

GOLDMAN SACHS GROUP INC
Form 10-Q
August 03, 2018
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-Q

**QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934**

For the quarterly period ended June 30, 2018

or

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934**

For the transition period from

to

Commission File Number: 001-14965

The Goldman Sachs Group, Inc.

(Exact name of registrant as specified in its charter)

Delaware	13-4019460
(State or other jurisdiction of	(I.R.S. Employer
incorporation or organization)	Identification No.)
200 West Street, New York, N.Y.	10282
(Address of principal executive offices)	(Zip Code)
(212) 902-1000	

(Registrant's telephone number, including area code)

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

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

Large accelerated filer	Accelerated filer
Non-accelerated filer (Do not check if a smaller reporting company)	Smaller reporting company
Emerging growth company	

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

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

APPLICABLE ONLY TO CORPORATE ISSUERS

As of July 20, 2018, there were 377,556,226 shares of the registrant's common stock outstanding.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

QUARTERLY REPORT ON FORM 10-Q FOR THE QUARTER ENDED JUNE 30, 2018

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Table of Contents**PART I. FINANCIAL INFORMATION****Item 1. Financial Statements (Unaudited)**

THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Consolidated Statements of Earnings**(Unaudited)**

<i>in millions, except per share amounts</i>	Three Months		Six Months	
	Ended June 2018	2017	Ended June 2018	2017
Revenues				
Investment banking	\$2,045	\$1,730	\$ 3,838	\$ 3,433
Investment management	1,728	1,433	3,367	2,830
Commissions and fees	795	794	1,657	1,565
Market making	2,546	1,915	5,750	4,333
Other principal transactions	1,286	1,227	2,906	2,448
Total non-interest revenues	8,400	7,099	17,518	14,609
Interest income	4,920	3,220	9,150	5,966
Interest expense	3,918	2,432	7,230	4,662
Net interest income	1,002	788	1,920	1,304
Net revenues, including net interest income	9,402	7,887	19,438	15,913
Operating expenses				
Compensation and benefits	3,466	3,233	7,581	6,524
Brokerage, clearing, exchange and distribution fees	812	741	1,656	1,433
Market development	183	141	365	275
Communications and technology	260	224	511	447
Depreciation and amortization	335	265	634	522
Occupancy	197	190	391	366
Professional fees	223	229	458	434
Other expenses	650	355	1,147	864
Total non-compensation expenses	2,660	2,145	5,162	4,341
Total operating expenses	6,126	5,378	12,743	10,865
Pre-tax earnings	3,276	2,509	6,695	5,048
Provision for taxes	711	678	1,298	962

Net earnings	2,565	1,831	5,397	4,086
Preferred stock dividends	217	200	312	293
Net earnings applicable to common shareholders	\$2,348	\$1,631	\$ 5,085	\$ 3,793

Earnings per common share

Basic	\$ 6.04	\$ 4.00	\$ 13.07	\$ 9.24
Diluted	\$ 5.98	\$ 3.95	\$ 12.93	\$ 9.10

Dividends declared per common share	\$ 0.80	\$ 0.75	\$ 1.55	\$ 1.40
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Average common shares

Basic	387.8	406.1	388.4	409.3
Diluted	392.6	413.3	393.2	416.7

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Net earnings	\$2,565	\$1,831	\$5,397	\$4,086
Other comprehensive income/(loss) adjustments, net of tax:				
Currency translation	(2)	29		13
Debt valuation adjustment	878	(275)	1,148	(414)
Pension and postretirement liabilities	(1)		(5)	1
Available-for-sale securities	(63)	1	(221)	1
Other comprehensive income/(loss)	812	(245)	922	(399)
Comprehensive income	\$3,377	\$1,586	\$6,319	\$3,687

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Consolidated Statements of Financial Condition**(Unaudited)**

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Assets		
Cash and cash equivalents	\$131,417	\$110,051
Collateralized agreements:		
Securities purchased under agreements to resell (includes \$135,035 and \$120,420 at fair value)	135,180	120,822
Securities borrowed (includes \$42,198 and \$78,189 at fair value)	162,825	190,848
Receivables:		
Brokers, dealers and clearing organizations	28,859	24,676
Customers and counterparties (includes \$1,967 and \$3,526 at fair value)	59,778	60,112
Loans receivable	74,082	65,933
Financial instruments owned (at fair value and includes \$71,384 and \$50,335 pledged as collateral)	347,959	315,988
Other assets	28,510	28,346
Total assets	\$968,610	\$916,776
Liabilities and shareholders equity		
Deposits (includes \$25,634 and \$22,902 at fair value)	\$153,441	\$138,604
Collateralized financings:		
Securities sold under agreements to repurchase (at fair value)	93,219	84,718
Securities loaned (includes \$6,351 and \$5,357 at fair value)	16,300	14,793
Other secured financings (includes \$26,260 and \$24,345 at fair value)	26,379	24,788
Payables:		
Brokers, dealers and clearing organizations	9,579	6,672
Customers and counterparties	183,038	171,497
Financial instruments sold, but not yet purchased (at fair value)	112,747	111,930
Unsecured short-term borrowings (includes \$19,598 and \$16,904 at fair value)	44,390	46,922
Unsecured long-term borrowings (includes \$41,944 and \$38,638 at fair value)	227,354	217,687
Other liabilities (includes \$108 and \$268 at fair value)	15,564	16,922
Total liabilities	882,011	834,533
Commitments, contingencies and guarantees		
Shareholders equity		
Preferred stock; aggregate liquidation preference of \$11,203 and \$11,853	11,203	11,853

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Common stock; 890,582,030 and 884,592,863 shares issued, and 377,879,137 and 374,808,805 shares outstanding	9	9
Share-based awards	2,581	2,777
Nonvoting common stock; no shares issued and outstanding		
Additional paid-in capital	54,000	53,357
Retained earnings	95,941	91,519
Accumulated other comprehensive loss	(958)	(1,880)
Stock held in treasury, at cost; 512,702,895 and 509,784,060 shares	(76,177)	(75,392)
Total shareholders' equity	86,599	82,243
Total liabilities and shareholders' equity	\$968,610	\$916,776

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Consolidated Statements of Changes in Shareholders' Equity**(Unaudited)**

<i>\$ in millions</i>	Six Months Ended June 2018	Year Ended December 2017
Preferred stock		
Beginning balance	\$ 11,853	\$ 11,203
Issued		1,500
Redeemed	(650)	(850)
Ending balance	11,203	11,853
Common stock		
Beginning balance	9	9
Issued		
Ending balance	9	9
Share-based awards		
Beginning balance, as previously reported	2,777	3,914
Cumulative effect of the change in accounting principle related to forfeiture of share-based awards		35
Beginning balance, adjusted	2,777	3,949
Issuance and amortization of share-based awards	991	1,810
Delivery of common stock underlying share-based awards	(1,148)	(2,704)
Forfeiture of share-based awards	(29)	(89)
Exercise of share-based awards	(10)	(189)
Ending balance	2,581	2,777
Additional paid-in capital		
Beginning balance	53,357	52,638
Delivery of common stock underlying share-based awards	1,677	2,934
Cancellation of share-based awards in satisfaction of withholding tax requirements	(1,049)	(2,220)
Preferred stock issuance costs, net of reversals upon redemption	15	8
Cash settlement of share-based awards		(3)
Ending balance	54,000	53,357
Retained earnings		
Beginning balance, as previously reported	91,519	89,039
Cumulative effect of the change in accounting principle related to:		
Revenue recognition from contracts with clients, net of tax	(53)	
Forfeiture of share-based awards, net of tax		(24)
Beginning balance, adjusted	91,466	89,015
Net earnings	5,397	4,286
Dividends and dividend equivalents declared on common stock and share-based awards	(610)	(1,181)
Dividends declared on preferred stock	(297)	(587)
Preferred stock redemption premium	(15)	(14)

Ending balance	95,941	91,519
Accumulated other comprehensive loss		
Beginning balance	(1,880)	(1,216)
Other comprehensive income/(loss)	922	(664)
Ending balance	(958)	(1,880)
Stock held in treasury, at cost		
Beginning balance	(75,392)	(68,694)
Repurchased	(800)	(6,721)
Reissued	16	34
Other	(1)	(11)
Ending balance	(76,177)	(75,392)
Total shareholders equity	\$ 86,599	\$ 82,243

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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

<i>\$ in millions</i>	Six Months	
	Ended June 2018	2017
Cash flows from operating activities		
Net earnings	\$ 5,397	\$ 4,086
Adjustments to reconcile net earnings to net cash provided by/(used for) operating activities:		
Depreciation and amortization	634	522
Share-based compensation	1,505	1,452
Gain related to extinguishment of subordinated borrowings		(108)
Changes in operating assets and liabilities:		
Receivables and payables (excluding loans receivable), net	10,355	(14,527)
Collateralized transactions (excluding other secured financings), net	23,673	23,971
Financial instruments owned (excluding available-for-sale securities)	(31,730)	(31,864)
Financial instruments sold, but not yet purchased	645	472
Other, net	(2,845)	1,899
Net cash provided by/(used for) operating activities	7,634	(14,097)
Cash flows from investing activities		
Purchase of property, leasehold improvements and equipment	(3,751)	(1,520)
Proceeds from sales of property, leasehold improvements and equipment	1,946	202
Net cash used for business acquisitions	(149)	(1,086)
Purchase of investments	(3,200)	(728)
Proceeds from sales and paydowns of investments	303	888
Loans receivable, net	(7,952)	(4,462)
Net cash used for investing activities	(12,803)	(6,706)
Cash flows from financing activities		
Unsecured short-term borrowings, net	1,954	(28)
Other secured financings (short-term), net	3,623	(881)
Proceeds from issuance of other secured financings (long-term)	2,458	4,683
Repayment of other secured financings (long-term), including the current portion	(4,691)	(3,151)
Purchase of Trust Preferred Securities	(35)	(62)
Proceeds from issuance of unsecured long-term borrowings	31,128	31,654
Repayment of unsecured long-term borrowings, including the current portion	(20,045)	(19,335)
Derivative contracts with a financing element, net	702	1,002
Deposits, net	14,837	1,446
Preferred stock redemption	(650)	
Common stock repurchased	(800)	(2,969)
Settlement of share-based awards in satisfaction of withholding tax requirements	(1,049)	(1,507)
	(907)	(876)

Dividends and dividend equivalents paid on common stock, preferred stock and share-based awards		
Proceeds from issuance of common stock, including exercise of share-based awards	10	7
Cash settlement of share-based awards		(3)
Net cash provided by financing activities	26,535	9,980
Net increase/(decrease) in cash and cash equivalents	21,366	(10,823)
Cash and cash equivalents, beginning balance	110,051	121,711
Cash and cash equivalents, ending balance	\$131,417	\$110,888

SUPPLEMENTAL DISCLOSURES:

Cash payments for interest, net of capitalized interest, were \$7.62 billion and \$6.28 billion, and cash payments for income taxes, net of refunds, were \$547 million and \$464 million during the six months ended June 2018 and June 2017, respectively. Cash flows related to common stock repurchased includes common stock repurchased in the prior period for which settlement occurred during the current period and excludes common stock repurchased during the current period for which settlement occurred in the following period.

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

The firm received \$419 million of loans receivable and \$90 million of held-to-maturity securities in connection with the securitization of financial instruments owned and held for sale loans included in receivables from customers and counterparties.

The firm exchanged \$35 million of Trust Preferred Securities and common beneficial interests for \$35 million of certain of the firm's junior subordinated debt.

Non-cash activities during the six months ended June 2017:

The firm received \$226 million of loans receivable in connection with the securitization of financial instruments owned.

The firm exchanged \$62 million of Trust Preferred Securities and common beneficial interests for \$67 million of the firm's junior subordinated debt.

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Note 1.

Description of Business

The Goldman Sachs Group, Inc. (Group Inc. or parent company), a Delaware corporation, together with its consolidated subsidiaries (collectively, the firm), is a leading global 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. Founded in 1869, the firm is headquartered in New York and maintains offices in all major financial centers around the world.

The firm reports its activities in the following four business segments:

Investment Banking

The firm provides a broad range of investment banking services to a diverse group of corporations, financial institutions, investment funds and governments. Services include strategic advisory assignments with respect to mergers and acquisitions, divestitures, corporate defense activities, restructurings, spin-offs and risk management, and debt and equity underwriting of public offerings and private placements, including local and cross-border transactions and acquisition financing, as well as derivative transactions directly related to these activities.

Institutional Client Services

The firm facilitates client transactions and makes markets in fixed income, equity, currency and commodity products, primarily with institutional clients such as corporations, financial institutions, investment funds and governments. The firm also makes markets in and clears client transactions on major stock, options and futures exchanges worldwide and provides financing, securities lending and other prime brokerage services to institutional clients.

Investing & Lending

The firm invests in and originates loans to provide financing to clients. These investments and loans are typically longer-term in nature. The firm makes investments, some of which are consolidated, including through its Merchant Banking business and its Special Situations Group, in debt securities and loans, public and private equity securities, infrastructure and real estate entities. Some of these investments are made indirectly through funds that the firm manages. The firm also makes unsecured and secured loans to retail clients through its digital platforms, *Marcus: by Goldman Sachs* (Marcus) and *Goldman Sachs Private Bank Select* (GS Select), respectively.

Investment Management

The firm provides investment management services and offers investment products (primarily through separately managed accounts and commingled vehicles, such as mutual funds and private investment funds) across all major

asset classes to a diverse set of institutional and individual clients. The firm also offers wealth advisory services provided by the firm's subsidiary, The Ayco Company, L.P., including portfolio management and financial planning and counseling, and brokerage and other transaction services to high-net-worth individuals and families.

Note 2.

Basis of Presentation

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

These consolidated financial statements are unaudited and should be read in conjunction with the audited consolidated financial statements included in the firm's Annual Report on Form 10-K for the year ended December 31, 2017. References to the 2017 Form 10-K are to the firm's Annual Report on Form 10-K for the year ended December 31, 2017. Certain disclosures included in the annual financial statements have been condensed or omitted from these financial statements as they are not required for interim financial statements under U.S. GAAP and the rules of the Securities and Exchange Commission.

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

All references to June 2018, March 2018 and June 2017 refer to the firm's periods ended, or the dates, as the context requires, June 30, 2018, March 31, 2018 and June 30, 2017, respectively. All references to December 2017 refer to the date December 31, 2017. Any reference to a future year refers to a year ending on December 31 of that year. Certain reclassifications have been made to previously reported amounts to conform to the current presentation.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Note 3.****Significant Accounting Policies**

The firm's significant accounting policies include when and how to measure the fair value of assets and liabilities, accounting for goodwill and identifiable intangible assets, and when to consolidate an entity. See Notes 5 through 8 for policies on fair value measurements, Note 13 for policies on goodwill and identifiable intangible assets, and below and Note 12 for policies on consolidation accounting. All other significant accounting policies are either described below or included in the following footnotes:

Financial Instruments Owned and Financial Instruments	
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Consolidation	

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

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

Variable Interest Entities. A VIE is an entity that lacks one or more of the characteristics of a voting interest entity. The firm has a controlling financial interest in a VIE when the firm has a variable interest or interests that provide it with (i) the power to direct the activities of the VIE that most significantly impact the VIE's economic performance and (ii) the obligation to absorb losses of the VIE or the right to receive benefits from the VIE that could potentially be significant to the VIE. See Note 12 for further information about VIEs.

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

In general, the firm accounts for investments acquired after the fair value option became available, at fair value. In certain cases, the firm applies the equity method of accounting to new investments that are strategic in nature or closely related to the firm's principal business activities, when the firm has a significant degree of involvement in the cash flows or operations of the investee or when cost-benefit considerations are less significant. See Note 13 for further information about equity-method investments.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Investment Funds. The firm has formed numerous investment funds with third-party investors. These funds are typically organized as limited partnerships or limited liability companies for which the firm acts as general partner or manager. Generally, the firm does not hold a majority of the economic interests in these funds. These funds are usually voting interest entities and generally are not consolidated because third-party investors typically have rights to terminate the funds or to remove the firm as general partner or manager. Investments in these funds are generally measured at net asset value (NAV) and are included in financial instruments owned. See Notes 6, 18 and 22 for further information about investments in funds.

Use of Estimates

Preparation of these consolidated financial statements requires management to make certain estimates and assumptions, the most important of which relate to fair value measurements, accounting for goodwill and identifiable intangible assets, discretionary compensation accruals, income tax expense related to the Tax Cuts and Jobs Act (Tax Legislation), provisions for losses that may arise from litigation and regulatory proceedings (including governmental investigations), the allowance for losses on loans receivable and lending commitments held for investment, and provisions for losses that may arise from tax audits. These estimates and assumptions are based on the best available information but actual results could be materially different.

Revenue Recognition

Financial Assets and Financial Liabilities at Fair Value. Financial instruments owned and financial instruments sold, but not yet purchased are recorded at fair value either under the fair value option or in accordance with other U.S. GAAP. In addition, the firm has elected to account for certain of its other financial assets and financial liabilities at fair value by electing the fair value option. The fair value of a financial instrument is the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Financial assets are marked to bid prices and financial liabilities are marked to offer prices. Fair value measurements do not include transaction costs. Fair value gains or losses are generally included in market making for positions in Institutional Client Services and other principal transactions for positions in Investing & Lending. See Notes 5 through 8 for further information about fair value measurements.

Revenue from Contracts with Clients. Beginning in January 2018, the firm accounts for revenue earned from contracts with clients for services such as investment banking, investment management, and execution and clearing (contracts with clients) under ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606). As such, revenues for these services are recognized when the performance obligations related to the underlying transaction are completed. See Recent Accounting Developments Revenue from Contracts with Customers (ASC 606) for further information.

The firm's net revenues from contracts with clients subject to this ASU represent approximately 50% and 45% of the firm's total net revenues for the three and six months ended June 2018, respectively. This includes approximately 80% of the firm's investment banking revenues, substantially all of the investment management revenues, and commissions

and fees for both the three and six months ended June 2018. See Note 25 for information about the firm's net revenues by business segment.

Investment Banking

Advisory. Fees from financial advisory assignments are recognized in revenues when the services related to the underlying transaction are completed under the terms of the assignment. Beginning in January 2018, non-refundable deposits and milestone payments in connection with financial advisory assignments are recognized in revenues upon completion of the underlying transaction or when the assignment is otherwise concluded. Prior to January 2018, non-refundable deposits and milestone payments were recognized in revenues in accordance with the terms of the contract.

Beginning in January 2018, non-compensation expenses associated with financial advisory assignments are recognized when incurred. Client reimbursements for such expenses are included in financial advisory revenues. Prior to January 2018, such expenses were deferred until the related revenue was recognized or the assignment was otherwise concluded and were presented net of client reimbursements.

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

Non-compensation expenses associated with underwriting assignments are deferred until the related revenue is recognized or the assignment is otherwise concluded. Beginning in January 2018, such expenses are presented as non-compensation expenses. Prior to January 2018, such expenses were presented net within underwriting revenues.

Investment Management

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

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

Distribution fees paid by the firm are calculated based on either a percentage of the management fee, the investment fund's net asset value or the committed capital. Beginning in January 2018, the firm presents such fees in brokerage, clearing, exchange and distribution fees. Prior to January 2018, where the firm was considered an agent to the arrangement, such fees were presented on a net basis in investment management revenues.

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

Beginning in January 2018, incentive fees earned from a fund or separately managed account are recognized when it is probable that a significant reversal of such fees will not occur, which is generally when such fees are no longer subject to fluctuations in the market value of investments held by the fund or separately managed account. Therefore, incentive fees recognized during the period may relate to performance obligations satisfied in previous periods. Prior to January 2018, incentive fees were recognized only when all material contingencies were resolved.

Commissions and Fees

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

Beginning in January 2018, costs incurred by the firm for research are presented net within commissions and fees. Prior to January 2018, costs incurred by the firm for research for certain soft-dollar arrangements were presented in brokerage, clearing, exchange and distribution fees.

Remaining Performance Obligations

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

The firm is able to determine the future revenues associated with management fees calculated based on committed capital. As of June 2018, substantially all of the firm's future net revenues associated with remaining performance obligations will be recognized through 2023. Annual revenues associated with such performance obligations average less than \$250 million through 2023.

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Transfers of Financial Assets

Transfers of financial assets are accounted for as sales when the firm has relinquished control over the assets transferred. For transfers of financial assets accounted for as sales, any gains or losses are recognized in net revenues. Assets or liabilities that arise from the firm's continuing involvement with transferred financial assets are initially recognized at fair value. For transfers of financial assets that are not accounted for as sales, the assets are generally included in financial instruments owned and the transfer is accounted for as a collateralized financing, with the related interest expense recognized over the life of the transaction. See Note 10 for further information about transfers of financial assets accounted for as collateralized financings and Note 11 for further information about transfers of financial assets accounted for as sales.

Cash and Cash Equivalents

The firm defines cash equivalents as highly liquid overnight deposits held in the ordinary course of business. As of June 2018 and December 2017, cash and cash equivalents included \$13.17 billion and \$10.79 billion, respectively, of cash and due from banks, and \$118.25 billion and \$99.26 billion, respectively, of interest-bearing deposits with banks. The firm segregates cash for regulatory and other purposes related to client activity. As of June 2018 and December 2017, \$22.62 billion and \$18.44 billion, respectively, of cash and cash equivalents were segregated for regulatory and other purposes. In addition, the firm segregates securities for regulatory and other purposes related to client activity. See Note 10 for further information about segregated securities.

Receivables from and Payables to Brokers, Dealers and Clearing Organizations

Receivables from and payables to brokers, dealers and clearing organizations are accounted for at cost plus accrued interest, which generally approximates fair value. While these receivables and payables are carried at amounts that approximate fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these receivables and payables been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both June 2018 and December 2017.

Receivables from Customers and Counterparties

Receivables from customers and counterparties generally relate to collateralized transactions. Such receivables primarily consist of customer margin loans, certain transfers of assets accounted for as secured loans rather than purchases at fair value and collateral posted in connection with certain derivative transactions. Substantially all of these receivables are accounted for at amortized cost net of estimated uncollectible amounts. Certain of the firm's receivables from customers and counterparties are accounted for at fair value under the fair value option, with changes in fair value generally included in market making revenues. See Note 8 for further information about receivables from customers and counterparties accounted for at fair value under the fair value option. In addition, as of June 2018 and December 2017, the firm's receivables from customers and counterparties included \$6.25 billion and \$4.63 billion,

respectively, of loans held for sale, accounted for at the lower of cost or fair value. See Note 5 for an overview of the firm's fair value measurement policies.

As of both June 2018 and December 2017, the carrying value of receivables not accounted for at fair value generally approximated fair value. While these receivables are carried at amounts that approximate fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these receivables been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both June 2018 and December 2017. Interest on receivables from customers and counterparties is recognized over the life of the transaction and included in interest income.

Receivables from customers and counterparties includes receivables from contracts with clients and, beginning in January 2018, also includes contract assets. Contract assets represent the firm's right to receive consideration for services provided in connection with its contracts with clients for which collection is conditional and not merely subject to the passage of time. As of June 2018, the firm's receivables from contracts with clients were \$1.93 billion and contract assets were not material.

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Payables to Customers and Counterparties

Payables to customers and counterparties primarily consist of customer credit balances related to the firm's prime brokerage activities. Payables to customers and counterparties are accounted for at cost plus accrued interest, which generally approximates fair value. While these payables are carried at amounts that approximate fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these payables been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both June 2018 and December 2017. Interest on payables to customers and counterparties is recognized over the life of the transaction and included in interest expense.

Offsetting Assets and Liabilities

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

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

In the consolidated statements of financial condition, derivatives are reported net of cash collateral received and posted under enforceable credit support agreements, when transacted under an enforceable netting agreement. In the consolidated statements of financial condition, resale and repurchase agreements, and securities borrowed and loaned, are not reported net of the related cash and securities received or posted as collateral. See Note 10 for further information about collateral received and pledged, including rights to deliver or repledge collateral. See Notes 7 and 10 for further information about offsetting.

Share-based Compensation

The cost of employee services received in exchange for a share-based award is generally measured based on the grant-date fair value of the award. Share-based awards that do not require future service (i.e., vested awards, including awards granted to retirement-eligible employees) are expensed immediately. Share-based awards that require future service are amortized over the relevant service period. Forfeitures are recorded when they occur. See *Recent Accounting Developments – Improvements to Employee Share-Based Payment Accounting (ASC 718)* for further information.

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

The firm generally issues new shares of common stock upon delivery of share-based awards. In certain cases, primarily related to conflicted employment (as outlined in the applicable award agreements), the firm may cash settle share-based compensation awards accounted for as equity instruments. For these awards, whose terms allow for cash settlement, additional paid-in capital is adjusted to the extent of the difference between the value of the award at the time of cash settlement and the grant-date value of the award.

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Foreign Currency Translation

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

Recent Accounting Developments

Revenue from Contracts with Customers (ASC 606). In May 2014, the FASB issued ASU No. 2014-09. This ASU, as amended, provides comprehensive guidance on the recognition of revenue earned from contracts with customers arising from the transfer of goods and services, guidance on accounting for certain contract costs and new disclosures.

The firm adopted this ASU in January 2018 under a modified retrospective approach. As a result of adopting this ASU, the firm, among other things, delays recognition of non-refundable and milestone payments on financial advisory assignments until the assignments are completed, and recognizes certain investment management fees earlier than under the firm's previous revenue recognition policies.

The firm also prospectively changed the presentation of certain costs from a net presentation within revenues to a gross basis, and vice versa. Beginning in 2018, certain underwriting expenses, which were netted against investment banking revenues and certain distribution fees, which were netted against investment management revenues, are presented gross as non-compensation expenses. Costs incurred in connection with certain soft-dollar arrangements, which were presented gross as non-compensation expenses, are presented net within commissions and fees.

Net revenues and non-compensation expenses both increased by approximately \$80 million and \$130 million for the three and six months ended June 2018, respectively, due to the changes in the presentation of certain costs from a net presentation within revenues to a gross basis. In addition, net revenues increased by approximately \$40 million for both the three and six months ended June 2018, reflecting certain investment management fees which are now recognized earlier than under the firm's previous revenue recognition policies.

Recognition and Measurement of Financial Assets and Financial Liabilities (ASC 825). In January 2016, the FASB issued ASU No. 2016-01, Financial Instruments (Topic 825) Recognition and Measurement of Financial Assets and Financial Liabilities. This ASU amends certain aspects of recognition, measurement, presentation and disclosure of financial instruments. It includes a requirement to present separately in other comprehensive income changes in fair value attributable to a firm's own credit spreads (debt valuation adjustment or DVA), net of tax, on financial liabilities for which the fair value option was elected.

In January 2016, the firm early adopted this ASU for the requirements related to DVA and reclassified the cumulative DVA, a gain of \$305 million (net of tax), from retained earnings to accumulated other comprehensive loss. The adoption of the remaining provisions of the ASU in January 2018 did not have a material impact on the firm's financial condition, results of operations or cash flows.

Leases (ASC 842). In February 2016, the FASB issued ASU No. 2016-02, Leases (Topic 842). This ASU requires that, for leases longer than one year, a lessee recognize in the statements of financial condition a right-of-use asset, representing the right to use the underlying asset for the lease term, and a lease liability, representing the liability to make lease payments. It also requires that for finance leases, a lessee recognize interest expense on the lease liability, separately from the amortization of the right-of-use asset in the statements of earnings, while for operating leases, such amounts should be recognized as a combined expense. It also requires that for qualifying sale-leaseback transactions the seller recognize the gain or loss at the time control of the asset is transferred instead of amortizing it over the lease period. In addition, this ASU requires expanded disclosures about the nature and terms of lease agreements.

The ASU is effective for the firm in January 2019 under a modified retrospective approach. Early adoption is permitted. The firm's implementation efforts include reviewing the terms of existing leases and service contracts, which may include embedded leases. Based on the implementation efforts to date, the firm expects a gross up of approximately \$2 billion on its consolidated statements of financial condition upon recognition of the right-of-use assets and lease liabilities.

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Improvements to Employee Share-Based Payment Accounting (ASC 718). In March 2016, the FASB issued ASU No. 2016-09, Compensation—Stock Compensation (Topic 718) Improvements to Employee Share-Based Payment Accounting. This ASU includes a requirement that the tax effect related to the settlement of share-based awards be recorded in income tax benefit or expense in the statements of earnings rather than directly to additional paid-in capital. This change has no impact on total shareholders' equity and is required to be adopted prospectively. The ASU also allows for forfeitures to be recorded when they occur rather than estimated over the vesting period. This change is required to be applied on a modified retrospective basis.

The firm adopted the ASU in January 2017 and subsequent to the adoption, the tax effect related to the settlement of share-based awards is recognized in the statements of earnings rather than directly to additional paid-in capital. The firm also elected to account for forfeitures as they occur, rather than to estimate forfeitures over the vesting period, and the cumulative effect of this election upon adoption was an increase of \$35 million to share-based awards and a decrease of \$24 million (net of tax of \$11 million) to retained earnings.

In addition, the ASU modifies the classification of certain share-based payment activities within the statements of cash flows. Upon adoption, the firm reclassified amounts related to such activities within the consolidated statements of cash flows, on a retrospective basis.

Measurement of Credit Losses on Financial Instruments (ASC 326). In June 2016, the FASB issued ASU No. 2016-13, Financial Instruments—Credit Losses (Topic 326) Measurement of Credit Losses on Financial Instruments. This ASU amends several aspects of the measurement of credit losses on financial instruments, including replacing the existing incurred credit loss model and other models with the Current Expected Credit Losses (CECL) model and amending certain aspects of accounting for purchased financial assets with deterioration in credit quality since origination.

Under CECL, the allowance for losses for financial assets that are measured at amortized cost reflects management's estimate of credit losses over the remaining expected life of the financial assets. Expected credit losses for newly recognized financial assets, as well as changes to expected credit losses during the period, would be recognized in earnings. For certain purchased financial assets with deterioration in credit quality since origination, an initial allowance would be recorded for expected credit losses and recognized as an increase to the purchase price rather than as an expense. Expected credit losses, including losses on off-balance-sheet exposures such as lending commitments, will be measured based on historical experience, current conditions and forecasts that affect the collectability of the reported amount.

The ASU is effective for the firm in January 2020 under a modified retrospective approach. Early adoption is permitted in January 2019. Adoption of the ASU will result in earlier recognition of credit losses and an increase in the recorded allowance for certain purchased loans with deterioration in credit quality since origination with a corresponding increase to their gross carrying value. The firm is currently in the process of identifying and developing the changes to the firm's existing allowance models and processes that will be required under CECL. The impact of adoption of this ASU on the firm's financial condition, results of operations and cash flows will depend on, among

other things, the economic environment and the type of financial assets held by the firm on the date of adoption.

Classification of Certain Cash Receipts and Cash Payments (ASC 230). In August 2016, the FASB issued ASU No. 2016-15, Statement of Cash Flows (Topic 230) Classification of Certain Cash Receipts and Cash Payments. This ASU provides guidance on the disclosure and classification of certain items within the statements of cash flows.

The firm adopted this ASU in January 2018 under a retrospective approach. The impact of adoption was an increase of \$244 million to net cash used for operating activities, a decrease of \$236 million to net cash used for investing activities and an increase of \$8 million to net cash provided by financing activities for the six months ended June 2017.

Clarifying the Definition of a Business (ASC 805). In January 2017, the FASB issued ASU No. 2017-01, Business Combinations (Topic 805) Clarifying the Definition of a Business. The ASU amends the definition of a business and provides a threshold which must be considered to determine whether a transaction is an acquisition (or disposal) of an asset or a business.

The firm adopted this ASU in January 2018 under a prospective approach. Adoption of the ASU did not have a material impact on the firm's financial condition, results of operations or cash flows. The firm expects that fewer transactions will be treated as acquisitions (or disposals) of businesses as a result of adopting this ASU.

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Simplifying the Test for Goodwill Impairment (ASC 350). In January 2017, the FASB issued ASU No. 2017-04, Intangibles—Goodwill and Other (Topic 350)—Simplifying the Test for Goodwill Impairment. The ASU simplifies the quantitative goodwill impairment test by eliminating the second step of the test. Under this ASU, impairment will be measured by comparing the estimated fair value of the reporting unit with its carrying value.

The ASU is effective for the firm in 2020. The firm early adopted this ASU in the fourth quarter of 2017. Adoption of the ASU did not have a material impact on the results of the firm's goodwill impairment test.

Clarifying the Scope of Asset Derecognition Guidance and Accounting for Partial Sales of Nonfinancial Assets (ASC 610-20). In February 2017, the FASB issued ASU No. 2017-05, Other Income—Gains and Losses from the Derecognition of Nonfinancial Assets (Subtopic 610-20)—Clarifying the Scope of Asset Derecognition Guidance and Accounting for Partial Sales of Nonfinancial Assets. The ASU clarifies the scope of guidance applicable to sales of nonfinancial assets and also provides guidance on accounting for partial sales of such assets.

The firm adopted this ASU in January 2018 under a modified retrospective approach. Adoption of the ASU did not have an impact on the firm's financial condition, results of operations or cash flows.

Targeted Improvements to Accounting for Hedging Activities (ASC 815). In August 2017, the FASB issued ASU No. 2017-12, Derivatives and Hedging (Topic 815)—Targeted Improvements to Accounting for Hedging Activities. The ASU amends certain rules for hedging relationships, expands the types of strategies that are eligible for hedge accounting treatment to more closely align the results of hedge accounting with risk management activities and amends disclosure requirements related to fair value and net investment hedges.

The firm early adopted this ASU in January 2018 under a modified retrospective approach for hedge accounting treatment, and under a prospective approach for the amended disclosure requirements. Adoption of this ASU did not have a material impact on the firm's financial condition, results of operations or cash flows. See Note 7 for further information.

Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income (ASC 220). In February 2018, the FASB issued ASU No. 2018-02, Income Statement—Reporting Comprehensive Income (Topic 220)—Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income. This ASU permits a reporting entity to reclassify the income tax effects of Tax Legislation on items within accumulated other comprehensive income to retained earnings.

The ASU is effective for the firm in January 2019 under a retrospective or a modified retrospective approach. Early adoption is permitted. Since this ASU only permits reclassification within shareholders' equity, adoption of this ASU will not have a material impact on the firm's financial condition.

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Notes to Consolidated Financial Statements**(Unaudited)****Note 4.****Financial Instruments Owned and Financial Instruments Sold, But Not Yet Purchased**

Financial instruments owned and financial instruments sold, but not yet purchased are accounted for at fair value either under the fair value option or in accordance with other U.S. GAAP. See Note 8 for information about other financial assets and financial liabilities at fair value.

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

<i>\$ in millions</i>	Financial Instruments Owned	Financial Instruments Sold, But Not Yet Purchased
<u>As of June 2018</u>		
Money market instruments	\$ 3,274	\$
Government and agency obligations:		
U.S.	86,660	11,207
Non-U.S.	38,561	24,068
Loans and securities backed by:		
Commercial real estate	3,842	
Residential real estate	10,386	6
Corporate debt instruments	35,072	11,020
State and municipal obligations	1,653	
Other debt obligations	1,933	1
Equity securities	109,961	28,903
Commodities	5,109	
Investments in funds at NAV	4,020	
Subtotal	300,471	75,205
Derivatives	47,488	37,542
Total	\$347,959	\$112,747

As of December 2017

Money market instruments	\$ 1,608	\$
Government and agency obligations:		
U.S.	76,418	17,911
Non-U.S.	33,956	23,311
Loans and securities backed by:		
Commercial real estate	3,436	1
Residential real estate	11,993	
Corporate debt instruments	33,683	7,153
State and municipal obligations	1,471	
Other debt obligations	2,164	1
Equity securities	96,132	23,882
Commodities	3,194	40
Investments in funds at NAV	4,596	
Subtotal	268,651	72,299
Derivatives	47,337	39,631
Total	\$315,988	\$111,930

In the table above:

Money market instruments includes commercial paper, certificates of deposit and time deposits, substantially all of which have a maturity of less than one year.

Corporate debt instruments includes corporate loans and debt securities.

Equity securities includes public and private equities, exchange-traded funds and convertible debentures. Such amounts include investments accounted for at fair value under the fair value option where the firm would otherwise apply the equity method of accounting of \$8.85 billion as of June 2018 and \$8.49 billion as of December 2017.

Gains and Losses from Market Making and Other Principal Transactions

The table below presents market making revenues by major product type, as well as other principal transactions revenues.

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Interest rates	\$(3,222)	\$ 2,625	\$(2,317)	\$ 3,989
Credit	548	382	866	926
Currencies	3,093	(2,422)	3,495	(2,740)
Equities	2,025	1,293	3,161	1,871
Commodities	102	37	545	287
Market making	2,546	1,915	5,750	4,333
Other principal transactions	1,286	1,227	2,906	2,448
Total	\$ 3,832	\$ 3,142	\$ 8,656	\$ 6,781

In the table above:

Gains/(losses) include both realized and unrealized gains and losses, and are primarily related to the firm's financial instruments owned and financial instruments sold, but not yet purchased, including both derivative and non-derivative financial instruments.

Gains/(losses) exclude related interest income and interest expense. See Note 23 for further information about interest income and interest expense.

Gains/(losses) on other principal transactions are included in the firm's Investing & Lending segment. See Note 25 for net revenues, including net interest income, by product type for Investing & Lending, as well as the amount of net interest income included in Investing & Lending.

Gains/(losses) are not representative of the manner in which the firm manages its business activities because many of the firm's market-making and client facilitation strategies utilize financial instruments across various product types. Accordingly, gains or losses in one product type frequently offset gains or losses in other product types. For example, most of the firm's longer-term derivatives across product types are sensitive to changes in interest rates and may be economically hedged with interest rate swaps. Similarly, a significant portion of the firm's cash instruments and derivatives across product types has exposure to foreign currencies and may be economically hedged with foreign currency contracts.

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Note 5.

Fair Value Measurements

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

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

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

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

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

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

The fair values for substantially all of the firm's financial assets and financial liabilities are based on observable prices and inputs and are classified in levels 1 and 2 of the fair value hierarchy. Certain level 2 and level 3 financial assets and 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 firm's credit quality, funding risk, transfer restrictions, liquidity and bid/offer spreads. Valuation adjustments are generally based on market evidence.

See Notes 6 through 8 for further information about fair value measurements of cash instruments, derivatives and other financial assets and financial liabilities at fair value.

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The table below presents financial assets and financial liabilities accounted for at fair value under the fair value option or in accordance with other U.S. GAAP.

<i>\$ in millions</i>	June 2018	As of March 2018	December 2017
Total level 1 financial assets	\$180,345	\$169,447	\$155,086
Total level 2 financial assets	378,977	404,152	395,606
Total level 3 financial assets	20,516	21,057	19,201
Investments in funds at NAV	4,020	4,043	4,596
Counterparty and cash collateral netting	(56,699)	(59,502)	(56,366)
Total financial assets at fair value	\$527,159	\$539,197	\$518,123
Total assets	\$968,610	\$973,535	\$916,776

Total level 3 financial assets divided by:

Total assets	2.1%	2.2%	2.1%
Total financial assets at fair value	3.9%	3.9%	3.7%
Total level 1 financial liabilities	\$ 62,401	\$ 73,176	\$ 63,589
Total level 2 financial liabilities	279,805	289,362	261,719
Total level 3 financial liabilities	21,193	20,256	19,620
Counterparty and cash collateral netting	(37,538)	(42,652)	(39,866)
Total financial liabilities at fair value	\$325,861	\$340,142	\$305,062

Total level 3 financial liabilities divided by

total financial liabilities at fair value **6.5%** 6.0% 6.4%

In the table above:

Counterparty netting among positions classified in the same level is included in that level.

Counterparty and cash collateral netting represents the impact on derivatives of netting across levels of the fair value hierarchy.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)**

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

<i>\$ in millions</i>	June 2018	As of March 2018	December 2017
Cash instruments	\$16,216	\$16,942	\$15,395
Derivatives	4,293	4,114	3,802
Other financial assets	7	1	4
Total	\$20,516	\$21,057	\$19,201

Level 3 financial assets as of June 2018 decreased compared with March 2018, reflecting a decrease in level 3 cash instruments. Level 3 financial assets as of June 2018 increased compared with December 2017, primarily reflecting an increase in level 3 cash instruments. See Notes 6 through 8 for further information about level 3 financial assets (including information about unrealized gains and losses related to level 3 financial assets and financial liabilities, and transfers in and out of level 3).

Note 6.**Cash Instruments**

Cash instruments include U.S. government and agency obligations, non-U.S. government and agency obligations, mortgage-backed loans and securities, corporate debt instruments, equity securities, investments in funds at NAV, and other non-derivative financial instruments owned and financial instruments sold, but not yet purchased. See below for the types of cash instruments included in each level of the fair value hierarchy and the valuation techniques and significant inputs used to determine their fair values. See Note 5 for an overview of the firm's fair value measurement policies.

Level 1 Cash Instruments

Level 1 cash instruments include certain money market instruments, U.S. government obligations, most non-U.S. government obligations, certain government agency obligations, certain corporate debt instruments and actively traded listed equities. These instruments are valued using quoted prices for identical unrestricted instruments in active markets.

The firm defines active markets for equity instruments based on the average daily trading volume both in absolute terms and relative to the market capitalization for the instrument. The firm defines active markets for debt instruments based on both the average daily trading volume and the number of days with trading activity.

Level 2 Cash Instruments

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

Valuations of 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 firm uses other methodologies to determine fair value, which vary based on the type of instrument. Valuation inputs and assumptions are changed when corroborated by substantive observable evidence, including values realized on sales.

Valuation Techniques and Significant Inputs of Level 3 Cash Instruments

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:

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

Market yields implied by transactions of similar or related assets and/or current levels and changes in market indices such as the CMBX (an index that tracks the performance of commercial mortgage bonds);

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Transaction prices in both the underlying collateral and instruments with the same or similar underlying collateral;

A measure of expected future cash flows in a default scenario (recovery rates) implied by the value of the underlying collateral, which is mainly driven by current performance of the underlying collateral, capitalization rates and multiples. Recovery rates are expressed as a percentage of notional or face value of the instrument and reflect the benefit of credit enhancements on certain instruments; and

Timing of expected future cash flows (duration) which, in certain cases, may incorporate the impact of other unobservable inputs (e.g., prepayment speeds).

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

Market yields implied by transactions of similar or related assets;

Transaction prices in both the underlying collateral and instruments with the same or similar underlying collateral;

Cumulative loss expectations, driven by default rates, home price projections, residential property liquidation timelines, related costs and subsequent recoveries; and

Duration, driven by underlying loan prepayment speeds and residential property liquidation timelines.

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

Market yields implied by transactions of similar or related assets and/or current levels and trends of market indices, such as the CDX (an index that tracks the performance of corporate credit);

Current performance and recovery assumptions and, where the firm uses credit default swaps to value the related cash instrument, the cost of borrowing the underlying reference obligation; and

Duration.

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 (primarily EBITDA multiples) and public comparables;

Transactions in similar instruments;

Discounted cash flow techniques; and

Third-party appraisals.

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

Market and transaction multiples;

Discount rates and capitalization rates; and

For equity securities with debt-like features, market yields implied by transactions of similar or related assets, current performance and recovery assumptions, and duration.

Other Cash Instruments. Other cash instruments consists of non-U.S. government and agency obligations, state and municipal obligations, and other debt 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 and/or current levels and trends of market indices;

Current performance and recovery assumptions and, where the firm uses credit default swaps to value the related cash instrument, the cost of borrowing the underlying reference obligation; and

Duration.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Fair Value of Cash Instruments by Level**

The tables below present cash instrument assets and liabilities at fair value by level within the fair value hierarchy.

<i>\$ in millions</i>	As of June 2018			Total
	Level 1	Level 2	Level 3	
Assets				
Money market instruments	\$ 1,039	\$ 2,235	\$	\$ 3,274
Government and agency obligations:				
U.S.	58,191	28,469		86,660
Non-U.S.	31,211	7,345	5	38,561
Loans and securities backed by:				
Commercial real estate		2,748	1,094	3,842
Residential real estate		9,597	789	10,386
Corporate debt instruments	601	31,080	3,391	35,072
State and municipal obligations		1,618	35	1,653
Other debt obligations		1,592	341	1,933
Equity securities	89,287	10,113	10,561	109,961
Commodities		5,109		5,109
Subtotal	\$180,329	\$ 99,906	\$16,216	\$296,451
Investments in funds at NAV				4,020
Total cash instrument assets				\$300,471
Liabilities				
Government and agency obligations:				
U.S.	\$ (11,170)	\$ (37)	\$	\$ (11,207)
Non-U.S.	(22,336)	(1,732)		(24,068)
Loans and securities backed by residential real estate				
Corporate debt instruments	(10)	(10,973)	(37)	(11,020)
Other debt obligations		(1)		(1)
Equity securities	(28,875)	(12)	(16)	(28,903)
Total cash instrument liabilities	\$ (62,391)	\$ (12,761)	\$ (53)	\$ (75,205)

<i>\$ in millions</i>	As of December 2017			Total
	Level 1	Level 2	Level 3	
Assets				
Money market instruments	\$ 398	\$ 1,209	\$ 1	\$ 1,608
Government and agency obligations:				

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U.S.	50,796	25,622		76,418
Non-U.S.	27,070	6,882	4	33,956
Loans and securities backed by:				
Commercial real estate		2,310	1,126	3,436
Residential real estate		11,325	668	11,993
Corporate debt instruments	752	29,661	3,270	33,683
State and municipal obligations		1,401	70	1,471
Other debt obligations		1,812	352	2,164
Equity securities	76,044	10,184	9,904	96,132
Commodities		3,194		3,194
Subtotal	\$155,060	\$ 93,600	\$15,395	\$264,055
Investments in funds at NAV				4,596
Total cash instrument assets				\$268,651
Liabilities				
Government and agency obligations:				
U.S.	\$ (17,845)	\$ (66)	\$	\$ (17,911)
Non-U.S.	(21,820)	(1,491)		(23,311)
Loans and securities backed by commercial real estate				
Corporate debt instruments	(2)	(7,099)	(52)	(7,153)
Other debt obligations		(1)		(1)
Equity securities	(23,866)		(16)	(23,882)
Commodities		(40)		(40)
Total cash instrument liabilities	\$ (63,533)	\$ (8,698)	\$ (68)	\$ (72,299)
In the tables above:				

Cash instrument assets and liabilities are included in financial instruments owned and financial instruments sold, but not yet purchased, respectively.

Cash instrument assets are shown as positive amounts and cash instrument liabilities are shown as negative amounts.

Money market instruments includes commercial paper, certificates of deposit and time deposits, substantially all of which have a maturity of less than one year.

Corporate debt instruments includes corporate loans and debt securities.

Equity securities includes public and private equities, exchange-traded funds and convertible debentures.

As of both June 2018 and December 2017, substantially all of the firm's level 3 equity securities consisted of private equity securities.

Total cash instrument assets included collateralized loan obligations backed by corporate obligations of \$746 million and \$912 million in level 2, and \$220 million and \$166 million in level 3 as of June 2018 and

December 2017, respectively. Collateralized debt obligations (CDOs) included in cash instruments were not material as of both June 2018 and December 2017.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Significant Unobservable Inputs**

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

	Level 3 Assets and Range of Significant	
	Unobservable Inputs (Weighted Average) as of	
	June	December
<i>\$ in millions</i>	2018	2017
Loans and securities backed by commercial real estate		
Level 3 assets	\$1,094	\$1,126
Yield	3.3% to 22.5% (11.9%)	4.6% to 22.0% (13.4%)
Recovery rate	11.3% to 90.6% (56.5%)	14.3% to 89.0% (43.8%)
Duration (years)	0.6 to 6.2 (2.4)	0.8 to 6.4 (2.1)
Loans and securities backed by residential real estate		
Level 3 assets	\$789	\$668
Yield	2.4% to 16.6% (9.5%)	2.3% to 15.0% (8.3%)
Cumulative loss rate	8.6% to 38.3% (18.6%)	12.5% to 43.0% (21.8%)
Duration (years)	1.4 to 14.8 (6.7)	0.7 to 14.0 (6.9)
Corporate debt instruments		
Level 3 assets	\$3,391	\$3,270
Yield	1.8% to 30.2% (11.9%)	3.6% to 24.5% (12.3%)
Recovery rate	0.0% to 85.0% (56.1%)	0.0% to 85.3% (62.8%)
Duration (years)	0.3 to 6.6 (3.2)	0.5 to 7.6 (3.2)
Equity securities		
Level 3 assets	\$10,561	\$9,904
Multiples	1.1x to 33.1x (8.5x)	1.1x to 30.5x (8.9x)
Discount rate/yield	6.1% to 25.0% (14.9%)	3.0% to 20.3% (14.0%)
Capitalization rate	4.3% to 12.5% (6.1%)	4.3% to 12.0% (6.1%)
Other cash instruments		
Level 3 assets	\$381	\$427
Yield	4.1% to 10.3% (8.9%)	4.0% to 11.7% (8.4%)
Duration (years)	3.4 to 6.2 (4.4)	3.5 to 11.4 (5.1)

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 multiple for private equity securities is appropriate for valuing a specific private equity security but may not be appropriate for valuing any other private equity security. Accordingly, the ranges of inputs do not represent uncertainty in, or possible ranges of, fair value measurements of the firm's level 3 cash instruments.

Increases in yield, discount rate, capitalization rate, duration or cumulative loss rate used in the valuation of the firm'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 firm's level 3 cash instruments, the interrelationship of inputs is not necessarily uniform within each product type.

Loans and securities backed by commercial and residential real estate, 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.

Transfers Between Levels of the Fair Value Hierarchy

Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. See "Level 3 Rollforward" below for information about transfers between level 2 and level 3.

During the three and six months ended June 2018, transfers into level 2 from level 1 of cash instruments were \$70 million and \$22 million, respectively, reflecting transfers of public equity securities due to decreased market activity in these instruments. Transfers into level 1 from level 2 of cash instruments during the three and six months ended June 2018, were \$23 million and \$57 million, respectively, reflecting transfers of public equity securities due to increased market activity in these instruments.

During the three and six months ended June 2017, transfers into level 2 from level 1 of cash instruments were \$66 million and \$168 million, respectively, reflecting transfers of public equity securities due to decreased market activity in these instruments. Transfers into level 1 from level 2 of cash instruments during the three and six months ended June 2017, were \$138 million and \$178 million, respectively, reflecting transfers of public equity securities due to increased market activity in these instruments.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Level 3 Rollforward**

The table below presents a summary of the changes in fair value for level 3 cash instrument assets and liabilities.

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June 2018	2017	Ended June 2018	2017
Total cash instrument assets				
Beginning balance	\$16,942	\$18,324	\$15,395	\$18,035
Net realized gains/(losses)	114	119	278	230
Net unrealized gains/(losses)	(126)	554	143	892
Purchases	702	518	1,168	1,026
Sales	(882)	(693)	(1,152)	(1,299)
Settlements	(833)	(697)	(1,208)	(1,281)
Transfers into level 3	1,852	774	3,292	1,717
Transfers out of level 3	(1,553)	(2,703)	(1,700)	(3,124)
Ending balance	\$16,216	\$16,196	\$16,216	\$16,196
Total cash instrument liabilities				
Beginning balance	\$ (39)	\$ (49)	\$ (68)	\$ (62)
Net realized gains/(losses)	2	1		
Net unrealized gains/(losses)	5	(1)	3	3
Purchases	15	40	22	50
Sales	(17)	(27)	(24)	(33)
Settlements	(2)	(5)	17	(1)
Transfers into level 3	(20)	(6)	(11)	(2)
Transfers out of level 3	3	5	8	3
Ending balance	\$ (53)	\$ (42)	\$ (53)	\$ (42)

In the table above:

Changes in fair value are presented for all cash instrument assets and liabilities that are classified in level 3 as of the end of the period.

Net unrealized gains/(losses) relates to instruments that were still held at period-end.

Purchases includes originations and secondary purchases.

If a cash instrument asset or liability was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.

For level 3 cash instrument assets, increases are shown as positive amounts, while decreases are shown as negative amounts. For level 3 cash instrument liabilities, increases are shown as negative amounts, while decreases are shown as positive amounts.

Level 3 cash instruments are frequently economically hedged with level 1 and level 2 cash instruments and/or level 1, level 2 or level 3 derivatives. Accordingly, gains or losses that are classified in level 3 can be partially offset by gains or losses attributable to level 1 or level 2 cash instruments and/or level 1, level 2 or level 3 derivatives. As a result, gains or losses included in the level 3 rollforward below do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June 2018	2017	Ended June 2018	2017
Loans and securities backed by commercial real estate				
Beginning balance	\$ 1,266	\$ 1,604	\$ 1,126	\$ 1,645
Net realized gains/(losses)	21	12	48	23
Net unrealized gains/(losses)	(26)	57	(27)	78
Purchases	56	116	85	166
Sales	(28)	(60)	(67)	(110)
Settlements	(181)	(167)	(247)	(298)
Transfers into level 3	97	82	293	134
Transfers out of level 3	(111)	(244)	(117)	(238)
Ending balance	\$ 1,094	\$ 1,400	\$ 1,094	\$ 1,400
Loans and securities backed by residential real estate				
Beginning balance	\$ 673	\$ 830	\$ 668	\$ 845
Net realized gains/(losses)	13	11	35	27
Net unrealized gains/(losses)	2	60	4	80
Purchases	47	93	118	121
Sales	(93)	(158)	(140)	(214)
Settlements	(59)	(38)	(80)	(69)
Transfers into level 3	281	38	255	40
Transfers out of level 3	(75)	(29)	(71)	(23)
Ending balance	\$ 789	\$ 807	\$ 789	\$ 807
Corporate debt instruments				
Beginning balance	\$ 3,358	\$ 4,553	\$ 3,270	\$ 4,640
Net realized gains/(losses)	52	55	117	105
Net unrealized gains/(losses)	(109)	20	(66)	108
Purchases	364	200	491	491

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Sales	(164)	(212)	(294)	(630)
Settlements	(301)	(289)	(517)	(507)
Transfers into level 3	597	527	765	806
Transfers out of level 3	(406)	(1,209)	(375)	(1,368)
Ending balance	\$ 3,391	\$ 3,645	\$ 3,391	\$ 3,645
Equity securities				
Beginning balance	\$11,246	\$10,715	\$ 9,904	\$10,263
Net realized gains/(losses)	28	38	74	65
Net unrealized gains/(losses)	(3)	402	223	618
Purchases	205	90	431	186
Sales	(588)	(256)	(627)	(290)
Settlements	(253)	(163)	(289)	(330)
Transfers into level 3	877	124	1,974	726
Transfers out of level 3	(951)	(1,117)	(1,129)	(1,405)
Ending balance	\$10,561	\$ 9,833	\$10,561	\$ 9,833
Other cash instruments				
Beginning balance	\$ 399	\$ 622	\$ 427	\$ 642
Net realized gains/(losses)		3	4	10
Net unrealized gains/(losses)	10	15	9	8
Purchases	30	19	43	62
Sales	(9)	(7)	(24)	(55)
Settlements	(39)	(40)	(75)	(77)
Transfers into level 3		3	5	11
Transfers out of level 3	(10)	(104)	(8)	(90)
Ending balance	\$ 381	\$ 511	\$ 381	\$ 511

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Level 3 Rollforward Commentary

Three Months Ended June 2018. The net realized and unrealized losses on level 3 cash instrument assets of \$12 million (reflecting \$114 million of net realized gains and \$126 million of net unrealized losses) for the three months ended June 2018 included gains/(losses) of approximately \$4 million, \$(171) million and \$155 million reported in market making, other principal transactions and interest income, respectively.

The net unrealized losses on level 3 cash instrument assets for the three months ended June 2018 primarily reflected losses on certain corporate debt instruments, principally driven by weak corporate performance and company-specific events.

Transfers into level 3 during the three months ended June 2018 primarily reflected transfers of certain private equity securities and corporate debt instruments from level 2, principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments.

Transfers out of level 3 during the three months ended June 2018 primarily reflected transfers of certain private equity securities and corporate debt instruments to level 2, principally due to increased price transparency as a result of market evidence, including market transactions in these instruments, and transfers of certain other corporate debt instruments to level 2, principally due to certain unobservable yield and duration inputs no longer being significant to the valuation of these instruments.

Six Months Ended June 2018. The net realized and unrealized gains on level 3 cash instrument assets of \$421 million (reflecting \$278 million of net realized gains and \$143 million of net unrealized gains) for the six months ended June 2018 included gains/(losses) of approximately \$(2) million, \$180 million and \$243 million reported in market making, other principal transactions and interest income, respectively.

The net unrealized gains on level 3 cash instrument assets for the six months ended June 2018 reflected gains on private equity securities, principally driven by strong corporate performance and company-specific events.

Transfers into level 3 during the six months ended June 2018 primarily reflected transfers of certain private equity securities and corporate debt instruments from level 2, principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments.

Transfers out of level 3 during the six months ended June 2018 primarily reflected transfers of certain private equity securities and corporate debt instruments to level 2, principally due to increased price transparency as a result of market evidence, including market transactions in these instruments and transfers of certain other corporate debt instruments to level 2, principally due to certain unobservable yield and duration inputs no longer being significant to the valuation of these instruments.

Three Months Ended June 2017. The net realized and unrealized gains on level 3 cash instrument assets of \$673 million (reflecting \$119 million of net realized gains and \$554 million of net unrealized gains) for the three months ended June 2017 included gains/(losses) of approximately \$(26) million, \$556 million and \$143 million reported in market making, other principal transactions and interest income, respectively.

The net unrealized gains on level 3 cash instrument assets for the three months ended June 2017 primarily reflected gains on private equity securities, principally driven by strong corporate performance and company-specific events.

Transfers into level 3 during the three months ended June 2017 primarily reflected transfers of certain corporate debt instruments from level 2, principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments.

Transfers out of level 3 during the three months ended June 2017 primarily reflected transfers of certain corporate debt instruments to level 2, principally due to certain unobservable yield and duration inputs no longer being significant to the valuation of these instruments, and transfers of certain private equity securities and corporate debt instruments to level 2, principally due to increased price transparency as a result of market evidence, including market transactions in these instruments.

Six Months Ended June 2017. The net realized and unrealized gains on level 3 cash instrument assets of \$1.12 billion (reflecting \$230 million of net realized gains and \$892 million of net unrealized gains) for the six months ended June 2017 included gains/(losses) of approximately \$(35) million, \$884 million and \$273 million reported in market making, other principal transactions and interest income, respectively.

The net unrealized gains on level 3 cash instrument assets for the six months ended June 2017 primarily reflected gains on private equity securities, principally driven by strong corporate performance and company-specific events.

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Transfers into level 3 during the six months ended June 2017 primarily reflected transfers of certain corporate debt instruments and private equity securities from level 2, principally due to reduced price transparency as a result of a lack of market evidence, including fewer market transactions in these instruments.

Transfers out of level 3 during the six months ended June 2017 primarily reflected transfers of certain private equity securities and corporate debt instruments to level 2, principally due to increased price transparency as a result of market evidence, including market transactions in these instruments, and transfers of certain corporate debt instruments to level 2, principally due to certain unobservable yield and duration inputs no longer being significant to the valuation of these instruments.

Available-for-Sale Securities

The table below presents details about cash instruments that are accounted for as available-for-sale.

<i>\$ in millions</i>	Amortized Cost	Fair Value	Weighted Average Yield
<u>As of June 2018</u>			
Less than 5 years	\$ 5,994	\$ 5,856	2.10%
Greater than 5 years	6,224	6,053	2.44%
Total U.S. government obligations	12,218	11,909	2.28%
Greater than 5 years	10	10	5.03%
Total other available-for-sale securities	10	10	5.03%
Total available-for-sale securities	\$12,228	\$11,919	2.28%

As of December 2017

Less than 5 years	\$ 3,834	\$ 3,800	1.95%
Greater than 5 years	5,207	5,222	2.41%
Total U.S. government obligations	9,041	9,022	2.22%
Less than 5 years	19	19	0.43%
Greater than 5 years	233	235	4.62%
Total other available-for-sale securities	252	254	4.30%
Total available-for-sale securities	\$ 9,293	\$ 9,276	2.27%

In the table above:

U.S. government obligations were classified in level 1 of the fair value hierarchy as of both June 2018 and December 2017.

Other available-for-sale securities includes corporate debt securities that were classified in level 2 of the fair value hierarchy as of June 2018. As of December 2017, other available-for-sale securities includes corporate debt securities, other debt obligations, securities backed by commercial real estate and money market instruments, substantially all of which were classified in level 2 of the fair value hierarchy.

The gross unrealized losses included in accumulated other comprehensive loss were \$309 million as of June 2018 and related to U.S. government obligations, which were in a continuous unrealized loss position for less than a year. Such losses were not material as of December 2017.

Investments in Funds at Net Asset Value Per Share

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

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

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

The firm also invests in hedge funds, primarily multi-disciplinary hedge funds that employ a fundamental bottom-up investment approach across various asset classes and strategies. The firm's investments in hedge funds primarily include interests where the underlying assets are illiquid in nature, and proceeds from redemptions will not be received until the underlying assets are liquidated or distributed.

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Many of the funds described above are covered funds as defined in the Volcker Rule of the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank Act). The Board of Governors of the Federal Reserve System (FRB) extended the conformance period to July 2022 for the firm's investments in, and relationships with, certain legacy illiquid funds (as defined in the Volcker Rule) that were in place prior to December 2013. This extension is applicable to substantially all of the firm's remaining investments in, and relationships with, covered funds in the table below.

The table below presents the fair value of the firm's investments in funds at NAV and the related unfunded commitments.

<i>\$ in millions</i>	Fair Value of Investments	Unfunded Commitments
<u>As of June 2018</u>		
Private equity funds	\$2,906	\$ 608
Credit funds	352	958
Hedge funds	190	
Real estate funds	572	202
Total	\$4,020	\$1,768
<u>As of December 2017</u>		
Private equity funds	\$3,478	\$ 614
Credit funds	266	985
Hedge funds	223	
Real estate funds	629	201
Total	\$4,596	\$1,800

Note 7.**Derivatives and Hedging Activities****Derivative Activities**

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

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

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

The firm enters into various types of derivatives, including:

Futures and Forwards. Contracts that commit counterparties to purchase or sell financial instruments, commodities or currencies in the future.

Swaps. Contracts that require counterparties to exchange cash flows such as currency or interest payment streams. The amounts exchanged are based on the specific terms of the contract with reference to specified rates, financial instruments, commodities, currencies or indices.

Options. Contracts in which the option purchaser has the right, but not the obligation, to purchase from or sell to the option writer financial instruments, commodities or currencies within a defined time period for a specified price. Derivatives are reported on a net-by-counterparty basis (i.e., the net payable or receivable for derivative assets and liabilities for a given counterparty) when a legal right of setoff exists under an enforceable netting agreement (counterparty netting). Derivatives are accounted for at fair value, net of cash collateral received or posted under enforceable credit support agreements (cash collateral netting). Derivative assets and liabilities are included in financial instruments owned and financial instruments sold, but not yet purchased, respectively. Realized and unrealized gains and losses on derivatives not designated as hedges are included in market making and other principal transactions in Note 4.

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

<i>\$ in millions</i>	As of June 2018		As of December 2017	
	Derivative Assets	Derivative Liabilities	Derivative Assets	Derivative Liabilities
Not accounted for as hedges				
Exchange-traded	\$ 1,018	\$ 1,134	\$ 554	\$ 644
OTC-cleared	2,174	1,592	5,392	2,773
Bilateral OTC	245,694	222,731	274,986	249,750
Total interest rates	248,886	225,457	280,932	253,167
OTC-cleared	4,989	4,682	5,727	5,670
Bilateral OTC	14,661	13,102	16,966	15,600
Total credit	19,650	17,784	22,693	21,270
Exchange-traded	37	168	23	363
OTC-cleared	1,625	1,362	988	847
Bilateral OTC	102,805	96,729	94,481	95,127
Total currencies	104,467	98,259	95,492	96,337
Exchange-traded	4,852	4,695	4,135	3,854
OTC-cleared	268	249	197	197
Bilateral OTC	11,957	13,048	9,748	12,097
Total commodities	17,077	17,992	14,080	16,148
Exchange-traded	9,352	9,215	10,552	10,335
Bilateral OTC	41,750	45,243	40,735	45,253
Total equities	51,102	54,458	51,287	55,588
Subtotal	441,182	413,950	464,484	442,510
Accounted for as hedges				
OTC-cleared	4		21	
Bilateral OTC	1,605	10	2,309	3
Total interest rates	1,609	10	2,330	3
OTC-cleared	150	4	15	30
Bilateral OTC	142	12	34	114
Total currencies	292	16	49	144
Subtotal	1,901	26	2,379	147
Total gross fair value	\$ 443,083	\$ 413,976	\$ 466,863	\$ 442,657
Offset in consolidated statements of financial condition				

Exchange-traded	\$ (12,237)	\$ (12,237)	\$ (12,963)	\$ (12,963)
OTC-cleared	(7,705)	(7,705)	(9,267)	(9,267)
Bilateral OTC	(319,693)	(319,693)	(341,824)	(341,824)
Counterparty netting	(339,635)	(339,635)	(364,054)	(364,054)
OTC-cleared	(1,103)	(10)	(2,423)	(180)
Bilateral OTC	(54,857)	(36,789)	(53,049)	(38,792)
Cash collateral netting	(55,960)	(36,799)	(55,472)	(38,972)
Total amounts offset	\$(395,595)	\$(376,434)	\$(419,526)	\$(403,026)
Included in consolidated statements of financial condition				
Exchange-traded	\$ 3,022	\$ 2,975	\$ 2,301	\$ 2,233
OTC-cleared	402	174	650	70
Bilateral OTC	44,064	34,393	44,386	37,328
Total	\$ 47,488	\$ 37,542	\$ 47,337	\$ 39,631
Not offset in consolidated statements of financial condition				
Cash collateral	\$ (704)	\$ (1,463)	\$ (602)	\$ (2,375)
Securities collateral	(13,381)	(8,228)	(13,947)	(8,722)
Total	\$ 33,403	\$ 27,851	\$ 32,788	\$ 28,534

Notional Amounts as of

June

December

\$ in millions

2018

2017

Not accounted for as hedges

Exchange-traded	\$12,260,282	\$10,212,510
OTC-cleared	16,945,938	14,739,556
Bilateral OTC	16,874,426	12,862,328
Total interest rates	46,080,646	37,814,394
OTC-cleared	371,496	386,163
Bilateral OTC	755,967	868,226
Total credit	1,127,463	1,254,389
Exchange-traded	6,443	10,450
OTC-cleared	121,541	98,549
Bilateral OTC	7,116,915	7,331,516
Total currencies	7,244,899	7,440,515
Exchange-traded	303,740	239,749
OTC-cleared	3,431	3,925
Bilateral OTC	268,593	250,547
Total commodities	575,764	494,221
Exchange-traded	664,462	655,485
Bilateral OTC	1,229,565	1,127,812
Total equities	1,894,027	1,783,297
Subtotal	56,922,799	48,786,816
Accounted for as hedges		
OTC-cleared	79,624	52,785
Bilateral OTC	9,964	15,188
Total interest rates	89,588	67,973
OTC-cleared	2,727	2,210
Bilateral OTC	7,125	8,347
Total currencies	9,852	10,557
Subtotal	99,440	78,530
Total notional amounts	\$57,022,239	\$48,865,346

In the tables above:

Gross fair values exclude the effects of both counterparty netting and collateral, and therefore are not representative of the firm's exposure.

Where the firm has received or posted collateral under credit support agreements, but has not yet determined such agreements are enforceable, the related collateral has not been netted.

Notional amounts, which represent the sum of gross long and short derivative contracts, provide an indication of the volume of the firm's derivative activity and do not represent anticipated losses.

Total gross fair value of derivatives included derivative assets and derivative liabilities of \$11.19 billion and \$10.68 billion, respectively, as of June 2018, and \$11.24 billion and \$13.00 billion, respectively, as of December 2017, which are not subject to an enforceable netting agreement or are subject to a netting agreement that the firm has not yet determined to be enforceable.

During the second quarter of 2018, consistent with the rules of a clearing organization, the firm elected to consider its transactions with that clearing organization as settled each day. The impact of this change would have been a reduction in gross interest rate derivative assets and liabilities as of December 2017 of \$3.6 billion and \$1.9 billion, respectively, and a corresponding decrease in counterparty and cash collateral netting, with no impact to the consolidated statements of financial condition.

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Valuation Techniques for Derivatives

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

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

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

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

Commodity. Commodity derivatives include transactions referenced to energy (e.g., oil and natural gas), metals (e.g., precious and base) and soft commodities (e.g., agricultural). Price transparency varies based on the underlying commodity, delivery location, tenor and product quality (e.g., diesel fuel compared to unleaded gasoline). In general, price transparency for commodity derivatives is greater for contracts with shorter tenors and contracts that are more closely aligned with major and/or benchmark commodity indices.

Equity. Price transparency for equity derivatives varies by market and underlier. Options on indices and the common stock of corporates included in major equity indices exhibit the most price transparency. Equity derivatives generally have observable market prices, except for contracts with long tenors or reference prices that

differ significantly from current market prices. More complex equity derivatives, such as those sensitive to the correlation between two or more individual stocks, generally have less price transparency. Liquidity is essential to 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. See Note 5 for an overview of the firm's fair value measurement policies.

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.

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

Valuation models require a variety of inputs, such as contractual terms, market prices, yield curves, discount rates (including those derived from interest rates on collateral received and posted as specified in credit support agreements for collateralized derivatives), credit curves, measures of volatility, prepayment rates, loss severity rates and correlations of such inputs. Significant inputs to the valuations of level 2 derivatives can be verified to market transactions, broker or dealer quotations or other alternative pricing sources with reasonable levels of price transparency. Consideration is given to the nature of the quotations (e.g., indicative or 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 utilize observable level 1 and/or level 2 inputs, as well as unobservable level 3 inputs. The significant unobservable inputs used to value the firm's level 3 derivatives are described below.

For level 3 interest rate and currency derivatives, significant unobservable inputs include correlations of certain currencies and interest rates (e.g., the correlation between Euro inflation and Euro interest rates). In addition, for level 3 interest rate derivatives, significant unobservable inputs include specific interest rate volatilities.

For level 3 credit derivatives, significant unobservable inputs include illiquid credit spreads and upfront credit points, which are unique to specific reference obligations and reference entities, recovery rates and certain correlations required to value credit derivatives (e.g., the likelihood of default of the underlying reference obligation relative to one another).

For level 3 commodity derivatives, significant unobservable inputs include volatilities for options with strike prices that differ significantly from current market prices and prices or spreads for certain products for which the product quality or physical location of the commodity is not aligned with benchmark indices.

For level 3 equity derivatives, significant unobservable inputs generally include equity volatility inputs for options that are long-dated and/or have strike prices that differ significantly from current market prices. In addition, the valuation of certain structured trades requires the use of level 3 correlation inputs, such as the correlation of the price performance of two or more individual stocks or the correlation of the price performance for a basket of stocks to another asset class such as commodities.

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

Valuation Adjustments

Valuation adjustments are integral to determining the fair value of derivative portfolios and are used to adjust the mid-market valuations produced by derivative pricing models to the 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 uncollateralized portion of derivative portfolios. The firm also makes funding valuation adjustments to collateralized derivatives where the terms of the agreement do not permit the firm to deliver or repledge collateral received. Market-based inputs are generally used when calibrating valuation adjustments to market-clearing levels.

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

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Notes to Consolidated Financial Statements**(Unaudited)****Fair Value of Derivatives by Level**

The tables below present the fair value of derivatives on a gross basis by level and major product type, as well as the impact of netting, included in the consolidated statements of financial condition.

<i>\$ in millions</i>	As of June 2018			Total
	Level 1	Level 2	Level 3	
Assets				
Interest rates	\$ 11	\$ 250,067	\$ 417	\$ 250,495
Credit		16,127	3,523	19,650
Currencies		104,382	377	104,759
Commodities		16,728	349	17,077
Equities	5	50,537	560	51,102
Gross fair value	16	437,841	5,226	443,083
Counterparty netting in levels		(337,963)	(933)	(338,896)
Subtotal	\$ 16	\$ 99,878	\$ 4,293	\$ 104,187
Cross-level counterparty netting				(739)
Cash collateral netting				(55,960)
Net fair value				\$ 47,488
Liabilities				
Interest rates	\$ (2)	\$(224,882)	\$ (583)	\$(225,467)
Credit		(16,040)	(1,744)	(17,784)
Currencies		(98,116)	(159)	(98,275)
Commodities		(17,791)	(201)	(17,992)
Equities	(8)	(52,647)	(1,803)	(54,458)
Gross fair value	(10)	(409,476)	(4,490)	(413,976)
Counterparty netting in levels		337,963	933	338,896
Subtotal	\$(10)	\$ (71,513)	\$(3,557)	\$ (75,080)
Cross-level counterparty netting				739
Cash collateral netting				36,799
Net fair value				\$ (37,542)

<i>\$ in millions</i>	As of December 2017			Total
	Level 1	Level 2	Level 3	
Assets				
Interest rates	\$ 18	\$ 282,933	\$ 311	\$ 283,262
Credit		19,053	3,640	22,693

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Currencies		95,401	140	95,541
Commodities		13,727	353	14,080
Equities	8	50,870	409	51,287
Gross fair value	26	461,984	4,853	466,863
Counterparty netting in levels		(362,109)	(1,051)	(363,160)
Subtotal	\$ 26	\$ 99,875	\$ 3,802	\$ 103,703
Cross-level counterparty netting				(894)
Cash collateral netting				(55,472)
Net fair value				\$ 47,337
Liabilities				
Interest rates	\$ (28)	\$ (252,421)	\$ (721)	\$ (253,170)
Credit		(19,135)	(2,135)	(21,270)
Currencies		(96,160)	(321)	(96,481)
Commodities		(15,842)	(306)	(16,148)
Equities	(28)	(53,902)	(1,658)	(55,588)
Gross fair value	(56)	(437,460)	(5,141)	(442,657)
Counterparty netting in levels		362,109	1,051	363,160
Subtotal	\$ (56)	\$ (75,351)	\$ (4,090)	\$ (79,497)
Cross-level counterparty netting				894
Cash collateral netting				38,972
Net fair value				\$ (39,631)

In the tables above:

The gross fair values exclude the effects of both counterparty netting and collateral netting, and therefore are not representative of the firm's exposure.

Counterparty netting is reflected in each level to the extent that receivable and payable balances are netted within the same level and is included in counterparty netting in levels. Where the counterparty netting is across levels, the netting is included in cross-level counterparty netting.

Derivative assets are shown as positive amounts and derivative liabilities are shown as negative amounts.

Significant Unobservable Inputs

The table below presents the amount of level 3 assets (liabilities), and ranges, averages and medians of significant unobservable inputs used to value the firm's level 3 derivatives.

Level 3 Assets (Liabilities) and Range of Significant

Unobservable Inputs (Average/Median) as of

	June	December
<i>\$ in millions</i>	2018	2017
Interest rates, net	\$(166)	\$(410)
	(10)% to 95% (77%/81%)	(10)% to 95% (71%/79%)

Correlation		
Volatility (bps)	31 to 150 (83/77)	31 to 150 (84/78)
Credit, net	\$1,779	\$1,505
Correlation	N/A	28% to 84% (61%/60%)
Credit spreads (bps)	1 to 509 (81/46)	1 to 633 (69/42)
Upfront credit points	2 to 97 (43/40)	0 to 97 (42/38)
Recovery rates	25% to 70% (44%/41%)	22% to 73% (68%/73%)
Currencies, net	\$218	\$(181)
Correlation	10% to 70% (40%/33%)	49% to 72% (61%/62%)
Commodities, net	\$148	\$47
Volatility	8% to 46% (24%/25%)	9% to 79% (24%/24%)
Natural gas spread	\$(1.93) to \$2.86	\$(2.38) to \$3.34
	\$(0.37)/\$(0.39))	\$(0.22)/\$(0.12))
Oil spread	\$(4.23) to \$4.10	\$(2.86) to \$23.61
	(\$2.02/\$2.01)	(\$6.47/\$2.35)
Equities, net	\$(1,243)	\$(1,249)
Correlation	(68)% to 95% (45%/47%)	(36)% to 94% (50%/52%)
Volatility	4% to 97% (22%/20%)	4% to 72% (24%/22%)
In the table above:		

Derivative assets are shown as positive amounts and 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. For example, the difference between the average and the median for credit spreads indicates that the majority of the inputs fall in the lower end of the range.

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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 firm's level 3 derivatives.

Interest rates, currencies and equities derivatives are valued using option pricing models, credit derivatives are valued using option pricing, correlation and discounted cash flow models, and commodities derivatives are valued using option pricing and discounted cash flow models.

The fair value of any one instrument may be determined using multiple valuation techniques. For example, option pricing models and discounted cash 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 cross-product type correlation.

Natural gas spread represents the spread per million British thermal units of natural gas.

Oil spread represents the spread per barrel of oil and refined products.

Range of Significant Unobservable Inputs

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

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

Volatility. Ranges for volatility cover numerous underliers across a variety of markets, maturities and strike prices. For example, volatility of equity indices is generally lower than volatility of single stocks.

Credit spreads, upfront credit points and recovery rates. The ranges for credit spreads, upfront credit points and recovery rates cover a variety of underliers (index and single names), regions, sectors, maturities and credit qualities (high-yield and investment-grade). The broad range of this population gives rise to the width of the ranges of significant unobservable inputs.

Commodity prices and spreads. The ranges for commodity prices and spreads cover variability in products, maturities and delivery locations.

Sensitivity of Fair Value Measurement to Changes in Significant Unobservable Inputs

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

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

Volatility. In general, for purchased options, an increase in volatility results in a higher fair value measurement.

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

Commodity prices and spreads. In general, for contracts where the holder is receiving a commodity, an increase in the spread (price difference from a benchmark index due to differences in quality or delivery location) or price results in a higher fair value measurement.

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

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Notes to Consolidated Financial Statements**(Unaudited)****Level 3 Rollforward**

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Total level 3 derivatives				
Beginning balance	\$ 408	\$ 97	\$(288)	\$(1,217)
Net realized gains/(losses)	(1)	(125)	35	(163)
Net unrealized gains/(losses)	358	103	537	(43)
Purchases	108	75	248	234
Sales	(524)	(200)	(625)	(313)
Settlements	237	506	496	1,681
Transfers into level 3	104	(39)	153	25
Transfers out of level 3	46	543	180	756
Ending balance	\$ 736	\$ 960	\$ 736	\$ 960

In the table above:

Changes in fair value are presented for all derivative assets and liabilities that are classified in level 3 as of the end of the period.

Net unrealized gains/(losses) relates to instruments that were still held at period-end.

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

Positive amounts for transfers into level 3 and negative amounts for transfers out of level 3 represent net transfers of derivative assets. Negative amounts for transfers into level 3 and positive amounts for transfers out of level 3 represent net transfers of derivative liabilities.

A derivative with level 1 and/or level 2 inputs is classified in level 3 in its entirety if it has at least one significant level 3 input.

If there is one significant level 3 input, the entire gain or loss from adjusting only observable inputs (i.e., level 1 and level 2 inputs) is classified in level 3.

Gains or losses that have been classified in level 3 resulting from changes in level 1 or level 2 inputs are frequently offset by gains or losses attributable to level 1 or level 2 derivatives and/or level 1, level 2 and level 3 cash instruments. As a result, gains/(losses) included in the level 3 rollforward below do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

The table below disaggregates, by major product type, the information for level 3 derivatives included in the summary table above.

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June	2017	Ended June	2017
	2018		2018	2017
Interest rates, net				
Beginning balance	\$ (249)	\$ (282)	\$ (410)	\$ (381)
Net realized gains/(losses)	(10)	(6)	(23)	(24)
Net unrealized gains/(losses)	(63)	(45)	40	56
Purchases	3	1	9	3
Sales	(1)		(1)	(3)
Settlements	145	(5)	183	40
Transfers into level 3	1	7	33	(10)
Transfers out of level 3	8	11	3	
Ending balance	\$ (166)	\$ (319)	\$ (166)	\$ (319)
Credit, net				
Beginning balance	\$ 1,282	\$ 2,239	\$ 1,505	\$ 2,504
Net realized gains/(losses)	11	10	(2)	60
Net unrealized gains/(losses)	211	1	(38)	(192)
Purchases	8	9	38	64
Sales	(22)	(17)	(33)	(66)
Settlements	217	(177)	202	(334)
Transfers into level 3	56	48	24	49
Transfers out of level 3	16	(114)	83	(86)
Ending balance	\$ 1,779	\$ 1,999	\$ 1,779	\$ 1,999
Currencies, net				
Beginning balance	\$ 169	\$ 24	\$ (181)	\$ 3
Net realized gains/(losses)	(7)	(7)	(14)	(33)
Net unrealized gains/(losses)	64	(13)	165	(20)
Purchases		1	1	4
Sales	(3)			
Settlements	(3)	18	215	66
Transfers into level 3		2	32	
Transfers out of level 3	(2)			5
Ending balance	\$ 218	\$ 25	\$ 218	\$ 25

Commodities, net				
Beginning balance	\$ 73	\$ 78	\$ 47	\$ 73
Net realized gains/(losses)	2	1	63	10
Net unrealized gains/(losses)	50	63	93	131
Purchases	13	6	48	23
Sales	(27)	(39)	(46)	(51)
Settlements	(11)	21	(121)	(37)
Transfers into level 3	39	(32)	58	(38)
Transfers out of level 3	9	20	6	7
Ending balance	\$ 148	\$ 118	\$ 148	\$ 118
Equities, net				
Beginning balance	\$ (867)	\$(1,962)	\$(1,249)	\$(3,416)
Net realized gains/(losses)	3	(123)	11	(176)
Net unrealized gains/(losses)	96	97	277	(18)
Purchases	84	58	152	140
Sales	(471)	(144)	(545)	(193)
Settlements	(111)	649	17	1,946
Transfers into level 3	8	(64)	6	24
Transfers out of level 3	15	626	88	830
Ending balance	\$(1,243)	\$(863)	\$(1,243)	\$(863)

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Level 3 Rollforward Commentary

Three Months Ended June 2018. The net realized and unrealized gains on level 3 derivatives of \$357 million (reflecting \$1 million of net realized losses and \$358 million of net unrealized gains) for the three months ended June 2018 included gains of \$327 million and \$30 million reported in market making and other principal transactions, respectively.

The net unrealized gains on level 3 derivatives for the three months ended June 2018 were primarily attributable to gains on certain credit derivatives, reflecting the impact of changes in credit spreads and foreign exchange rates, and gains on certain equity derivatives, reflecting the impact of increases in equity prices.

Transfers into level 3 derivatives during the three months ended June 2018 primarily reflected transfers of certain credit derivative assets from level 2, primarily due to unobservable credit spread inputs becoming significant to the net risk of certain portfolios.

Transfers out of level 3 derivatives during the three months ended June 2018 were not material.

Six Months Ended June 2018. The net realized and unrealized gains on level 3 derivatives of \$572 million (reflecting \$35 million of net realized gains and \$537 million of net unrealized gains) for the six months ended June 2018 included gains of \$461 million and \$111 million reported in market making and other principal transactions, respectively.

The net unrealized gains on level 3 derivatives for the six months ended June 2018 were primarily attributable to gains on certain equity derivatives, reflecting the impact of changes in equity prices, and gains on certain currency derivatives, primarily reflecting the impact of changes in foreign exchange rates.

Transfers into level 3 derivatives during the six months ended June 2018 reflected transfers of certain commodity derivative assets from level 2, principally due to increased significance of unobservable volatility inputs used to value these derivatives.

Transfers out of level 3 derivatives during the six months ended June 2018 primarily reflected transfers of certain equity derivative liabilities to level 2, principally due to increased transparency of volatility and correlation inputs used to value these derivatives and transfers of certain credit derivative liabilities to level 2, primarily due to unobservable credit spread inputs no longer being significant to the net risk of certain portfolios.

Three Months Ended June 2017. The net realized and unrealized losses on level 3 derivatives of \$22 million (reflecting \$125 million of net realized losses and \$103 million of net unrealized gains) for the three months ended June 2017 included gains/(losses) of \$59 million and \$(81) million reported in market making and other principal transactions, respectively.

The net unrealized gains on level 3 derivatives for the three months ended June 2017 were primarily attributable to gains on certain equity derivatives, reflecting the impact of changes in the prices of underlying indices.

Transfers into level 3 derivatives during the three months ended June 2017 were not material.

Transfers out of level 3 derivatives during the three months ended June 2017 primarily reflected transfers of certain equity derivative liabilities to level 2, principally due to certain unobservable inputs no longer being significant to the valuation of these derivatives.

Six Months Ended June 2017. The net realized and unrealized losses on level 3 derivatives of \$206 million (reflecting \$163 million of net realized losses and \$43 million of net unrealized losses) for the six months ended June 2017 included losses of \$33 million and \$173 million reported in market making and other principal transactions, respectively.

The net unrealized losses on level 3 derivatives for the six months ended June 2017 were primarily attributable to losses on certain credit derivatives, reflecting the impact of tighter credit spreads, partially offset by gains on certain commodity derivatives, reflecting the impact of a decrease in commodity prices.

Transfers into level 3 derivatives during the six months ended June 2017 were not material.

Transfers out of level 3 derivatives during the six months ended June 2017 primarily reflected transfers of certain equity derivative liabilities to level 2, principally due to certain unobservable inputs no longer being significant to the valuation of these derivatives.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****OTC Derivatives**

The table below presents the fair values of OTC derivative assets and liabilities by tenor and major product type.

<i>\$ in millions</i>	Less than 1 Year	1 - 5 Years	Greater than 5 Years	Total
As of June 2018				
Assets				
Interest rates	\$ 3,987	\$14,622	\$50,873	\$ 69,482
Credit	838	3,956	3,058	7,852
Currencies	15,850	5,913	7,884	29,647
Commodities	4,715	2,520	198	7,433
Equities	5,254	6,350	1,493	13,097
Counterparty netting in tenors	(3,541)	(4,503)	(2,807)	(10,851)
Subtotal	\$27,103	\$28,858	\$60,699	\$116,660
Cross-tenor counterparty netting				(16,234)
Cash collateral netting				(55,960)
Total				\$ 44,466
Liabilities				
Interest rates	\$ 5,247	\$ 8,275	\$30,817	\$ 44,339
Credit	1,415	3,323	1,248	5,986
Currencies	11,603	7,084	4,345	23,032
Commodities	3,516	2,325	2,664	8,505
Equities	7,114	6,524	2,951	16,589
Counterparty netting in tenors	(3,541)	(4,503)	(2,807)	(10,851)
Subtotal	\$25,354	\$23,028	\$39,218	\$ 87,600
Cross-tenor counterparty netting				(16,234)
Cash collateral netting				(36,799)
Total				\$ 34,567

As of December 2017

Assets				
Interest rates	\$ 3,717	\$15,445	\$57,200	\$ 76,362
Credit	760	4,079	3,338	8,177
Currencies	12,184	6,219	7,245	25,648
Commodities	3,175	2,526	181	5,882
Equities	4,969	5,607	1,387	11,963

Counterparty netting in tenors	(3,719)	(4,594)	(2,807)	(11,120)
Subtotal	\$21,086	\$29,282	\$66,544	\$116,912
Cross-tenor counterparty netting				(16,404)
Cash collateral netting				(55,472)
Total				\$ 45,036
Liabilities				
Interest rates	\$ 4,517	\$ 8,471	\$33,193	\$ 46,181
Credit	2,078	3,588	1,088	6,754
Currencies	14,326	7,119	4,802	26,247
Commodities	3,599	2,167	2,465	8,231
Equities	6,453	6,647	3,381	16,481
Counterparty netting in tenors	(3,719)	(4,594)	(2,807)	(11,120)
Subtotal	\$27,254	\$23,398	\$42,122	\$ 92,774
Cross-tenor counterparty netting				(16,404)
Cash collateral netting				(38,972)
Total				\$ 37,398

In the table above:

Tenor is based on remaining contractual maturity.

Counterparty netting within the same product type and tenor category is included within such product type and tenor category.

Counterparty netting across product types within the same tenor category is included in counterparty netting in tenors. Where the counterparty netting is across tenor categories, the netting is included in cross-tenor counterparty netting.

Credit Derivatives

The firm enters into a broad array of credit derivatives in locations around the world to facilitate client transactions and to manage the credit risk associated with market-making and investing and lending activities. Credit derivatives are actively managed based on the firm's net risk position.

Credit derivatives are generally individually negotiated contracts and can have various settlement and payment conventions. Credit events include failure to pay, bankruptcy, acceleration of indebtedness, restructuring, repudiation and dissolution of the reference entity.

The firm enters into the following types of credit derivatives:

Credit Default Swaps. Single-name credit default swaps protect the buyer against the loss of principal on one or more bonds, loans or mortgages (reference obligations) in the event the issuer (reference entity) of the reference obligations suffers a credit event. The buyer of protection pays an initial or periodic premium to the seller and receives protection for the period of the contract. If there is no credit event, as defined in the contract, the seller of protection makes no payments to the buyer of protection. However, if a credit event occurs, the seller of protection is required to make a payment to the buyer of protection, which is calculated in accordance with the terms of the contract.

Credit Options. In a credit option, the option writer assumes the obligation to purchase or sell a reference obligation at a specified price or credit spread. The option purchaser buys the right, but does not assume the obligation, to sell the reference obligation to, or purchase it from, the option writer. The payments on credit options depend either on a particular credit spread or the price of the reference obligation.

Credit Indices, Baskets and Tranches. Credit derivatives may reference a basket of single-name credit default swaps or a broad-based index. If a credit event occurs in one of the underlying reference obligations, the protection seller pays the protection buyer. The payment is typically a pro-rata portion of the transaction's total notional amount based on the underlying defaulted reference obligation. In certain transactions, the credit risk of a basket or index is separated into various portions (tranches), each having different levels of subordination. The most junior tranches cover initial defaults and once losses exceed the notional amount of these junior tranches, any excess loss is covered by the next most senior tranche in the capital structure.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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Total Return Swaps. A total return swap transfers the risks relating to economic performance of a reference obligation from the protection buyer to the protection seller. Typically, the protection buyer receives from the protection seller a floating rate of interest and protection against any reduction in fair value of the reference obligation, and in return the protection seller receives the cash flows associated with the reference obligation, plus any increase in the fair value of the reference obligation.

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

As of June 2018, written and purchased credit derivatives had total gross notional amounts of \$551.83 billion and \$575.66 billion, respectively, for total net notional purchased protection of \$23.83 billion. As of December 2017, written and purchased credit derivatives had total gross notional amounts of \$611.04 billion and \$643.37 billion, respectively, for total net notional purchased protection of \$32.33 billion. Substantially all of the firm's written and purchased credit derivatives are credit default swaps.

The table below presents certain information about credit derivatives.

<i>\$ in millions</i>	Credit Spread on Underlier (basis points)				Total
	0 - 250	251 - 500	501 - 1,000	Greater than 1,000	
As of June 2018					
Maximum Payout/Notional Amount of Written Credit Derivatives by Tenor					
Less than 1 year	\$132,550	\$ 8,930	\$ 656	\$ 3,492	\$145,628
1 - 5 years	317,052	19,421	8,999	5,390	350,862
Greater than 5 years	48,109	6,338	795	94	55,336
Total	\$497,711	\$34,689	\$10,450	\$ 8,976	\$551,826
Maximum Payout/Notional Amount of Purchased Credit Derivatives					
Offsetting	\$434,958	\$23,710	\$ 9,527	\$ 8,187	\$476,382
Other	88,370	9,028	1,038	839	99,275
Fair Value of Written Credit Derivatives					
Asset	\$ 11,028	\$ 694	\$ 147	\$ 78	\$ 11,947
Liability	1,483	1,173	781	2,609	6,046
Net asset/(liability)	\$ 9,545	\$ (479)	\$ (634)	\$ (2,531)	\$ 5,901

As of December 2017**Maximum Payout/Notional Amount of Written Credit Derivatives by Tenor**

Less than 1 year	\$182,446	\$ 8,531	\$ 705	\$ 4,067	\$195,749
1 - 5 years	335,872	10,201	8,747	7,553	362,373
Greater than 5 years	49,440	2,142	817	519	52,918
Total	\$567,758	\$20,874	\$10,269	\$12,139	\$611,040

Maximum Payout/Notional Amount of Purchased Credit Derivatives

Offsetting	\$492,325	\$13,424	\$ 9,395	\$10,663	\$525,807
Other	99,861	14,483	1,777	1,442	117,563

Fair Value of Written Credit Derivatives

Asset	\$ 14,317	\$ 513	\$ 208	\$ 155	\$ 15,193
Liability	896	402	752	3,920	5,970
Net asset/(liability)	\$ 13,421	\$ 111	\$ (544)	\$ (3,765)	\$ 9,223

In the table above:

Fair values exclude the effects of both netting of receivable balances with payable balances under enforceable netting agreements, and netting of cash received or posted under enforceable credit support agreements, and therefore are not representative of the firm's credit exposure.

Tenor is based on remaining contractual maturity.

The credit spread on the underlier, together with the tenor of the contract, are indicators of payment/performance risk. The firm is less likely to pay or otherwise be required to perform where the credit spread and the tenor are lower.

Offsetting purchased credit derivatives represent the notional amount of purchased credit derivatives that economically hedge written credit derivatives with identical underliers.

Other purchased credit derivatives represent the notional amount of all other purchased credit derivatives not included in offsetting.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Impact of Credit Spreads on Derivatives**

On an ongoing basis, the firm realizes gains or losses relating to changes in credit risk through the unwind of derivative contracts and changes in credit mitigants.

The net gain, including hedges, attributable to the impact of changes in credit exposure and credit spreads (counterparty and the firm's) on derivatives was \$59 million and \$8 million for the three months ended June 2018 and June 2017, respectively, and \$211 million and \$19 million for the six months ended June 2018 and June 2017, respectively.

Bifurcated Embedded Derivatives

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

	June	As of December
<i>\$ in millions</i>	2018	2017
Fair value of assets	\$ 925	\$ 882
Fair value of liabilities	1,384	1,200
Net liability	\$ 459	\$ 318

Notional amount	\$9,302	\$9,578
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In the table above, these derivatives, which are recorded at fair value, primarily consist of interest rate, equity and commodity products and are included in unsecured short-term borrowings and unsecured long-term borrowings with the related borrowings. See Note 8 for further information.

Derivatives with Credit-Related Contingent Features

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

The table below presents the aggregate fair value of net derivative liabilities under such agreements (excluding application of collateral posted to reduce these liabilities), the related aggregate fair value of the assets posted as collateral and the additional collateral or termination payments that could have been called by counterparties in the event of a one-notch and two-notch downgrade in the firm's credit ratings.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Net derivative liabilities under bilateral agreements	\$27,970	\$29,877
Collateral posted	\$25,023	\$25,329
Additional collateral or termination payments:		
One-notch downgrade	\$ 228	\$ 358
Two-notch downgrade	\$ 710	\$ 1,856

Hedge Accounting

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

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

Fair Value Hedges

The firm designates certain interest rate swaps as fair value hedges of certain fixed-rate unsecured long-term and short-term debt and fixed-rate certificates of deposit. These interest rate swaps hedge changes in fair value attributable to the designated benchmark interest rate (e.g., London Interbank Offered Rate (LIBOR) or Overnight Index Swap Rate), effectively converting a substantial portion of fixed-rate obligations into floating-rate obligations.

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

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

The table below presents the gains/(losses) from interest rate derivatives accounted for as hedges and the related hedged borrowings and deposits, and the firm's total interest expense.

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Interest rate hedges	\$ (526)	\$ (671)	\$ (1,895)	\$ (1,425)
Hedged borrowings and deposits	\$ 392	\$ 499	\$ 1,622	\$ 1,053
Interest expense	\$3,918	\$2,432	\$ 7,230	\$ 4,662

In the table above:

The difference between gains/(losses) from interest rate hedges and hedged borrowings and deposits was primarily due to the amortization of prepaid credit spreads resulting from the passage of time.

Hedge ineffectiveness for the three and six months ended June 2017 was \$(172) million and \$(372) million, respectively.

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

<i>\$ in millions</i>	As of June 2018	
	Carrying Amount	Cumulative Hedging Adjustment
Deposits	\$10,471	\$ (308)

Unsecured short-term borrowings	\$ 4,044	\$ 1
Unsecured long-term borrowings	\$66,302	\$1,760

In the table above, cumulative hedging adjustment included \$1.46 billion of hedging adjustments from prior hedging relationships that were de-designated and substantially all were related to unsecured long-term borrowings.

In addition, as of June 2018, cumulative hedging adjustments for items no longer designated in a hedging relationship were \$2.47 billion and substantially all were related to unsecured long-term borrowings.

Net Investment Hedges

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

Beginning in January 2018, in accordance with ASU No. 2017-12 for qualifying net investment hedges, all gains or losses on the hedging instruments are included in currency translation. Prior to January 2018, gains or losses on the hedging instruments, only to the extent effective, were included in currency translation.

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Hedges:				
Foreign currency forward contract	\$630	\$(229)	\$420	\$(578)
Foreign currency-denominated debt	\$ 80	\$ 14	\$ (27)	\$ (68)

Gains or losses on individual net investments in non-U.S. operations are reclassified to earnings from accumulated other comprehensive income when such net investments are sold or substantially liquidated. The gross and net gains and losses on hedges and the related net investments in non-U.S. operations reclassified to earnings from accumulated other comprehensive income were not material for both the three and six months ended June 2018. The net gain reclassified to earnings from accumulated other comprehensive income for the three months ended June 2017 was \$60 million (reflecting a gain of \$247 million related to the hedges and a loss of \$187 million on the related net investments in non-U.S. operations) and for the six months ended June 2017 was \$60 million (reflecting a gain of \$236 million related to the hedges and a loss of \$176 million on the related net investments in non-U.S. operations). The gain/(loss) related to ineffectiveness was not material for the three and six months ended June 2017.

As of June 2018 and December 2017, the firm had designated \$1.91 billion and \$1.81 billion, respectively, of foreign currency-denominated debt, included in unsecured long-term borrowings and unsecured short-term borrowings, as hedges of net investments in non-U.S. subsidiaries.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Note 8.

Fair Value Option

Other Financial Assets and Financial Liabilities at Fair Value

In addition to all cash and derivative instruments included in financial instruments owned and financial instruments sold, but not yet purchased, the firm accounts for certain of its other financial assets and financial liabilities at fair value, substantially all of which are accounted for at fair value under the fair value option. The primary reasons for electing the fair value option are to:

Reflect economic events in earnings on a timely basis;

Mitigate volatility in earnings from using different measurement attributes (e.g., transfers of financial instruments owned accounted for as financings are recorded at fair value, whereas the related secured financing would be recorded on an accrual basis absent electing the fair value option); and

Address simplification and cost-benefit considerations (e.g., accounting for hybrid financial instruments at fair value in their entirety versus bifurcation of embedded derivatives and hedge accounting for debt hosts).

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

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

Repurchase agreements and substantially all resale agreements;

Securities borrowed and loaned within Fixed Income, Currency and Commodities Client Execution (FICC Client Execution);

Substantially all other secured financings, including transfers of assets accounted for as financings rather than sales;

Certain unsecured short-term and long-term borrowings, substantially all of which are hybrid financial instruments;

Certain receivables from customers and counterparties, including transfers of assets accounted for as secured loans rather than purchases and certain margin loans;

Certain time deposits issued by the firm's bank subsidiaries (deposits with no stated maturity are not eligible for a fair value option election), including structured certificates of deposit, which are hybrid financial instruments; and

Certain subordinated liabilities of consolidated VIEs.

Fair Value of Other Financial Assets and Financial Liabilities by Level

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

<i>\$ in millions</i>	Level 1	Level 2	Level 3	Total
As of June 2018				
Assets				
Securities purchased under agreements to resell	\$	\$ 135,035	\$	\$ 135,035
Securities borrowed		42,198		42,198
Receivables from customers and counterparties		1,960	7	1,967
Total	\$	\$ 179,193	\$ 7	\$ 179,200
Liabilities				
Deposits	\$	\$ (22,363)	\$ (3,271)	\$ (25,634)
Securities sold under agreements to repurchase		(93,186)	(33)	(93,219)
Securities loaned		(6,351)		(6,351)
Other secured financings		(25,990)	(270)	(26,260)
Unsecured borrowings:				
Short-term		(14,478)	(5,120)	(19,598)
Long-term		(33,123)	(8,821)	(41,944)
Other liabilities		(40)	(68)	(108)
Total	\$	\$ (195,531)	\$ (17,583)	\$ (213,114)
As of December 2017				
Assets				
Securities purchased under agreements to resell	\$	\$ 120,420	\$	\$ 120,420
Securities borrowed		78,189		78,189
Receivables from customers and counterparties		3,522	4	3,526
Total	\$	\$ 202,131	\$ 4	\$ 202,135
Liabilities				
Deposits	\$	\$ (19,934)	\$ (2,968)	\$ (22,902)
Securities sold under agreements to repurchase		(84,681)	(37)	(84,718)
Securities loaned		(5,357)		(5,357)

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Other secured financings	(23,956)	(389)	(24,345)
Unsecured borrowings:			
Short-term	(12,310)	(4,594)	(16,904)
Long-term	(31,204)	(7,434)	(38,638)
Other liabilities	(228)	(40)	(268)
Total	\$ (177,670)	\$ (15,462)	\$ (193,132)

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements

(Unaudited)

Valuation Techniques and Significant Inputs

Other financial assets and financial liabilities at fair value are generally valued based on discounted cash flow techniques, which incorporate inputs with reasonable levels of price transparency, and are generally classified in level 2 because the inputs are observable. Valuation adjustments may be made for liquidity and for counterparty and the firm's credit quality.

See below for information about the significant inputs used to value other financial assets and financial liabilities at fair value, including the ranges of significant unobservable inputs used to value the level 3 instruments within these categories. These ranges represent the significant unobservable inputs that were used in the valuation of each type of other financial assets and financial liabilities at fair value. The ranges and weighted averages of these inputs are not representative of the appropriate inputs to use when calculating the fair value of any one instrument. For example, the highest yield presented below for other secured financings is appropriate for valuing a specific agreement in that category but may not be appropriate for valuing any other agreements in that category. Accordingly, the ranges of inputs presented below do not represent uncertainty in, or possible ranges of, fair value measurements of the firm's level 3 other financial assets and financial liabilities.

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. As of both June 2018 and December 2017, the firm had no level 3 resale agreements, securities borrowed or securities loaned. As of both June 2018 and December 2017, the firm's level 3 repurchase agreements were not material. See Note 10 for further information about collateralized agreements and financings.

Other Secured Financings. The significant inputs to the valuation of other secured financings 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 firm (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. The ranges of significant unobservable inputs used to value level 3 other secured financings are as follows:

As of June 2018:

Yield: 0.6% to 13.1% (weighted average: 1.3%)

Duration: 1.7 to 10.5 years (weighted average: 2.9 years)

As of December 2017:

Yield: 0.6% to 13.0% (weighted average: 3.3%)

Duration: 0.7 to 11.0 years (weighted average: 2.7 years)

Generally, increases in yield or duration, in isolation, would result in a lower fair value measurement. Due to the distinctive nature of each of the firm's level 3 other secured financings, the interrelationship of inputs is not necessarily uniform across such financings. See Note 10 for further information about collateralized agreements and financings.

Unsecured Short-term and Long-term Borrowings. The significant inputs to the valuation of unsecured short-term and long-term borrowings at fair value are the amount and timing of expected future cash flows, interest rates, the credit spreads of the firm, as well as commodity prices in the case of prepaid commodity transactions. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the firm's other derivative instruments. See Note 7 for further information about derivatives. See Notes 15 and 16 for further information about unsecured short-term and long-term borrowings, respectively.

Certain of the firm's unsecured short-term and long-term borrowings are classified in level 3, substantially all of which are hybrid financial instruments. As the significant unobservable inputs used to value hybrid financial instruments primarily relate to the embedded derivative component of these borrowings, these inputs are incorporated in the firm's derivative disclosures related to unobservable inputs in Note 7.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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Receivables from Customers and Counterparties. Receivables from customers and counterparties at fair value primarily consist of transfers of assets accounted for as secured loans rather than purchases. 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. As of both June 2018 and December 2017, the firm's level 3 receivables from customers and counterparties were not material.

Deposits. The significant inputs to the valuation of time deposits are interest rates and the amount and timing of future cash flows. The inputs used to value the embedded derivative component of hybrid financial instruments are consistent with the inputs used to value the firm's other derivative instruments. See Note 7 for further information about derivatives and Note 14 for further information about deposits.

The firm's deposits that are classified in level 3 are hybrid financial instruments. As the significant unobservable inputs used to value hybrid financial instruments primarily relate to the embedded derivative component of these deposits, these inputs are incorporated in the firm's derivative disclosures related to unobservable inputs in Note 7.

Transfers Between Levels of the Fair Value Hierarchy

Transfers between levels of the fair value hierarchy are reported at the beginning of the reporting period in which they occur. There were no transfers of other financial assets and financial liabilities between level 1 and level 2 during the three and six months ended June 2018 and June 2017. See "Level 3 Rollforward" below for information about transfers between level 2 and level 3.

Level 3 Rollforward

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June 2018	2017	Ended June 2018	2017
Total other financial assets				
Beginning balance	\$ 1	\$ 14	\$ 4	\$ 55
Net realized gains/(losses)	2		2	
Net unrealized gains/(losses)	5		2	(3)
Purchases		1		1
Settlements	(1)	(14)	(1)	(52)
Ending balance	\$ 7	\$ 1	\$ 7	\$ 1

Total other financial liabilities

Beginning balance	\$(16,511)	\$(16,165)	\$(15,462)	\$(14,979)
Net realized gains/(losses)	(76)	(71)	(127)	(175)
Net unrealized gains/(losses)	455	(272)	804	(609)
Purchases				(3)
Sales			3	
Issuances	(4,391)	(2,452)	(8,087)	(5,226)
Settlements	2,535	2,171	4,260	4,422
Transfers into level 3	(131)	(300)	(146)	(525)
Transfers out of level 3	536	1,226	1,172	1,232
Ending balance	\$(17,583)	\$(15,863)	\$(17,583)	\$(15,863)

In the table above:

Changes in fair value are presented for all other financial assets and financial liabilities that are classified in level 3 as of the end of the period.

Net unrealized gains/(losses) relates to instruments that were still held at period-end.

If a financial asset or financial liability was transferred to level 3 during a reporting period, its entire gain or loss for the period is classified in level 3.

For level 3 other financial assets, increases are shown as positive amounts, while decreases are shown as negative amounts. For level 3 other financial liabilities, increases are shown as negative amounts, while decreases are shown as positive amounts.

Level 3 other financial assets and financial liabilities are frequently economically hedged with cash instruments and derivatives. Accordingly, gains or losses that are classified in level 3 can be partially offset by gains or losses attributable to level 1, 2 or 3 cash instruments or derivatives. As a result, gains or losses included in the level 3 rollforward below do not necessarily represent the overall impact on the firm's results of operations, liquidity or capital resources.

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The table below disaggregates, by the consolidated statements of financial condition line items, the information for other financial liabilities included in the summary table above.

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June 2018	2017	Ended June 2018	2017
Deposits				
Beginning balance	\$(3,146)	\$(3,348)	\$(2,968)	\$(3,173)
Net realized gains/(losses)	(3)	(4)	(6)	(5)
Net unrealized gains/(losses)	40	(76)	88	(103)
Issuances	(229)	(172)	(445)	(345)
Settlements	42	12	51	38
Transfers into level 3			(16)	
Transfers out of level 3	25	9	25	9
Ending balance	\$(3,271)	\$(3,579)	\$(3,271)	\$(3,579)
Securities sold under agreements to repurchase				
Beginning balance	\$ (35)	\$ (64)	\$ (37)	\$ (66)
Net unrealized gains/(losses)				(1)
Settlements	2	3	4	6
Ending balance	\$ (33)	\$ (61)	\$ (33)	\$ (61)
Other secured financings				
Beginning balance	\$ (332)	\$ (568)	\$ (389)	\$ (557)
Net realized gains/(losses)	3	5	3	9
Net unrealized gains/(losses)		(6)	(5)	(20)
Purchases				(3)
Issuances	(7)	(12)	(9)	(19)
Settlements	69	18	88	100
Transfers into level 3	(6)	(213)	(6)	(230)
Transfers out of level 3	3	58	48	2
Ending balance	\$ (270)	\$ (718)	\$ (270)	\$ (718)
Unsecured short-term borrowings				
Beginning balance	\$(4,894)	\$(4,244)	\$(4,594)	\$(3,896)
Net realized gains/(losses)	(76)	(65)	(116)	(150)
Net unrealized gains/(losses)	93	(6)	200	(146)
Issuances	(2,128)	(1,570)	(4,223)	(3,297)
Settlements	1,562	1,180	2,912	2,788
Transfers into level 3	(74)	(59)	(74)	(85)

Transfers out of level 3	397	1,029	775	1,051
Ending balance	\$(5,120)	\$(3,735)	\$(5,120)	\$(3,735)
Unsecured long-term borrowings				
Beginning balance	\$(8,043)	\$(7,878)	\$(7,434)	\$(7,225)
Net realized gains/(losses)	(6)	(12)	(19)	(38)
Net unrealized gains/(losses)	328	(183)	549	(337)
Sales			3	
Issuances	(2,020)	(693)	(3,399)	(1,556)
Settlements	860	958	1,205	1,490
Transfers into level 3	(51)	(28)	(50)	(210)
Transfers out of level 3	111	130	324	170
Ending balance	\$(8,821)	\$(7,706)	\$(8,821)	\$(7,706)
Other liabilities				
Beginning balance	\$ (61)	\$ (63)	\$ (40)	\$ (62)
Net realized gains/(losses)	6	5	11	9
Net unrealized gains/(losses)	(6)	(1)	(28)	(2)
Issuances	(7)	(5)	(11)	(9)
Ending balance	\$ (68)	\$ (64)	\$ (68)	\$ (64)

Level 3 Rollforward Commentary

Three Months Ended June 2018. The net realized and unrealized gains on level 3 other financial liabilities of \$379 million (reflecting \$76 million of net realized losses and \$455 million of net unrealized gains) for the three months ended June 2018 included gains of \$238 million and \$8 million reported in market making and other principal transactions, respectively, in the consolidated statements of earnings, and gains of \$133 million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized gains on level 3 other financial liabilities for the three months ended June 2018 primarily reflected gains on certain hybrid financial instruments included in unsecured long-term borrowings, principally due to the impact of wider credit spreads, changes in foreign exchange rates and interest rates, and gains on certain hybrid financial instruments included in unsecured short-term borrowings, principally due to changes in foreign exchange rates.

Transfers into level 3 of other financial liabilities during the three months ended June 2018 primarily reflected transfers of certain hybrid financial instruments included in unsecured short and long-term borrowings from level 2, principally due to reduced transparency of certain volatility and correlation inputs used to value these instruments.

Transfers out of level 3 of other financial liabilities during the three months ended June 2018 primarily reflected transfers of certain hybrid financial instruments included in unsecured short-term borrowings to level 2, principally due to increased transparency of inputs used to value these instruments as a result of market transactions in similar instruments, and transfers of certain hybrid financial instruments included in unsecured long-term borrowings to level 2, principally due to increased transparency of certain volatility inputs used to value these instruments.

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Six Months Ended June 2018. The net realized and unrealized gains on level 3 other financial liabilities of \$677 million (reflecting \$127 million of net realized losses and \$804 million of net unrealized gains) for the six months ended June 2018 included gains/(losses) of \$495 million, \$1 million and \$(1) million reported in market making, other principal transactions and interest expense, respectively, in the consolidated statements of earnings, and gains of \$182 million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized gains on level 3 other financial liabilities for the six months ended June 2018 primarily reflected gains on certain hybrid financial instruments included in unsecured long-term borrowings, principally due to the impact of wider credit spreads, changes in interest rates and a decrease in global equity prices, and gains on certain hybrid financial instruments included in unsecured short-term borrowings, principally due to a decrease in global equity prices and changes in foreign exchange rates.

Transfers into level 3 of other financial liabilities during the six months ended June 2018 primarily reflected transfers of certain hybrid financial instruments included in unsecured short and long-term borrowings from level 2, principally due to reduced transparency of certain volatility and correlation inputs used to value these instruments.

Transfers out of level 3 of other financial liabilities during the six months ended June 2018 primarily reflected transfers of certain hybrid financial instruments included in unsecured short and long-term borrowings to level 2, principally due to increased transparency of certain volatility and correlation inputs used to value these instruments.

Three Months Ended June 2017. The net realized and unrealized losses on level 3 other financial liabilities of \$343 million (reflecting \$71 million of net realized losses and \$272 million of net unrealized losses) for the three months ended June 2017 included losses of \$271 million, \$11 million and \$1 million reported in market making, other principal transactions and interest expense, respectively, in the consolidated statements of earnings, and losses of \$60 million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized losses on level 3 other financial liabilities for the three months ended June 2017 primarily reflected losses on certain hybrid financial instruments included in unsecured long-term borrowings, principally due to an increase in global equity prices, and changes in interest rates and credit spreads.

Transfers into level 3 of other financial liabilities during the three months ended June 2017 primarily reflected transfers of certain other secured financings from level 2, principally due to reduced transparency of certain yield inputs used to value these instruments.

Transfers out of level 3 of other financial liabilities during the three months ended June 2017 primarily reflected transfers of certain hybrid financial instruments included in unsecured short-term borrowings to level 2, principally due to increased transparency of certain inputs used to value these instruments as a result of market transactions in similar instruments.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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Six Months Ended June 2017. The net realized and unrealized losses on level 3 other financial liabilities of \$784 million (reflecting \$175 million of net realized losses and \$609 million of net unrealized losses) for the six months ended June 2017 included losses of \$644 million, \$23 million and \$4 million reported in market making, other principal transactions and interest expense, respectively, in the consolidated statements of earnings, and losses of \$113 million reported in debt valuation adjustment in the consolidated statements of comprehensive income.

The net unrealized losses on level 3 other financial liabilities for the six months ended June 2017 primarily reflected losses on certain hybrid financial instruments included in unsecured long-term and short-term borrowings, principally due to an increase in global equity prices, and changes in credit spreads.

Transfers into level 3 of other financial liabilities during the six months ended June 2017 primarily reflected transfers of certain other secured financings from level 2, principally due to reduced transparency of certain yield inputs used to value these instruments and transfers of certain hybrid financial instruments included in unsecured long-term borrowings from level 2, principally due to certain unobservable inputs being significant to the valuation of these instruments.

Transfers out of level 3 of other financial liabilities during the six months ended June 2017 primarily reflected transfers of certain hybrid financial instruments included in unsecured short-term borrowings to level 2, principally due to increased transparency of certain inputs used to value these instruments as a result of market transactions in similar instruments.

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

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Unsecured short-term borrowings	\$(101)	\$ (356)	\$ (15)	\$(1,217)
Unsecured long-term borrowings	421	(484)	1,122	(673)
Other liabilities		1	(17)	188
Other	(126)	(175)	40	(279)
Total	\$ 194	\$(1,014)	\$1,130	\$(1,981)

In the table above:

Gains/(losses) are included in market making and other principal transactions.

Gains/(losses) exclude contractual interest, which is included in interest income and interest expense, for all instruments other than hybrid financial instruments. See Note 23 for further information about interest income and interest expense.

Gains/(losses) included in unsecured short-term and long-term borrowings are substantially all related to the embedded derivative component of hybrid financial instruments for both the three and six months ended June 2018 and June 2017. These gains and losses would have been recognized under other U.S. GAAP even if the firm had not elected to account for the entire hybrid financial instrument at fair value.

Other liabilities for the six months ended June 2017 includes gains/(losses) on certain subordinated liabilities of consolidated VIEs.

Other primarily consists of gains/(losses) on receivables from customers and counterparties, deposits and other secured financings.

Excluding the gains and losses on the instruments accounted for under the fair value option described above, market making and other principal transactions primarily represent gains and losses on financial instruments owned and financial instruments sold, but not yet purchased.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Loans and Lending Commitments**

The table below presents the difference between the aggregate fair value and the aggregate contractual principal amount for loans and long-term receivables for which the fair value option was elected.

	As of	
	June	December
<i>\$ in millions</i>	2018	2017
Performing loans and long-term receivables		
Aggregate contractual principal in excess of fair value	\$1,111	\$ 952
Loans on nonaccrual status and/or more than 90 days past due		
Aggregate contractual principal in excess of fair value	\$4,815	\$5,266
Aggregate fair value of loans on nonaccrual status and/or more than 90 days past due	\$1,668	\$2,104

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

As of June 2018 and December 2017, the fair value of unfunded lending commitments for which the fair value option was elected was a liability of \$77 million and \$31 million, respectively, and the related total contractual amount of these lending commitments was \$11.63 billion and \$9.94 billion, respectively. See Note 18 for further information about lending commitments.

Long-Term Debt Instruments

The difference between the aggregate contractual principal amount and the related fair value of long-term other secured financings for which the fair value option was elected was not material as of both June 2018 and December 2017. The aggregate contractual principal amount of unsecured long-term borrowings for which the fair value option was elected exceeded the related fair value by \$2.63 billion and \$1.69 billion as of June 2018 and December 2017, respectively. The amounts above include both principal- and non-principal-protected long-term borrowings.

Impact of Credit Spreads on Loans and Lending Commitments

The estimated net gain attributable to changes in instrument-specific credit spreads on loans and lending commitments for which the fair value option was elected was \$84 million and \$110 million for the three months ended June 2018

and June 2017, respectively, and \$192 million and \$174 million for the six months ended June 2018 and June 2017, respectively. The firm generally calculates the fair value of loans and lending commitments for which the fair value option is elected by discounting future cash flows at a rate which incorporates the instrument-specific credit spreads. For floating-rate loans and lending commitments, substantially all changes in fair value are attributable to changes in instrument-specific credit spreads, whereas for fixed-rate loans and lending commitments, changes in fair value are also attributable to changes in interest rates.

Debt Valuation Adjustment

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

The table below presents details about the net DVA gains/(losses) on such financial liabilities.

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
DVA (pre-tax)	\$1,167	\$(430)	\$1,526	\$(643)
DVA (net of tax)	\$ 878	\$(275)	\$1,148	\$(414)

In the table above:

DVA (net of tax) is included in debt valuation adjustment in the consolidated statements of comprehensive income.

The gains/(losses) reclassified to earnings from accumulated other comprehensive loss upon extinguishment of such financial liabilities were not material for both the three and six months ended June 2018 and June 2017.

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Note 9.****Loans Receivable**

Loans receivable consists of loans held for investment that are accounted for at amortized cost net of allowance for loan losses. Interest on loans receivable is recognized over the life of the loan and is recorded on an accrual basis.

The table below presents details about loans receivable.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Corporate loans	\$34,556	\$30,749
Loans to PWM clients	17,663	16,591
Loans backed by commercial real estate	10,115	7,987
Loans backed by residential real estate	6,203	6,234
Marcus loans	3,120	1,912
Other loans	3,307	3,263
Total loans receivable, gross	74,964	66,736
Allowance for loan losses	(882)	(803)
Total loans receivable	\$74,082	\$65,933

As of June 2018 and December 2017, the fair value of loans receivable was \$74.41 billion and \$66.29 billion, respectively. Had these loans been carried at fair value and included in the fair value hierarchy, \$41.68 billion and \$38.75 billion would have been classified in level 2, and \$32.73 billion and \$27.54 billion would have been classified in level 3, as of June 2018 and December 2017, respectively.

The following is a description of the captions in the table above:

Corporate Loans. Corporate loans includes term loans, revolving lines of credit, letter of credit facilities and bridge loans, and are principally used for operating liquidity and general corporate purposes, or in connection with acquisitions. Corporate loans may be secured or unsecured, depending on the loan purpose, the risk profile of the borrower and other factors. Loans receivable related to the firm's relationship lending activities are reported within corporate loans.

Loans to Private Wealth Management (PWM) Clients. Loans to PWM clients includes loans used by clients to finance private asset purchases, employ leverage for strategic investments in real or financial assets, bridge cash flow timing gaps or provide liquidity for other needs. Such loans are primarily secured by securities or other assets.

Loans Backed by Commercial Real Estate. Loans backed by commercial real estate includes loans extended by the firm that are directly or indirectly secured by hotels, retail stores, multifamily housing complexes and commercial and industrial properties. Loans backed by commercial real estate also includes loans purchased by the firm.

Loans Backed by Residential Real Estate. Loans backed by residential real estate includes loans extended by the firm to clients who warehouse assets that are directly or indirectly secured by residential real estate. Loans backed by residential real estate also includes loans purchased by the firm.

Marcus Loans. Marcus loans represents unsecured loans to retail clients.

Other Loans. Other loans primarily includes loans extended to clients who warehouse assets that are directly or indirectly secured by retail loans, including auto loans, and private student loans and other assets.

Lending Commitments

The table below presents details about lending commitments that are held for investment and accounted for on an accrual basis.

	June 2018	As of December 2017
<i>\$ in millions</i>		
Corporate	\$123,524	\$118,553
Other	7,401	5,951
Total	\$130,925	\$124,504

In the table above:

Corporate lending commitments primarily relates to the firm's relationship lending activities.

Other lending commitments primarily relates to lending commitments extended by the firm to clients who warehouse assets backed by real estate and other assets.

The carrying value of lending commitments were liabilities of \$427 million (including allowance for losses of \$276 million) and \$423 million (including allowance for losses of \$274 million) as of June 2018 and December 2017, respectively.

The estimated fair value of such lending commitments were liabilities of \$2.70 billion and \$2.27 billion as of June 2018 and December 2017, respectively. Had these lending commitments been carried at fair value and included in the fair value hierarchy, \$916 million and \$772 million would have been classified in level 2, and

\$1.78 billion and \$1.50 billion would have been classified in level 3, as of June 2018 and December 2017, respectively.

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Purchased Credit Impaired (PCI) Loans

Loans receivable includes PCI loans, which represent acquired loans or pools of loans with evidence of credit deterioration subsequent to their origination and where it is probable, at acquisition, that the firm will not be able to collect all contractually required payments. Loans acquired within the same reporting period, which have at least two common risk characteristics, one of which relates to their credit risk, are eligible to be pooled together and considered a single unit of account. PCI loans are initially recorded at the acquisition price and the difference between the acquisition price and the expected cash flows (accretable yield) is recognized as interest income over the life of such loans or pools of loans on an effective yield method. Expected cash flows on PCI loans are determined using various inputs and assumptions, including default rates, loss severities, recoveries, amount and timing of prepayments and other macroeconomic indicators.

The tables below present details about PCI loans.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Loans backed by commercial real estate	\$ 855	\$1,116
Loans backed by residential real estate	2,765	3,327
Other loans	7	10
Total gross carrying value	\$3,627	\$4,453
Total outstanding principal balance	\$6,762	\$9,512
Total accretable yield	\$ 529	\$ 662

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Acquired during the period				
Fair value	\$298	\$ 826	\$ 298	\$1,088
Expected cash flows	\$328	\$ 914	\$ 328	\$1,210
Contractually required cash flows	\$704	\$2,176	\$ 704	\$2,808

In the table above:

Fair value, expected cash flows and contractually required cash flows were as of the acquisition date.

Expected cash flows represents the cash flows expected to be received over the life of the loan or as a result of liquidation of the underlying collateral.

Contractually required cash flows represents cash flows required to be repaid by the borrower over the life of the loan.

Credit Quality

Risk Assessment. The firm's risk assessment process includes evaluating the credit quality of its loans receivable. For loans receivable (excluding PCI and Marcus loans) and lending commitments, the firm performs credit reviews which include initial and ongoing analyses of its borrowers. A credit review is an independent analysis of the capacity and willingness of a borrower to meet its financial obligations, resulting in an internal credit rating. The determination of internal credit ratings also incorporates assumptions with respect to the nature of and outlook for the borrower's industry and the economic environment. The firm also assigns a regulatory risk rating to such loans based on the definitions provided by the U.S. federal bank regulatory agencies.

The firm enters into economic hedges to mitigate credit risk on certain loans receivable and corporate lending commitments (both of which are held for investment) related to the firm's relationship lending activities. Such hedges are accounted for at fair value. See Note 18 for further information about these lending commitments and associated hedges.

The table below presents gross loans receivable (excluding PCI and Marcus loans of \$6.75 billion and \$6.37 billion as of June 2018 and December 2017, respectively) and lending commitments by the firm's internally determined public rating agency equivalent and by regulatory risk rating.

<i>\$ in millions</i>	Loans	Lending Commitments	Total
Credit Rating Equivalent			
As of June 2018			
Investment-grade	\$25,706	\$ 92,134	\$117,840
Non-investment-grade	42,511	38,791	81,302
Total	\$68,217	\$130,925	\$199,142

As of December 2017

Investment-grade	\$24,192	\$ 89,409	\$113,601
Non-investment-grade	36,179	35,095	71,274
Total	\$60,371	\$124,504	\$184,875

Regulatory Risk Rating

As of June 2018			
Non-criticized/pass	\$63,802	\$127,332	\$191,134
Criticized	4,415	3,593	8,008
Total	\$68,217	\$130,925	\$199,142

As of December 2017

Non-criticized/pass	\$56,720	\$119,427	\$176,147
Criticized	3,651	5,077	8,728
Total	\$60,371	\$124,504	\$184,875

In the table above, non-criticized/pass loans and lending commitments represent loans and lending commitments that are performing and/or do not demonstrate adverse characteristics that are likely to result in a credit loss.

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For Marcus loans, an important credit-quality indicator is the Fair Isaac Corporation (FICO) credit score, which measures a borrower's creditworthiness by considering factors such as payment and credit history. FICO credit scores are refreshed periodically by the firm to assess the updated creditworthiness of the borrower. As of both June 2018 and December 2017, the weighted average FICO credit score of the Marcus loans receivable was in excess of 700 and the percentage of loans with an underlying FICO credit score of less than 660 was low double digits.

For PCI loans, the firm's risk assessment process includes reviewing certain key metrics, such as delinquency status, collateral values, expected cash flows and other risk factors.

Impaired Loans. Loans receivable (excluding PCI loans) are determined to be impaired when it is probable that the firm will not be able to collect all principal and interest due under the contractual terms of the loan. At that time, loans are generally placed on nonaccrual status and all accrued but uncollected interest is reversed against interest income and interest subsequently collected is recognized on a cash basis to the extent the loan balance is deemed collectible. Otherwise, all cash received is used to reduce the outstanding loan balance.

In certain circumstances, the firm may also modify the original terms of a loan agreement by granting a concession to a borrower experiencing financial difficulty. Such modifications are considered troubled debt restructurings and typically include interest rate reductions, payment extensions, and modification of loan covenants. Loans modified in a troubled debt restructuring are considered impaired and are subject to specific loan-level reserves.

As of June 2018 and December 2017, the gross carrying value of impaired loans receivable (excluding PCI loans) on nonaccrual status was \$936 million and \$845 million, respectively. As of June 2018 and December 2017, such loans included \$24 million and \$61 million of corporate loans that were modified in a troubled debt restructuring, respectively. The firm did not have any lending commitments related to these loans as of both June 2018 and December 2017.

When it is determined that the firm cannot reasonably estimate expected cash flows on PCI loans or pools of loans, such loans are placed on nonaccrual status.

Allowance for Losses on Loans and Lending Commitments

The firm's allowance for loan losses consists of specific loan-level reserves, portfolio level reserves and reserves on PCI loans, as described below:

Specific loan-level reserves are determined on loans (excluding PCI loans) that exhibit credit quality weakness and are therefore individually evaluated for impairment.

Portfolio level reserves are determined on loans (excluding PCI loans) not evaluated for specific loan-level reserves by aggregating groups of loans with similar risk characteristics and estimating the probable loss inherent in the portfolio.

Reserves on PCI loans are recorded when it is determined that the expected cash flows, which are reassessed on a quarterly basis, will be lower than those used to establish the current effective yield for such loans or pools of loans. If the expected cash flows are determined to be significantly higher than those used to establish the current effective yield, such increases are initially recognized as a reduction to any previously recorded allowances for loan losses and any remaining increases are recognized as interest income prospectively over the life of the loan or pools of loans as an increase to the effective yield.

The allowance for loan losses is determined using various risk factors, including industry default and loss data, current macroeconomic indicators, borrower's capacity to meet its financial obligations, borrower's country of risk, loan seniority and collateral type. In addition, for loans backed by real estate, risk factors include loan to value ratio, debt service ratio and home price index. Risk factors for Marcus loans include FICO credit scores and delinquency status.

Management's estimate of loan losses entails judgment about loan collectability at the reporting dates, and there are uncertainties inherent in those judgments. While management uses the best information available to determine this estimate, future adjustments to the allowance may be necessary based on, among other things, changes in the economic environment or variances between actual results and the original assumptions used. Loans are charged off against the allowance for loan losses when deemed to be uncollectible.

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Notes to Consolidated Financial Statements**(Unaudited)**

The firm also records an allowance for losses on lending commitments that are held for investment and accounted for on an accrual basis. Such allowance is determined using the same methodology as the allowance for loan losses, while also taking into consideration the probability of drawdowns or funding, and is included in other liabilities.

The table below presents gross loans receivable and lending commitments by impairment methodology.

<i>\$ in millions</i>	Specific	Portfolio	PCI	Total
As of June 2018				
Loans Receivable				
Corporate loans	\$267	\$ 34,289	\$	\$ 34,556
Loans to PWM clients	145	17,518		17,663
Loans backed by:				
Commercial real estate		9,260	855	10,115
Residential real estate	450	2,988	2,765	6,203
Marcus loans		3,120		3,120
Other loans	74	3,226	7	3,307
Total	\$936	\$ 70,401	\$3,627	\$ 74,964
Lending Commitments				
Corporate	\$ 19	\$123,505	\$	\$123,524
Other		7,401		7,401
Total	\$ 19	\$130,906	\$	\$130,925
As of December 2017				
Loans Receivable				
Corporate loans	\$377	\$ 30,372	\$	\$ 30,749
Loans to PWM clients	163	16,428		16,591
Loans backed by:				
Commercial real estate		6,871	1,116	7,987
Residential real estate	231	2,676	3,327	6,234
Marcus loans		1,912		1,912
Other loans	74	3,179	10	3,263
Total	\$845	\$ 61,438	\$4,453	\$ 66,736
Lending Commitments				
Corporate	\$ 53	\$118,500	\$	\$118,553
Other		5,951		5,951
Total	\$ 53	\$124,451	\$	\$124,504

In the table above:

Gross loans receivable and lending commitments, subject to specific loan-level reserves, included \$676 million and \$492 million of impaired loans and lending commitments as of June 2018 and December 2017, respectively, which did not require a reserve as the loan was deemed to be recoverable.

Gross loans receivable deemed impaired and subject to specific loan-level reserves represented 1.2% and 1.3% of total gross loans receivable as of June 2018 and December 2017, respectively.

The table below presents changes in the allowance for loan losses and the allowance for losses on lending commitments, as well as details by impairment methodology.

<i>\$ in millions</i>	Six Months Ended June 2018		Year Ended December 2017	
	Loans Receivable	Lending Commitments	Loans Receivable	Lending Commitments
Changes in the allowance for losses				
Beginning balance	\$ 803	\$274	\$ 509	\$212
Net charge-offs	(142)		(203)	
Provision	268	10	574	83
Other	(47)	(8)	(77)	(21)
Ending balance	\$ 882	\$276	\$ 803	\$274
Allowance for losses by impairment methodology				
Specific	\$ 97	\$ 6	\$ 119	\$ 14
Portfolio	643	270	518	260
PCI	142		166	
Total	\$ 882	\$276	\$ 803	\$274

In the table above:

Net charge-offs were primarily related to PCI loans backed by commercial real estate for the six months ended June 2018 and primarily related to corporate loans for the year ended December 2017.

The provision for losses on loans and lending commitments is included in other principal transactions, and was primarily related to Marcus loans and corporate loans for the six months ended June 2018 and primarily related to corporate loans and lending commitments, and loans backed by commercial real estate for the year ended December 2017.

Other represents the reduction to the allowance related to loans and lending commitments transferred to held for sale.

Portfolio level reserves were primarily related to corporate loans, specific loan-level reserves were substantially all related to corporate loans and reserves on PCI loans were related to loans backed by real estate.

Substantially all of the allowance for losses on lending commitments was related to corporate lending commitments.

Allowance for loan losses as a percentage of total gross loans receivable was 1.2% as of both June 2018 and December 2017.

Net charge-offs as a percentage of average total gross loans receivable was 0.4% on an annualized basis for the six months ended June 2018 and 0.4% for the year ended December 2017.

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Notes to Consolidated Financial Statements**(Unaudited)****Note 10.****Collateralized Agreements and Financings**

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

Collateralized agreements and financings are presented on a net-by-counterparty basis when a legal right of setoff exists. Interest on collateralized agreements and collateralized financings is recognized over the life of the transaction and included in interest income and interest expense, respectively. See Note 23 for further information about interest income and interest expense.

The table below presents the carrying value of resale and repurchase agreements and securities borrowed and loaned transactions.

	As of	
	June	December
<i>\$ in millions</i>	2018	2017
Securities purchased under agreements to resell	\$135,180	\$120,822
Securities borrowed	\$162,825	\$190,848
Securities sold under agreements to repurchase	\$ 93,219	\$ 84,718
Securities loaned	\$ 16,300	\$ 14,793
In the table above:		

Substantially all resale agreements and all repurchase agreements are carried at fair value under the fair value option. See Note 8 for further information about the valuation techniques and significant inputs used to determine fair value.

As of June 2018 and December 2017, \$42.20 billion and \$78.19 billion of securities borrowed, and \$6.35 billion and \$5.36 billion of securities loaned were at fair value, respectively.

Resale and Repurchase Agreements

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

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

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

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

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Notes to Consolidated Financial Statements**(Unaudited)****Securities Borrowed and Loaned Transactions**

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

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

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

Securities borrowed and loaned within FICC Client Execution are recorded at fair value under the fair value option. See Note 8 for further information about securities borrowed and loaned accounted for at fair value.

Securities borrowed and loaned within Securities Services are recorded based on the amount of cash collateral advanced or received plus accrued interest. As these agreements generally can be terminated on demand, they exhibit little, if any, sensitivity to changes in interest rates. Therefore, the carrying value of such agreements approximates fair value. While these agreements are carried at amounts that approximate fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these agreements been included in the firm's fair value hierarchy, they would have been classified in level 2 as of both June 2018 and December 2017.

Offsetting Arrangements

The table below presents the gross and net resale and repurchase agreements and securities borrowed and loaned transactions, and the related amount of counterparty netting included in the consolidated statements of financial condition, as well as the amounts of counterparty netting and cash and securities collateral, not offset in the consolidated statements of financial condition.

	Assets		Liabilities	
	Resale agreements	Securities borrowed	Repurchase agreements	Securities loaned
<i>\$ in millions</i>				

As of June 2018**Included in consolidated statements of financial condition**

Gross carrying value	\$ 221,538	\$ 167,140	\$179,577	\$ 20,615
Counterparty netting	(86,358)	(4,315)	(86,358)	(4,315)
Total	135,180	162,825	93,219	16,300
Amounts not offset				
Counterparty netting	(13,836)	(5,185)	(13,836)	(5,185)
Collateral	(120,181)	(150,328)	(76,594)	(10,959)
Total	\$ 1,163	\$ 7,312	\$ 2,789	\$ 156

As of December 2017

Included in consolidated statements of financial condition				
Gross carrying value	\$ 209,972	\$ 195,783	\$173,868	\$ 19,728
Counterparty netting	(89,150)	(4,935)	(89,150)	(4,935)
Total	120,822	190,848	84,718	14,793
Amounts not offset				
Counterparty netting	(5,441)	(4,412)	(5,441)	(4,412)
Collateral	(113,305)	(177,679)	(76,793)	(9,731)
Total	\$ 2,076	\$ 8,757	\$ 2,484	\$ 650

In the table above:

Substantially all of the gross carrying values of these arrangements are subject to enforceable netting agreements.

Where the firm has received or posted collateral under credit support agreements, but has not yet determined such agreements are enforceable, the related collateral has not been netted.

Amounts not offset includes counterparty netting that does not meet the criteria for netting under U.S. GAAP and the fair value of collateral received or posted subject to enforceable credit support agreements.

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Notes to Consolidated Financial Statements**(Unaudited)****Gross Carrying Value of Repurchase Agreements and Securities Loaned**

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

	Repurchase	Securities
	agreements	loaned
<i>\$ in millions</i>		
As of June 2018		
Money market instruments	\$ 81	\$
U.S. government and agency obligations	74,386	
Non-U.S. government and agency obligations	79,508	2,350
Securities backed by commercial real estate	10	
Securities backed by residential real estate	293	
Corporate debt securities	9,553	129
Other debt obligations	10	
Equity securities	15,736	18,136
Total	\$179,577	\$20,615
As of December 2017		
Money market instruments	\$ 97	\$
U.S. government and agency obligations	80,591	
Non-U.S. government and agency obligations	73,031	2,245
Securities backed by commercial real estate	43	
Securities backed by residential real estate	338	
Corporate debt securities	7,140	1,145
Other debt obligations	55	
Equity securities	12,573	16,338
Total	\$173,868	\$19,728

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

	As of June 2018	
	Repurchase	Securities
<i>\$ in millions</i>	agreements	loaned
No stated maturity and overnight	\$ 51,863	\$ 8,843

2 - 30 days	57,529	2,801
31 - 90 days	18,600	1,398
91 days - 1 year	40,812	6,062
Greater than 1 year	10,773	1,511
Total	\$179,577	\$20,615

In the table above:

Repurchase agreements and securities loaned that are repayable prior to maturity at the option of the firm are reflected at their contractual maturity dates.

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

Other Secured Financings

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

Liabilities of consolidated VIEs;

Transfers of assets accounted for as financings rather than sales (primarily collateralized central bank financings, pledged commodities, bank loans and mortgage whole loans); and

Other structured financing arrangements.

Other secured financings includes arrangements that are nonrecourse. As of June 2018 and December 2017, nonrecourse other secured financings were \$6.41 billion and \$5.31 billion, respectively.

The firm has elected to apply the fair value option to substantially all other secured financings because the use of fair value eliminates non-economic volatility in earnings that would arise from using different measurement attributes. See Note 8 for further information about other secured financings that are accounted for at fair value.

Other secured financings that are not recorded at fair value are recorded based on the amount of cash received plus accrued interest, which generally approximates fair value. While these financings are carried at amounts that approximate fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these financings been included in the firm's fair value hierarchy, they would have been classified in level 3 as of June 2018 and primarily classified in level 2 as of December 2017.

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The table below presents information about other secured financings.

	U.S.	Non-U.S.	
<i>\$ in millions</i>	Dollar	Dollar	Total
As of June 2018			
Other secured financings (short-term):			
At fair value	\$ 8,119	\$ 6,108	\$14,227
At amortized cost	119		119
Other secured financings (long-term):			
At fair value	8,308	3,725	12,033
At amortized cost			
Total	\$16,546	\$ 9,833	\$26,379
Other secured financings collateralized by:			
Financial instruments	\$13,309	\$ 9,387	\$22,696
Other assets	\$ 3,237	\$ 446	\$ 3,683

As of December 2017

Other secured financings (short-term):			
At fair value	\$ 7,704	\$ 6,856	\$14,560
At amortized cost		336	336
Other secured financings (long-term):			
At fair value	6,779	3,006	9,785
At amortized cost	107		107
Total	\$14,590	\$10,198	\$24,788

Other secured financings collateralized by:

Financial instruments	\$12,454	\$ 9,870	\$22,324
Other assets	\$ 2,136	\$ 328	\$ 2,464

In the table above:

Short-term other secured financings includes financings maturing within one year of the financial statement date and financings that are redeemable within one year of the financial statement date at the option of the holder.

U.S. dollar-denominated short-term other secured financings at amortized cost had a weighted average interest rate of 4.71% as of June 2018. U.S. dollar-denominated long-term other secured financings at amortized cost had a weighted average interest rate of 3.89% as of December 2017. These rates include the effect of hedging activities.

Non-U.S. dollar-denominated short-term other secured financings at amortized cost had a weighted average interest rate of 2.61% as of December 2017. This rate includes the effect of hedging activities.

Total other secured financings included \$1.54 billion and \$1.55 billion related to transfers of financial assets accounted for as financings rather than sales as of June 2018 and December 2017, respectively. Such financings were collateralized by financial assets of \$1.56 billion and \$1.57 billion as of June 2018 and December 2017, respectively, primarily included in financial instruments owned.

Other secured financings collateralized by financial instruments included \$16.65 billion and \$16.61 billion of other secured financings collateralized by financial instruments owned as of June 2018 and December 2017, respectively, and \$6.05 billion and \$5.71 billion of other secured financings collateralized by financial instruments received as collateral and repledged as of June 2018 and December 2017, respectively.

The table below presents other secured financings by maturity date.

<i>\$ in millions</i>	As of June 2018
Other secured financings (short-term)	\$14,346
Other secured financings (long-term):	
2019	3,341
2020	2,531
2021	655
2022	2,582
2023	321
2024 - thereafter	2,603
Total other secured financings (long-term)	12,033
Total other secured financings	\$26,379

In the table above:

Long-term other secured financings that are repayable prior to maturity at the option of the firm are reflected at their contractual maturity dates.

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

Collateral Received and Pledged

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

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

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

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

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Collateral available to be delivered or repledged	\$731,248	\$763,984
Collateral that was delivered or repledged	\$605,096	\$599,565

In the table above, as of June 2018 and December 2017, collateral available to be delivered or repledged excludes \$12.16 billion and \$1.52 billion, respectively, of securities received under resale agreements and securities borrowed transactions that contractually had the right to be delivered or repledged, but were segregated for regulatory and other purposes.

The table below presents information about assets pledged.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Financial instruments owned pledged to counterparties that:		
Had the right to deliver or repledge	\$ 71,384	\$ 50,335
Did not have the right to deliver or repledge	\$ 86,294	\$ 78,656
Other assets pledged to counterparties that did not have the right to deliver or repledge	\$ 6,394	\$ 4,838

The firm also segregated \$13.13 billion and \$10.42 billion of securities included in financial instruments owned as of June 2018 and December 2017, respectively, for regulatory and other purposes. See Note 3 for information about segregated cash.

Note 11.**Securitization Activities**

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

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

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

For transfers of financial assets that are not accounted for as sales, the assets remain in financial instruments owned and the transfer is accounted for as a collateralized financing, with the related interest expense recognized over the life of the transaction. See Notes 10 and 23 for further information about collateralized financings and interest expense, respectively.

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

The primary risks included in beneficial interests and other interests from the firm's continuing involvement with securitization vehicles are the performance of the underlying collateral, the position of the firm's investment in the capital structure of the securitization vehicle and the market yield for the security. These interests primarily are accounted for at fair value and classified in level 2 of the fair value hierarchy. Beneficial interests and other interests not accounted for at fair value are carried at amounts that approximate fair value. See Notes 5 through 8 for further information about fair value measurements.

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

<i>\$ in millions</i>	Three Months		Six Months	
	Ended June		Ended June	
	2018	2017	2018	2017
Residential mortgages	\$10,241	\$6,625	\$17,039	\$ 9,568
Commercial mortgages	2,157	1,892	4,196	2,954
Other financial assets	382	395	615	395
Total	\$12,780	\$8,912	\$21,850	\$12,917
Retained interests cash flows	\$ 111	\$ 81	\$ 201	\$ 142

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The table below presents the firm's continuing involvement in nonconsolidated securitization entities to which the firm sold assets, as well as the total outstanding principal amount of transferred assets in which the firm has continuing involvement.

<i>\$ in millions</i>	Outstanding Principal Amount	Retained Interests	Purchased Interests
<u>As of June 2018</u>			
U.S. government agency-issued collateralized mortgage obligations	\$27,887	\$2,371	\$84
Other residential mortgage-backed	16,892	824	11
Other commercial mortgage-backed	10,337	340	1
Corporate debt and other asset-backed	2,358	79	1
Total	\$57,474	\$3,614	\$97
<u>As of December 2017</u>			
U.S. government agency-issued collateralized mortgage obligations	\$20,232	\$1,120	\$16
Other residential mortgage-backed	10,558	711	17
Other commercial mortgage-backed	7,916	228	7
Corporate debt and other asset-backed	2,108	56	1
Total	\$40,814	\$2,115	\$41

In the table above:

The outstanding principal amount is presented for the purpose of providing information about the size of the securitization entities and is not representative of the firm's risk of loss.

The firm's risk of loss from retained or purchased interests is limited to the carrying value of these interests.

Purchased interests represent senior and subordinated interests, purchased in connection with secondary market-making activities, in securitization entities in which the firm also holds retained interests.

Substantially all of the total outstanding principal amount and total retained interests relate to securitizations during 2014 and thereafter as of June 2018, and relate to securitizations during 2012 and thereafter as of December 2017.

The fair value of retained interests was \$3.62 billion and \$2.13 billion as of June 2018 and December 2017, respectively.

In addition to the interests in the table above, the firm had other continuing involvement in the form of derivative transactions and commitments with certain nonconsolidated VIEs. The carrying value and notional amount of these derivatives and commitments was a net asset of \$59 million and \$1.18 billion as of June 2018, and \$86 million and \$1.26 billion as of December 2017, respectively. The notional amounts of these derivatives and commitments are included in maximum exposure to loss in the nonconsolidated VIE table in Note 12.

The table below presents the weighted average key economic assumptions used in measuring the fair value of mortgage-backed retained interests and the sensitivity of this fair value to immediate adverse changes of 10% and 20% in those assumptions.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Fair value of retained interests	\$3,546	\$2,071
Weighted average life (years)	7.4	6.0
Constant prepayment rate	9.7%	9.4%
Impact of 10% adverse change	\$ (23)	\$ (19)
Impact of 20% adverse change	\$ (46)	\$ (35)
Discount rate	4.4%	4.2%
Impact of 10% adverse change	\$ (82)	\$ (35)
Impact of 20% adverse change	\$ (161)	\$ (70)

In the table above:

Amounts do not reflect the benefit of other financial instruments that are held to mitigate risks inherent in these retained interests.

Changes in fair value based on an adverse variation in assumptions generally cannot be extrapolated because the relationship of the change in assumptions to the change in fair value is not usually linear.

The impact of a change in a particular assumption is calculated independently of changes in any other assumption. In practice, simultaneous changes in assumptions might magnify or counteract the sensitivities disclosed above.

The constant prepayment rate is included only for positions for which it is a key assumption in the determination of fair value.

The discount rate for retained interests that relate to U.S. government agency-issued collateralized mortgage obligations does not include any credit loss. Expected credit loss assumptions are reflected in the discount rate for the remainder of retained interests.

The firm has other retained interests not reflected in the table above with a fair value of \$79 million and a weighted average life of 4.5 years as of June 2018, and a fair value of \$56 million and a weighted average life of 4.5 years as of December 2017. Due to the nature and fair value of certain of these retained interests, the weighted average assumptions for constant prepayment and discount rates and the related sensitivity to adverse changes are not meaningful as of both June 2018 and December 2017. The firm's maximum exposure to adverse changes in the value of these interests is the carrying value of \$79 million and \$56 million as of June 2018 and December 2017, respectively.

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Note 12.

Variable Interest Entities

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

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

VIEs generally finance the purchase of assets by issuing debt and equity securities that are either collateralized by or indexed to the assets held by the VIE. The debt and equity securities issued by a VIE may include tranches of varying levels of subordination. The firm's involvement with VIEs includes securitization of financial assets, as described in Note 11, and investments in and loans to other types of VIEs, as described below. See Note 11 for further information about securitization activities, including the definition of beneficial interests. See Note 3 for the firm's consolidation policies, including the definition of a VIE.

VIE Consolidation Analysis

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

Which variable interest holder has the power to direct the activities of the VIE that most significantly impact the VIE's economic performance;

Which variable interest holder has the obligation to absorb losses or the right to receive benefits from the VIE that could potentially be significant to the VIE;

The VIE's purpose and design, including the risks the VIE was designed to create and pass through to its variable interest holders;

The VIE's capital structure;

The terms between the VIE and its variable interest holders and other parties involved with the VIE; and

Related-party relationships.

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

VIE Activities

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

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

Real Estate, Credit- and Power-Related and Other Investing VIEs. The firm purchases equity and debt securities issued by and makes loans to VIEs that hold real estate, performing and nonperforming debt, distressed loans, power-related assets and equity securities. The firm typically does not sell assets to, or enter into derivatives with, these VIEs.

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

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

Investments in Funds. The firm makes equity investments in certain of the investment fund VIEs it manages and is entitled to receive fees from these VIEs. The firm typically does not sell assets to, or enter into derivatives with, these VIEs.

Nonconsolidated VIEs

The table below presents a summary of the nonconsolidated VIEs in which the firm holds variable interests. The nature of the firm's variable interests can take different forms, as described in the rows under maximum exposure to loss.

<i>\$ in millions</i>	As of June 2018	December 2017
Total nonconsolidated VIEs		
Assets in VIEs	\$116,676	\$97,962
Carrying value of variable interests — assets	10,140	8,425
Carrying value of variable interests — liabilities	381	214
Maximum exposure to loss:		
Retained interests	3,614	2,115
Purchased interests	1,205	1,172
Commitments and guarantees	2,752	3,462
Derivatives	8,614	8,406
Loans and investments	4,778	4,454
Total maximum exposure to loss	\$ 20,963	\$19,609

In the table above:

The firm's exposure to the obligations of VIEs is generally limited to its interests in these entities. In certain instances, the firm provides guarantees, including derivative guarantees, to VIEs or holders of variable interests in VIEs.

The maximum exposure to loss excludes the benefit of offsetting financial instruments that are held to mitigate the risks associated with these variable interests.

The maximum exposure to loss from retained interests, purchased interests, and loans and investments is the carrying value of these interests.

The maximum exposure to loss from commitments and guarantees, and derivatives is the notional amount, which does not represent anticipated losses and also has not been reduced by unrealized losses already recorded. As a result, the maximum exposure to loss exceeds liabilities recorded for commitments and guarantees, and derivatives provided to VIEs.

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

<i>\$ in millions</i>	June 2018	As of December 2017
Mortgage-backed		
Assets in VIEs	\$71,322	\$55,153
Carrying value of variable interests assets	4,695	3,128
Maximum exposure to loss:		
Retained interests	3,535	2,059
Purchased interests	1,155	1,067
Commitments and guarantees	37	11
Derivatives	97	99
Total maximum exposure to loss	\$ 4,824	\$ 3,236
Real estate, credit- and power-related and other investing		
Assets in VIEs	\$18,182	\$15,539
Carrying value of variable interests assets	3,320	3,289
Carrying value of variable interests liabilities	3	2
Maximum exposure to loss:		
Commitments and guarantees	1,528	1,617
Loans and investments	3,317	3,289
Total maximum exposure to loss	\$ 4,845	\$ 4,906
Corporate debt and other asset-backed		
Assets in VIEs	\$14,413	\$16,251
Carrying value of variable interests assets	1,800	1,660
Carrying value of variable interests liabilities	378	212
Maximum exposure to loss:		
Retained interests	79	56
Purchased interests	50	105
Commitments and guarantees	1,116	1,779
Derivatives	8,513	8,303
Loans and investments	1,136	817
Total maximum exposure to loss	\$10,894	\$11,060
Investments in funds		
Assets in VIEs	\$12,759	\$11,019
Carrying value of variable interests assets	325	348

Maximum exposure to loss:

Commitments and guarantees	71	55
Derivatives	4	4
Loans and investments	325	348
Total maximum exposure to loss	\$ 400	\$ 407

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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As of both June 2018 and December 2017, the carrying values of the firm's variable interests in nonconsolidated VIEs are included in the consolidated statements of financial condition as follows:

Mortgage-backed: Assets were primarily included in financial instruments owned.

Real estate, credit- and power-related and other investing: Assets were primarily included in financial instruments owned and liabilities were included in financial instruments sold, but not yet purchased and other liabilities.

Corporate debt and other asset-backed: Substantially all assets were included in financial instruments owned and liabilities were included in financial instruments sold, but not yet purchased.

Investments in funds: Assets were included in financial instruments owned.

Consolidated VIEs

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

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Total consolidated VIEs		
<i>Assets</i>		
Cash and cash equivalents	\$ 321	\$ 275
Receivables from customers and counterparties	2	2
Loans receivable	360	427
Financial instruments owned	1,652	1,194
Other assets	1,099	1,273
Total	\$3,434	\$3,171
<i>Liabilities</i>		
Other secured financings	\$1,095	\$1,023
Financial instruments sold, but not yet purchased	5	15
Unsecured short-term borrowings	50	79
Unsecured long-term borrowings	216	225

Other liabilities	1,068	577
Total	\$2,434	\$1,919

In the table above:

Assets and liabilities are presented net of intercompany eliminations and exclude the benefit of offsetting financial instruments that are held to mitigate the risks associated with the firm's variable interests.

VIEs in which the firm holds a majority voting interest are excluded if (i) the VIE meets the definition of a business and (ii) the VIE's assets can be used for purposes other than the settlement of its obligations.

Substantially all assets can only be used to settle obligations of the VIE.

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

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Real estate, credit-related and other investing		
<i>Assets</i>		
Cash and cash equivalents	\$ 321	\$ 275
Loans receivable	309	375
Financial instruments owned	1,392	896
Other assets	1,093	1,267
Total	\$ 3,115	\$ 2,813
<i>Liabilities</i>		
Other secured financings	\$ 414	\$ 327
Financial instruments sold, but not yet purchased	5	15
Other liabilities	1,068	577
Total	\$ 1,487	\$ 919
Mortgage-backed and other asset-backed		
<i>Assets</i>		
Receivables from customers and counterparties	\$ 2	\$ 2
Loans receivable	51	52
Financial instruments owned	240	242
Other assets	6	6
Total	\$ 299	\$ 302
<i>Liabilities</i>		
Other secured financings	\$ 207	\$ 207
Total	\$ 207	\$ 207
Principal-protected notes		
<i>Assets</i>		

Financial instruments owned	\$ 20	\$ 56
Total	\$ 20	\$ 56
<i>Liabilities</i>		
Other secured financings	\$ 474	\$ 489
Unsecured short-term borrowings	50	79
Unsecured long-term borrowings	216	225
Total	\$ 740	\$ 793

In the table above:

The majority of the assets in principal-protected notes VIEs are intercompany and are eliminated in consolidation.

Creditors and beneficial interest holders of real estate, credit-related and other investing VIEs, and mortgage-backed and other asset-backed VIEs do not have recourse to the general credit of the firm.

Note 13.

Other Assets

Other assets are generally less liquid, nonfinancial assets. The table below presents other assets by type.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Property, leasehold improvements and equipment	\$17,108	\$15,094
Goodwill and identifiable intangible assets	4,106	4,038
Income tax-related assets	1,612	3,728
Miscellaneous receivables and other	5,684	5,486
Total	\$28,510	\$28,346

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

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(Unaudited)

In the table above:

Property, leasehold improvements and equipment is net of accumulated depreciation and amortization of \$8.73 billion and \$8.28 billion as of June 2018 and December 2017, respectively. Property, leasehold improvements and equipment included \$6.24 billion and \$5.97 billion as of June 2018 and December 2017, respectively, that the firm uses in connection with its operations, and \$916 million and \$982 million as of June 2018 and December 2017, respectively, of foreclosed real estate primarily related to PCI loans. The remainder is held by investment entities, including VIEs, consolidated by the firm. Substantially all property and equipment is depreciated on a straight-line basis over the useful life of the asset. Leasehold improvements are amortized on a straight-line basis over the useful life of the improvement or the term of the lease, whichever is shorter. Capitalized costs of software developed or obtained for internal use are amortized on a straight-line basis over three years.

The decrease in income tax-related assets during the first half of 2018 reflected a decrease in net current tax receivables, as the net deferred tax liability related to the Tax Legislation repatriation tax became current and was netted against current tax receivables. See Note 24 for further information about Tax Legislation.

Miscellaneous receivables and other included debt securities accounted for as held-to-maturity of \$833 million and \$800 million as of June 2018 and December 2017, respectively. These securities were backed by residential real estate, had maturities of greater than ten years, are carried at amortized cost and the carrying value of these securities approximated fair value as of both June 2018 and December 2017. As these securities are not accounted for at fair value, they are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these securities been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both June 2018 and December 2017.

Miscellaneous receivables and other included investments in qualified affordable housing projects of \$653 million and \$679 million as of June 2018 and December 2017, respectively.

Miscellaneous receivables and other included assets classified as held for sale of \$441 million and \$634 million as of June 2018 and December 2017, respectively, related to the firm's consolidated investments within its Investing & Lending segment, substantially all of which consisted of property and equipment.

Miscellaneous receivables and other included equity-method investments of \$278 million and \$275 million as of June 2018 and December 2017, respectively.

Goodwill and Identifiable Intangible Assets

Goodwill. The table below presents the carrying value of goodwill.

<i>\$ in millions</i>	June 2018	As of December 2017
Investment Banking:		
Financial Advisory	\$ 98	\$ 98
Underwriting	183	183
Institutional Client Services:		
FICC Client Execution	269	269
Equities client execution	2,403	2,403
Securities services	105	105
Investing & Lending	94	2
Investment Management	605	605
Total	\$3,757	\$3,665

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

Goodwill is assessed for impairment annually in the fourth quarter or more frequently if events occur or circumstances change that indicate an impairment may exist. When assessing goodwill for impairment, first, qualitative factors are assessed to determine whether it is more likely than not that the estimated fair value of a reporting unit is less than its estimated carrying value. If the results of the qualitative assessment are not conclusive, a quantitative goodwill test is performed.

The quantitative goodwill test compares the estimated fair value of each reporting unit with its estimated net book value (including goodwill and identifiable intangible assets). If the reporting unit's estimated fair value exceeds its estimated net book value, goodwill is not impaired. An impairment is recognized if the estimated fair value of a reporting unit is less than its estimated net book value. To estimate the fair value of each reporting unit, a relative value technique is used because the firm believes market participants would use this technique to value the firm's reporting units. The relative value technique applies observable price-to-earnings multiples or price-to-book multiples and projected return on equity of comparable competitors to reporting units' net earnings or net book value. The estimated net book value of each reporting unit reflects an allocation of total shareholders' equity and represents the estimated amount of total shareholders' equity required to support the activities of the reporting unit under currently applicable regulatory capital requirements.

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In the fourth quarter of 2017, the firm assessed goodwill for impairment for each of its reporting units by performing a qualitative assessment. Multiple factors were assessed with respect to each of the firm's reporting units to determine whether it was more likely than not that the estimated fair value of any of these reporting units was less than its estimated carrying value. The qualitative assessment also considered changes since the prior quantitative tests.

As a result of the qualitative assessment, the firm determined that it was more likely than not that the estimated fair value of each of the reporting units exceeded its respective carrying value. Therefore, the firm determined that goodwill for each reporting unit was not impaired and that a quantitative goodwill test was not required.

There were no events or changes in circumstances during the six months ended June 2018 that would indicate that it was more likely than not that the estimated fair value of each of the reporting units did not exceed its respective estimated carrying value as of June 2018.

Identifiable Intangible Assets. The table below presents the carrying value of identifiable intangible assets.

<i>\$ in millions</i>	June 2018	As of December 2017
Institutional Client Services:		
FICC Client Execution	\$ 23	\$ 37
Equities client execution	62	88
Investing & Lending	167	140
Investment Management	97	108
Total	\$ 349	\$ 373

The table below presents further details on the net carrying value of identifiable intangible assets.

<i>\$ in millions</i>	June 2018	As of December 2017
Customer lists		
Gross carrying value	\$ 1,111	\$ 1,091
Accumulated amortization	(938)	(903)
Net carrying value	173	188

Acquired leases and other

Gross carrying value	614	584
Accumulated amortization	(438)	(399)
Net carrying value	176	185
Total gross carrying value	1,725	1,675
Total accumulated amortization	(1,376)	(1,302)
Total net carrying value	\$ 349	\$ 373

In the table above:

During the three and six months ended June 2018, the firm acquired \$42 million and \$76 million, respectively, of intangible assets, primarily related to acquired leases, with a weighted average amortization period of four years.

During 2017, the firm acquired \$113 million of intangible assets, primarily related to acquired leases, with a weighted average amortization period of five years.

Substantially all of the firm's identifiable intangible assets are considered to have finite useful lives and are amortized over their estimated useful lives generally using the straight-line method.

The tables below present details about amortization of identifiable intangible assets.

<i>\$ in millions</i>	Three Months Ended June		Six Months Ended June	
	2018	2017	2018	2017
Amortization	\$40	\$29	\$85	\$ 70

<i>\$ in millions</i>	As of June 2018
Estimated future amortization	
Remainder of 2018	\$ 67
2019	\$105
2020	\$ 47
2021	\$ 32
2022	\$ 24
2023	\$ 20

Impairments

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

During both the six months ended June 2018 and June 2017, impairments were not material to the firm's results of operations or financial condition.

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Notes to Consolidated Financial Statements**(Unaudited)****Note 14.****Deposits**

The table below presents the types and sources of the firm's deposits.

<i>\$ in millions</i>	Savings and Demand	Time	Total
<u>As of June 2018</u>			
Private bank deposits	\$52,431	\$ 1,893	\$ 54,324
Marcus deposits	17,611	5,587	23,198
Brokered certificates of deposit		39,744	39,744
Deposit sweep programs	15,846		15,846
Institutional deposits	1	20,328	20,329
Total	\$85,889	\$67,552	\$153,441

As of December 2017

Private bank deposits	\$50,579	\$ 1,623	\$ 52,202
Marcus deposits	13,787	3,330	17,117
Brokered certificates of deposit		35,704	35,704
Deposit sweep programs	16,019		16,019
Institutional deposits	1	17,561	17,562
Total	\$80,386	\$58,218	\$138,604

In the table above:

Substantially all deposits are interest-bearing.

Savings and demand accounts consist of money market deposit accounts, negotiable order of withdrawal accounts and demand deposit accounts that have no stated maturity or expiration date.

Time deposits included \$25.63 billion and \$22.90 billion as of June 2018 and December 2017, respectively, of deposits accounted for at fair value under the fair value option. See Note 8 for further information about deposits accounted for at fair value.

Time deposits had a weighted average maturity of approximately 1.7 years and 2.0 years as of June 2018 and December 2017, respectively.

Deposit sweep programs represent long-term contractual agreements with several U.S. broker-dealers who sweep client cash to FDIC-insured deposits. As of both June 2018 and December 2017, the firm had eight deposit sweep program contractual arrangements.

Deposits insured by the FDIC as of June 2018 and December 2017 were approximately \$84.78 billion and \$75.02 billion, respectively.

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

<i>\$ in millions</i>	As of	
	June 2018	December 2017
U.S. offices	\$122,110	\$111,002
Non-U.S. offices	31,331	27,602
Total	\$153,441	\$138,604

In the table above, U.S. deposits were held at Goldman Sachs Bank USA (GS Bank USA) and substantially all non-U.S. deposits were held at Goldman Sachs International Bank (GSIB).

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

<i>\$ in millions</i>	As of June 2018		
	U.S.	Non-U.S.	Total
Remainder of 2018	\$ 8,795	\$ 11,518	\$ 20,313
2019	14,392	9,256	23,648
2020	7,132	12	7,144
2021	4,440	42	4,482
2022	4,863	84	4,947
2023	2,659	167	2,826
2024 - thereafter	3,512	680	4,192
Total	\$45,793	\$ 21,759	\$ 67,552

As of June 2018, deposits in U.S. and non-U.S. offices included \$2.13 billion and \$13.14 billion, respectively, of time deposits that were greater than \$250,000.

The firm's savings and demand deposits are recorded based on the amount of cash received plus accrued interest, which approximates fair value. In addition, the firm designates certain derivatives as fair value hedges to convert a portion of its time deposits not accounted for at fair value from fixed-rate obligations into floating-rate obligations. The carrying value of time deposits not accounted for at fair value approximated fair value as of both June 2018 and December 2017. While these savings and demand deposits and time deposits are carried at amounts that approximate

fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these deposits been included in the firm's fair value hierarchy, they would have been classified in level 2 as of both June 2018 and December 2017.

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Notes to Consolidated Financial Statements**(Unaudited)****Note 15.****Short-Term Borrowings**

The table below presents details about the firm's short-term borrowings.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Other secured financings (short-term)	\$14,346	\$14,896
Unsecured short-term borrowings	44,390	46,922
Total	\$58,736	\$61,818

See Note 10 for information about other secured financings.

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

The firm accounts for certain hybrid financial instruments at fair value under the fair value option. See Note 8 for further information about unsecured short-term borrowings that are accounted for at fair value. In addition, the firm designates certain derivatives as fair value hedges to convert a portion of its unsecured short-term borrowings not accounted for at fair value from fixed-rate obligations into floating-rate obligations. The carrying value of unsecured short-term borrowings that are not recorded at fair value generally approximates fair value due to the short-term nature of the obligations. While these unsecured short-term borrowings are carried at amounts that approximate fair value, they are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP and therefore are not included in the firm's fair value hierarchy in Notes 6 through 8. Had these borrowings been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both June 2018 and December 2017.

The table below presents details about the firm's unsecured short-term borrowings.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Current portion of unsecured long-term borrowings	\$25,949	\$30,090
Hybrid financial instruments	14,714	12,973

Other unsecured short-term borrowings	3,727	3,859
Total	\$44,390	\$46,922

Weighted average interest rate	2.45%	2.28%
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In the table above, the weighted average interest rates for these borrowings include the effect of hedging activities and exclude unsecured short-term borrowings accounted for at fair value under the fair value option. See Note 7 for further information about hedging activities.

Note 16.

Long-Term Borrowings

The table below presents details about the firm's long-term borrowings.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Other secured financings (long-term)	\$ 12,033	\$ 9,892
Unsecured long-term borrowings	227,354	217,687
Total	\$239,387	\$227,579

See Note 10 for information about other secured financings.

The table below presents details about the firm's unsecured long-term borrowings.

<i>\$ in millions</i>	U.S.		Total
	Dollar	Non-U.S. Dollar	
As of June 2018			
Fixed-rate obligations	\$106,746	\$ 36,194	\$142,940
Floating-rate obligations	50,869	33,545	84,414
Total	\$157,615	\$ 69,739	\$227,354
As of December 2017			
Fixed-rate obligations	\$104,035	\$ 36,975	\$141,010
Floating-rate obligations	44,614	32,063	76,677
Total	\$148,649	\$ 69,038	\$217,687

In the table above:

Unsecured long-term borrowings consists principally of senior borrowings, which have maturities extending through 2067.

Floating-rate obligations includes equity-linked and indexed instruments. Floating interest rates are generally based on LIBOR or Euro Interbank Offered Rate.

U.S. dollar-denominated debt had interest rates ranging from 1.95% to 10.04% (with a weighted average rate of 4.15%) and 1.60% to 10.04% (with a weighted average rate of 4.24%) as of June 2018 and December 2017, respectively. These rates exclude unsecured long-term borrowings accounted for at fair value under the fair value option.

Non-U.S. dollar-denominated debt had interest rates ranging from 0.31% to 13.00% (with a weighted average rate of 2.62%) and 0.31% to 13.00% (with a weighted average rate of 2.60%) as of June 2018 and December 2017, respectively. These rates exclude unsecured long-term borrowings accounted for at fair value under the fair value option.

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

<i>\$ in millions</i>	As of June 2018
2019	\$ 16,119
2020	27,137
2021	23,011
2022	23,297
2023	24,681
2024 - thereafter	113,109
Total	\$227,354

In the table above:

Unsecured long-term borrowings maturing within one year of the financial statement date and unsecured long-term borrowings that are redeemable within one year of the financial statement date at the option of the holder are excluded as they are included in unsecured short-term borrowings.

Unsecured long-term borrowings that are repayable prior to maturity at the option of the firm are reflected at their contractual maturity dates.

Unsecured long-term borrowings that are redeemable prior to maturity at the option of the holder are reflected at the earliest dates such options become exercisable.

Unsecured long-term borrowings included \$4.22 billion of adjustments to the carrying value of certain unsecured long-term borrowings resulting from the application of hedge accounting by year of maturity as follows: \$43 million in 2019, \$114 million in 2020, \$283 million in 2021, \$(85) million in 2022, \$(93) million in 2023, and \$3.96 billion in 2024 and thereafter.

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

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

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Fixed-rate obligations:		
At fair value	\$ 175	\$ 147
At amortized cost	82,270	90,803
Floating-rate obligations:		
At fair value	41,769	38,491
At amortized cost	103,140	88,246
Total	\$227,354	\$217,687

In the table above, the aggregate amounts of unsecured long-term borrowings had weighted average interest rates of 3.06% (3.74% related to fixed-rate obligations and 2.52% related to floating-rate obligations) and 2.86% (3.67% related to fixed-rate obligations and 2.02% related to floating-rate obligations) as of June 2018 and December 2017, respectively. These rates exclude unsecured long-term borrowings accounted for at fair value under the fair value option.

As of both June 2018 and December 2017, the carrying value of unsecured long-term borrowings for which the firm did not elect the fair value option approximated fair value. As these borrowings are not accounted for at fair value under the fair value option or at fair value in accordance with other U.S. GAAP, their fair value is not included in the firm's fair value hierarchy in Notes 6 through 8. Had these borrowings been included in the firm's fair value hierarchy, substantially all would have been classified in level 2 as of both June 2018 and December 2017.

Subordinated Borrowings

Unsecured long-term borrowings includes subordinated debt and junior subordinated debt. Junior subordinated debt is junior in right of payment to other subordinated borrowings, which are junior to senior borrowings. As of June 2018 and December 2017, subordinated debt had maturities ranging from 2021 to 2045 and 2020 to 2045, respectively. Subordinated debt that matures within one year is included in unsecured short-term borrowings.

The table below presents details about the firm's subordinated borrowings.

<i>\$ in millions</i>	Par Amount	Carrying Amount	Rate
As of June 2018			
Subordinated debt	\$14,055	\$15,644	3.93%
Junior subordinated debt	1,140	1,407	2.82%
Total	\$15,195	\$17,051	3.85%
As of December 2017			
Subordinated debt	\$14,117	\$16,235	3.31%
Junior subordinated debt	1,168	1,539	2.37%
Total	\$15,285	\$17,774	3.24%

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

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THE GOLDMAN SACHS GROUP, INC. AND SUBSIDIARIES

Notes to Consolidated Financial Statements**(Unaudited)****Junior Subordinated Debt**

In 2004, Group Inc. issued \$2.84 billion of junior subordinated debt to Goldman Sachs Capital I (Trust), a Delaware statutory trust. The Trust issued \$2.75 billion of guaranteed preferred beneficial interests (Trust Preferred Securities) to third parties and \$85 million of common beneficial interests to Group Inc. and used the proceeds from the issuances to purchase the junior subordinated debt from Group Inc. As of June 2018, the outstanding par amount of junior subordinated debt held by the Trust was \$1.14 billion and the outstanding par amount of Trust Preferred Securities and common beneficial interests issued by the Trust was \$1.11 billion and \$34.1 million, respectively. During the six months ended June 2018, the firm purchased \$27.8 million (par amount) of Trust Preferred Securities and delivered these securities, along with \$1.0 million of common beneficial interests, to the Trust in exchange for a corresponding par amount of the junior subordinated debt. Following the exchanges, these Trust Preferred Securities, common beneficial interests and junior subordinated debt were extinguished. As of December 2017, the outstanding par amount of junior subordinated debt held by the Trust was \$1.17 billion and the outstanding par amount of Trust Preferred Securities and common beneficial interests issued by the Trust was \$1.13 billion and \$35.1 million, respectively. The Trust is a wholly-owned finance subsidiary of the firm for regulatory and legal purposes but is not consolidated for accounting purposes.

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

The firm has covenanted in favor of the holders of Group Inc.'s 6.345% junior subordinated debt due February 15, 2034, that, subject to certain exceptions, the firm will not redeem or purchase the capital securities issued by Goldman Sachs Capital II and Goldman Sachs Capital III (APEX Trusts) or shares of Group Inc.'s Perpetual Non-Cumulative Preferred Stock, Series E (Series E Preferred Stock), Perpetual Non-Cumulative Preferred Stock, Series F (Series F Preferred Stock) or Non-Cumulative Preferred Stock, Series O, if the redemption or purchase results in less than \$253 million aggregate liquidation preference of that series outstanding, prior to specified dates in 2022 for a price that exceeds a maximum amount determined by reference to the net cash proceeds that the firm has received from the sale of qualifying securities.

The APEX Trusts hold Group Inc.'s Series E Preferred Stock and Series F Preferred Stock. These trusts are Delaware statutory trusts sponsored by the firm and wholly-owned finance subsidiaries of the firm for regulatory and legal purposes but are not consolidated for accounting purposes.

Note 17.

Other Liabilities

The table below presents other liabilities by type.

	June	As of December
<i>\$ in millions</i>	2018	2017
Compensation and benefits	\$ 5,745	\$ 6,710
Income tax-related liabilities	2,793	4,051
Noncontrolling interests	1,364	553
Employee interests in consolidated funds	136	156
Subordinated liabilities of consolidated VIEs	15	19
Accrued expenses and other	5,511	5,433
Total	\$15,564	\$16,922

In the table above:

The decrease in income tax-related liabilities during the first half of 2018 reflected a decrease in the net deferred tax liability related to the Tax Legislation repatriation tax, which became current and was netted against current tax receivables. See Note 24 for further information about Tax Legislation.

The increase in noncontrolling interests during the first half of 2018 primarily reflected a noncontrolling interest in a consolidated special purpose acquisition company, which completed its initial public offering during the second quarter of 2018.

Beginning in January 2018, accrued expenses and other includes contract liabilities, which represent consideration received by the firm, in connection with its contracts with clients, prior to providing the service. As of June 2018, the firm's contract liabilities were not material.

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Notes to Consolidated Financial Statements**(Unaudited)****Note 18.****Commitments, Contingencies and Guarantees****Commitments**

The table below presents the firm's commitments by type.

<i>\$ in millions</i>	June 2018	As of December 2017
Commercial lending:		
Investment-grade	\$ 97,520	\$ 93,115
Non-investment-grade	59,371	45,291
Warehouse financing	4,727	5,340
Total lending commitments	161,618	143,746
Contingent and forward starting collateralized agreements	61,456	41,756
Forward starting collateralized financings	22,823	16,902
Letters of credit	406	437
Investment commitments	5,312	6,840
Other	5,658	6,310
Total commitments	\$257,273	\$215,991

The table below presents the firm's commitments by period of expiration.

<i>\$ in millions</i>	Remainder of 2018	As of June 2018		
		2019 - 2020	2021 - 2022	2023 - Thereafter
Commercial lending:				
Investment-grade	\$ 12,210	\$36,771	\$34,320	\$14,219
Non-investment-grade	986	17,075	19,579	21,731
Warehouse financing	181	2,017	1,815	714
Total lending commitments	13,377	55,863	55,714	36,664
Contingent and forward starting collateralized agreements	61,398	50	8	
	22,823			

Forward starting collateralized financings				
Letters of credit	189	174	3	40
Investment commitments	1,235	810	921	2,346
Other	5,355	253	50	
Total commitments	\$104,377	\$57,150	\$56,696	\$39,050
Lending Commitments				

The firm's lending commitments are agreements to lend with fixed termination dates and depend on the satisfaction of all contractual conditions to borrowing. These commitments are presented net of amounts syndicated to third parties. The total commitment amount does not necessarily reflect actual future cash flows because the firm may syndicate all or substantial additional portions of these commitments. In addition, commitments can expire unused or be reduced or cancelled at the counterparty's request.

The table below presents details about the firm's lending commitments.

<i>\$ in millions</i>	As of	
	June 2018	December 2017
Held for investment	\$130,925	\$124,504
Held for sale	18,849	9,838
At fair value	11,844	9,404
Total	\$161,618	\$143,746

In the table above:

Held for investment lending commitments are accounted for on an accrual basis. See Note 9 for further information about such commitments.

Held for sale lending commitments are accounted for at the lower of cost or fair value.

Gains or losses related to lending commitments at fair value, if any, are generally recorded, net of any fees in other principal transactions.

Substantially all lending commitments relates to the firm's Investing & Lending segment.

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Commercial Lending. The firm's commercial lending commitments are extended to investment-grade and non-investment-grade corporate borrowers. Commitments to investment-grade corporate borrowers are principally used for operating liquidity and general corporate purposes. The firm also extends lending commitments in connection with contingent acquisition financing and other types of corporate lending, as well as commercial real estate financing. Commitments that are extended for contingent acquisition financing are often intended to be short-term in nature, as borrowers often seek to replace them with other funding sources.

Sumitomo Mitsui Financial Group, Inc. (SMFG) provides the firm with credit loss protection on certain approved loan commitments (primarily investment-grade commercial lending commitments). The notional amount of such loan commitments was \$22.48 billion and \$25.70 billion as of June 2018 and December 2017, respectively. The credit loss protection on loan commitments provided by SMFG is generally limited to 95% of the first loss the firm realizes on such commitments, up to a maximum of approximately \$950 million. In addition, subject to the satisfaction of certain conditions, upon the firm's request, SMFG will provide protection for 70% of additional losses on such commitments, up to a maximum of \$1.13 billion, of which \$550 million of protection had been provided as of both June 2018 and December 2017. The firm also uses other financial instruments to mitigate credit risks related to certain commitments not covered by SMFG. These instruments primarily include credit default swaps that reference the same or similar underlying instrument or entity, or credit default swaps that reference a market index.

Warehouse Financing. The firm provides financing to clients who warehouse financial assets. These arrangements are secured by the warehoused assets, primarily consisting of retail and corporate loans.

Contingent and Forward Starting Collateralized Agreements / Forward Starting Collateralized Financings

Contingent and forward starting collateralized agreements includes resale and securities borrowing agreements, and forward starting collateralized financings includes repurchase and secured lending agreements that settle at a future date, generally within three business days. The firm also enters into commitments to provide contingent financing to its clients and counterparties through resale agreements. The firm's funding of these commitments depends on the satisfaction of all contractual conditions to the resale agreement and these commitments can expire unused.

Letters of Credit

The firm has commitments under letters of credit issued by various banks which the firm provides to counterparties in lieu of securities or cash to satisfy various collateral and margin deposit requirements.

Investment Commitments

Investment commitments includes commitments to invest in private equity, real estate and other assets directly and through funds that the firm raises and manages. Investment commitments included \$2.09 billion as of both June 2018 and December 2017, related to commitments to invest in funds managed by the firm. If these commitments are called, they would be funded at market value on the date of investment.

Leases

The firm has contractual obligations under long-term noncancelable lease agreements for office space expiring on various dates through 2069. Certain agreements are subject to periodic escalation provisions for increases in real estate taxes and other charges.

The table below presents future minimum rental payments, net of minimum sublease rentals.

<i>\$ in millions</i>	As of June 2018
Remainder of 2018	\$ 149
2019	298
2020	285
2021	227
2022	168
2023	135
2024 - thereafter	1,184
Total	\$2,446

Rent charged to operating expense was \$76 million and \$75 million for the three months ended June 2018 and June 2017, respectively, and \$147 million and \$145 million for the six months ended June 2018 and June 2017, respectively.

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Operating leases include office space held in excess of current requirements. Rent expense relating to space held for growth is included in occupancy expenses. The firm records a liability, based on the fair value of the remaining lease rentals reduced by any potential or existing sublease rentals, for leases where the firm has ceased using the space and management has concluded that the firm will not derive any future economic benefits. Costs to terminate a lease before the end of its term are recognized and measured at fair value on termination. Total occupancy expenses for space held in excess of the firm's current requirements and exit costs related to office space were not material for each of the three and six months ended June 2018 and June 2017.

Contingencies

Legal Proceedings. See Note 27 for information about legal proceedings, including certain mortgage-related matters, and agreements the firm has entered into to toll the statute of limitations.

Certain Mortgage-Related Contingencies. There are multiple areas of focus by regulators, governmental agencies and others within the mortgage market that may impact originators, issuers, servicers and investors. There remains significant uncertainty surrounding the nature and extent of any potential exposure for participants in this market.

The firm has not been a significant originator of residential mortgage loans. The firm did purchase loans originated by others and generally received loan-level representations. During the period 2005 through 2008, the firm sold approximately \$10 billion of loans to government-sponsored enterprises and approximately \$11 billion of loans to other third parties. In addition, the firm transferred \$125 billion of loans to trusts and other mortgage securitization vehicles. In connection with both sales of loans and securitizations, the firm provided loan-level representations and/or assigned the loan-level representations from the party from whom the firm purchased the loans.

The firm's exposure to claims for repurchase of residential mortgage loans based on alleged breaches of representations will depend on a number of factors such as the extent to which these claims are made within the statute of limitations, taking into consideration the agreements to toll the statute of limitations the firm entered into with trustees representing certain trusts. Based upon the large number of defaults in residential mortgages, including those sold or securitized by the firm, there is a potential for repurchase claims. However, the firm is not in a position to make a meaningful estimate of that exposure at this time.

Other Contingencies. In connection with the sale of Metro International Trade Services (Metro), the firm agreed to provide indemnities to the buyer, which primarily relate to fundamental representations and warranties, and potential liabilities for legal or regulatory proceedings arising out of the conduct of Metro's business while the firm owned it.

In connection with the settlement agreement with the Residential Mortgage-Backed Securities Working Group of the U.S. Financial Fraud Enforcement Task Force, the firm agreed to provide \$1.80 billion in consumer relief by January 2021. As of June 2018, approximately \$1.0 billion of such relief was provided. This relief was provided in the form of principal forgiveness for underwater homeowners and distressed borrowers; financing for construction, rehabilitation and preservation of affordable housing; and support for debt restructuring, foreclosure prevention and housing quality

improvement programs, as well as land banks.

Guarantees

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

<i>\$ in millions</i>	Derivatives	Securities lending indemnifications	Other financial guarantees
As of June 2018			
Carrying Value of Net Liability	\$ 6,406	\$	\$ 40
Maximum Payout/Notional Amount by Period of Expiration			
Remainder of 2018	\$1,538,103	\$38,656	\$ 263
2019 - 2020	1,340,290		1,972
2021 - 2022	170,770		1,273
2023 - thereafter	112,758		475
Total	\$3,161,921	\$38,656	\$3,983
As of December 2017			
Carrying Value of Net Liability	\$ 5,406	\$	\$ 37
Maximum Payout/Notional Amount by Period of Expiration			
2018	\$1,139,751	\$37,959	\$ 723
2019 - 2020	205,983		1,515
2021 - 2022	71,599		1,209
2023 - thereafter	76,540		137
Total	\$1,493,873	\$37,959	\$3,584

In the table above:

The maximum payout is based on the notional amount of the contract and does not represent anticipated losses.

Amounts exclude certain commitments to issue standby letters of credit that are included in lending commitments. See the tables in Commitments above for a summary of the firm's commitments.

The carrying value for derivatives included derivative assets of \$1.99 billion and \$2.20 billion and derivative liabilities of \$8.40 billion and \$7.61 billion as of June 2018 and December 2017, respectively.

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

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

Securities Lending Indemnifications. The firm, in its capacity as an agency lender, indemnifies most of its securities lending customers against losses incurred in the event that borrowers do not return securities and the collateral held is insufficient to cover the market value of the securities borrowed. Collateral held by the lenders in connection with securities lending indemnifications was \$39.83 billion and \$39.03 billion as of June 2018 and December 2017, respectively. Because the contractual nature of these arrangements requires the firm to obtain collateral with a market value that exceeds the value of the securities lent to the borrower, there is minimal performance risk associated with these guarantees.

Other Financial Guarantees. In the ordinary course of business, the firm provides other financial guarantees of the obligations of third parties (e.g., standby letters of credit and other guarantees to enable clients to complete transactions and fund-related guarantees). These guarantees represent obligations to make payments to beneficiaries if the guaranteed party fails to fulfill its obligation under a contractual arrangement with that beneficiary.

Guarantees of Securities Issued by Trusts. The firm has established trusts, including Goldman Sachs Capital I, the APEX Trusts and other entities for the limited purpose of issuing securities to third parties, lending the proceeds to the firm and entering into contractual arrangements with the firm and third parties related to this purpose. The firm does not consolidate these entities. See Note 16 for further information about the transactions involving Goldman Sachs Capital I and the APEX Trusts.

The firm effectively provides for the full and unconditional guarantee of the securities issued by these entities. Timely payment by the firm of amounts due to these entities under the guarantee, borrowing, preferred stock and related contractual arrangements will be sufficient to cover payments due on the securities issued by these entities.

Management believes that it is unlikely that any circumstances will occur, such as nonperformance on the part of paying agents or other service providers, that would make it necessary for the firm to make payments related to these

entities other than those required under the terms of the guarantee, borrowing, preferred stock and related contractual arrangements and in connection with certain expenses incurred by these entities.

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

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

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

The firm is unable to develop an estimate of the maximum payout under these guarantees and indemnifications. However, management believes that it is unlikely the firm will have to make any material payments under these arrangements, and no material liabilities related to these guarantees and indemnifications have been recognized in the consolidated statements of financial condition as of both June 2018 and December 2017.

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

In addition, the firm may provide indemnifications to some counterparties to protect them in the event additional taxes are owed or payments are withheld, due either to a change in or an adverse application of certain non-U.S. tax laws.

These indemnifications generally are standard contractual terms and are entered into in the ordinary course of business. Generally, there are no stated or notional amounts included in these indemnifications, and the contingencies triggering the obligation to indemnify are not expected to occur. The firm is unable to develop an estimate of the maximum payout under these guarantees and indemnifications. However, management believes that it is unlikely the firm will have to make any material payments under these arrangements, and no material liabilities related to these arrangements have been recognized in the consolidated statements of financial condition as of both June 2018 and December 2017.

Guarantees of Subsidiaries. Group Inc. fully and unconditionally guarantees the securities issued by GS Finance Corp., a wholly-owned finance subsidiary of the firm. Group Inc. has guaranteed the payment obligations of Goldman Sachs & Co. LLC (GS&Co.) and GS Bank USA, subject to certain exceptions.

In addition, Group Inc. guarantees many of the obligations of its other consolidated subsidiaries on a transaction-by-transaction basis, as negotiated with counterparties. Group Inc. is unable to develop an estimate of the maximum payout under its subsidiary guarantees; however, because these guaranteed obligations are also obligations of consolidated subsidiaries, Group Inc.'s liabilities as guarantor are not separately disclosed.

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Notes to Consolidated Financial Statements**(Unaudited)****Note 19.****Shareholders Equity****Common Equity**

As of both June 2018 and December 2017, the firm had 4.00 billion authorized shares of common stock and 200 million authorized shares of nonvoting common stock, each with a par value of \$0.01 per share.

On July 16, 2018, the Board of Directors of Group Inc. (Board) declared a dividend of \$0.80 per common share to be paid on September 27, 2018 to common shareholders of record on August 30, 2018.

The firm's share repurchase program is intended to help maintain the appropriate level of common equity. The share repurchase program is effected primarily through regular open-market purchases (which may include repurchase plans designed to comply with Rule 10b5-1), the amounts and timing of which are determined primarily by the firm's current and projected capital position, and capital deployment opportunities, but which may also be influenced by general market conditions and the prevailing price and trading volumes of the firm's common stock. Prior to repurchasing common stock, the firm must receive confirmation that the FRB does not object to such capital action.

The table below presents the amount of common stock repurchased by the firm under the share repurchase program.

<i>in millions, except per share amounts</i>	June 2018	
	Three Months Ended	Six Months Ended
Common share repurchases		3.0
Average cost per share	\$	\$264.32
Total cost of common share repurchases	\$	\$ 800

Pursuant to the terms of certain share-based compensation plans, employees may remit shares to the firm or the firm may cancel share-based awards to satisfy minimum statutory employee tax withholding requirements and the exercise price of stock options. Under these plans, during the six months ended June 2018, 1,120 shares were remitted with a total value of \$0.3 million and the firm cancelled 4.2 million share-based awards with a total value of \$1.09 billion.

Preferred Equity

The tables below present details about the perpetual preferred stock issued and outstanding as of June 2018.

Series	Shares Authorized	Shares Issued	Shares Outstanding	Depository Shares Per Share
A	50,000	30,000	29,999	1,000
B	50,000	6,000	6,000	1,000
C	25,000	8,000	8,000	1,000
D	60,000	54,000	53,999	1,000
E	17,500	7,667	7,667	N/A
F	5,000	1,615	1,615	N/A
J	46,000	40,000	40,000	1,000
K	32,200	28,000	28,000	1,000
L	52,000	52,000	52,000	25
M	80,000	80,000	80,000	25
N	31,050	27,000	27,000	1,000
O	26,000	26,000	26,000	25
P	66,000	60,000	60,000	25
Total	540,750	420,282	420,280	

Series	Earliest Redemption Date	Liquidation Preference	Redemption Value (\$ in millions)
A	Currently redeemable	\$ 25,000	\$ 750
B	Currently redeemable	\$ 25,000	150
C	Currently redeemable	\$ 25,000	200
D	Currently redeemable	\$ 25,000	1,350
E	Currently redeemable	\$100,000	767
F	Currently redeemable	\$100,000	161
J	May 10, 2023	\$ 25,000	1,000
K	May 10, 2024	\$ 25,000	700
L	May 10, 2019	\$ 25,000	1,300
M	May 10, 2020	\$ 25,000	2,000
N	May 10, 2021	\$ 25,000	675
O	November 10, 2026	\$ 25,000	650
P	November 10, 2022	\$ 25,000	1,500
Total			\$11,203

In the tables above:

All shares have a par value of \$0.01 per share and, where applicable, each share is represented by the specified number of depository shares.

The earliest redemption date represents the date on which each share of non-cumulative Preferred Stock is redeemable at the firm's option.

Prior to redeeming preferred stock, the firm must receive confirmation that the FRB does not object to such action.

The redemption price per share for Series A through F Preferred Stock is the liquidation preference plus declared and unpaid dividends. The redemption price per share for Series J through P Preferred Stock is the liquidation preference plus accrued and unpaid dividends. Each share of non-cumulative Series E and Series F Preferred Stock issued and outstanding is redeemable at the firm's option, subject to certain covenant restrictions governing the firm's ability to redeem the preferred stock without issuing common stock or other instruments with equity-like characteristics. See Note 16 for information about the replacement capital covenants applicable to the Series E and Series