half of 2018, 23% higher the first half of 2017.

Direct costs of employment were \$1.53 billion for the first half of 2018, 10% higher than the first half of 2017, reflecting a significant increase in net revenues. Direct costs of employment include the mark-to-market impact of share-based compensation. Excluding the mark-to-market impact of share-based compensation for both periods, direct costs of employment were \$1.59 billion for the first half of 2018, 10% higher than the first half of 2017.

Brokerage, clearing, exchange and distribution fees were \$438 million for the first half of 2018, 30% higher than the first half of 2017, reflecting an increase in activity levels.

Management charges from/to group undertakings were \$230 million for the first half of 2018, \$165 million higher than the first half of 2017, due to higher charges from affiliates and the transfer of employees in the second quarter of 2017 to an affiliated group undertaking in the U.K.

Other expenses were \$365 million for the first half of 2018, \$259 million higher than the first half of 2017, primarily due to the impact of adopting IFRS 15.

As of June 2018, total staff was essentially unchanged compared with December 2017.

Interest Payable and Similar Expenses

Interest payable and similar expenses consists of interest on long-term subordinated loans from parent and group undertakings.

Three Months Ended June 2018 versus June 2017. Interest payable and similar expenses was \$64 million for the second quarter of 2018, 31% lower than the second quarter of 2017, due to a decrease in the average long-term subordinated

loans balance as the company repaid \$3.58 billion of long-term subordinated loans in the second quarter of 2017.

Six Months Ended June 2018 versus June 2017.

Interest payable and similar expenses was \$125 million for the first half of 2018, 33% lower than the first half of 2017, due to a decrease in the average long-term subordinated loans balance as the company repaid \$3.58 billion of long-term subordinated loans in the second quarter of 2017.

Tax on Profit

The effective tax rate for first half of 2018 was 25.5%, which compares to the U.K. corporate tax rate applicable to the company of 27.0% for 2018. The effective tax rate represents the company's tax on profit divided by its profit before taxation.

Balance Sheet and Funding Sources

Balance Sheet Management

One of the company's risk management disciplines is its ability to manage the size and composition of its balance sheet. The company leverages the firmwide balance sheet management process performed at the GS Group level to manage these factors. While the asset base of Group Inc. and its subsidiaries changes due to client activity, market fluctuations and business opportunities, the size and composition of the balance sheet also reflects factors including (i) the overall risk tolerance of GS Group, (ii) the amount of equity capital held by GS Group and (iii) the funding profile of GS Group, among other factors. See "Equity Capital Management and Regulatory Capital — Equity Capital Management" for information about the company's equity capital management process.

In order to ensure appropriate risk management, the company seeks to maintain a sufficiently liquid balance sheet and leverages GS Group's processes to dynamically manage its assets and liabilities which include (i) balance sheet planning, (ii) balance sheet limits, (iii) monitoring of key metrics and (iv) scenario analyses. See "Balance Sheet and Funding Sources — Balance Sheet Management" in Part I of the 2017 Annual Report for further information about the company's balance sheet management process.

Funding Sources

The company's primary sources of funding are secured funding, intercompany unsecured borrowings and external unsecured borrowings. The company raises this funding through a number of different products, including:

- Repurchase agreements and securities loaned;
- Intercompany loans from Group Inc. and other affiliates;
- Debt securities issued, which includes notes, certificates, and warrants; and
- Other borrowings, which includes funded derivative products and transfers of assets accounted for as financings rather than sales.

The table below presents the company's secured funding, intercompany unsecured borrowings and external unsecured borrowings included in collateralised financings and other creditors in the balance sheet.

	As of		
	June	December	
\$ in millions	2018	2017	
Secured funding	\$179,528	\$175,447	
Intercompany unsecured borrowings	67,735	43,152	
External unsecured borrowings	26,047	23,316	
Total	\$273,310	\$241,915	

The company generally distributes funding products through its own sales force and third-party distributors to a large, diverse creditor base in a variety of global markets. The company believes that its relationships with external creditors are critical to its liquidity. These creditors include banks, securities lenders, corporations, pension funds, insurance companies, mutual funds and individuals. The company has imposed various internal guidelines to monitor creditor concentration across its external funding programmes.

Secured Funding. The company funds a significant amount of inventory on a secured basis, with external counterparties, as well as with affiliates, including repurchase agreements, securities loaned and other secured financings. As of June 2018 and December 2017, secured funding represented as collateralised financings in the balance sheet was \$179.53 billion and \$175.45 billion, respectively.

The company may also pledge its inventory as collateral for securities borrowed under a securities lending agreement or as collateral for derivative transactions. The company also uses its own inventory to cover transactions in which the company or its clients have sold securities that have not yet been purchased. Secured funding is less sensitive to changes in Group Inc. and/or the company's credit quality than unsecured funding, due to the posting of collateral to lenders. Nonetheless, the company continually analyses the refinancing risk of its secured funding activities, taking into account trade tenors, maturity profiles, counterparty concentrations, collateral eligibility and counterparty rollover probabilities. The company seeks to mitigate its refinancing risk by executing term trades with staggered maturities, diversifying counterparties, raising excess secured funding, and pre-funding residual risk through the GCLA.

The company seeks to raise secured funding with a term appropriate for the liquidity of the assets that are being financed, and seeks longer maturities for secured funding collateralised by asset classes that may be harder to fund on a secured basis, especially during times of market stress.

A majority of the company's secured funding for securities not eligible for inclusion in the GCLA is executed through term repurchase agreements and securities loaned contracts. The company also raises secured funding through debt securities issued and other borrowings.

The weighted average maturity of the company's external secured funding included in collateralised financings in the balance sheet, excluding funding that can only be collateralised by liquid government obligations, exceeded 120 days as of June 2018.

Intercompany Unsecured Borrowings. The company sources funding through intercompany unsecured borrowings from Goldman Sachs Funding LLC (Funding IHC), Group Inc. and other affiliates. As of June 2018 and December 2017, intercompany unsecured borrowings included in other creditors in the balance sheet were \$67.74 billion and \$43.15 billion, respectively.

Funding IHC is a wholly-owned, direct subsidiary of Group Inc. that has been formed to facilitate the execution of GS Group's preferred resolution strategy. The majority of GS Group's unsecured funding is raised by Group Inc., which lends the necessary funds to Funding IHC and other subsidiaries, including GSI, to meet asset financing, liquidity and capital requirements. The benefits of this approach to subsidiary funding are enhanced control and greater flexibility to meet the funding requirements of the company and other subsidiaries. Intercompany unsecured borrowings also include other borrowings.

External Unsecured Borrowings. External unsecured borrowings include debt securities issued, other borrowings, bank loans and overdrafts. As of June 2018 and December 2017, external unsecured borrowings included in other creditors in the balance sheet were \$26.05 billion and \$23.32 billion, respectively.

Equity Capital Management and Regulatory Capital

Capital adequacy is of critical importance to the company. The company has in place a comprehensive capital management policy that provides a framework, defines objectives and establishes guidelines to assist the company in maintaining the appropriate level and composition of capital in both business-as-usual and stressed conditions.

Equity Capital Management

The company determines the appropriate amount and composition of its equity capital by considering multiple factors including the company's current and future regulatory capital requirements, the results of the company'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 company's capital planning and stress testing process incorporates internally designed stress tests and those required under the PRA's Internal Capital Adequacy Assessment Process (ICAAP). It is also designed to identify and measure material risks associated with business activities, including market risk, credit risk, operational risk and other risks. The company's goal is to hold sufficient capital to ensure that it remains adequately capitalised after experiencing a severe stress event. The company's assessment of capital adequacy is viewed in tandem with its assessment of liquidity adequacy and is integrated into its overall risk management structure, governance and policy framework.

In addition, as part of the company's comprehensive capital management policy, a contingency capital plan is maintained that provides a framework for analysing and responding to a perceived or actual capital deficiency, including, but not limited to, identification of drivers of a capital deficiency, as well as mitigants and potential actions. It outlines the appropriate communication procedures to follow during a crisis period, including internal dissemination of information as well as timely communication with external stakeholders.

Regulatory Capital

The company is subject to the capital framework for E.U.-regulated financial institutions prescribed in the E.U. Fourth Capital Requirements Directive (CRD IV) and the E.U. Capital Requirements Regulation (CRR). These capital regulations are largely based on the Basel Committee on Banking Supervision's (Basel Committee) final capital framework for strengthening international capital standards (Basel III). The Basel Committee is the primary global standard setter for prudential bank regulation, and its member jurisdictions implement regulations based on its standards and guidelines.

The risk-based capital requirements are expressed as capital ratios that compare measures of regulatory capital to risk-weighted assets (RWAs). The Common Equity Tier 1 (CET1) ratio is defined as CET1 divided by RWAs. The Tier 1 capital ratio is defined as Tier 1 capital divided by RWAs. The total capital ratio is defined as total capital divided by RWAs.

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

- A capital conservation buffer, consisting entirely of capital that qualifies as CET1, which began to phase in on January 1, 2016 and will continue to do so in increments of 0.625% per year until it reaches 2.5% of RWAs on January 1, 2019.
- A countercyclical capital buffer of up to 2.5% (and also consisting entirely of CET1) in order to counteract excessive credit growth. The buffer only applies to the company's exposures to certain types of counterparties based in jurisdictions which have announced a countercyclical buffer. The buffer currently adds 0.17% to the CET1 minimum ratio. The countercyclical capital buffer applicable to the company could change in the future and, as a result, the company's minimum ratios could increase.
- Individual capital guidance under Pillar 2A (an additional amount to cover risks not adequately captured in Pillar 1). The PRA performs a periodic supervisory review of the company's ICAAP, which leads to a final determination by the PRA of individual capital guidance under Pillar 2A. This is a point in time assessment of the minimum amount of capital the PRA considers that a firm should hold.

The table below presents the company's minimum required risk-based capital ratios. These minimum risk-based capital ratios incorporate the Pillar 2A capital guidance received from the PRA and could change in the future.

	June 2018	December 2017
	Minimum Ratio	Minimum Ratio
CET1 ratio	8.0%	7.2%
Tier 1 capital ratio	9.9%	9.1%
Total capital ratio	12.6%	11.8%

In addition to the Pillar 2A capital guidance, the PRA also defines forward looking capital guidance which represents the PRA's view of the capital that the company would require to absorb losses in stressed market conditions. This is known as Pillar 2B or the "PRA buffer" and is not reflected in the minimum ratios shown above. As the capital conservation buffer phases in, as described above, it will fully or partially replace the PRA buffer.

During the six months ended June 2018 and the year ended December 2017, the company was in compliance with the capital requirements set by the PRA.

Regulatory Capital Ratios

The table below presents the company's risk-based capital ratios under CRD IV.

	As of		
	June	December	
	2018	2017	
CET1 ratio	10.5%	11.0%	
Tier 1 capital ratio	12.8%	13.6%	
Total capital ratio	15.1%	16.0%	

In the table above, the CET1 ratio, Tier 1 capital ratio and Total capital ratio as of June 2018 include approximately 39 basis points attributable to the company's profit after foreseeable charges and dividends, for the six months ended June 2018. This represents the company's profit for the financial period reduced by foreseeable charges and dividends, divided by its RWAs. The company's CET1 ratio, Tier 1 capital ratio and Total capital ratio as of June 2018 decreased compared with December 2017, primarily due to the increase in the company's RWAs. See "Risk-Weighted Assets" for further information.

Certain CRD IV rules are subject to final technical standards and clarifications, which will be issued by the European Banking Authority (EBA) and adopted by the European Commission and PRA. All capital, RWAs and estimated ratios are based on current interpretation, expectations and understanding of CRD IV and may evolve as its interpretation and application is discussed with the company's regulators.

Capital Resources

The table below presents the company's capital components under CRD IV.

	As	of
_	June	December
\$ in millions	2018	2017
Called up share capital	\$ 582	\$ 582
Share premium account including capital reserves	4,864	4,881
Retained earnings	21,911	20,727
Accumulated other comprehensive income	(72)	(289)
Deductions	(1,883)	(1,030)
Common Equity Tier 1	25,402	24,871
Additional Tier 1 notes	5,800	5,800
Tier 1 capital	\$31,202	\$30,671
Tier 2 and Total capital		
Long-term subordinated loans	\$ 5,377	\$ 5,377
Tier 2 capital	5,377	5,377
Total capital	\$36,579	\$36,048

Risk-Weighted Assets

The table below presents the components of RWAs within the company's regulatory capital ratios under CRD IV. See "Equity Capital Management and Regulatory Capital" in Part I of the 2017 Annual Report for a description of each RWA component.

	As	As of		
	June	December		
\$ in millions	2018	2017		
Credit RWAs	\$137,330	\$126,335		
Market RWAs	91,523	85,272		
Operational RWAs	14,104	14,335		
Total	\$242,957	\$225,942		

In the table above:

- Credit RWAs as of June 2018 increased by \$11.00 billion compared with December 2017, principally due to increased exposures and higher counterparty credit risk.
- Market RWAs as of June 2018 increased by \$6.25 billion compared with December 2017, primarily reflecting an increase in standardised and modelled market risk as a result of changes in risk exposures.

Leverage Ratio

The company is required to monitor and disclose its leverage ratio using the CRR's definition of exposure as amended by the European Commission Leverage Ratio Delegated Act. In November 2016, the European Commission proposed amendments to the CRR to implement a 3% minimum leverage ratio requirement for certain E.U. financial institutions, including the company. This leverage ratio compares the CRR's definition of Tier 1 capital to a measure of leverage exposure, defined as the sum of certain assets plus certain off-balance-sheet exposures (which include a measure of derivatives, securities financing transactions, commitments and guarantees), less Tier 1 capital deductions. Any required minimum leverage ratio is expected to become effective for the company no earlier than January 1, 2021.

The table below presents the company's leverage ratio under the CRR.

	As of	
	June	December
\$ in millions	2018	2017
Tier 1 capital	\$ 31,202	\$ 30,671
Leverage exposure	\$816,621	\$748,140
Leverage ratio	3.8%	4.1%

In the table above, the leverage ratio as of June 2018 included approximately 12 basis points attributable to the company's profit after foreseeable charges and dividends, for the six months ended June 2018. This represents the company's profit for the financial period reduced by foreseeable charges and dividends, divided by its leverage exposure. The leverage ratio as of June 2018 decreased compared with December 2017, primarily due to an increase in the company's leverage exposure. This leverage ratio is based on the company's current interpretation and understanding of this rule and may evolve as the interpretation and application of this rule is discussed with the company's regulators.

Regulatory Matters and Developments

The company's businesses are subject to significant and evolving regulation. Reforms have been adopted or are being considered by regulators and policy makers worldwide. The expectation is that the principal areas of impact from regulatory reform for the company will be increased regulatory capital requirements and increased regulation and restriction on certain activities. However, given that many of the new and proposed rules are highly complex, the full impact of regulatory reform will not be known until the rules are implemented and market practices develop under the final E.U. and/or U.K. regulations.

See "Regulatory Matters and Developments" in Part I of the 2017 Annual Report for further information about the laws, rules and regulations and proposed laws, rules and regulations that apply to the company and its operations.

Minimum Requirement for Own Funds and Eligible Liabilities

In June 2018, the Bank of England published a Statement of Policy on internal minimum requirement for own funds and eligible liabilities (MREL). The policy would require a material U.K. subsidiary of an overseas banking group, such as the company, to meet a minimum internal MREL requirement to facilitate the transfer of losses to a resolution entity, which for the company is Group Inc. The transitional minimum internal MREL requirement will phase in from January 1, 2019, becoming fully effective from January 1, 2022. The company expects that in addition to its current levels of regulatory capital, a portion of its intercompany borrowings amended as needed to meet the subordination, maturity and bail-in trigger requirements, will serve to meet its internal MREL requirement.

Principal Risks and Uncertainties

The company faces a variety of risks that are substantial and inherent in its businesses including market, liquidity, credit, operational, model, legal, regulatory, and reputational risks and uncertainties. Those risks and uncertainties are consistent with those described in the 2017 Annual Report.

Risk Management

Risks are inherent in the company's businesses and include liquidity, market, credit, operational, model, legal, compliance, conduct, regulatory and reputational risks. For further information about the company's risk management processes, see "Risk Management — Overview and Structure of Risk Management" in Part I of the 2017 Annual Report. The company's risks include the risks across its risk categories, regions or global businesses, as well as those which have uncertain outcomes and have the potential to materially impact the company's financial results, its liquidity and its reputation. For further information about the company's areas of risk, see "Liquidity Risk Management", "Market Risk Management", "Credit Risk Management", "Operational Risk Management", "Model Risk Management" below and "Principal Risks and Uncertainties" in Part I of the 2017 Annual Report.

Overview and Structure of Risk Management

Overview

The company believes that effective risk management is critical to its success. Accordingly, the company has established an enterprise risk management framework that employs a comprehensive, integrated approach to risk management, and is designed to enable comprehensive risk management processes through which the risks associated with the company's business are identified, assessed, monitored and managed. Together with the company's board of directors, an extensive cross-divisional committee structure representation from senior management of the company is the key to the risk management culture throughout the company. The company's risk management structure, consistent with GS Group, is built around three core components: governance; processes; and people. See "Risk Management — Overview and Structure of Risk Management" in Part I of the 2017 Annual Report for further details.

Liquidity Risk Management

Overview

Liquidity risk is the risk that the company will be unable to fund itself or meet its liquidity needs in the event of company-specific, broader industry or market liquidity stress events. Liquidity is of critical importance to the company, as most of the failures of financial institutions have occurred in large part due to insufficient liquidity. Accordingly, the company has in place a comprehensive and conservative set of liquidity and funding policies. The principal objective is to be able to fund the company and to enable the core businesses to continue to serve clients and generate revenues, even under adverse circumstances. See "Risk Management — Liquidity Risk Management" in Part I of the 2017 Annual Report for further information about the company's liquidity risk management process.

Global Core Liquid Assets. GCLA is liquidity that the company maintains to meet a broad range of potential cash outflows and collateral needs in a stressed environment. The company's most important liquidity policy 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 company 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 securities purchased under agreements to resell (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 company's GCLA is distributed across asset types, issuers and clearing agents to provide sufficient operating liquidity to ensure timely settlement in all major markets, even in a difficult funding environment.

Liquidity Stress Tests

In order to determine the appropriate size of the company's GCLA, an internal liquidity model is used, referred to as the Modeled Liquidity Outflow, which captures and quantifies the company's liquidity risks. Other factors are considered including, but not limited to, an assessment of potential intraday liquidity needs through an additional internal liquidity model, referred to as the Intraday Liquidity Model, the results of the company's long-term stress testing models, resolution liquidity models and other applicable regulatory requirements and a qualitative assessment of the condition of the company, as well as the financial markets. The results of the Modeled Liquidity Outflow, the Intraday Liquidity Model and the longterm stress testing models are reported to senior management on a regular basis. See "Risk Management — Liquidity Risk Management" in Part I of the 2017 Annual Report for further details.

GCLA

Based on the results of the company's internal liquidity risk models, described above, as well as consideration of other factors including, but not limited to, an assessment of the company's potential intraday liquidity needs and a qualitative assessment of the condition of the financial markets and the company, the company believes its liquidity position as of both June 2018 and December 2017 was appropriate. The company strictly limits its GCLA to a narrowly defined list of securities and cash because they are highly liquid, even in a difficult funding environment. The company does not include other potential sources of excess liquidity, such as less liquid unencumbered securities or committed credit facilities, in the GCLA.

The table below presents details about the company's average GCLA by asset class.

	Average for the			
	Three Months Ended			
	June	March 2018		
\$ in millions	2018			
Overnight cash deposits	\$25,187	\$18,874		
U.S. government obligations	17,208	17,059		
French government obligations	7,326	4,897		
U.K. government obligations	10,820	13,985		
German government obligations	7,074	7,044		
Japanese government obligations	2,496	2,317		
Total	\$70,111	\$64,176		

The minimum GCLA required is held by the company directly and is intended for use only by the company to meet its liquidity requirements, and is assumed not to be available to Group Inc. or Funding IHC. In addition to GCLA held in the company, GS Group holds a portion of global GCLA directly at Group Inc. or Funding IHC, which in some circumstances may be additionally provided to the company or other major subsidiaries.

Liquidity Regulatory Framework

The implementation of the Basel Committee's international framework for liquidity risk management, standards and monitoring calls for a liquidity coverage ratio (LCR) and a net stable funding ratio (NSFR).

The company is subject to a minimum LCR of 100% under the LCR rule approved by the U.K. regulatory authorities and the European Commission. The company's average monthly LCR for the trailing twelve-month period ended June 2018 exceeded the minimum requirement.

The NSFR is designed to promote medium- and long-term stable funding of the assets and off-balance-sheet activities of banking organisations over a one-year time horizon. In November 2016, the European Commission proposed amendments to the CRR to implement the NSFR for certain E.U. financial institutions. The NSFR would become effective two years after the amendments are incorporated into the CRR. The European Commission has not released a final rule.

The implementation of these rules, and any amendments adopted by the applicable regulatory authorities, could impact the company's liquidity and funding requirements and practices in the future.

Credit Ratings

The company relies on the debt capital markets to fund a portion of its day-to-day operations and the cost and availability of debt financing is influenced by its credit ratings and that of Group Inc's. Credit ratings are also important when the company is competing in certain markets, such as OTC derivatives, and when it seeks to engage in longer-term transactions. See "Principal Risks and Uncertainties — Liquidity" in Part I of the 2017 Annual Report for information about the risks associated with a reduction in the company's and/or Group Inc.'s credit rating.

The table below presents the unsecured credit ratings and outlook of the company and Group Inc. by Fitch, Inc. (Fitch), Moody's Investors Service (Moody's) and Standard & Poor's Ratings Services (S&P).

	As of June 2018			
	Fitch	Moody's	S&P	
GSI				
Short-term Debt	F1	P-1	A-1	
Long-term Debt	Α	A1	A+	
Ratings Outlook	Stable	Negative	Stable	
Group Inc.				
Short-term Debt	F1	P-2	A-2	
Long-term Debt	Α	А3	BBB+	
Subordinated Debt	A-	Baa2	BBB-	
Trust Preferred	BBB-	Baa3	ВВ	
Preferred Stock	BB+	Ba1	ВВ	
Ratings Outlook	Stable	Stable	Stable	

Certain of the company's derivatives have been transacted under bilateral agreements with counterparties who may require the company to post collateral or terminate the transactions based on changes in the credit ratings of either the company and/or Group Inc. The company assesses the impact of these bilateral agreements by determining the collateral or termination payments that would occur assuming a downgrade by all rating agencies of both Group Inc. and the company's simultaneously and of each entity individually.

The table below presents the additional collateral or termination payments related to the company's net derivative liabilities under bilateral agreements that could have been called by counterparties in the event of a one-notch and two-notch downgrade in Group Inc.'s and/or the company's credit ratings.

	As	of
	June	December
\$ in millions	2018	2017
Additional collateral or termination payments:		
One-notch downgrade	\$ 90	\$ 134
Two-notch downgrade	\$385	\$1,370

Market Risk Management

Overview

Market risk is the risk of loss in the value of the company's inventory, as well as certain other financial assets and financial liabilities, due to changes in market conditions. The company employs a variety of risk measures, each described in the respective sections below, to monitor market risk. Categories of market risk include the following:

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

See "Risk Management — Market Risk Management" in Part I of the 2017 Annual Report for further information about the company's market risk management process.

Value-at-Risk. Value-at-Risk (VaR) is the potential loss in value due to adverse market movements over a defined time horizon with a specified confidence level. A one-day time horizon with a 95% confidence level is typically employed. The VaR model is a single model that captures risks including 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 company. See "Risk Management — Market Risk Management" in Part I of the 2017 Annual Report for further details.

Metrics

The tables below present average daily VaR and period-end VaR, as well as the high and low VaR for the period. Diversification effect in the tables below represents the difference between total VaR and the sum of the VaRs for the four risk categories. This effect arises because the four market risk categories are not perfectly correlated.

The table below presents average daily VaR by risk category.

				Six Mor	nths
	Three M	Ionths Ende	ed	Ended .	lune
·-	June	March	June		
\$ in millions	2018	2018	2017	2018	2017
Interest rates	\$ 22	\$ 24	\$ 23	\$ 23	\$ 24
Equity prices	20	20	17	20	17
Currency rates	10	10	8	10	9
Commodity prices	1	1	2	1	3
Diversification effect	(21)	(20)	(22)	(21)	(24)
Total	\$ 32	\$ 35	\$ 28	\$ 33	\$ 29

The company's average daily VaR decreased to \$32 million for the second quarter of 2018 from \$35 million for the first quarter of 2018, primarily due to a decrease in the interest rates category due to decreased exposures.

The company's average daily VaR increased to \$32 million for the second quarter of 2018 from \$28 million for the second quarter of 2017, primarily due to an increase in the equity prices category due to increased exposures and higher levels of volatility.

The company's average daily VaR increased to \$33 million for the six months ended June 2018 from \$29 million for the six months ended June 2017, primarily due to an increase in the equity prices category due to higher levels of volatility.

The table below presents period-end VaR by risk category.

	As of		
	June	March	June
\$ in millions	2018	2018	2017
Interest rates	\$ 25	\$ 25	\$ 21
Equity prices	23	20	17
Currency rates	8	7	7
Commodity prices	1	_	1
Diversification effect	(21)	(19)	(20)
Total	\$ 36	\$ 33	\$ 26

The company's daily VaR increased to \$36 million as of June 2018 from \$33 million as of March 2018, primarily due to an increase in the equity prices category due to increased exposures and higher levels of volatility.

The company's daily VaR increased to \$36 million as of June 2018 from \$26 million as of June 2017, primarily due to increases in the equity prices and interest rates categories due to increased exposures and higher levels of volatility.

The table below presents high and low VaR by risk category.

	Three Months June 20		Three Months June 20	
\$ in millions	High	Low	High	Low
Interest rates	\$25	\$19	\$26	\$19
Equity prices	\$25	\$16	\$26	\$13
Currency rates	\$20	\$ 6	\$13	\$ 4
Commodity prices	\$ 5	\$ -	\$ 5	\$ 1

The high and low total VaR was \$38 million and \$29 million, respectively, for the three months ended June 2018 and \$37 million and \$24 million, respectively, for the three months ended June 2017.

Sensitivity Measures

Certain portfolios and individual positions are not included in VaR because VaR is not the most appropriate risk measure for these positions.

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 \$40.5 million, \$47.3 million and \$10.7 million as of June 2018, March 2018 and June 2017, respectively.

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 company holds. The company's exposure to credit risk comes mostly from 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 debtors. In addition, the company holds other positions that give rise to credit risk (e.g., bonds held in inventory) — these credit risks are captured as a component of market risk measures, which are monitored and managed by Market Risk Management, consistent with other inventory positions. See "Risk Management — Credit Risk Management" in Part I of the 2017 Annual Report for further information about the company's credit risk management process.

Credit Exposures

The company's credit exposures are described further below.

Financial Instruments Owned. Financial instruments owned includes cash instruments and derivatives. In the table below cash instruments are included in the gross exposure; however, to the extent that they have been captured by market risk they are removed to arrive at net credit exposure. Derivatives are reported at fair value on a gross by counterparty basis in the company's financial statements unless it has a current legal right of set-off and also intends to settle on a net basis. OTC derivatives are risk managed using the risk processes, measures and limits described above, and in more detail in "Risk Management — Credit Risk Management" in Part I of the 2017 Annual Report.

Collateralised Agreements. The company bears credit risk related to collateralised agreements only to the extent that cash advanced to the counterparty exceeds the value of the collateral received. The company's credit exposure on these transactions is therefore significantly lower than the amounts recorded in the balance sheet, which represent fair values or contractual value before consideration of collateral received. The company also has credit exposure on collateralised financings, which are liabilities on its balance sheet, to the extent that the value of collateral pledged to the counterparty for these transactions exceeds the amount of cash or collateral received.

Debtors. The company is exposed to credit risk from its debtors through its amounts due from broker/dealers and customers; and amounts due from parent and group undertakings. These primarily consist of receivables related to cash collateral paid to counterparties and clearing organisations in respect of derivative financial instrument liabilities. Debtors also includes collateralised receivables related to customer securities transactions, which generally have minimal credit risk due to both the value of the collateral received and the short-term nature of these receivables.

Cash at Bank and in Hand. Cash at bank and in hand include both interest-bearing and non-interest-bearing deposits. To mitigate the risk of credit loss, the company places substantially all of its deposits with highly-rated banks and central banks.

The tables below present the company's gross credit exposure to financial assets and net credit exposure after taking account of assets captured by market risk in the company's risk management process, counterparty netting (i.e., the netting of financial assets and financial 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 cash collateral posted under credit support agreements, which management considers when determining credit risk.

The table below presents a summary of the company's gross credit exposure and net credit exposure by financial asset class.

	Financial			Cash at	
	instruments	Collateralised		bank and	
\$ in millions	owned	agreements	Debtors	in hand	Total
As of June 2018					
Gross credit					
exposure	\$ 651,385	\$ 213,083	\$ 76,097	\$37,638	\$ 978,203
Assets captured by					
market risk	(79,458)	_	_	_	(79,458)
Counterparty					
netting	(499,465)	(88,410)	(6,365)	_	(594,240)
Cash collateral	(35,928)	_	(33,752)	_	(69,680)
Security collateral					
received	(16,163)	(122,243)	(8,556)	_	(146,962)
Net credit exposure	\$ 20,371	\$ 2,430	\$ 27,424	\$37,638	\$ 87,863
Net credit exposure	\$ 20,371	\$ 2,430	\$ 27,424	\$37,638	\$ 87,863
Net credit exposure As of December 2017	\$ 20,371	\$ 2,430	\$ 27,424	\$37,638	\$ 87,863
	\$ 20,371	\$ 2,430	\$ 27,424	\$37,638	\$ 87,863
As of December 2017	\$ 20,371 \$ 640,264	, , , , ,			
As of December 2017 Gross credit		, , , ,			
As of December 2017 Gross credit exposure		\$ 204,820			
As of December 2017 Gross credit exposure Assets captured by	\$ 640,264	\$ 204,820			\$ 939,189
As of December 2017 Gross credit exposure Assets captured by market risk	\$ 640,264	\$ 204,820	\$ 73,378	\$20,727	\$ 939,189
As of December 2017 Gross credit exposure Assets captured by market risk Counterparty	\$ 640,264 (70,293)	\$ 204,820 	\$ 73,378	\$20,727	\$ 939,189
As of December 2017 Gross credit exposure Assets captured by market risk Counterparty netting	\$ 640,264 (70,293) (497,178)	\$ 204,820 	\$ 73,378	\$20,727	\$ 939,189 (70,293) (586,194)
As of December 2017 Gross credit exposure Assets captured by market risk Counterparty netting Cash collateral	\$ 640,264 (70,293) (497,178)	\$ 204,820	\$ 73,378	\$20,727	\$ 939,189 (70,293) (586,194)

The tables below presents the company's gross credit exposure and net credit exposure by the company's internally determined public rating agency equivalents.

Investment-Grade

\$ in millions	AAA	AA	Α	BBB	Total
As of June 2018					
Gross credit exposure	\$32,711	\$ 91,176	\$ 620,539	\$104,937	\$ 849,363
Counterparty netting	(2,584)	(39,853)	(481,785)	(55,101)	(579,323)
Cash collateral	(2,940)	(14,971)	(25,496)	(17,904)	(61,311)
Security collateral					
received	(790)	(16,424)	(91,233)	(22,079)	(130,526)
Net credit exposure	\$26,397	\$ 19,928	\$ 22,025	\$ 9,853	\$ 78,203
As of December 2017					
Gross credit exposure	\$19,282	\$111,588	\$ 601,039	\$ 90,579	\$ 822,488
Counterparty netting	(1,864)	(44,356)	(479,051)	(47,942)	(573,213)
Cash collateral	(2,535)	(16,676)	(30,177)	(17,230)	(66,618)
Security collateral					
received	(1,025)	(32,436)	(74,149)	(15,764)	(123,374)
Net credit exposure	\$13,858	\$ 18,120	\$ 17,662	\$ 9,643	\$ 59,283
		1	Non-Investme	ent-Grade /	Unrated
\$ in millions		BB	or lower	Unrated	Total
As of June 2018			•		

Gross credit exposure	\$ 45,640	\$ 83,200	\$128,840
Assets captured by market risk	-	(79,458)	(79,458)
Counterparty netting	(14,854)	(63)	(14,917)
Cash collateral	(8,347)	(22)	(8,369)
Security collateral received	(16,314)	(122)	(16,436)
Net credit exposure	\$ 6,125	\$ 3,535	\$ 9,660
As of December 2017 Gross credit exposure	\$ 43,729	\$ 72,972	\$116,701
	\$ 43,729		
Assets captured by market risk	_	(70,293)	(70,293)
Counterparty netting	(12,920)	(61)	(12,981)
Cash collateral	(7,895)	(32)	(7,927)
0 '4 11 4 1 1 1	······		
Security collateral received	(16,532)	(272)	(16,804)

In the table above, the unrated net credit exposure of \$3.54 billion and \$2.31 billion as of June 2018 and December 2017, respectively, relates to financial assets for which the company has not assigned an internally determined public rating agency equivalent.

In addition to credit risk on financial assets, the company also has credit exposure in respect of contingent and forward starting collateralised agreements. The company's gross credit exposure related to these activities is \$48.20 billion and \$58.76 billion as of June 2018 and December 2017, respectively. However, this will be mitigated by collateral of approximately \$48.00 billion and \$58.39 billion as of June 2018 and December 2017, respectively, if these commitments are fulfilled. As a result, the company's net credit exposure to these commitments was \$198 million and \$368 million as of June 2018 and December 2017, respectively.

As of June 2018 and December 2017, expected credit losses on financial assets, as calculated in accordance with IFRS 9 'Financial Instruments', were not material.

Operational Risk Management

Overview

Operational risk is the risk of an adverse outcome resulting from inadequate or failed internal processes, people, systems or from external events. Exposure to operational risk arises from routine processing errors, as well as extraordinary incidents, such as major systems failures or legal and regulatory matters.

See "Risk Management — Operational Risk Management" in Part I of the 2017 Annual Report for further information about the company's operational risk management process.

Model Risk Management

Overview

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

See "Risk Management — Model Risk Management" in Part I of the 2017 Annual Report for further information about the company's model risk management process.

Directors

I. Ealet resigned from the board of directors on June 20, 2018.

S. A. Boyle was appointed to the board of directors on July 20, 2018 and E. E. Stecher, T. L. Miller OBE and K. Pantazopoulos were appointed to the board of directors on July 31, 2018.

There were no other changes in the directorship of the company between the date of issue of this financial report and the 2017 Annual Report.

Responsibility Statement

The financial statements have been prepared in accordance with FRS 104 'Interim Financial Reporting' and the interim management report herein includes a fair review of the information required by 4.2.7R of the FCA's Disclosure and Transparency Rules.

Dufme

D. W. McDonogh Director August 9, 2018

Unaudited Financial Statements

GOLDMAN SACHS INTERNATIONAL (UNLIMITED COMPANY)

Profit and Loss Account (Unaudited)

		Three I	Months .	Six Months	
		Ended	l June	Ended	d June
\$ in millions	Note	2018	2017	2018	2017
Net revenues	4	\$ 2,146	\$ 1,646	\$ 4,546	\$ 3,279
Administrative expenses		(1,248)	(1,172)	(2,852)	(2,129)
Operating profit		898	474	1,694	1,150
Interest payable and similar expenses		(64)	(93)	(125)	(186)
Net finance income		3	1	5	2
Profit before taxation		837	382	1,574	966
Tax on profit	5	(204)	(95)	(402)	(251)
Profit for the financial period		\$ 633	\$ 287	\$ 1,172	\$ 715

Net revenues and operating profit of the company are derived from continuing operations in the current and prior periods.

Statements of Comprehensive Income (Unaudited)

		Three Months Ended June		Six Mon Ended J			
\$ in millions	Note	2018		2017	2018		2017
Profit for the financial period		\$ 633	\$	287	\$ 1,172	\$	715
Other comprehensive income							
Items that will not be reclassified subsequently to profit or loss							
Actuarial loss relating to the pension scheme		(60)		(165)	(13)		(150)
Debt valuation adjustment	10	 204		(69)	308	•••••	(120)
U.K. deferred tax attributable to the components of other comprehensive income		 (39)		59	(78)	•••••	68
Other comprehensive income/(loss) for the financial period, net of tax		105		(175)	217		(202)
Total comprehensive income for the financial period		\$ 738	\$	112	\$ 1,389	\$	513

Balance Sheet (Unaudited)

		As of		
		June	December	
\$ in millions	Note	2018	2017	
Fixed assets		\$ 270	\$ 210	
Current assets				
Financial instruments owned (includes \$29,587 and \$24,178 pledged as collateral)	6	651,385	640,264	
Collateralised agreements	7	213,083	204,820	
Debtors	8	76,522	74,052	
Cash at bank and in hand		37,638	20,727	
		978,628	939,863	
Creditors: amounts falling due within one year				
Financial instruments sold, but not yet purchased	6	(593,891)	(589,922)	
Collateralised financings	9	(162,642)	(158,069	
Other creditors	10	(107,656)	(103,584	
		(864,189)	(851,575	
Net current assets		114,439	88,288	
Total assets less current liabilities		114,709	88,498	
Creditors: amounts falling due after more than one year				
Collateralised financings	9	(16,886)	(17,378)	
Other creditors	10	(65,075)	(39,730	
		(81,961)	(57,108	
Provisions for liabilities	11	(12)	(10	
Net assets excluding pension surplus		32,736	31,380	
Pension surplus		349	321	
Net assets including pension surplus		\$ 33,085	\$ 31,701	
Capital and reserves				
Called up share capital	12	\$ 582	\$ 582	
Share premium account		4,864	4,864	
Capital reserve (non-distributable)		-	17	
Profit and loss account		21,911	20,727	
Accumulated other comprehensive income	·····	(72)	(289	
Other equity instruments	13	5,800	5,800	
Total shareholder's funds	-	\$ 33,085	\$ 31,701	

GOLDMAN SACHS INTERNATIONAL (UNLIMITED COMPANY) **Statements of Changes in Equity** (Unaudited)

		Six Mor	nths
		Ended J	lune
\$ in millions	Note	2018	2017
Called up share capital			
Beginning balance		\$ 582	\$ 582
Shares issued	12	17	_
Shares cancelled	12	(17)	_
Ending balance		582	582
Share premium account			
Beginning balance		4,864	4,864
Ending balance		4,864	4,864
Capital reserve (non-distributable)			
Beginning balance		17	17
Subscription for shares	12	(17)	_
Ending balance		`-	17
Profit and loss account			
Beginning balance		20,727	22,316
Cumulative effect on retained earnings due to adoption of IFRS 15, net of tax		(5)	_
Profit for the financial period		1,172	715
Cancellation of shares	12	17	_
Interim dividends paid		_	(3,000)
Share-based payments		347	308
Management recharge related to share-based payments		(347)	(308)
Ending balance		21,911	20,031
Accumulated other comprehensive income			
Beginning balance		(289)	(246)
Other comprehensive income/(loss)		217	(202)
Ending balance		(72)	(448)
Other equity instruments			
Beginning balance		5,800	5,800
Ending balance		5,800	5,800
Total shareholder's funds		\$33,085	\$30,846

GOLDMAN SACHS INTERNATIONAL (UNLIMITED COMPANY)

Statements of Cash Flows (Unaudited)

		Six Mo	onths
		Ended	June
\$ in millions	Note	2018	2017
Cash flows from operating activities			
Cash generated from operations	15	\$17,983	\$13,754
Taxation received		1	_
Taxation paid		(85)	(297)
Net cash from operating activities		17,899	13,457
Cash flows from investing activities			
Capital expenditure for fixed assets		(89)	(48)
Net cash used in investing activities		(89)	(48)
Cash flows from financing activities			
Receipts from issuing Additional Tier 1 notes		_	5,800
Interim dividends paid		_	(3,000)
Repayment of long-term subordinated loans		_	(3,581)
Interest paid on long-term subordinated loans		(29)	(449)
Net cash used in financing activities		(29)	(1,230)
Net increase in cash and cash equivalents		17,781	12,179
Cash and cash equivalents, beginning balance		20,654	16,881
Foreign exchange gains/(losses) on cash and cash equivalents		(887)	710
Cash and cash equivalents, ending balance	14	\$37,548	\$29,770

Non-cash activities during the six months ended June 2018:

[•] The company allotted 17.3 million ordinary shares of \$1 each to Goldman Sachs Group UK Limited and subsequently cancelled 17.3 million ordinary shares. Both transactions were for nil consideration. See Note 12 for further information.

Note 1.

General Information

The company is a private unlimited company and is incorporated and domiciled in England and Wales. The address of its registered office is Peterborough Court, 133 Fleet Street, London, EC4A 2BB, United Kingdom.

The company's immediate parent undertaking is Goldman Sachs Group UK Limited (GSG UK), a company incorporated and domiciled in England and Wales. GSG UK together with its consolidated subsidiaries form "GSG UK Group".

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/shareholders/.

Note 2.

Summary of Significant Accounting Policies

Basis of Preparation

The company prepares financial statements under U.K. GAAP. These financial statements have been prepared in accordance with the Disclosure and Transparency Rules of the FCA and FRS 104 'Interim Financial Reporting' (FRS 104). These financial statements should be read in conjunction with the 2017 Annual Report, which has been prepared in accordance with FRS 101 'Reduced Disclosure Framework'.

Accounting Policies

The accounting policies and applicable disclosure exemptions applied are consistent with those described in the 2017 Annual Report, except for the adoption of new accounting standards effective as of January 1, 2018. As required by FRS 104, the nature and effect of these changes are set out below.

IFRS 9 'Financial Instruments'

From January 1, 2018, the company adopted the remaining provisions of IFRS 9 'Financial Instruments' (IFRS 9), having early adopted the requirements related to changes in the fair value of financial liabilities attributable to own credit spreads (debt valuation adjustment or DVA) effective from January 1, 2016. As permitted by IFRS 9, the company continues to apply the hedge accounting requirements of IAS 39 'Financial Instruments: Recognition and Measurement' (IAS 39).

The remaining provisions of IFRS 9 adopted by the company related to classification and measurement and impairment. As permitted by the transitional provisions of IFRS 9, the company has elected to not restate comparative figures. There was no change to the carrying value of the company's financial assets and financial liabilities at the date of transition.

Classification and Measurement. IFRS 9 introduces a principles-based approach to the classification of financial assets, resulting in the following categories: fair value through profit or loss; fair value through other comprehensive income; and amortised cost.

IFRS 9 requires debt assets to be classified based on a combination of the company's business models and the nature of the assets' cash flows.

The table below presents the measurement categories and the carrying amounts of financial assets in accordance with IFRS 9 and IAS 39 as of January 1, 2018. As a result of the adoption of IFRS 9, the company reclassified \$1.82 billion of collateralised agreements from fair value through profit or loss to amortised cost as of January 1, 2018.

		IFRS 9	
	Mandatorily	Amortised	
\$ in millions	at fair value	cost	Total
As of January 1, 2018			
Financial instruments owned	\$640,264	\$ -	\$640,264
Collateralised agreements	138,545	66,275	204,820
Debtors	653	72,725	73,378
Cash at bank and in hand	-	20,727	20,727
Total financial assets	\$779,462	\$159,727	\$939,189

	IAS 39			
·	Held for	Designated	Loans and	
\$ in millions	Trading	at fair value	Receivables	Total
As of January 1, 2018				
Financial instruments owned	\$640,264	\$ -	\$ -	\$640,264
Collateralised agreements	-	140,360	64,460	204,820
Debtors	-	653	72,725	73,378
Cash at bank and in hand	-	-	20,727	20,727
Total financial assets	\$640,264	\$141,013	\$157,912	\$939,189

The company's classification and measurement of financial liabilities remained unchanged on adoption of IFRS 9.

Impairment. IFRS 9 changes the impairment methodology for applicable financial assets, replacing the incurred loss model of IAS 39 with a forward-looking expected credit loss (ECL) approach.

The company is required to assess expected losses based on the probability of default in the next twelve months, unless there has been a significant increase in credit risk since origination, in which case, the expected credit loss is based on the probability of default over the life of the asset.

The company has developed and tested an impairment model that complies with the key requirements of IFRS 9. No significant change was noted in the credit losses recorded as a result of adopting IFRS 9.

IFRS 15 'Revenue from Contracts with Customers'

From January 1, 2018, the company adopted IFRS 15 under the cumulative effect transition approach. This standard, as amended, provides comprehensive guidance on the recognition of revenue from customers arising from the transfer of goods and services, guidance on accounting for certain contract costs, and new disclosures.

As a result of adopting this standard, the company will delay recognition of non-refundable and milestone payments on financial advisory assignments until the assignments are completed. The cumulative effect of adopting this standard on January 1, 2018 was a decrease in retained earnings of \$5 million (net of tax).

The company also prospectively changed the presentation of certain costs from a net presentation within net revenues to a gross basis, resulting in an increase in both net revenues and administrative expenses by \$109 million for the three months ended June 2018 and by \$231 million for the six months ended June 2018, in comparison to the company's past presentation.

Presentation Changes

The company retrospectively changed the presentation of certain of its secured borrowings in its 2017 Annual Report to reclassify such balances from other creditors to collateralised financings. As a result, where relevant, comparatives in Notes 15 and 18 for the six months ended June 2017 have been updated to reflect this change.

Note 3.

Critical Accounting Estimates and Judgements

The critical accounting estimates and judgements are consistent with those described in the 2017 Annual Report with the exception of the below.

Estimated Year-End Discretionary Compensation

A substantial portion of the company's compensation and benefits represents discretionary compensation, which is finalised at year-end. The company believes the most appropriate way to allocate estimated annual discretionary compensation among interim periods is in proportion to the net revenues earned in such periods.

Note 4.

Segment Reporting

The company reports its activities in the following four business segments: Investment Banking; Institutional Client Services; Investing & Lending; and Investment Management. See "Results of Operations — Segment Reporting" in Part I of this financial report for a description of the company's segments.

Basis of Preparation

The basis of preparation of the company's segment reporting is consistent with that described in the 2017 Annual Report.

Segment Net Revenues

See "Results of Operations — Segment Reporting" in Part I of this financial report for the company's segment net revenues.

Segment Operating Profit

The table below presents the operating profit of the company's significant segments.

	Three Months			Six Months		าร		
		Ended	d Jur	ne	Ended Jun		ne	
\$ in millions		2018		2017		2018		2017
Investment Banking								
Net revenues	\$	390	\$	330	\$	778	\$	594
Administrative expenses		(308)		(243)		(679)		(415)
Operating profit	\$	82	\$	87	\$	99	\$	179
Institutional Client Services								
Net revenues	\$	1,366	\$ 1	1,067	\$:	3,007	\$	2,151
Administrative expenses		(820)		(813)	(1,781)	(1,465)
Operating profit	\$	546	\$	254	\$ '	1,226	\$	686
Total net revenues	\$	2,146	\$ -	1,646	\$ 4	4,546	\$	3,279
Total administrative expenses	(1,248)	(1,172)	(2	2,852)	(2,129)
Total operating profit	\$	898	\$	474	\$ '	1,694	\$	1,150

In the table above:

- Total net revenues included net revenues of \$390 million and \$249 million for the three months ended June 2018 and June 2017, respectively, and net revenues of \$761 million and \$534 million for the six months ended June 2018 and June 2017, respectively, related to Investing & Lending and Investment Management.
- Total administrative expenses included administrative expenses of \$241 million and \$145 million for the three months ended June 2018 and June 2017, respectively, and administrative expenses of \$455 million and \$300 million for the six months ended June 2018 and June 2017, respectively, related to Investing & Lending and Investment Management segments. Total administrative expenses includes a credit of \$121 million and a credit of \$29 million for the three months ended June 2018 and June 2017, respectively, and a credit of \$63 million and a credit of \$51 million for the six months ended June 2018 and June 2017, respectively, relating to the mark-to-market of share-based compensation that has not been allocated to the company's segments.

Segment Assets

Substantially all of the company's assets are attributable to Institutional Client Services.

Note 5.

Tax on Profit

The table below presents the company's analysis of tax on profit.

	Three Months Ended June		Six Months Ended June	
\$ in millions	2018	2017	2018	2017
Current tax				
U.K. corporation tax	\$164	\$46	\$192	\$ 46
Overseas taxation	44	42	61	45
Total current tax	208	88	253	91
Deferred tax				
Origination and reversal of				
temporary differences	(4)	7	149	160
Total deferred tax	(4)	7	149	160
Total tax on profit	\$204	\$95	\$402	\$251

Note 6.

Financial Instruments Owned and Financial Instruments Sold, But Not Yet Purchased

Financial instruments owned and financial instruments sold, but not yet purchased consist of financial instruments and investments within the operating activities of the company. Financial instruments owned includes financial instruments owned pledged as collateral.

The table below presents the company's financial instruments owned.

	As of		
	June	December	
\$ in millions	2018	2017	
Cash instruments			
Money market instruments	\$ 287	\$ 434	
Government and agency obligations	25,532	21,095	
Mortgage and other asset-backed loans			
and securities	728	641	
Corporate debt instruments	16,526	15,535	
Equity securities	41,679	35,944	
Commodities	147	406	
Total cash instruments	84,899	74,055	
Derivative instruments			
Interest rates	345,647	356,901	
Credit	27,240	30,158	
Currencies	121,059	108,600	
Commodities	11,561	11,222	
Equities	60,979	59,328	
Total derivative instruments	566,486	566,209	
Total financial instruments owned	\$651,385	\$640,264	

The table below presents the company's financial instruments sold, but not yet purchased.

	As of		
	June	December	
\$ in millions	2018	2017	
Cash instruments			
Government and agency obligations	\$ 19,551	\$ 13,055	
Corporate debt instruments	2,966	2,406	
Equity securities	21,582	18,335	
Commodities	-	3	
Total cash instruments	44,099	33,799	
Derivative instruments			
Interest rates	337,544	348,980	
Credit	24,103	28,106	
Currencies	120,075	110,955	
Commodities	11,414	11,218	
Equities	56,656	56,864	
Total derivative instruments	549,792	556,123	
Total financial instruments sold, but not yet			
purchased	\$593,891	\$589,922	

In the tables above:

- Corporate debt instruments includes corporate loans, debt securities and other debt obligations.
- Equity securities includes public and private equities, exchange-traded funds and convertible debentures.

Note 7.

Collateralised Agreements

The table below presents the company's collateralised agreements.

	As	As of		
	June	December		
\$ in millions	2018	2017		
Resale agreements	\$118,462	\$122,539		
Securities borrowed	94,621	82,281		
Total collateralised agreements	\$213,083	\$204,820		

In the table above:

- Total collateralised agreements included amounts due from group undertakings of \$138.58 billion and \$119.51 billion as of June 2018 and December 2017, respectively.
- Total collateralised agreements included balances due in more than one year of \$1.01 billion and \$522 million as of June 2018 and December 2017, respectively.

Note 8.

Debtors

The table below presents the company's debtors balances. All debtors are due within one year of the balance sheet date, unless noted below.

_	As of	
	June	December
\$ in millions	2018	2017
Amounts due from broker/dealers and customers	\$59,095	\$62,988
Amounts due from parent and group undertakings	16,995	10,386
Deferred tax	348	575
Other debtors	38	34
Prepayments and accrued income	46	69
Total debtors	\$76,522	\$74,052

In the table above:

- Amounts due from broker/dealers and customers included balances due in more than one year relating to prepaid commodity contracts of \$6 million and \$44 million as of June 2018 and December 2017, respectively.
- Total debtors included financial assets of \$76.10 billion and \$73.38 billion as of June 2018 and December 2017, respectively, and non-financial assets of \$425 million and \$674 million as of June 2018 and December 2017, respectively.

Note 9.

Collateralised Financings

The table below presents the company's collateralised financings.

	As of		
	June	December	
\$ in millions	2018	2017	
Amounts falling due within one year			
Repurchase agreements	\$ 89,458	\$ 98,892	
Securities loaned	67,208	56,038	
Intercompany loans	1,200	_	
Debt securities issued	2,893	1,253	
Other borrowings	1,883	1,886	
Total	\$162,642	\$158,069	
Amounts falling due after more than one year			
Repurchase agreements	\$ 10,840	\$ 11,226	
Securities loaned	1,509	2,063	
Debt securities issued	267	405	
Other borrowings	4,270	3,684	
Total	\$ 16,886	\$ 17,378	
Total collateralised financings	\$179,528	\$175,447	

In the table above:

- Repurchase agreements falling due after more than one year included instruments that are repayable in more than five years of \$79 million and \$83 million as of June 2018 and December 2017, respectively, which had maturities falling due in 2030.
- Debt securities issued and other borrowings falling due after more than one year included instruments that are repayable in more than five years of \$2.09 billion and \$1.30 billion as of June 2018 and December 2017, respectively. As of June 2018, these instruments have maturities falling due between 2023 and 2040. Payments on these instruments are typically referenced to underlying financial assets, which are predominately interest rates, equities and credit-related.
- Total collateralised financings included amounts due to group undertakings of \$115.97 billion and \$120.36 billion as of June 2018 and December 2017, respectively, of which \$111.31 billion and \$116.40 billion as of June 2018 and December 2017, respectively, are due within one year.
- Debt securities issued and other borrowings are secured by securities which have been pledged as collateral. This pledged collateral is either recognised within financial instruments owned or sourced through collateralised agreements.

Intercompany Loans

Intercompany loans falling due within one year as of June 2018 increased compared with December 2017, reflecting an increase in secured borrowings of \$1.20 billion due to new proceeds of \$1.71 billion, partially offset by repayments of \$505 million.

Note 10.

Other Creditors

The table below presents the company's other creditors.

	As of		
	June	December	
\$ in millions	2018	2017	
Amounts falling due within one year			
Unsecured borrowings	\$ 29,112	\$ 27,544	
Amounts due to broker/dealers and customers	61,708	57,675	
Amounts due to parent and group undertaking:	•••••		
Other unsecured creditors	14,531	16,210	
Share-based compensation	483	702	
Corporation tax payable	197	66	
Other taxes and social security costs	242	301	
Other creditors and accruals	1,383	1,086	
Total	\$107,656	\$103,584	
Amounts falling due after more than one year			
Unsecured borrowings	\$ 64,670	\$ 38,924	
Amounts due to parent and group undertakings:			
Other unsecured creditors	32	44	
Share-based compensation	308	697	
Other creditors	65	65	
Total	\$ 65,075	\$ 39,730	
Total other creditors	\$172,731	\$143,314	

In the table above, amounts falling due within one year included financial liabilities of \$107.22 billion and \$103.22 billion as of June 2018 and December 2017, respectively, and non-financial liabilities of \$439 million and \$367 million as of June 2018 and December 2017, respectively. All amounts falling due after more than one year are financial liabilities as of both June 2018 and December 2017.

Unsecured Borrowings

The table below presents the company's unsecured borrowings.

	As of		
-	June	December	
\$ in millions	2018	2017	
Intercompany			
Loans	\$20,679	\$20,276	
Other borrowings	886	779	
Short-term intercompany unsecured borrowings	21,565	21,055	
Loans	39,456	14,920	
Subordinated loans	5,377	5,377	
Other borrowings	1,337	1,800	
Long-term intercompany unsecured borrowings	46,170	22,097	
Total intercompany unsecured borrowings	\$67,735	\$43,152	
External			
Overdrafts	\$ 90	\$ 73	
Debt securities issued	6,842	5,329	
Other borrowings	615	1,087	
Short-term external unsecured borrowings	7,547	6,489	
Bank loans	170	170	
Debt securities issued	18,084	16,411	
Other borrowings	246	246	
Long-term external unsecured borrowings	18,500	16,827	
Total external unsecured borrowings	\$26,047	\$23,316	
Total unsecured borrowings	\$93,782	\$66,468	

In the table above:

- Debt securities issued and other borrowings falling due after more than one year included instruments that are repayable in more than five years of \$10.49 billion and \$9.46 billion as of June 2018 and December 2017, respectively. As of June 2018, these instruments have maturities falling due between 2023 and 2057. Payments on these instruments are typically referenced to underlying financial assets, which are predominately interest rates and equities-related.
- Intercompany loans falling due after more than one year included loans that are repayable in more than five years. As of June 2018, the company had variable rate loans of \$1.01 billion with maturities falling due between April 8, 2024 and April 7, 2028. As of December 2017, the company had variable rate loans of \$1.21 billion with maturities falling due between February 8, 2023 and December 22, 2027.

Debt Valuation Adjustment

The company calculates the fair value of debt securities issued 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 details about the net DVA gains/ (losses) on such financial liabilities.

	Three N	Three Months		onths
	Ended June		Ended	June
\$ in millions	2018	2017	2018	2017
DVA	\$204	\$(69)	\$308	\$(120)

In the table above, DVA is included in debt valuation adjustment in other comprehensive income.

Long-Term Subordinated Loans

Long-term subordinated loans consist of long-term subordinated loans from parent and group undertakings, which are unsecured and carry interest at a margin over the U.S. Federal Reserve's Federal Funds rate. The margin is reset on a periodic basis to reflect changes in GS Group's weighted average cost of debt. Long-term subordinated loans constitute regulatory capital as approved by the PRA, subject to any regulatory capital deductions, and are repayable subject to PRA approval. Long term subordinated loans of \$5.38 billion are repayable between December 26, 2024 and September 9, 2025.

Intercompany Loans

Intercompany loans falling due within one year as of June 2018 increased compared with December 2017, reflecting an increase in unsecured borrowings of \$403 million due to new proceeds of \$1.22 billion, partially offset by repayments of \$529 million and borrowings of \$287 million being extended to long-term.

Intercompany loans falling due after more than one year as of June 2018 increased compared with December 2017, reflecting an increase in unsecured borrowings of \$24.54 billion due to new proceeds of \$33.06 billion and borrowings of \$287 million being extended from short-term, partially offset by repayments of \$8.81 billion.

Note 11.

Provisions for Liabilities

The table below presents the company's provisions for liabilities, which are in respect of certain legal claims made against the company.

\$ in millions	2018
As of January 1	\$10
Charge to the profit and loss account	2
As of June 30	\$12

Further details relating to the provisions have not been disclosed as permitted by IAS 37 'Provisions, Contingent Liabilities and Contingent Assets', on the grounds that it would be seriously prejudicial to do so.

Note 12.

Share Capital

The table below presents the company's share capital.

	Ordinary shares	
Allotted, called up and fully paid	of \$1 each	\$ in millions
As of January 1, 2018	581,964,161	\$582
Allotted during the period	17,300,000	17
Cancelled during the period	(17,300,000)	(17)
As of June 30, 2018	581,964,161	\$582

In order to simplify the company's capital structure, on May 10, 2018, the company allotted 17.3 million ordinary shares of \$1 each to GSG UK for nil consideration. The company subsequently cancelled 17.3 million ordinary shares for nil consideration, resulting in a reduction in the company's non-distributable capital reserve by \$17.3 million and increase in its profit and loss account in shareholder's funds by \$17.3 million.

Note 13.

Other Equity Instruments

Other equity instruments consist of 5,800 unsecured Additional Tier 1 notes (AT1 notes) of \$1 million each issued to GSG UK for a total consideration of \$5.80 billion. The AT1 notes have no fixed maturity date, are not callable and carry a non-cumulative fixed interest rate of 8.55% per annum, which is payable at the company's discretion subject to certain solvency and regulatory conditions.

The AT1 notes will be irrevocably written-down in the event that the CET1 ratio of the company or the GSG UK Group falls below 7%. In addition, the company may, at any time after August 2037, elect at its discretion to convert all the AT1 notes into fully paid ordinary shares.

Note 14.

Cash and Cash Equivalents

The table below presents the company's cash and cash equivalents for the purpose of the statements of cash flows.

	As of June	
\$ in millions	2018	2017
Cash at bank and in hand	\$37,638	\$29,997
Overdrafts (see Note 10)	(90)	(227)
Total cash and cash equivalents	\$37,548	\$29,770

In the table above, cash at bank and in hand included cash that is not available for use by the company of \$4.40 billion and \$3.24 billion as of June 2018 and June 2017, respectively.

Note 15.

Reconciliation of Cash Flows From Operating Activities

The table below presents the company's reconciliation of cash flows from operating activities.

	Six Mor	nths
	Ended J	lune
\$ in millions	2018	2017
Profit before taxation	\$ 1,574	\$ 966
Adjustments for		
Depreciation and amortisation	30	16
Credit for defined benefit plan	(5)	(2)
Foreign exchange losses/(gains)	895	(707)
Share-based compensation expense	24	42
IFRS 15 transition adjustment	(7)	_
Provisions for liabilities	2	_
Interest payable and similar expenses	125	186
Cash generated before changes in operating		
assets and liabilities	2,638	501
Changes in operating assets		
Decrease/(increase) in financial instruments owned	(11,121)	33,603
Increase in collateralised agreements	(8,263)	(16,574)
Increase in debtors	(2,695)	(4,199)
Changes in operating assets	(22,079)	12,830
Changes in operating liabilities Increase/(decrease) in financial instruments		
sold, but not yet purchased	3,969	(38,206)
Increase in collateralised financings	4,081	27,365
Increase in other creditors	29,421	11,314
Changes in operating liabilities	37,471	473
Contributions paid to defined benefit plan	(47)	(50)
Cash generated from operations	\$ 17,983	\$ 13,754

Cash generated from operations included interest paid of \$2.56 billion and \$1.04 billion for the six months ended June 2018 and June 2017, respectively, and interest received of \$2.49 billion and \$1.26 billion for the six months ended June 2018 and June 2017, respectively.

Note 16.

Financial Commitments and Contingencies

Commitments and Contingencies

The table below presents the company's commitments and contingencies.

	As of	
	June	December
\$ in millions	2018	2017
Contingent and forward starting		
collateralised agreements	\$48,203	\$58,756
Forward starting collateralised financings	27,429	20,511
Other	3,306	3,691
Total	\$78,938	\$82,958

Contingent and forward starting collateralised agreements includes resale and securities borrowing agreements, and forward starting collateralised financings includes repurchase and secured lending agreements that settle at a future date, generally within three business days.

The company also enters into commitments to provide contingent financing to its clients and counterparties through resale agreements. The company's funding of these commitments depends on the satisfaction of all contractual conditions to the resale agreement and these commitments can expire unused.

Other commitments primarily relate to collateral commitments.

In addition, there are registered charges on the company's assets which have arisen in the ordinary course of business.

Leases

The company leases certain buildings under long-term noncancellable lease agreements. Under these lease agreements, which are subject to renegotiation at various intervals specified in the leases, the company pays all insurance, maintenance and repairs of these properties.

Legal Proceedings

The company is involved in a number of judicial, regulatory and arbitration proceedings (including those described below) concerning matters arising in connection with the conduct of the company's business, however it is not practicable to reliably estimate an impact, if any, of these proceedings.

Interest Rate Swap Antitrust Litigation. The company is among the defendants named in a putative antitrust class action relating to the trading of interest rate swaps, filed in November 2015 and consolidated in the U.S. District Court for the Southern District of New York. The company is also among the defendants named in two antitrust actions relating to the trading of interest rate swaps filed in the U.S. District Court for the Southern District of New York beginning in April 2016 by three operators of swap execution facilities and certain of their affiliates. These actions have been consolidated for pretrial proceedings. The complaints generally assert claims under federal antitrust law and state common law in connection with an alleged conspiracy among the defendants to preclude exchange trading of interest rate swaps. The complaints in the individual actions also assert claims under state antitrust law. The complaints seek declaratory and injunctive relief, as well as treble damages in an unspecified amount. Defendants moved to dismiss the class and one of the individual actions on January 20, 2017. On July 28, 2017, the district court issued a decision dismissing the state common law claims asserted by the plaintiffs in the individual action and otherwise limiting the antitrust claims in both actions and the state common law claim in the putative class action to the period from 2013 to 2016. On May 30, 2018, plaintiffs in the putative class action filed a third consolidated amended complaint. Defendants moved to dismiss the second individual action on July 19, 2018.

Credit Default Swap Antitrust Litigation. The company is among the defendants named in an antitrust action relating to the trading of credit default swaps filed in the U.S. District Court for the Southern District of New York on June 8, 2017 by the operator of a swap execution facility and certain of its affiliates. The complaint generally asserts claims under federal and state antitrust laws and state common law in connection with an alleged conspiracy among the defendants to preclude trading of credit default swaps on the plaintiffs' swap execution facility. The complaint seeks declaratory and injunctive relief, as well as treble damages in an unspecified amount. Defendants moved to dismiss on September 11, 2017.

Commodities-Related Litigation. The company is among the defendants named in putative class actions relating to trading in platinum and palladium, filed beginning on November 25, 2014 and most recently amended on May 15, 2017, in the U.S. District Court for the Southern District of New York. The amended complaint generally alleges that the defendants violated federal antitrust laws and the Commodity Exchange Act in connection with an alleged conspiracy to manipulate a benchmark for physical platinum and palladium prices and seek declaratory and injunctive relief, as well as treble damages in an unspecified amount. Defendants moved to dismiss the third consolidated amended complaint on July 21, 2017.

1Malaysia Development Berhad (1MDB)-Related Matters. GS Group has received subpoenas and requests for documents and information from various governmental and regulatory bodies and self-regulatory organisations as part of investigations and reviews relating to financing transactions and other matters involving 1MDB, a sovereign wealth fund in Malaysia. GS Group is cooperating with all such governmental and regulatory investigations and reviews.

Regulatory Investigations and Reviews and Related Litigation. Group Inc. and certain of its affiliates, including the company, are subject to a number of other investigations and reviews by, and in some cases have received subpoenas and requests for documents and information from, various governmental and regulatory bodies and self-regulatory organisations and litigation relating to various matters relating to GS Group's businesses and operations, including:

- The 2008 financial crisis;
- The public offering process;
- Investment management and financial advisory services;
- Conflicts of interest;
- Transactions involving government-related financings and other matters;
- The offering, auction, sales, trading and clearance of corporate government securities, and currencies. commodities and other financial products and related sales and other communications and activities, as well as GS Group's supervision and controls relating to such activities, including compliance with applicable short sale rules, algorithmic, high-frequency and quantitative trading, futures trading, options trading, when-issued trading, transaction reporting, technology systems and controls, securities lending practices, trading and clearance of credit derivative instruments and interest rate swaps, commodities activities and metals storage, private placement practices, allocations of and trading in securities, and trading activities and communications in connection with the establishment of benchmark rates, such as currency rates;
- Compliance with the U.K. Bribery Act and the U.S. Foreign Corrupt Practices Act;
- Hiring and compensation practices;
- · System of risk management and controls; and
- Insider trading, the potential misuse and dissemination of material non-public information regarding corporate and governmental developments and the effectiveness of insider trading controls and information barriers.

In addition, investigations, reviews and litigation involving the company's affiliates and such affiliates' businesses and operations, including various matters referred to above but also other matters, may have an impact on the company's businesses and operations.

Note 17.

Financial Risk Management and Capital Management

Certain disclosures in relation to the company's financial risk management and capital management have been presented alongside other risk management and regulatory information in Part I of this financial report.

Note 18.

Financial Assets and Financial Liabilities

Financial Assets and Financial Liabilities by Category

The tables below present the carrying value of the company's financial assets and financial liabilities by category. The financial assets tables below have been prepared under IFRS 9 and IAS 39 as of June 2018 and December 2017, respectively. See Note 2 for further information.

	Financial Assets				
•	Manda	torily	A	mortised	
\$ in millions	at fair v	/alue		cost	Total
As of June 2018					
Financial instruments owned	\$651	·	\$	-	\$651,385
Collateralised agreements	132	,363		80,720	213,083
Debtors		173		75,924	76,097
Cash at bank and in hand		-		37,638	37,638
Total financial assets	\$783	,921	\$	194,282	\$978,203
	Held for	Desigr		Loans and	
\$ in millions	Trading	at fair v	/alue	Receivable	s Total
As of December 2017					
Financial instruments owned	\$640,264	\$	_	\$ -	- \$640,264
Collateralised agreements	_	140),360	64,46	
Debtors	_		653	72,72	5 73,378
Cash at bank and in hand	-		-	20,72	7 20,727
Total financial assets	\$640,264	\$141	1,013	\$157,912	2 \$939,189
		Fir	nancia	l Liabilities	
	Held for	Desigr	nated	Amortise	b
\$ in millions	trading	at fair v	/alue	cos	t Total
As of June 2018 Amounts falling due within	one vear				
Financial instruments sold,	, , , , , , , , , , , , , , , , , , , ,				
but not yet purchased	\$593,891	\$	_	\$.	- \$593,891
Collateralised financings	_		5,190	47,45	.
Other creditors	_		3,517	98,70	<u>.</u>
Total	593,891		3,707	146,15	
Amounts falling due after n	-		•	,	
Collateralised financings	_	•	6,886		- 16,886
Other creditors	_		5,243	18,83	
Total	_		3,129	18,83	
Total financial liabilities	\$593,891		3,836	\$164,98	
	*****	****	,	4 · · · · · · · · · · · · · · · · · · ·	*****
As of December 2017					
Amounts falling due within	one year				
Financial instruments sold,					
but not yet purchased	\$589,922	\$	-	\$ -	- \$589,922
Collateralised financings	_	113	3,947	44,12	2 158,069
Other creditors	-	7	7,784	95,43	······
Total	589,922	121	,731	139,55	5 851,208
Amounts falling due after n	nore than o	ne year	,		
Collateralised financings	_	-	7,378		- 17,378
Other creditors	_		1,046	18,68	
Total	_		3,424	18,68	
T (10 1 100	\$500.000	A400		A450.00	

In the tables above, financial instruments owned included \$58 million and \$38 million as of June 2018 and December 2017, respectively, of derivative instruments designated as hedges.

\$160,155

\$158,239

\$908,316

\$589,922

Total financial liabilities

Fair Value Hierarchy

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 company measures certain financial assets and financial liabilities as a portfolio (i.e., based on its net exposure to market and/or credit risks).

U.K. GAAP has a three-level fair value hierarchy for disclosure of fair value measurements. The fair value 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 asset or financial liability's level in the fair value 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 company 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 company's financial assets and financial 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 financial liabilities may require appropriate valuation adjustments that a market participant would require to arrive at fair value for factors such as counterparty and the company'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

Cash Instruments. Cash instruments include government and agency obligations, corporate debt instruments, equity securities, and other non-derivative financial instruments owned and financial instruments sold, but not yet purchased. Valuation techniques and significant inputs for each level of the fair value hierarchy include:

Level 1 Cash Instruments

Level 1 cash instruments are valued using quoted prices for identical unrestricted instruments in active markets. The company 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 company defines active markets for debt instruments based on both the average daily trading volume and the number of days with trading activity.

Level 2 Cash Instruments

Level 2 cash 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 cash instruments (i) if the cash 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 Cash Instruments

Level 3 cash instruments have one or more significant valuation inputs that are not observable. Absent evidence to the contrary, level 3 cash instruments are initially valued at transaction price, which is considered to be the best initial estimate of fair value. Subsequently, the company 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 cash 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 cash instrument are described below:

- 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 and Other Cash Instruments. Corporate debt instruments and other cash instruments includes corporate loans and debt securities and other debt obligations and government and agency obligations. 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 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; and
- Maturity and coupon profile of the instrument.
- Equity Securities. Equity securities includes private equity securities and convertible debentures. Recent third-party completed or pending transactions (e.g., merger proposals, tender offers, debt restructurings) are considered to be the best evidence for any change in fair value. When these are not available, the following valuation methodologies are used, as appropriate:
 - Industry multiples and public comparables;
 - · Transactions in similar instruments; and
 - Discounted cash flow techniques.

Derivative Instruments. 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 company's OTC derivatives are cleared and settled through central clearing counterparties (OTC-cleared), while others are bilateral contracts between two counterparties (bilateral OTC).

The company'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 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.

Level 1 Derivatives

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 Derivatives

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 company 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 Derivatives

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 company updates the level 1 and level 2 inputs to reflect observable market changes and any resulting gains and losses are recorded 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 company 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 appropriate exit price valuation. These adjustments incorporate bid/offer spreads, the cost of liquidity, credit valuation adjustments and funding valuation adjustments, which account for the credit and funding risk inherent in the uncollateralised portion of derivative portfolios. The company also makes funding valuation adjustments to collateralised derivatives where the terms of the agreement do not permit the company 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 company makes model or exit price adjustments to account for the valuation uncertainty present in the transaction.

Other Financial Assets and Financial Liabilities. Valuation techniques and significant inputs of other financial assets and financial 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.
- **Debtors.** Debtors measured at fair value primarily consist of secured lending and prepaid commodity contracts. The significant inputs to the valuation of such receivables are commodity prices, interest rates, the amount and timing of expected future cash flows and funding spreads.
- Other Secured Financings. The significant inputs to the valuation of secured debt securities issued 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 company (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.
- Other Creditors. The significant inputs to the valuation of unsecured other creditors measured at fair value are the amount and timing of expected future cash flows, interest rates, the credit spreads of GS Group, as well as commodity prices in the case of prepaid commodity contracts. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the company's other derivative instruments.

Fair Value of Financial Assets and Financial Liabilities by Level

The tables below present, by level within the fair value hierarchy, financial assets and financial liabilities measured at fair value on a recurring basis.

		Assets and Fair Value as		
\$ in millions	Level 1	Level 2	Level 3	Total
Financial Assets				
Cash instruments	\$60,067	\$ 23,885	\$ 947	\$ 84,899
Derivative instruments	13	562,500	3,973	566,486
Financial instruments owned	60,080	586,385	4,920	651,385
Collateralised agreements	-	132,363	-	132,363
Debtors	-	173	_	173
Total financial assets	\$60,080	\$718,921	\$ 4,920	\$783,921
Financial Liabilities				
Amounts falling due within o	ne year			
Cash instruments	\$39,800	\$ 4,289	\$ 10	\$ 44,099
Derivative instruments	6	547,741	2,045	549,792
Financial instruments sold,				
but not yet purchased	39,806	552,030	2,055	593,891
Collateralised financings	-	114,365	825	115,190
Other creditors	-	6,113	2,404	8,517
Total	39,806	672,508	5,284	717,598
Amounts falling due after me	ore than on	e year		
Collateralised financings	-	16,836	50	16,886
Other creditors	-	39,690	6,553	46,243
Total	_	56,526	6,603	63,129
Total financial liabilities	\$39,806	\$729,034	\$11,887	\$780,727
Net derivative instruments	\$ 7	\$ 14,759	\$ 1,928	\$ 16,694
	Financia	.l Assats and	Financial Lia	hilition
		al Assets and		
\$ in millions	at Fa	ir Value as of	December 2	2017
\$ in millions				
Financial Assets	at Fa	ir Value as of Level 2	December 2 Level 3	Total
Financial Assets Cash instruments	at Fa	Level 2	December 2 Level 3 \$ 571	Total \$ 74,055
Financial Assets Cash instruments Derivative instruments	at Fa Level 1 \$51,047	tr Value as of Level 2 \$ 22,437 562,731	December 2 Level 3 \$ 571 3,473	Total \$ 74,055 566,209
Financial Assets Cash instruments Derivative instruments Financial instruments owned	at Fa	ir Value as of Level 2 \$ 22,437 562,731 585,168	December 2 Level 3 \$ 571	Total \$ 74,055 566,209 640,264
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements	at Fa Level 1 \$51,047	\$ 22,437 562,731 585,168 140,360	December 2 Level 3 \$ 571 3,473	* 74,055 566,209 640,264 140,360
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors	at Fa Level 1 \$51,047 5 51,052 -	\$ 22,437 562,731 585,168 140,360 653	December 2 Level 3 \$ 571 3,473 4,044 —————————————————————————————————	\$ 74,055 566,209 640,264 140,360 653
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets	at Fa Level 1 \$51,047	\$ 22,437 562,731 585,168 140,360	December 2 Level 3 \$ 571 3,473	* 74,055 566,209 640,264 140,360
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052	\$ 22,437 562,731 585,168 140,360 653	December 2 Level 3 \$ 571 3,473 4,044 —————————————————————————————————	\$ 74,055 566,209 640,264 140,360 653
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within co	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 pone year	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 140,360 \$ 653 \$ 726,181	\$ 571 3,473 4,044 \$ 4,044	\$ 74,055 \$ 566,209 640,264 140,360 653 \$781,277
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within co	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 cone year \$30,201	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 140,360 \$ 653 \$ 726,181	\$ 571 3,473 4,044 \$ 4,044 \$ 10	\$ 74,055 \$ 566,209 640,264 140,360 653 \$781,277
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 pone year	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 140,360 \$ 653 \$ 726,181	\$ 571 3,473 4,044 \$ 4,044	\$ 74,055 \$ 566,209 640,264 140,360 653 \$781,277
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold,	at Fa Level 1 \$51,047 5 51,052 - \$51,052 one year \$30,201 22	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 140,360 \$ 653 \$ 726,181 \$ 3,588 \$ 553,830	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271	\$ 74,055 \$ 566,209 640,264 140,360 653 \$781,277 \$ 33,799 556,123
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 cone year \$30,201	\$22,437 562,731 585,168 140,360 653 \$726,181 \$3,588 553,830 557,418	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281	\$ 74,055 566,209 640,264 140,360 653 \$781,277 \$ 33,799 556,123 589,922
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings	at Fa Level 1 \$51,047 5 51,052 - \$51,052 one year \$30,201 22	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 140,360 \$ 653 \$ 726,181 \$ 3,588 \$ 553,830 \$ 557,418 113,314	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633	\$ 74,055 566,209 640,264 140,360 653 \$781,277 \$ 33,799 556,123 589,922 113,947
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings Other creditors	at Fa Level 1 \$51,047 5 51,052 - \$51,052 sone year \$30,201 22 30,223	\$22,437 562,731 585,168 140,360 653 \$726,181 \$3,588 553,830 557,418 113,314 5,896	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633 1,888	\$74,055 566,209 640,264 140,360 653 \$781,277 \$33,799 556,123 589,922 113,947 7,784
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings Other creditors Total	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 Done year \$30,201 22 30,223 - 30,223	\$ 22,437 562,731 585,168 140,360 653 \$726,181 \$ 3,588 553,830 557,418 113,314 5,896 676,628	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633	\$ 74,055 566,209 640,264 140,360 653 \$781,277 \$ 33,799 556,123 589,922 113,947
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings Other creditors Total Amounts falling due after me	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 Done year \$30,201 22 30,223 - 30,223	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 \$ 140,360 \$ 653 \$ 726,181 \$ 3,588 \$ 553,830 \$ 557,418 \$ 113,314 \$ 5,896 \$ 676,628 \$ e year	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633 1,888 4,802	\$74,055 566,209 640,264 140,360 653 \$781,277 \$33,799 556,123 589,922 113,947 7,784 711,653
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings Other creditors Total Amounts falling due after me Collateralised financings	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 Done year \$30,201 22 30,223 - 30,223	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 \$ 140,360 \$ 653 \$ 726,181 \$ 3,588 \$ 553,830 \$ 557,418 \$ 113,314 \$ 5,896 \$ 676,628 \$ 2 year \$ 17,369	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633 1,888 4,802	\$74,055 566,209 640,264 140,360 653 \$781,277 \$33,799 556,123 589,922 113,947 7,784 711,653
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings Other creditors Total Amounts falling due after model Collateralised financings Other creditors Other creditors	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 Done year \$30,201 22 30,223 - 30,223	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 \$ 140,360 \$ 653 \$ 726,181 \$ 3,588 \$ 553,830 \$ 557,418 \$ 113,314 \$ 5,896 \$ 676,628 \$ e year \$ 17,369 \$ 15,050	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633 1,888 4,802	\$74,055 566,209 640,264 140,360 653 \$781,277 \$33,799 556,123 589,922 113,947 7,784 711,653 17,378 21,046
Financial Assets Cash instruments Derivative instruments Financial instruments owned Collateralised agreements Debtors Total financial assets Financial Liabilities Amounts falling due within of Cash instruments Derivative instruments Financial instruments sold, but not yet purchased Collateralised financings Other creditors Total Amounts falling due after me Collateralised financings	at Fa Level 1 \$51,047 \$5 51,052 - \$51,052 - \$51,052 Done year \$30,201 22 30,223 - 30,223	\$ 22,437 \$ 22,437 \$ 562,731 \$ 585,168 \$ 140,360 \$ 653 \$ 726,181 \$ 3,588 \$ 553,830 \$ 557,418 \$ 113,314 \$ 5,896 \$ 676,628 \$ 2 year \$ 17,369	\$ 571 3,473 4,044 \$ 4,044 \$ 10 2,271 2,281 633 1,888 4,802	\$74,055 566,209 640,264 140,360 653 \$781,277 \$33,799 556,123 589,922 113,947 7,784 711,653

\$ (17)

\$ 8,901

\$ 1,202

\$ 10,086

Net derivative instruments

Significant Unobservable Inputs Used in Level 3 Fair Value Measurements

Cash Instruments. As of both June 2018 and December 2017, the company had level 3 cash instrument assets of \$947 million and \$571 million, respectively. Level 3 cash instrument liabilities were not material.

The table below presents the amount of level 3 cash instruments assets, and ranges and weighted averages of significant unobservable inputs used to value the company's level 3 cash instrument assets.

Level 3 Cash Instruments Assets and Range of Significant Unobservable Inputs

	rtange or organicant	Chicago habic mpate		
	(Weighted Average) as of			
	June	December		
\$ in millions	2018	2017		
Mortgages and other a	sset-backed loans and secur	ities		
Level 3 assets	\$249	\$144		
Yield	2.4% to 15.0% (5.5%)	2.3% to 19.4% (6.9%)		
Recovery rate	30.0% to 90.6% (73.6%)	37.9% to 89.0% (76.9%)		
Duration (years)	0.6 to 14.8 (5.2)	0.7 to 14.0 (4.2)		
Corporate debt instrum	nents and other cash instrum	ents		
Level 3 assets	\$618	\$365		
Yield	1.8% to 14.8% (5.4%)	3.6% to 13.9% (7.1%)		
Recovery rate	0.0% to 82.0% (58.1%)	0.0% to 74.0% (44.5%)		
Duration (years)	0.9 to 6.2 (3.6)	0.5 to 5.4 (2.3)		
Equity securities				
Level 3 assets	\$80	\$62		
Duration (years)	4.1x to 11.0x (5.7x)	3.0x to 3.0x (3.0x)		

In the table above:

- Ranges represent the significant unobservable inputs that were used in the valuation of each type of cash instrument.
- Weighted averages are calculated by weighting each input by the relative fair value of the cash instruments.
- The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one cash instrument. For example, the highest yield for mortgages and other asset-backed loans and securities 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 the company's level 3 cash instruments.
- Increases in yield or duration used in the valuation of the company's level 3 cash instruments would result in a lower fair value measurement, while increases in recovery rate or multiples would result in a higher fair value measurement. Due to the distinctive nature of each of the company's level 3 cash instruments, the interrelationship of inputs is not necessarily uniform within each product type.
- Mortgages and other asset-backed loans and securities and corporate debt instruments and other cash instruments are valued using discounted cash flows, and equity securities are valued using market comparables and discounted cash flows.

• The fair value of any one instrument may be determined using multiple valuation techniques. For example, market comparables and discounted cash flows may be used together to determine fair value. Therefore, the level 3 balance encompasses both of these techniques.

Derivative Instruments. As of both June 2018 and December 2017, the company had net level 3 derivative instruments of \$1.93 billion and \$1.20 billion, respectively.

The table below presents the amount of net level 3 derivative instruments, and ranges, averages and medians of significant unobservable inputs used to value the company's interest rates, credit, currencies and equities derivative instruments. As of both June 2018 and December 2017, the company's net level 3 financial instruments relating to commodities derivatives were not material.

Net Level 3 Derivative Instruments and Range of Significant Unobservable Inputs

	(Average/Median) as of			
4	June	December		
\$ in millions	2018	2017		
Interest rates	\$129	\$51		
Correlation	73% to 95% (84%/84%)	79% to 95% (87%/87%)		
Volatility (bps)	63 to 138 (85/77)	75 to 138 (107/107)		
Credit	\$2,063	\$1,794		
Correlation	N/A	28% to 84% (61%/60%)		
Credit spreads (bps)	2 to 900 (97/72)	1 to 505 (87/56)		
Upfront credit points	12 to 50 (24/16)	2 to 55 (36/53)		
Recovery rates	30% to 50% (42%/43%)	22% to 73% (70%/73%)		
Currencies	\$(93)	\$(110)		
Correlation	10% to 33% (22%/21%)	10% to 33% (22%/21%)		
Equities	\$(171)	\$(533)		
Correlation	(63)% to 95% (44%/46%)	(36)% to 94% (53%/65%)		
Volatility	4% to 58% (19%/18%)	4% to 63% (20%/20%)		

In the table above:

- Net derivative assets are shown as positive amounts and net derivative liabilities are shown as negative amounts.
- Ranges represent the significant unobservable inputs that were used in the valuation of each type of derivative.
- Averages represent the arithmetic average of the inputs and are not weighted by the relative fair value or notional of the respective financial instruments. An average greater than the median indicates that the majority of inputs are below the average.
- The ranges, averages and medians of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one derivative. For example, the highest correlation for interest rate derivatives is appropriate for valuing a specific interest rate derivative but may not be appropriate for valuing any other interest rate derivative. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of the company's level 3 derivatives.

- Interest rates, currencies and equities derivatives are valued using option pricing models, and credit derivatives are valued using option pricing, correlation and discounted cash flow models.
- The fair value of any one instrument may be determined using multiple valuation techniques. For example, option pricing models and discounted cash flows models are typically used together to determine fair value. Therefore, the level 3 balance encompasses both of these techniques.
- Correlation was not significant to the valuation of level 3 credit derivatives as of June 2018.
- Correlation within currencies and equities includes crossproduct correlation.

Range of Significant Unobservable Inputs

The following is information about the ranges of significant unobservable inputs used to value the company's level 3 derivative instruments:

- **Correlation.** Ranges for correlation cover a variety of underliers both within one product type (e.g., equity index and equity single stock names) and across product types (e.g., correlation of an equity and a currency), as well as across regions.
- **Volatility**. Ranges for volatility cover numerous underliers across a variety of markets, maturities and strike prices. For example, volatility of equity indices is generally lower than volatility of single stocks.
- Credit spreads, upfront credit points and recovery rates. The ranges for credit spreads, upfront credit points and recovery rates cover a variety of underliers (index and single names), regions, sectors, maturities and credit qualities (high-yield and investment-grade) and also includes secured funding spreads. The broad range of this population gives rise to the width of the ranges of significant unobservable inputs.

Sensitivity of Fair Value Measurement to Changes in Significant Unobservable Inputs

The following is a description of the directional sensitivity of the company's level 3 fair value measurements to changes in significant unobservable inputs, in isolation:

- **Correlation.** In general, for contracts where the holder benefits from the consistent directional performance of the underlying asset or index prices (e.g., interest rates, credit spreads, foreign exchange rates, inflation rates and equity prices), an increase in correlation results in a higher fair value measurement.
- **Volatility.** In general, for purchased options, an increase in volatility results in a higher fair value measurement.

• Credit spreads, upfront credit points and recovery rates. In general, the fair value of purchased credit protection increases as credit spreads or upfront credit points increase or recovery rates decrease, and the fair value of secured funding capacity increases as secured funding spreads increase. Credit spreads, upfront credit points and recovery rates are strongly related to distinctive risk factors of the underlying reference obligations, which include reference entity-specific factors such as leverage, volatility and industry, market-based risk factors, such as borrowing costs or liquidity of the underlying reference obligation, and macroeconomic conditions.

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

Other Financial Assets and Financial Liabilities. Significant unobservable inputs of other financial assets and financial liabilities include:

- Resale and Repurchase Agreements and Securities Borrowed and Loaned. As of both June 2018 and December 2017, the company had no level 3 resale agreements, securities borrowed or securities loaned. As of both June 2018 and December 2017, the company's level 3 repurchase agreements were not material.
- **Debtors.** As of both June 2018 and December 2017, the company's level 3 debtors were nil.
- Other Secured Financings. As of both June 2018 and December 2017, the significant unobservable inputs used to value the company's level 3 other secured financings are incorporated into the company's derivative instruments and cash instruments disclosures related to unobservable inputs. See "Cash Instruments" and "Derivative Instruments" above.
- Other Creditors. As of both June 2018 and December 2017, the significant unobservable inputs used to value the company's level 3 other creditors are incorporated into the company's derivative instruments and cash instruments disclosures related to unobservable inputs. See "Cash Instruments" and "Derivative Instruments" above.

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

During the six months ended June 2018 and June 2017, respectively, there were no significant transfers between level 1 and level 2 financial assets and financial liabilities measured at fair value on a recurring basis.

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

The fair value of financial assets and financial 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 of June 2018 and June 2017, as approximately \$382 million and \$227 million, respectively, for favourable changes, and \$235 million and \$261 million, respectively, for unfavourable changes. In determining reasonably possible alternative unfavourable 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. As of June 2018 and June 2017, the impact for favourable changes was primarily driven by changes in the assumptions around secured funding spreads and valuation adjustments in equity and fixed income derivatives, and the impact for unfavourable changes was primarily driven by changes in the assumptions around secured funding spreads, volatility and correlation inputs.

The table below presents the amounts not recognised in the profit and loss account relating to the difference between the fair value of financial assets and financial liabilities at fair value through profit or loss at initial recognition (the transaction price) and the amounts determined at initial recognition using the valuation techniques (day 1 P&L).

	Six Months		
	Ended June		
\$ in millions	2018	2017	
As of January 1	\$161	\$149	
New transactions	70	53	
Amounts recognised in the profit and loss account			
during the period	(53)	(45)	
As of June 30	\$178	\$157	

Level 3 Rollforward

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

	Six Mor	nths
Ended		June
\$ in millions	2018	2017
Total financial assets		
Beginning balance	\$ 4,044	\$ 5,152
Gains	340	431
Purchases	396	454
Sales	(131)	(314)
Settlements	(362)	(575)
Transfers into level 3	820	281
Transfers out of level 3	(187)	(479)
Ending balance	\$ 4,920	\$ 4,950
Total financial liabilities		
Beginning balance	\$(10,807)	\$ (9,628)
Gains/(losses)	323	(740)
Purchases	4	4
Sales	(282)	(175)
Issuances	(5,026)	(2,946)
Settlements	3,178	2,702
Transfers into level 3	(211)	(163)
Transfers out of level 3	934	1,209
Ending balance	\$(11,887)	\$(9,737)

In the table above:

- Financial assets relate to financial instruments owned.
- If a financial asset or financial liability was transferred into level 3 during a reporting period, its entire gain or loss for the period is included 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 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 financial liabilities that were transferred out of level 3 prior to the end of the period.
- Level 3 financial assets and financial liabilities are frequently economically hedged with level 1 and level 2 financial assets and financial 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 company's results of operations, liquidity or capital resources.

- The net gains on level 3 financial assets for the six months ended June 2018 and the six months ended June 2017 are reported in "Net revenues" in the profit and loss account.
- The net gains on level 3 financial liabilities of \$323 million for the six months ended June 2018 included gains of \$211 million reported in "Net revenues" in the profit and loss account and gains of \$112 million reported in "Debt valuation adjustment" in the statements of comprehensive income. The net losses on level 3 financial liabilities of \$740 million for the six months ended June 2017 included losses of \$666 million reported in "Net revenues" in the profit and loss account and losses of \$74 million reported in "Debt valuation adjustment" in the statements of comprehensive income.

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

	Six Months	
E		une
\$ in millions	2018	2017
Financial instruments sold, but not yet purchased		
Beginning balance	\$(2,281)	\$(2,228)
Losses	(199)	(242)
Purchases	4	4
Sales	(282)	(175)
Settlements	579	258
Transfers into level 3	(142)	(124)
Transfers out of level 3	266	306
Ending balance	\$(2,055)	\$(2,201)
Collateralised financings		
Beginning balance	\$ (642)	\$ (536)
Gains/(losses)	37	(22)
Issuances	(285)	_
Settlements	15	34
Ending balance	\$ (875)	\$ (524)
Other creditors		
Beginning balance	\$(7,884)	\$(6,864)
Gains/(losses)	485	(476)
Issuances	(4,741)	(2,946)
Settlements	2,584	2,410
Transfers into level 3	(69)	(39)
Transfers out of level 3	668	903
Ending balance	\$(8,957)	\$(7,012)

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

Six Months Ended June 2018. Transfers into level 3 for financial assets and financial liabilities primarily reflected transfers of certain currency products from level 2, principally due to reduced transparency of certain modelling assumptions, and transfers of certain credit products from level 2, principally due to reduced transparency of certain spread and yield inputs. The reduced transparency was a result of a lack of market evidence.

Transfers out of level 3 for financial assets and financial liabilities primarily reflected transfers of equity products to level 2, principally due to increased transparency of certain equity volatility and correlation inputs. The increased transparency was a result of an increase in the availability of market evidence.

Six Months Ended June 2017. Transfers into level 3 for financial assets and financial liabilities primarily reflected transfers of certain credit derivatives from level 2, principally due to unobservable credit spread and yield inputs becoming significant to the valuation of these instruments, and transfers of certain equity derivatives from level 2, principally due to unobservable volatility and correlation inputs becoming significant to the valuation of these derivatives.

Transfers out of level 3 for financial assets and financial liabilities primarily reflected transfers of certain credit products to level 2, principally due to unobservable credit spread and yield inputs no longer being significant to the valuation of these instruments, and transfers of certain equity derivatives to level 2, principally due to unobservable volatility and correlation inputs no longer being significant to the valuation of these derivatives.

Fair Value of Financial Assets and Financial Liabilities Not Measured at Fair Value

As of June 2018 and December 2017, the company had \$194.28 billion and \$157.91 billion, respectively, of current financial assets and \$146.15 billion and \$139.56 billion, respectively, of current financial liabilities that are not measured at fair value. Given the short-term nature of these instruments, their carrying amounts in the balance sheet are a reasonable approximation of fair value.

As of June 2018 and December 2017, the company had \$18.83 billion and \$18.68 billion, respectively, of financial liabilities that are due after more than one year that are not measured at fair value which predominantly relate to long-term intercompany borrowings. The interest rates of these borrowings are variable in nature and approximate prevailing market interest rates for instruments with similar terms and characteristics. As such, their carrying amounts in the balance sheet are a reasonable approximation of fair value.