#### **MORGAN STANLEY & CO. LLC**

# CONSOLIDATED STATEMENT OF FINANCIAL CONDITION AS OF DECEMBER 31, 2017 AND REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

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#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors of Morgan Stanley & Co. LLC

#### **Opinion on the Financial Statement**

We have audited the accompanying consolidated statement of financial condition of Morgan Stanley & Co. LLC and subsidiaries (the "Company") as of December 31, 2017, and the related notes (collectively referred to as the "financial statement"). In our opinion, the financial statement presents fairly, in all material respects, the financial position of the Company as of December 31, 2017, in conformity with accounting principles generally accepted in the United States of America.

#### **Basis for Opinion**

The financial statement is the responsibility of the Company's management. Our responsibility is to express an opinion on this financial statement based on our audit. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statement is free of material misstatement, whether due to error or fraud.

Our audit included performing procedures to assess the risks of material misstatement of the financial statement, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statement. Our audit also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statement. We believe that our audit of the financial statement provides a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP New York, NY February 28, 2018

We have served as the Company's auditor since 1997.

# MORGAN STANLEY & CO. LLC CONSOLIDATED STATEMENT OF FINANCIAL CONDITION

# December 31, 2017 (In millions of dollars)

ASSETS	Φ.	0.004
Cash	\$	2,064
Cash deposited with clearing organizations or segregated under federal and other regulations or requirements		12,246
Financial instruments owned, at fair value (approximately \$58,239 were pledged to various parties; \$248 related to consolidated variable interest entities generally not available		
to the Company)		83,726
Securities received as collateral, at fair value		21,155
Securities purchased under agreements to resell		44,776
Securities borrowed		112,594
Receivables:		
Customers		16,929
Brokers, dealers and clearing organizations		10,590
Interest and dividends		500
Fees and other		296
Affiliates		31
Other assets		374
Total assets	\$	305,281
LIABILITIES AND MEMBER'S EQUITY		
Financial instruments sold, not yet purchased, at fair value	\$	23,899
Obligation to return securities received as collateral, at fair value		22,547
Securities sold under agreements to repurchase (includes \$800 at fair value)		81,124
Securities loaned		17,895
Other secured financings (includes \$334 at fair value; \$210 related to consolidated variable interest entities generally not available to the Company)		4,266
Payables:		
Customers		123,418
Brokers, dealers and clearing organizations		2,852
Interest and dividends		443
Affiliates		1,717
Other liabilities and accrued expenses		3,757
Long-term borrowings (includes \$47 at fair value)		6,731
Total liabilities		288,649
Commitments and contingent liabilities (See Note 9)		
Subordinated liabilities		11,300
Member's equity:		
Morgan Stanley & Co. LLC member's equity		5,900
Accumulated other comprehensive loss		(568)
Total member's equity		5,332
Total liabilities and member's equity	\$	305,281

# MORGAN STANLEY & CO. LLC NOTES TO CONSOLIDATED STATEMENT OF FINANCIAL CONDITION As of December 31, 2017

(In millions of dollars, except where noted)

#### 1. Introduction and Basis of Presentation

#### The Company

MS&Co., together with its subsidiaries (the "Company"), provides a wide variety of products and services to a large and diversified group of clients and customers, including corporations, governments, and financial institutions. Its businesses include securities underwriting and distribution; financial advisory services, including advice on mergers and acquisitions, restructurings, real estate and project finance; sales, trading, financing and market-making activities in equity securities and related products, fixed income securities and related products, and other instruments including foreign exchange and commodities futures; and prime brokerage services. See the "Glossary of Common Acronyms" for definitions of certain acronyms used throughout the notes to the statement of financial condition.

MS&Co. and its wholly owned subsidiary, PDS, are registered with the SEC as broker-dealers. MS&Co. is also registered as a futures commission merchant and provisionally registered as a swap dealer with the CFTC.

MS&Co. is a wholly owned subsidiary of MSDHI. MSDHI is a wholly owned subsidiary of MSCM, which is a wholly owned subsidiary of Morgan Stanley (the "Ultimate Parent").

#### **Basis of Financial Information**

The consolidated statement of financial condition is prepared in accordance with U.S. GAAP, which require the Company to make estimates and assumptions regarding the valuations of certain financial instruments, compensation, deferred tax assets, the outcome of legal and tax matters, and other matters that affect the consolidated statement of financial condition and related disclosures. The Company believes that the estimates utilized in the preparation of its consolidated statement of financial condition are prudent and reasonable. Actual results could differ materially from these estimates.

#### Consolidation

The consolidated statement of financial condition includes the accounts of MS&Co., its wholly owned subsidiary and other entities in which MS&Co. has a controlling financial interest, including certain VIEs (see Note 10).

At December 31, 2017, the Company's consolidated subsidiaries reported \$22,253 of assets, \$22,206 of liabilities and \$47 of equity on a stand-alone basis.

All material intercompany balances and transactions with its subsidiaries have been eliminated in consolidation.

For entities where (1) the total equity investment at risk is sufficient to enable the entity to finance its activities without additional subordinated financial support and (2) the equity holders bear the economic residual risks and returns of the entity and have the power to direct the activities of the entity that most significantly affect its economic performance, MS&Co. consolidates those entities it controls either through a majority voting interest or otherwise. For VIEs (i.e., entities that do not meet these criteria), MS&Co. consolidates those entities where it has the power to make the decisions that most significantly affect the economic performance of the VIE and has the obligation to absorb losses or the right to receive benefits that could potentially be significant to the VIE.

Equity and partnership interests held by entities qualifying for accounting purposes as investment companies are carried at fair value.

#### 2. Significant Accounting Policies

#### **Fair Value of Financial Instruments**

Instruments within Financial instruments owned and Financial instruments sold, not yet purchased, are measured at fair value, either in accordance with accounting guidance or through the fair value option election (discussed below). These financial instruments primarily represent the Company's trading and investment positions and include both cash and derivative products. In addition, Securities received as collateral and Obligation to return securities received as collateral are measured at fair value.

The fair value of OTC financial instruments, including derivative contracts related to financial instruments, is presented in the accompanying consolidated statement of financial condition on a net-by-counterparty basis, when appropriate. Additionally, the Company nets the fair value of cash collateral paid or received against the fair value amounts recognized for net derivative positions executed with the same counterparty under the same master netting agreement.

#### Fair Value Option

The Company has elected to measure certain eligible instruments at fair value, including certain Securities sold under agreements to repurchase ("repurchase agreements"), certain Securities purchased under agreements to resell ("reverse repurchase agreements"), certain other secured financings and long-term borrowings.

#### Fair Value Measurement - Definition and Hierarchy

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (i.e., the "exit price") in an orderly transaction between market participants at the measurement date.

Fair value is a market-based measure considered from the perspective of a market participant rather than an entity-specific measure. Therefore, even when market assumptions are not readily available, assumptions are set to reflect those that the Company believes market participants would use in pricing the asset or liability at the measurement date. Where the Company manages a group of financial assets and financial liabilities on the basis of its net exposure to either market risk or credit risk, the Company measures the fair value of that group of financial instruments consistently with how market participants would price the net risk exposure at the measurement date.

In determining fair value, the Company uses various valuation approaches and establishes a hierarchy for inputs used in measuring fair value that maximizes the use of relevant observable inputs and minimizes the use of unobservable inputs by requiring that the most observable inputs be used when available. Observable inputs are inputs that market participants would use in pricing the asset or liability that were developed based on market data obtained from sources independent of the Company. Unobservable inputs are inputs that reflect assumptions the Company believes other market participants would use in pricing the asset or liability that are developed based on the best information available in the circumstances. The hierarchy is broken down into three levels based on the observability of inputs as follows, with Level 1 being the highest and Level 3 being the lowest.

- Level 1 Valuations based on quoted prices in active markets that the Company has the ability to access for identical assets or liabilities. Valuation adjustments and block discounts are not applied to Level 1 instruments. Since valuations are based on quoted prices that are readily and regularly available in an active market, valuation of these products does not entail a significant degree of judgment.
- Level 2 Valuations based on one or more quoted prices in markets that are not active or for which all significant inputs are observable, either directly or indirectly.
- Level 3 Valuations based on inputs that are unobservable and significant to the overall fair value measurement.

The availability of observable inputs can vary from product to product and is affected by a wide variety of factors, including, for example, the type of product, whether the product is new and not yet established in the marketplace, the liquidity of markets and other characteristics particular to the product. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for instruments categorized in Level 3 of the fair value hierarchy.

The Company considers prices and inputs that are current as of the measurement date, including during periods of market dislocation. In periods of market dislocation, the observability of prices and inputs may be reduced for many instruments. This condition could cause an instrument to be reclassified from Level 1 to Level 2 or from Level 2 to Level 3 of the fair value hierarchy (see Note 4).

In certain cases, the inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the level in the fair value hierarchy within which the fair value measurement falls in its entirety is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

For assets and liabilities that are transferred between levels in the fair value hierarchy during the year, fair values are ascribed as if the assets or liabilities had been transferred as of the beginning of the year.

#### Valuation Techniques

Many cash instruments and OTC derivative contracts have bid and ask prices that can be observed in the marketplace. Bid prices reflect the highest price that a party is willing to pay for an asset. Ask prices represent the lowest price that a party is willing to accept for an asset. The Company carries positions at the point within the bid-ask range that meets its best estimate of fair value. For offsetting positions in the same financial instrument, the same price within the bid-ask spread is used to measure both the long and short positions.

Fair value for many cash instruments and OTC derivative contracts is derived using pricing models. Pricing models take into account the contract terms, as well as multiple inputs, including, where applicable, equity prices, interest rate yield curves, credit curves, correlation, creditworthiness of the counterparty, creditworthiness of the Company, option volatility and currency rates.

Where appropriate, valuation adjustments are made to account for various factors such as liquidity risk (bid-ask adjustments), credit quality, model uncertainty and concentration risk. Adjustments for liquidity risk adjust model-derived mid-market levels of Level 2 and Level 3 financial instruments for the bid-mid or mid-ask spread required to properly reflect the exit price of a risk position. Bid-mid and mid-ask spreads are marked to levels observed in trade activity, broker quotes or other external third-party data. Where these spreads are unobservable for the particular position in question, spreads are derived from observable levels of similar positions.

The Company applies credit-related valuation adjustments to its OTC derivatives. For OTC derivatives, the impact of changes in both the Company's and the counterparty's credit rating is considered when measuring fair value. In determining the expected exposure, the Company simulates the distribution of the future exposure to a counterparty, then applies market-based default probabilities to the future exposure, leveraging external

third-party CDS spread data. Where CDS spread data are unavailable for a specific counterparty, bond market spreads, CDS spread data based on the counterparty's credit rating or CDS spread data that reference a comparable counterparty may be utilized. The Company also considers collateral held and legally enforceable master netting agreements that mitigate its exposure to each counterparty.

Adjustments for model uncertainty are taken for positions whose underlying models are reliant on significant inputs that are neither directly nor indirectly observable, hence requiring reliance on established theoretical concepts in their derivation. These adjustments are derived by making assessments of the possible degree of variability using statistical approaches and market-based information where possible.

See Note 4 for a description of valuation techniques applied to the major categories of financial instruments measured at fair value.

#### Valuation Process

VRG within the FCG of the Ultimate Parent and its consolidated subsidiaries is responsible for the Ultimate Parent and its consolidated subsidiaries' fair value valuation policies, processes and procedures. VRG is independent of the business units and reports to the CFO, who has final authority over the valuation of the Company's financial instruments. VRG implements valuation control processes designed to validate the fair value of the Company's financial instruments measured at fair value, including those derived from pricing models.

Model Review. VRG, in conjunction with MRM, which reports to the CRO, independently reviews valuation models' theoretical soundness, the appropriateness of the valuation methodology and calibration techniques developed by the business units using observable inputs. Where inputs are not observable, VRG reviews the appropriateness of the proposed valuation methodology to determine that it is consistent with how a market participant would arrive at the unobservable input. The valuation methodologies utilized in the absence of observable inputs may include extrapolation techniques and the use of comparable observable inputs. As part of the review, VRG develops a methodology to independently verify the fair value generated by the business unit's valuation models. The Company generally subjects valuations and models to a review process initially and on a periodic basis thereafter.

Independent Price Verification. The business units are responsible for determining the fair value of financial instruments using approved valuation models and valuation methodologies. Generally on a monthly basis, VRG independently validates the fair values of financial instruments determined using valuation models by determining the appropriateness of the inputs used by the business units and by testing compliance with the documented valuation methodologies approved in the model review process described above.

The results of this independent price verification and any adjustments made by VRG to the fair value generated by the business units are presented to management, the CFO and the CRO on a regular basis.

VRG uses recently executed transactions, other observable market data such as exchange data, broker-dealer quotes, thirdparty pricing vendors and aggregation services for validating the fair value of financial instruments generated using valuation models. VRG assesses the external sources and their valuation methodologies to determine if the external providers meet the minimum standards expected of a third-party pricing source. Pricing data provided by approved external sources are evaluated using a number of approaches; for example, by corroborating the external sources' prices to executed trades, by analyzing the methodology and assumptions used by the external source to generate a price, and/or by evaluating how active the third-party pricing source (or originating sources used by the third-party pricing source) is in the market. Based on this analysis, VRG generates a ranking of the observable market data designed to ensure that the highest-ranked market data source is used to validate the business unit's fair value of financial instruments.

VRG reviews the models and valuation methodology used to price new material Level 2 and Level 3 transactions, and both FCG and MRM must approve the fair value of the trade that is initially recognized.

Level 3 Transactions. VRG reviews the business unit's valuation techniques to assess whether these are consistent with market participant assumptions.

For further information on financial assets and liabilities that are measured at fair value on a recurring basis, see Note 4.

#### **Offsetting of Derivative Instruments**

In connection with its derivative activities, the Company generally enters into master netting agreements and collateral agreements with its counterparties. These agreements provide the Company with the right, in the event of a default by the counterparty, to net a counterparty's rights and obligations under the agreement and to liquidate and set off collateral against any net amount owed by the counterparty.

However, in certain circumstances, the Company may not have such an agreement in place; the relevant insolvency regime may not support the enforceability of the master netting agreement or collateral agreement; or the Company may not have sought legal advice to support the enforceability of the agreement. In cases where the Company has not determined an agreement to be enforceable, the related amounts are not offset (see Note 5).

The Company's policy is generally to receive securities and cash posted as collateral (with rights of rehypothecation), irrespective of the enforceability determination regarding the master netting and collateral agreement. In certain cases, the Company may agree for such collateral to be posted to a third-party custodian under a control agreement that enables it to take

control of such collateral in the event of a counterparty default. The enforceability of the master netting agreement is taken into account in the Company's risk management practices and application of counterparty credit limits.

For information related to offsetting of derivatives and certain collateralized transactions, see Notes 5 and 6, respectively.

#### **Income Taxes**

The Company accounts for income taxes using the asset and liability method. Under this method, deferred tax assets and liabilities are recorded based upon the temporary differences between the financial statement and income tax bases of assets and liabilities using currently enacted tax rates in effect for the year in which the differences are expected to reverse.

The Company recognizes net deferred tax assets to the extent that it believes these assets are more likely than not to be realized. In making such a determination, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax planning strategies, and results of recent operations. When performing the assessment the Company considers all types of deferred tax assets in combination with each other, regardless of the origin of the underlying temporary difference. If a deferred tax asset is determined to be unrealizable, a valuation allowance is established. If the Company subsequently determines that it would be able to realize deferred tax assets in excess of their net recorded amount, it would make an adjustment to the deferred tax asset valuation allowance, which would reduce the provision for income taxes.

In accordance with the terms of the Tax Sharing Agreement with the Ultimate Parent, substantially all current and deferred taxes (federal, combined and unitary state) are settled periodically with the Ultimate Parent.

Uncertain tax positions are recorded on the basis of a two-step process whereby (1) the Company determines whether it is more likely than not that the tax positions will be sustained on the basis of the technical merits of the position and (2) for those tax positions that meet the more-likely-than-not recognition threshold, the Company recognizes the largest amount of tax benefit that is more than 50% likely to be realized upon ultimate settlement with the related tax authority.

#### Cash

Cash represents funds deposited with financial institutions.

# Cash Deposited with Clearing Organizations or Segregated Under Federal and Other Regulations or Requirements

Cash deposited with clearing organizations or segregated under federal and other regulations or requirements ("restricted cash") include cash segregated in compliance with federal and other regulations, and funds deposited by customers.

#### **Collateralized Financings**

Securities borrowed, reverse repurchase agreements, securities loaned and repurchase agreements are treated as collateralized financings. Reverse repurchase agreements and repurchase agreements are carried on the consolidated statement of financial condition at the amounts of cash paid or received, plus accrued interest, except for certain repurchase agreements for which the Company has elected the fair value option (see Note 4). Where appropriate, transactions with the same counterparty are reported on a net basis. Securities borrowed and Securities loaned are recorded at the amount of cash collateral advanced or received.

#### **Securitization Activities**

The Company engages in securitization activities related to U.S. agency collateralized mortgage obligations and other types of financial assets (see Note 10). Such transfers of financial assets are generally accounted for as sales when the Company has relinquished control over the transferred assets and does not consolidate the transferee. The gain or loss on sale of such financial assets depends, in part, on the previous carrying amount of the assets involved in the transfer (generally at fair value) and the sum of the proceeds and the fair value of the retained interests at the date of sale. Transfers that are not accounted for as sales are treated as Other secured financings ("failed sales").

#### Receivables and Payables - Customers

Receivables from and payables to customers include amounts due on cash and margin transactions. Securities owned by customers, including those that collateralize margin or similar transactions, are not reflected on the consolidated statement of financial condition.

# Receivables and Payables – Brokers, Dealers and Clearing Organizations

Receivables from brokers, dealers and clearing organizations include amounts receivable for securities failed to deliver by the Company to a purchaser by the settlement date, margin deposits, and commissions. Payables to brokers, dealers and clearing organizations include amounts payable for securities failed to receive by the Company from a seller by the settlement date and payables to clearing organizations. Receivables and payables arising from unsettled trades are reported on a net basis.

#### **Customer Transactions**

Customers' securities transactions are recorded on a settlement date basis.

#### 3. Related Party Transactions

The Company enters into transactions with the Ultimate Parent and its consolidated affiliates in order to manage risk, facilitate client demand and fund its business activities. These transactions include the use of OTC derivatives and collateralized financings, as described in Notes 5 and 6, respectively.

The Company also obtains long-term funding from affiliates and subordinated liabilities from the Ultimate Parent as described in Notes 7 and 8, respectively.

Receivables from and payables to affiliates consist of affiliate transactions that occur in the normal course of business. Payables to affiliates are unsecured, bear interest at rates established by the treasury function of the Ultimate Parent and are intended to approximate the market rate of interest that the Ultimate Parent incurs in funding its business as it is periodically reassessed and are payable on demand.

The Company clears securities and futures transactions for affiliates with standard settlement terms. Pending settlement balances are recorded within Receivables from or Payables to customers, and Receivables from or Payables to brokers, dealers and clearing organizations.

The Company has various agreements with MSSB, who charges the Company for providing sales and distribution services for MS&Co's equities and fixed income trading activities.

Effective January 1, 2017, the Ultimate Parent and its consolidated subsidiaries updated their Global Transfer Pricing Policy. This change in transfer policy is consistent with evolving transfer pricing guidance under OECD's and evolving regulatory guidance. The transfer pricing method selected for implementation is one of the methods specified under the 2017 OECD Transfer Pricing Guidelines for Multinational Enterprises and Tax Administrations. This new policy is the subject of a multilateral Advanced Pricing Agreement that is currently under review by relevant tax authorities.

On March 1, 2017 the Company expanded upon a service level agreement that it signed with an affiliated service entity, MSSG, to receive additional support services as part of the final phase to reorganize support services for recovery and resolution planning purposes. The service level agreement includes support services associated with multiple divisions including Technology, Operations, Finance, Legal and Compliance, Risk Management, Human Resources, Internal Audit and Administration. A subset of regulatory services which exclusively support the Company and are essential in maintaining compliance with applicable regulatory rules will continue to be performed by employees of the Company. In connection with this agreement, the Company effected a series of steps to transfer related assets and liabilities to MSSG at their

then carrying values, as well as support service personnel. The steps included a dividend of \$140 of assets by the Company to MSDHI, which, after taking into account the derecognition of \$58 of related net deferred tax assets, resulted in a reduction in member's equity by \$198.

MSSG also provides other services to the Company, primarily information processing, communications and occupancy and equipment.

## Assets and receivables from affiliated companies at December 31, 2017 are comprised of:

Cash	\$ 375
Financial instruments owned, at fair value	232
Securities purchased under agreements to resell	22,066
Securities borrowed	22,234
Receivables - Customers	1,441
Receivables - Brokers, dealers and clearing	
organizations	2,761
Receivables - Fees and other	68
Receivables - Affiliates	31

### Liabilities and payables to affiliated companies at December 31, 2017 are comprised of:

Financial instruments sold, not yet purchased, at fair value	\$ 90
Securities sold under agreements to repurchase	60,152
Securities loaned	15,471
Other secured financings	124
Payables - Customers	32,768
Payables - Brokers, dealers and clearing organizations	1,261
Payables - Affiliates	1,717
Other liabilities and accrued expenses	1,093
Long-term borrowings	6,660
Subordinated liabilities	11,300

#### 4. Fair Values

#### **Fair Value Measurements**

Asset and Liability / Valuation Technique	Valuation Hierarchy Classification
Trading Assets and Trading Liabilities	
U.S. Treasury Securities Fair value is determined using quoted market prices.	Generally Level 1
<ul> <li>U.S. Agency Securities</li> <li>Non-callable agency-issued debt securities are generally valued using quoted market prices, and callable agency-issued debt securities are valued by benchmarking model-derived prices to quoted market prices and trade data for comparable instruments.</li> <li>The fair value of agency mortgage pass-through pool securities is model-driven based on spreads of a comparable to-be-announced security.</li> <li>CMOs are generally valued using quoted market prices and trade data adjusted by subsequent changes in related indices for comparable instruments.</li> <li>Other Sovereign Government Obligations</li> <li>Fair value is determined using quoted prices in active markets when available.</li> </ul>	Level 1 - non-callable agency-issued debt securities     Generally Level 2 - callable agency-issued debt securities, agency mortgage pass-through pool securities and CMOs     Level 3 - in instances where the inputs are unobservable     Generally Level 1     Level 2 - if the market is less active or prices are dispersed     Level 3 - in instances where the inputs are unobservable
State and Municipal Securities  • Fair value is determined using recently executed transactions, market price quotations or pricing models that factor in, where applicable, interest rates, bond or CDS spreads and volatility and/or volatility skew, adjusted for any basis difference between cash and derivative instruments.	Generally Level 2 - if value based on observable market data for comparable instruments
<ul> <li>MABS may be valued based on price or spread data obtained from observed transactions or independent external parties such as vendors or brokers.</li> <li>When position-specific external price data are not observable, the fair value determination may require benchmarking to comparable instruments, and/or analyzing expected credit losses, default and recovery rates, and/or applying discounted cash flow techniques. When evaluating the comparable instruments for use in the valuation of each security, security collateral-specific attributes, including payment priority, credit enhancement levels, type of collateral, delinquency rates and loss severity, are considered. In addition, for RMBS borrowers, FICO scores and the level of documentation for the loan are considered.</li> <li>Market standard models, such as Intex, Trepp or others, may be deployed to model the specific collateral composition and cash flow structure of each transaction. Key inputs to these models are market spreads, forecasted credit losses, and default and prepayment rates for each asset category.</li> <li>Valuation levels of RMBS and CMBS indices are used as an additional data point for benchmarking purposes or to price outright index positions.</li> </ul>	Generally Level 2 - if value based on observable market data for comparable instruments     Level 3—if external prices or significant spread inputs are unobservable or if the comparability assessment involves significant subjectivity related to property type differences, cash flows, performance and other inputs
<ul> <li>Corporate Bonds</li> <li>Fair value is determined using recently executed transactions, market price quotations, bond spreads, CDS spreads, or at the money volatility and/or volatility skew obtained from independent external parties, such as vendors and brokers, adjusted for any basis difference between cash and derivative instruments.</li> <li>The spread data used are for the same maturity as the bond. If the spread data do not reference the issuer, then data that reference a comparable issuer are used. When position-specific external price data are not observable, fair value is determined based on either benchmarking to comparable instruments or cash flow models with yield curves, bond or single name CDS spreads and recovery rates as significant inputs.</li> </ul>	
<ul> <li>CDO</li> <li>The Company holds cash CDOs that typically reference a tranche of an underlying synthetic portfolio of single name CDS spreads collateralized by corporate bonds (CLN) or cash portfolio of ABS/loans ("asset-backed CDOs").</li> <li>Credit correlation, a primary input used to determine the fair value of CLNs, is usually unobservable and derived using a benchmarking technique. Other model inputs such as credit spreads, including collateral spreads, and interest rates are typically observable.</li> <li>Asset-backed CDOs are valued based on an evaluation of the market and model input parameters sourced from comparable instruments as indicated by market activity. Each asset-backed CDO position is evaluated independently taking into consideration available comparable market levels, underlying collateral performance and pricing, deal structures and liquidity.</li> </ul>	

Asset and Liability / Valuation Technique	Valuation Hierarchy Classification
<ul> <li>Mortgage Loans</li> <li>Mortgage loans are valued using observable prices based on transactional data or third-party pricing for identical or comparable instruments, when available.</li> <li>Where position-specific external prices are not observable, fair value is estimated based on benchmarking to prices and rates observed in the primary market for similar loan or borrower types or based on the present value of expected future cash flows using its best estimates of the key assumptions, including forecasted credit losses, prepayment rates, forward yield curves and discount rates commensurate with the risks involved or a methodology that utilizes the capital structure and credit spreads of recent comparable securitization transactions.</li> </ul>	Level 2—if value based on observable market data for comparable instruments     Level 3—in instances where prices or significant spread inputs are unobservable
<ul> <li>Corporate Equities</li> <li>Exchange-traded equity securities are generally valued based on quoted prices from the exchange. To the extent these securities are actively traded, valuation adjustments are not applied.</li> <li>Unlisted equity securities are generally valued based on an assessment of each underlying security, considering rounds of financing and third-party transactions, discounted cash flow analyses and market-based information, including comparable Company transactions, trading multiples and changes in market outlook, among other factors.</li> </ul>	Level 1—exchange-traded securities and fund units if actively traded     Level 2—exchange-traded securities if not actively traded or if undergoing a recent mergers and acquisitions event or corporate action     Level 3—unlisted equity securities and exchange-traded securities if not actively traded or if marked to an aged mergers and acquisitions event or corporate action
Listed Derivative Contracts  Listed derivatives that are actively traded are valued based on quoted prices from the exchange.  Listed derivatives that are not actively traded are valued using the same approaches as those applied to OTC derivatives.	<ul> <li>Level 1 – if actively traded</li> <li>Level 2 – if not actively traded</li> </ul>
<ul> <li>OTC Derivative Contracts</li> <li>OTC derivative contracts include forward, swap and option contracts related to interest rates, foreign currencies, credit standing of reference entities, or equity prices.</li> <li>Depending on the product and the terms of the transaction, the fair value of OTC derivative products can be modeled using a series of techniques, including closed-form analytic formulas, such as the Black-Scholes option-pricing model, simulation models or a combination thereof. Many pricing models do not entail material subjectivity as the methodologies employed do not necessitate significant judgment, since model inputs may be observed from actively quoted markets, as is the case for generic interest rate swaps, many equity, commodity and foreign currency option contracts, and certain CDS. In the case of more established derivative products, the pricing models used by the Company are widely accepted by the financial services industry.</li> <li>For further information on the valuation techniques for OTC derivative products, see Note 2.</li> <li>For further information on derivative instruments and hedging activities, see Note 5.</li> </ul>	Generally Level 2—OTC derivative products valued using observable inputs, or where the unobservable input is not deemed significant.     Level 3—OTC derivative products for which the unobservable input is deemed significant
Reverse Repurchase Agreements and Repurchase Agreements  • The fair value of a reverse repurchase agreement or repurchase agreement is computed using a standard cash flow discounting methodology. The inputs to the valuation include contractual cash flows and collateral funding spreads, which are estimated using various benchmarks, interest rate yield curves and option volatilities	Generally Level 2     Level 3—if not unobservable inputs are deemed significant
Long-term borrowings     Long-term borrowings and Other secured financings include hybrid financial instruments with embedded derivatives. See the Derivative Contracts section above for a description of the valuation technique applied to the Company's Long-term borrowings and Other secured financings.	Generally Level 2     Level 3 - in instances where the unobservable inputs are deemed significant

#### Assets and Liabilities Measured at Fair Value on a Recurring Basis

	Level 1	Level 2	Level 3	Netting (2)	At De	cember 31, 2017
Assets at Fair Value						
Financial instruments owned:						
U.S. government and agency securities:						
U.S. Treasury securities	\$ 12,332	\$ -	\$ -	\$ -	\$	12,332
U.S. agency securities	1,797	26,764	-	-		28,561
Total U.S. government and agency						
securities	14,129	26,764	-	-		40,893
Other sovereign government obligations	1,793	471	-	-		2,264
Corporate and other debt:						
State and municipal securities	-	3,284	8	-		3,292
MABS	-	1,840	212	-		2,052
Corporate bonds	-	6,630	211	-		6,841
CDOs	-	223	71	-		294
Mortgage loans (1)	-	-	248	-		248
Other debt	-	178	51	-		229
Total corporate and other debt	-	12,155	801	-		12,956
Corporate equities <sup>(2)</sup>	25,874	275	90	-		26,239
Derivative contracts:						
Interest rate contracts	242	1,777	-	-		2,019
Credit contracts	-	294	-	-		294
Foreign exchange contracts	12	8,180	-	-		8,192
Equity contracts	739	11,032	72	-		11,843
Netting <sup>(3)</sup>	(817)	(19,434)	(65)	(665)		(20,981)
Total derivative contracts	176	1,849	7	(665)		1,367
Investments:						
Principal investments	-	-	7	-		7
Total investments		-	7	-		7
Total financial instruments owned <sup>(4)</sup>	\$ 41,972	\$ 41,514	\$ 905	\$ (665)	\$	83,726
Securities received as collateral	\$ 21,139	\$ 14	\$ 2	\$ -	\$	21,155

	Level 1		Level 2 Lev		vel 3 Nettir		tting <sup>(2)</sup>	At Dec	ember 31, 2017
Liabilities at Fair Value									
Financial instruments sold, not yet purchased:									
U.S. government and agency securities:									
U.S. Treasury securities	\$	13,403	\$ -	\$	-	\$	-	\$	13,403
U.S. agency securities		187	24		-		-		211
Total U.S. government and agency									
securities		13,590	24		-		-		13,614
Other sovereign government obligations		59	183		-		-		242
Corporate and other debt		-	4,400		2		-		4,402
Corporate equities <sup>(2)</sup>		4,535	1		-		-		4,536
Derivative contracts:									
Interest rate contracts		221	2,275		-		-		2,496
Credit contracts		-	240		-		-		240
Foreign exchange contracts		7	8,376		-		-		8,383
Equity contracts		597	11,055		809		-		12,461
Netting <sup>(3)</sup>		(817)	(19,434)		(65)		(2,159)		(22,475)
Total derivative contracts		8	2,512		744		(2,159)		1,105
Total financial instruments sold, not yet									
purchased <sup>(4)</sup>	\$	18,192	\$ 7,120	\$	746	\$	(2,159)	\$	23,899
Obligation to return securities received as									
collateral	\$	22,531	\$ 14	\$	2	\$	-	\$	22,547
Securities sold under agreements to									
repurchase		-	650		150		-		800
Other secured financings		-	334		-		-		334
Long-term borrowings		-	47		-		-		47

The Company holds Mortgage loans as a part of its involvement with VIEs. For further information, see Note 10.

For trading purposes, the Company holds or sells short equity securities issued by entities in diverse industries and of varying size.

<sup>(3)</sup> For positions with the same counterparty that cross over the levels of the fair value hierarchy, both counterparty netting and cash collateral netting are included in the column titled "Netting." For contracts with the same counterparty, counterparty netting among positions classified within the same level is included within that shared level. For further information on derivative instruments, see Note 5.

<sup>(4)</sup> Amounts exclude the unsettled fair value on long futures contracts of \$166 included in Receivables - Brokers, dealers and clearing organizations in the consolidated statement of financial condition. These contracts are primarily classified as Level 1 in the fair value hierarchy, actively traded, and valued based on quoted prices from the exchange.

#### **Transfers Between Fair Value Hierarchy Levels**

Financial instruments owned-Corporate equities. During 2017, the Company reclassified approximately \$25 of Corporate equities from Level 1 to Level 2 as transactions in these securities did not occur with sufficient frequency and volume to constitute an active market.

Financial instruments owned—Derivative contracts and Financial instruments sold, not yet purchased—Derivative contracts. During 2017, the Company reclassified approximately \$122 of derivative assets and approximately \$155 of derivative liabilities from Level 1 to Level 2 as transactions in these contracts did not occur with sufficient frequency and volume to constitute an active market.

During 2017, the Company reclassified approximately \$144 of derivative assets and approximately \$210 of derivative liabilities from Level 2 to Level 1 as these listed derivatives became actively traded and were valued based on quoted prices from exchanges.

Financial instruments owned-U.S. agency securities. During 2017, the Company reclassified approximately \$167 of certain U.S. Government and agency securities, primarily agency CMBS, from Level 2 to Level 3. The Company reclassified these instruments as external prices and/or spread inputs for these instruments became less observable.

Financial instruments owned-Corporate and other debt. During 2017, the Company reclassified approximately \$242 of certain Corporate and other debt, primarily municipal bonds, from Level 3 to Level 2. The Company reclassified these instruments as external benchmarks became observable and price transparency increased.

During 2017, the Company reclassified approximately \$143 of certain Corporate and other debt, primarily CMBS and municipal debt, from Level 2 to Level 3. The Company reclassified these instruments as external prices and/or spread inputs and benchmarks for these instruments became less observable.

Financial instruments owned-Corporate equities. During 2017, the Company reclassified approximately \$22 of certain Corporate equities from Level 1 to Level 3. The Company reclassified these Corporate equities as external prices and/or spread inputs for these instruments became unobservable and certain benchmarks were deemed to be out of date.

During 2017, the Company reclassified approximately \$57 of certain Corporate equities, particularly mutual funds on municipal auction rate securities, from Level 2 to Level 3. The Company reclassified these securities as external benchmarks were deemed to be unobservable.

# Significant Unobservable Inputs Used in Recurring and Nonrecurring Level 3 Fair Value Measurements

The following disclosures provide information on the valuation techniques, significant unobservable inputs, and their ranges and averages for each major category of assets and liabilities measured at fair value on a recurring and nonrecurring basis with a significant Level 3 balance. The level of aggregation and breadth of products cause the range of inputs to be wide and not evenly distributed across the inventory. Further, the range of unobservable inputs may differ across firms in the financial services industry because of diversity in the types of products included in each firm's inventory. There are no predictable relationships between multiple significant unobservable inputs attributable to a given valuation technique. A single amount is disclosed when there is no significant difference between the minimum, maximum and average (weighted average or simple average/median).

	Predominant Valuation Techniques/ Significant Unobservable Inputs	Range (Weighted Averages)	
Assets at Fair Value Financial instruments owned: Corporate and other debt:			
MABS	\$212	Comparable pricing Comparable bond price	0 to 95 points (41 points)
Corporate bonds	211	Comparable pricing Comparable bond price	2 to 104 points (86 points)
		Discounted cash flow Recovery rate	6 to 36% (27%)
CDOs	71	Comparable pricing Comparable bond price	12 to 101 points (64 points)
Mortgage loans	248	Comparable pricing Comparable loan price	73 to 102 points (94 points)
Other debt	51	Option model At the money volatility	17 to 52% (50%)
Corporate equities	90	Comparable pricing Comparable equity price	100%
Net derivative contracts:			
Equity contracts	(737)	Option model  At the money volatility  Option model	15 to 54% (38%) -1 to 0%
Liabilities at Fair Value Securities sold under		Volatility skew	(-1%)
agreements to repurchase	\$150	Discounted cash flow Funding spread	107 to 126 bps (120 bps)

bps- Basis points. A basis point equals  $1/100^{\rm th}$  of 1%. Points- Percentage of par

The following provides a description of significant unobservable inputs included in the table above for all major categories of assets and liabilities:

Significant Unobservable Inputs - Description	Sensitivity
Comparable bond or loan price - A pricing input used when prices for the identical instrument are not available. Significant subjectivity may be involved when fair value is determined using pricing data available for comparable instruments. Valuation using comparable instruments can be done by calculating an implied yield (or spread over a liquid benchmark) from the price of a comparable bond or loan, then adjusting that yield (or spread) to derive a value for the bond or loan. The adjustment to yield (or spread) should account for relevant differences in the bonds or loans such as maturity or credit quality.	In general, an increase (decrease) to the comparable bond or loan price for an asset would result in a higher (lower) fair value.
Alternatively, a price-to-price basis can be assumed between the comparable instrument and the bond or loan being valued in order to establish the value of the bond or loan. Additionally, as the probability of default increases for a given bond or loan (i.e., as the bond or loan becomes more distressed), the valuation of that bond or loan will increasingly reflect its expected recovery level assuming default. The decision to use price-to-price or yield/spread comparisons largely reflects trading market convention for the financial instruments in question. Price-to-price comparisons are primarily employed for MABS, Other debt, interest rate contracts, foreign exchange contracts, Other secured financings and distressed corporate bonds. Implied yield (or spread over a liquid benchmark) is utilized predominately for non-distressed corporate bonds.	
Comparable equity price- A price derived from equity raises, share buybacks and external bid levels, etc.  A discount or premium may be included in the fair value estimate.	In general, an increase (decrease) to the comparable equity price of an asset would result in a higher (lower) fair value.
Funding spread— The difference between the general collateral rate (which refers to the rate applicable to a broad class of U.S. Treasury issuances) and the specific collateral rate (which refers to the rate applicable to a specific type of security pledged as collateral, such as a municipal bond). Repurchase agreements are discounted based on collateral curves. The curves are constructed as spreads over the corresponding OIS or LIBOR curves, with the short end of the curve representing spreads over the corresponding OIS curves and the long end of the curve representing spreads over LIBOR.	In general, an increase (decrease) to the funding spread of an asset would result in a lower (higher) fair value.
Recovery Rate— Amount expressed as a percentage of par that is expected to be received when a credit event occurs.	In general, an increase (decrease) to the recovery rate for an asset would result in a higher (lower) fair value.

Significant Unobservable Inputs - Description	Sensitivity
Volatility— The measure of the variability in possible returns for an instrument given how much that instrument changes in value over time. Volatility is a pricing input for options and, generally, the lower the volatility, the less risky the option. The level of volatility used in the valuation of a particular option depends on a number of factors, including the nature of the risk underlying that option (e.g., the volatility of a particular underlying equity security may be significantly different from another), the tenor and the strike price of the option.	In general, an increase (decrease) to the volatility would result in an impact to the fair value, but the magnitude and direction of the impact would depend on whether the Company is long or short the exposure.
Volatility skew— The measure of the difference in implied volatility for options with identical underliers and expiry dates but with different strikes. The implied volatility for an option with a strike price that is above or below the current price of an underlying asset will typically deviate from the implied volatility for an option with a strike price equal to the current price of that same underlying asset.	In general, an increase (decrease) to the volatility skew would result in an impact to the fair value, but the magnitude and direction of the impact would depend on whether the Company is long or short the exposure.

#### Valuation Techniques for Assets and Liabilities Not Measured at Fair Value

Repurchase agreements, reverse repurchase agreements, Securities borrowed, securities loaned, and Other secured financings

- Typically longer dated instruments for which the fair value is determined using standard cash flow discounting methodology.
- The inputs to the valuation include contractual cash flows and collateral funding spreads, which are estimated using various benchmarks and interest rate yield curves.

Long term borrowings and Subordinated liabilities

• The fair value is generally determined based on transactional data or third-party pricing for identical or comparable instruments, when available. Where position-specific external prices are not observable, fair value is determined based on current interest rates and credit spreads for debt instruments with similar terms and maturity.

The carrying values of the remaining assets and liabilities not measured at fair value in the following tables approximate fair value due to their short-term nature.

#### **Financial Instruments Not Measured at Fair Value**

	At Decembe	r 31, 2017	Fair Value by Level					
	0 ' 1/ 1	Fair	 				L1.0	
	Carrying Value	Value	Level 1		Level 2		Level 3	
Financial Assets						_		
	\$ 2,064	\$ 2,064	\$ 2,064	\$	-	\$		
Cash deposited with clearing organizations or segregated under federal and other								
regulations or requirements	12,246	12,246	12,246		-		-	
Securities purchased under agreements								
to resell	44,776	44,719	-		44,626		93	
Securities borrowed	112,594	112,594	-		112,594		-	
Receivables: (1)								
Customers	16,929	16,929	-		16,929		-	
Brokers, dealers and clearing organizations	10,590	10,590	-		10,590		-	
Fees and other	296	296	-		296		-	
Affiliates	31	31	-		31		-	
Other assets <sup>(2)</sup>	133	133	-		133		-	
Financial Liabilities								
Securities sold under agreements to repurchase	\$ 80,324	\$ 80,319	\$ -	\$	79,747	\$	572	
Securities loaned	17,895	17,896	-		17,896		-	
Other secured financings	3,932	3,938	-		3,614		324	
Payables: <sup>(1)</sup>								
Customers	123,418	123,418	-		123,418		-	
Brokers, dealers and clearing organizations	2,852	2,852	-		2,852		-	
Affiliates	1,717	1,717	-		1,717			
Other liabilities and accrued expenses (2)	895	895	-		895		-	
Long-term borrowings	6,684	6,798	-		6,774		24	
Subordinated liabilities	11,300	12,639	-		12,639		-	

<sup>(1)</sup> Accrued interest and dividend receivables and payables where carrying value approximates fair value have been excluded.

Other assets and Other liabilities and accrued expenses exclude certain items that do not meet the definition of a financial instrument. Other liabilities and accrued expenses also excludes certain financial instruments that are not in scope.

#### **5. Derivative Instruments**

The Company may trade and make markets globally in listed futures, OTC swaps, forwards, options and other derivatives referencing, among other things, interest rates, equities, currencies, bonds, credit indices, and MABS. The Company uses these instruments for market-making, foreign currency exposure management and asset and liability management. The Company does not apply hedge accounting.

The Company manages its market-making positions by employing a variety of risk mitigation strategies. These strategies include diversification of risk exposures and hedging.

Hedging activities consist of the purchase or sale of positions in related securities and financial instruments, including a variety of derivative products (*e.g.*, futures, forwards, swaps and options). The Company manages the market risk associated with its market-making activities on a Company-wide basis, on a worldwide trading division level and on an individual product basis.

#### **Derivative Assets and Liabilities**

### Derivatives Assets At December 31, 2017

					At Deceil	1001 31, 2017				
		Fai	r Val	ue		Notional				
	Bilateral	Cleared	E	xchange-	T	Bilateral	Cleared	Exchange-	T	
-	OTC	OTC		Traded	Total	OTC	OTC	Traded	Total	
Derivatives contracts										
Interest rate contracts	\$ 1,871	\$ 14	4 \$	4 \$	2,019 \$	149,360 \$	87,329	\$ 44,465 \$	281,154	
Credit contracts	294		-	-	294	2,839	-	-	2,839	
Foreign exchange contracts	8,180		-	12	8,192	392,354	-	2,839	395,193	
Equity contracts	5,115		-	6,728	11,843	126,003	-	213,855	339,858	
Total gross derivatives										
contracts	15,460	14	4	6,744	22,348	670,556	87,329	261,159	1,019,044	
Amounts offset										
Cash collateral netting	(638)	) (2	7)	-	(665)					
Counterparty netting	(13,682)	) (4	9)	(6,585)	(20,316)					
Total derivative assets	1,140	6	8	159	1,367					
Amounts not offset (1)										
Financial instruments collateral	(845)	)	-	-	(845)					
Other cash collateral	-		-	-	-					
Net amounts (2)	\$ 295	\$ 6	8 \$	159 \$	522					

#### **Derivative Liabilities**

					At Decemi	ber 31, 2017				
		Fair	Value			Notional				
	 Bilateral OTC	Cleared OTC	Exchange- Traded		Total	Bilateral OTC	Cleared OTC	Exchange- Traded	Total	
Derivatives contracts										
Interest rate contracts	\$ 2,356	\$ 140	\$ -	\$	2,496 \$	122,584 \$	82,588	\$ 35,623 \$	240,795	
Credit contracts	240	-	-		240	2,294	-	-	2,294	
Foreign exchange contracts	8,376	-	7		8,383	388,269	-	2,434	390,703	
Equity contracts	5,856	-	6,605		12,461	122,876	-	243,240	366,116	
Other (3)	-	-	-		-	523	-	-	523	
Total gross derivatives										
contracts	16,828	140	6,612		23,580	636,546	82,588	281,297	1,000,431	
Amounts offset										
Cash collateral netting	(2,159)	-	-		(2,159)					
Counterparty netting	(13,682)	(49)	(6,585)	)	(20,316)					
Total derivative liabilities	987	91	27		1,105					
Amounts not offset (1)										
Financial instruments collateral	(20)	-	-		(20)					
Other cash collateral	(5)	-	-		(5)					
Net amounts (2)	\$ 962	\$ 91	\$ 27	\$	1,080					

<sup>(1)</sup> Amounts relate to master netting agreements and collateral agreements that have been determined by the Company to be legally enforceable in the event of default but where certain other criteria are not met in accordance with applicable offsetting accounting guidance.

For information related to offsetting of certain collateralized transactions, see Note 6.

<sup>(2)</sup> Net amounts include transactions that are either not subject to master netting agreements or collateral agreements or are subject to such agreements but the Company has not determined the agreements to be legally enforceable.

Other represents liquidity arrangements which are accounted for as options as they guarantee debt issued by affiliates.

#### Credit Risk-Related Contingencies

In connection with certain OTC trading agreements, the Company may be required to provide additional collateral or immediately settle any outstanding liability balances with certain counterparties in the event of a credit rating downgrade.

The following table presents the aggregate fair value of certain derivative contracts that contain credit risk-related contingent features that are in a net liability position for which the Company has posted collateral in the normal course of business.

#### **Net Derivative Liabilities and Collateral Posted**

#### At December 31, 2017

Net derivative liabilities with credit ris	k-	
related contingent features	\$	734
Collateral posted		226

The additional collateral or termination payments that may be called in the event of a future credit rating downgrade vary by contract and can be based on ratings by either or both of Moody's Investors Service, Inc. and Standard & Poor's Global Ratings. The following table shows the future potential collateral amounts and termination payments that could be called or required by counterparties or exchange and clearing organizations in the event of one-notch or two-notch downgrade scenarios based on the relevant contractual downgrade triggers of the Company.

	At Decem	ber 31, 2017 <sup>(1)</sup>
Incremental collateral or termination payments upon potential future rating downgrade		
One-notch downgrade	\$	1
Two-notch downgrade		-

Amounts represent arrangements between the Company and other parties where upon the downgrade of one party, the downgraded party must deliver collateral to the other party. These bilateral downgrade arrangements are used by the Company to manage the risk of counterparty downgrades.

#### Credit Derivatives and Other Credit Contracts

The Company enters into credit derivatives, principally through CDSs, under which it receives or provides protection against the risk of default on a set of debt obligations issued by a specified reference entity or entities. A majority of the Company's counterparties for these derivatives are banks, broker-dealers, and other financial institutions.

*Index and Basket CDSs.* Index and basket CDSs are products where credit protection is provided on a portfolio of single name credit default swaps. Generally, in the event of a default on one of the underlying names, the Company pays a pro rata portion of the total notional amount of the CDS.

The Company also enters into tranched index and basket CDSs where credit protection is provided on a particular portion of the portfolio loss distribution. The most junior tranches cover initial defaults, and once losses exceed the notional of the tranche, they are passed on to the next most senior tranche in the capital structure.

Credit Protection Sold through CLNs and CDOs. The Company has invested in CLNs and CDOs, which are hybrid instruments containing embedded derivatives, in which credit protection has been sold to the issuer of the note. If there is a credit event of a reference entity underlying the instrument, the principal balance of the note may not be repaid in full to the Company.

The following table summarizes the notional and fair value of protection sold and protection purchased through CDSs at December 31, 2017:

		Maximum Potential Payout/Notional										
		Prote	ection	Protecti	ion Purchased							
			Fa	air Value			F	air Value				
	Ν	otional	(Ass	et)/Liability	Ν	lotional	(Asset)/Liability					
Index and basket CDSs	\$	2,294	\$	231	\$	2,839	\$	(285)				
Credit protection with identical underlying reference obligations		2,294		<u>-</u>		2,774		<u>-</u>				

The purchase of credit protection does not represent the sole manner in which the Company risk manages its exposure to credit derivatives. The Company manages its exposure to these derivative contracts through a variety of risk mitigation strategies, which include managing the credit and correlation risk across non-tranched indices and baskets, and cash positions. Aggregate market risk limits have been established for credit derivatives, and market risk measures are routinely monitored against these limits. The Company may also recover amounts on the underlying reference obligation delivered to the Company under CDSs where credit protection was sold.

Fair value amounts as shown in the table below are on a gross basis prior to cash collateral or counterparty netting. In order to provide an indication of the current payment status or performance risk of the CDSs, a breakdown of CDSs based on the Company's internal credit ratings by investment grade and non-investment grade is provided. Internal credit ratings serve as CRM's assessment of credit risk and the basis for a comprehensive credit limits framework used to control credit risk. The Company uses quantitative models and judgment to estimate the various risk parameters related to each obligor.

	Ма	Maximum Potential Payout/Notional								
		Years to Maturity								
	Less than 1		1-3		3-5	(	Over 5		Total	Fair Value (Asset)/ Liability
Index and basket credit default swaps:										
Non-investment grade	\$ -	\$	-	\$		- \$	2,294	\$	2,294 \$	231
Total credit default swaps sold				-		-	2,294		2,294	231
Other credit contracts				-		-	100		100	(8)
Total credit derivatives and other	•	•		•		•	0.004	•	0.004.0	000
credit contracts	\$ .	- \$		- \$		- \$	2,394	\$	2,394 \$	223

#### 6. Collateralized Transactions

The Company enters into reverse repurchase agreements, repurchase agreements, securities borrowed and securities loaned transactions to, among other things, acquire securities to cover short positions and settle other securities obligations, to accommodate customers' needs and to finance its inventory positions.

The Company manages credit exposure arising from such transactions by, in appropriate circumstances, entering into master netting agreements and collateral agreements with counterparties that provide the Company, in the event of a counterparty default (such as bankruptcy or a counterparty's failure to pay or perform), with the right to net a counterparty's rights and obligations under such agreement and liquidate and set off collateral held by the Company against the net amount owed by the counterparty.

The Company's policy is generally to take possession of securities purchased or borrowed in connection with reverse repurchase agreements and securities borrowed transactions, respectively, and to receive cash and securities delivered under repurchase agreements or securities loaned transactions (with rights of rehypothecation). In certain cases, the Company may be permitted to post collateral to a third-party custodian under a tri-party arrangement that enables the Company to take control of such collateral in the event of a counterparty default.

The Company also monitors the fair value of the underlying securities as compared with the related receivable or payable, including accrued interest, and, as necessary, requests additional collateral as provided under the applicable agreement to ensure such transactions are adequately collateralized or the return of excess collateral.

The risk related to a decline in the market value of collateral (pledged or received) is managed by setting appropriate market-based haircuts. Increases in collateral margin calls on secured financing due to market value declines may be mitigated by increases in collateral margin calls on reverse repurchase agreements and securities borrowed transactions with similar quality collateral. Additionally, the Company may request lower quality collateral pledged be replaced with higher quality collateral through collateral substitution rights in the underlying agreements.

The Company actively manages its secured financing in a manner that reduces the potential refinancing risk of secured financing for less liquid assets. The Company considers the quality of collateral when negotiating collateral eligibility with counterparties, as defined by its fundability criteria. The Company utilizes shorter-term secured financing for highly liquid assets and has established longer tenor limits for less liquid assets, for which funding may be at risk in the event of a market disruption.

#### Offsetting of Certain Collateralized Transactions

	At December 31, 2017									
	0	A 1 -	Net	Amounts	NI-1					
	Gross Amounts <sup>(1)</sup>	Amounts Amounts Offset Presented		not Offset <sup>(2)</sup>	Net Amounts					
Assets										
Reverse repurchase agreements	\$ 101,739	\$ (56,963)	\$ 44.776	\$ (35,867)	\$ 8,909					
Securities	ψ .σ.,.σσ	ψ (σσ,σσσ)	Ψ,σ	ψ (σσ,σσ.)	Ψ 0,000					
borrowed	112,594	-	112,594	(108,979)	3,615					
Liabilities										
Repurchase agreements	\$ 138,087	\$ (56,963)	\$ 81,124	\$ (76,245)	\$ 4,879					
Securities loaned	17,895	-	17,895	(17,848)	47					

<sup>(1)</sup> Amounts include transactions that are either not subject to master netting agreements or are subject to such agreements but the Company has not determined the agreements to be legally enforceable as follows: \$8,321 of reverse repurchase agreements, \$171 of Securities borrowed, and \$4,709 of repurchase agreements.

(2) Amounts relate to master netting agreements that have been determined by the Company to be legally enforceable in the event of default but where certain other criteria are not met in accordance with applicable offsetting accounting guidance.

For information related to offsetting of derivatives, see Note 5.

#### **Maturities and Collateral Pledged**

#### Gross Secured Financing Balances by Remaining Contractual Maturity

		At December 31, 2017									
		vernight		ess than	30-90		Over 90			T-4-1	
	aı	nd Open	30 Days D		Days		Days		Total		
Repurchase agreements <sup>(1)</sup>	\$	55,487	\$	30,508	\$	33,525	\$	18,567	\$	138,087	
Securities loaned <sup>(1)</sup>		13,895		363		1,612		2,025		17,895	
Gross amount of secured financing included in the offsetting disclosure		69,382		30,871		35,137		20,592		155,982	
Obligation to return securities received as collateral		22,547		-		-		-		22,547	
Total	\$	91,929	\$	30,871	\$	35,137	\$	20,592	\$	178,529	

#### Gross Secured Financing Balances by Class of Collateral Pledged At Docombor 21

	At De	December 31, 2017		
Repurchase agreements (1)				
U.S. government and agency securities	\$	94,503		
Other sovereign government obligations		38		
State and municipal securities		2,451		
Asset-backed securities		919		
Corporate and other debt		4,618		
Corporate equities		35,373		
Other		185		
Total repurchase agreements		138,087		
Securities loaned (1)				
U.S. government and agency securities		467		
Other sovereign government obligations		37		
State and municipal securities		5		
Asset-backed securities		21		
Corporate and other debt		903		
Corporate equities		16,363		
Other		99		
Total securities loaned		17,895		
Gross amount of secured financing included in				
the offsetting disclosure		155,982		
Obligation to return securities received as coll	lateral			
Corporate equities		22,547		
Total obligation to return securities received as collateral		22,547		
ao oonatora		22,541		
Total	\$	178,529		

Amounts are presented on a gross basis, prior to netting in the consolidated statement of financial condition.

#### **Financial Instruments Pledged**

The Company pledges its Financial instruments owned to collateralize repurchase agreements, securities loaned, other secured financings and derivatives. Counterparties may or may not have the right to sell or repledge the collateral. Pledged financial instruments that can be sold or repledged by the secured party are identified as Financial instruments owned (pledged to various parties) in the Company's consolidated statement of financial condition. At December 31, 2017 the carrying value of Financial instruments owned that have been loaned or pledged to counterparties, where those counterparties do not have the right to sell or repledge the collateral was \$23,677.

#### **Collateral Received**

The Company receives collateral in the form of securities in connection with reverse repurchase agreements, securities borrowed, derivative transactions, and customer margin loans. In many cases, the Company is permitted to sell or repledge these securities held as collateral and use the securities to secure repurchase agreements, to enter into securities lending and derivative transactions or for delivery to counterparties to cover short positions.

The Company also receives securities as collateral in connection with certain securities-for-securities transactions. In instances where the Company is the lender and permitted to sell or repledge these securities, it reports the fair value of the collateral received and the related obligation to return the collateral on the consolidated statement of financial condition. Securities-forsecurities transactions where the firm is the borrower are not included in the consolidated statement of financial condition.

At December 31, 2017, the total fair value of financial instruments received as collateral where the Company is permitted to sell or repledge the securities was \$404,155 and the fair value of the portion that had been sold or repledged was \$347,540.

#### **Customer Margin Lending**

Margin lending allows clients to borrow against the value of qualifying securities. Margin loans are included within Customer receivables in the Company's consolidated statement of financial condition. Under these agreements and transactions, the Company either receives or provides collateral, including U.S. government and agency securities, other sovereign government obligations, corporate and other debt, and corporate equities. Customer receivables generated from margin lending activities are collateralized by customer-owned securities held by the Company. The Company monitors required margin levels and established credit terms daily and, pursuant to such guidelines, requires customers to deposit additional collateral, or reduce positions, when necessary.

Margin loans are extended on a demand basis and are not committed facilities. Factors considered in the review of margin loans are the amount of the loan, the intended purpose, the degree of leverage being employed in the account, and an overall evaluation of the portfolio to ensure proper diversification or, in the case of concentrated positions, appropriate liquidity of the underlying collateral or potential hedging strategies to reduce risk.

Underlying collateral for margin loans is reviewed with respect to the liquidity of the proposed collateral positions, valuation of securities, historic trading range, volatility analysis and an evaluation of industry concentrations. For these transactions, adherence to the Company's collateral policies significantly limits its credit exposure in the event of a customer default. The Company may request additional margin collateral from customers, if appropriate, and, if necessary, may sell securities that have not been paid for or purchase securities sold but not delivered from customers. At December 31, 2017, balances related to net customer receivables representing margin loans were \$14.132.

#### 7. Borrowings and Other Secured Financings

#### **Long-term Borrowings**

#### **Maturities and Terms of Long-Term Borrowings**

	Fix	ed Rate	Var	iable Rate	De	otal at ecember 1, 2017
Due in 2018	\$	-	\$	-	\$	-
Due in 2019		-		6,680		6,680
Due in 2020		-		20		20
Due in 2021		4		-		4
Due in 2022		-		27		27
Thereafter		-		-		-
Total	\$	4	\$	6,727	\$	6,731
Weighted average coupon rate at p	period-	5.99%		-1.01% <sup>(2)</sup>		-1.01% <sup>(2)</sup>

Weighted average coupon was calculated utilizing U.S. and non-U.S. dollar interest rates and excludes financial instruments for which the fair value option was elected.

Long-term borrowings consist of unsecured borrowings from affiliates and hybrid financial instruments with embedded derivatives. The unsecured borrowings from affiliates are callable with maturities of 13 months or more from when it is called. The interest rates for the unsecured borrowings from affiliates are established by the treasury function of the Ultimate Parent and are intended to approximate the market rate of interest that the Ultimate Parent incurs in funding its business as it is periodically reassessed.

The weighted average maturity of long-term borrowings, based upon stated maturity dates, was approximately 1.1 years at December 31, 2017.

#### **Other Secured Financings**

Other secured financings include the liabilities related to transfers of financial assets that are accounted for as financings rather than sales, consolidated VIEs where the Company is deemed to be the primary beneficiary and other secured borrowings. These liabilities are generally payable from the cash flows of the related assets accounted for as Financial instruments owned. See Note 10 for further information on other secured financings related to VIEs and securitization activities.

#### Other Secured Financings by Original Maturity and Type

	At December 31, 2017			
Secured financings with original maturities				
greater than one year	\$	3,766		
Secured financings with original maturities				
one year or less		500		
Total	\$	4,266		

#### **Maturities and Terms of Other Secured Financings**

	Fixed Variable Rate Rate		Decem	al at ber 31, 117		
Original maturities of	one y	ear or les	ss:			
Next 12 months	\$	\$ -		500	\$	500
Original maturities gre	ater	than one	year:			
Due in 2018		61		3,425		3,486
Due in 2019		42		-		42
Due in 2020		-		-		-
Due in 2021		-		-		-
Due in 2022		-		-		
Thereafter		191		47		238
Total		294		3,472		3,766
Total borrowings	\$	294	\$	3,972	\$	4,266
Weighted average						
coupon rate at period-						
end <sup>(2)</sup>		4.62%		1.88%		2.15%

<sup>(1)</sup> Variable rate borrowings bear interest based on a variety of indices, including LIBOR. Amounts include borrowings that are equity-linked, credit-linked or linked to some other index.

Weighted average coupon for variable rate borrowings is negative due to a combination of U.S. and non-U.S. dollar balances by counterparty as of the period end.

Includes only Other secured financings with original maturities greater than one year. Weighted average coupon is calculated utilizing U.S. dollar interest rates and excludes secured financings that are linked to noninterest indices and for which fair value option was elected.

#### 8. Subordinated Liabilities

Subordinated liabilities consist of a Cash Subordination Agreement and a \$12,000 subordinated revolving credit agreement with the Ultimate Parent at December 31, 2017. The maturity dates, interest rates and book value of the subordinated notes at December 31, 2017 are as follows:

Subordinated Notes	Maturity Date	Interest Rate	Во	ok Value
Cash Subordination Agreement	April 30, 2026	4.70%	\$	2,500
Subordinated Revolving Credit Agreement (1)	April 30, 2026	4.38%		8,800
Total			\$	11,300

<sup>(1)</sup> The interest rate on the drawn balance of the subordinated revolving credit agreement is three-month LIBOR plus 300 basis points.

#### 9. Commitments, Guarantees and Contingencies

#### **Premises and Equipment**

At December 31, 2017, future minimum rental commitments (net of sublease commitments, principally on office rentals) were as follows:

Fiscal Year	G	ross Amount	Sublease Income	1	Net Amount
2018	\$	28	3	\$	25
2019		28	3		25
2020		27	3		24
2021		23	=		23
2022		20	=		20
Thereafter		35	-		35
Total	\$	161	9	\$	152

Occupancy lease agreements, in addition to base rentals, generally provide for rent and operating expense escalations resulting from increased assessments for real estate taxes and other charges.

#### **Securities Activities**

Financial instruments sold, not yet purchased represent obligations of the Company to deliver specified financial instruments at contracted prices, thereby creating commitments to purchase the financial instruments in the market at prevailing prices. Consequently, the Company's ultimate obligation to satisfy the sale of financial instruments sold, not yet purchased may exceed the amounts recognized in the consolidated statement of financial condition.

The Company enters into forward-starting reverse repurchase agreements and forward-starting securities borrowed agreements (agreements with a trade date as of or prior to December 31, 2017 and settle subsequent to December 31, 2017) that are primarily secured by collateral from U.S. government agency securities and other sovereign government obligations. At December 31, 2017, the Company had commitments to enter into reverse repurchase agreements and securities borrowed

agreements of \$3,694. At December 31, 2017, \$867 of these agreements settled within three business days.

#### Guarantees

#### Obligations under Guarantee Arrangements at December 31, 2017

Maximum Potential Payout/Notional											
Years to Maturity									-		
	Less thar	า 1	1 - 3		3	- 5	Over 5		Total	A (/	arrying mount Asset)/ ability <sup>(1)</sup>
Credit derivative contracts	\$	_	\$	_	\$	_	\$ 2,294	\$	2,294	\$	231
Other credit contracts		_		_		_	100		100		(8)
Non-credit derivative contracts	175,8	75	13,8°	16	5	554	1,373		191,618		2,363

<sup>(1)</sup> Carrying amount of derivatives contracts are shown on a gross basis prior to cash collateral or counterparty netting. For further information on derivative contracts, see Note 5.

The Company has obligations under certain guarantee arrangements, including contracts and indemnification agreements that contingently require the Company to make payments to the guaranteed party based on changes in an underlying measure (such as an interest or foreign exchange rate, security or commodity price, an index or the occurrence or non-occurrence of a specified event) related to an asset, liability or equity security of a guaranteed party. Also included as guarantees are contracts that contingently require the Company to make payments to the guaranteed party based on another entity's failure to perform under an agreement, as well as indirect guarantees of the indebtedness of others.

#### Derivative Contracts

Certain derivative contracts meet the accounting definition of a guarantee, including certain written options, contingent forward contracts and CDSs (see Note 5 regarding credit derivatives in which the Company has sold credit protection to the counterparty). Information regarding all derivative contracts that meet the accounting definition of a guarantee is included in the previous table wherein the notional amount is used as the maximum potential payout for certain derivative contracts, such as written foreign currency options.

In certain situations, collateral may be held by the Company for those contracts that could meet the definition of a guarantee. Generally, the Company sets collateral requirements by counterparty so that the collateral covers various transactions and products and is not allocated specifically to individual contracts. Also, the Company may recover amounts related to the underlying asset delivered to the Company under the derivative contract.

The Company records derivative contracts at fair value. Aggregate market risk limits have been established, and market

risk measures are routinely monitored against these limits. The Company also manages its exposure to these derivative contracts through a variety of risk mitigation strategies, including, but not limited to, entering into offsetting economic hedge positions. The Company believes that the notional amounts of the derivative contracts generally overstate its exposure.

#### Exchange/Clearinghouse Member Guarantees

The Company is a member of various U.S. exchanges and clearinghouses that trade and clear securities and/or derivative contracts. Associated with its membership, the Company may be required to pay a certain amount as determined by the exchange or the clearinghouse in case of a default of any of its members or pay a proportionate share of the financial obligations of another member that may default on its obligations to the exchange or the clearinghouse. While the rules governing different exchange or clearinghouse memberships and the forms of these guarantees may vary, in general the Company's obligations under these rules would arise only if the exchange or clearinghouse had previously exhausted its resources.

In addition, some clearinghouse rules require members to assume a proportionate share of losses resulting from the clearinghouse's investment of guarantee fund contributions and initial margin, and of other losses unrelated to the default of a clearing member, if such losses exceed the specified resources allocated for such purpose by the clearinghouse.

The maximum potential payout under these rules cannot be estimated. The Company has not recorded any contingent liability in its consolidated statement of financial condition for these agreements and believes that any potential requirement to make payments under these agreements is remote.

#### Legal

In addition to the matters described below, in the normal course of business, the Company has been named, from time to time, as a defendant in various legal actions, including arbitrations, class actions and other litigation, arising in connection with its activities as a global diversified financial services institution. Certain of the actual or threatened legal actions include claims for substantial compensatory and/or punitive damages or claims for indeterminate amounts of damages. In some cases, the entities that would otherwise be the primary defendants in such cases are bankrupt or are in financial distress. These actions have included, but are not limited to, residential mortgage and credit-crisis related matters. Over the last several years, the level of litigation and investigatory activity (both formal and informal) by governmental and self-regulatory agencies has increased materially in the financial services industry. As a result, the Company expects that it may become the subject of elevated claims for damages and other relief and, while the Company has identified below any individual proceedings where the Company believes a material loss to be reasonably possible and reasonably estimable, there can be no assurance that material losses will not be incurred from claims that have

not yet been asserted or are not yet determined to be probable or possible and reasonably estimable losses.

The Company is also involved, from time to time, in other reviews, investigations and proceedings (both formal and informal) by governmental and self-regulatory agencies regarding the Company's business, and involving, among other matters, sales and trading activities, financial products or offerings sponsored, underwritten or sold by the Company, and accounting and operational matters, certain of which may result in adverse judgments, settlements, fines, penalties, injunctions or other relief.

The Company contests liability and/or the amount of damages as appropriate in each pending matter. Where available information indicates that it is probable a liability had been incurred at the date of the consolidated statement of financial condition and the Company can reasonably estimate the amount of that loss, the Company accrues the estimated loss by a charge to income.

In many proceedings and investigations, however, it is inherently difficult to determine whether any loss is probable or even possible or to estimate the amount of any loss. In addition, even where loss is possible or an exposure to loss exists in excess of the liability already accrued with respect to a previously recognized loss contingency, it is not always possible to reasonably estimate the size of the possible loss or range of loss

For certain legal proceedings and investigations, the Company cannot reasonably estimate such losses, particularly for proceedings and investigations where the factual record is being developed or contested or where plaintiffs or government entities seek substantial or indeterminate damages, restitution, disgorgement or penalties. Numerous issues may need to be resolved, including through potentially lengthy discovery and determination of important factual matters, determination of issues related to class certification and the calculation of damages or other relief, and by addressing novel or unsettled legal questions relevant to the proceedings or investigations in question, before a loss or additional loss or range of loss or additional loss can be reasonably estimated for a proceeding or investigation.

For certain other legal proceedings and investigations, the Company can estimate reasonably possible losses, additional losses, ranges of loss or ranges of additional loss in excess of amounts accrued, but does not believe, based on current knowledge and after consultation with counsel, that such losses will have a material adverse effect on the Company's consolidated statement of financial condition as a whole, other than the matters referred to in the following paragraphs.

#### Residential Mortgage and Credit Crisis Related Matters

On July 15, 2010, China Development Industrial Bank filed a complaint against the Company, styled *China Development Industrial Bank v. Morgan Stanley & Co. Incorporated et al.*,

which is pending in the Supreme Court of the State of New York, New York County ("Supreme Court of NY"). The complaint relates to a \$275 CDS referencing the super senior portion of the STACK 2006-1 CDO. The complaint asserts claims for common law fraud, fraudulent inducement and fraudulent concealment and alleges that the Company misrepresented the risks of the STACK 2006-1 CDO to CDIB, and that the Company knew that the assets backing the CDO were of poor quality when it entered into the CDS with CDIB. The complaint seeks compensatory damages related to the approximately \$228 that CDIB alleges it has already lost under the CDS, rescission of CDIB's obligation to pay an additional \$12, punitive damages, equitable relief, fees and costs. On February 28, 2011, the court denied the Company's motion to dismiss the complaint. Based on currently available information, the Company believes it could incur a loss in this action of up to approximately \$240 plus pre- and post-judgment interest, fees and costs.

On May 17, 2013, plaintiff in IKB International S.A. in Liquidation, et al. v. Morgan Stanley, et al. filed a complaint against the Company and certain affiliates in the Supreme Court of NY. The complaint alleges that defendants made material misrepresentations and omissions in the sale to plaintiff of certain mortgage pass-through certificates backed by securitization trusts containing residential mortgage loans. The total amount of certificates allegedly sponsored, underwritten and/or sold by the Company to plaintiff was approximately \$133. The complaint alleges causes of action against the Company for common law fraud, fraudulent concealment, aiding and abetting fraud, and negligent misrepresentation, and seeks, among other things, compensatory and punitive damages. On October 29, 2014, the court granted in part and denied in part the Company's motion to dismiss. All claims regarding four certificates were dismissed. After these dismissals, the remaining amount of certificates allegedly issued by the Company or sold to plaintiff by the Company was approximately \$116. On August 11, 2016, the Appellate Division affirmed the trial court's order denying in part the Company's motion to dismiss the complaint. At December 25, 2017, the current unpaid balance of the remaining mortgage pass-through certificates at issue in this action was approximately \$24, and the certificates had incurred actual losses of \$58. Based on currently available information, the Company believes it could incur a loss in this action up to the difference between the \$24 unpaid balance of these certificates (plus any losses incurred) and their fair market value at the time of a judgment against the Company, or upon sale, plus pre- and post-judgment interest, fees and costs. The Company may be entitled to be indemnified for some of these losses and to an offset for interest received by the plaintiff prior to a judgment.

On May 3, 2013, plaintiffs in *Deutsche Zentral-Genossenschaftsbank AG et al. v. Morgan Stanley et al.* filed a complaint against the Company, certain affiliates, and other defendants in the Supreme Court of NY. The complaint alleges that defendants made material misrepresentations and omissions in the sale to plaintiffs of certain mortgage pass-through certificates backed by securitization trusts containing residential

mortgage loans. The total amount of certificates allegedly sponsored, underwritten and/or sold by the Company to plaintiff was approximately \$634. The complaint alleges causes of action against the Company for common law fraud, fraudulent concealment, aiding and abetting fraud, negligent misrepresentation, and rescission and seeks, among other things, compensatory and punitive damages. On June 10, 2014, the court granted in part and denied in part the Company's motion to dismiss the complaint. On June 20, 2017 the Appellate Division affirmed the lower court's June 10, 2014 order. On October 3, 2017, the Appellate Division denied the Company's motion for leave to appeal to the New York Court of Appeals. At December 25, 2017, the current unpaid balance of the mortgage pass-through certificates at issue in this action was approximately \$215, and the certificates had incurred actual losses of approximately \$88. Based on currently available information, the Company believes it could incur a loss in this action up to the difference between the \$215 unpaid balance of these certificates (plus any losses incurred) and their fair market value at the time of a judgment against the Company, or upon sale, plus pre- and post-judgment interest, fees and costs. The Company may be entitled to be indemnified for some of these

On April 1, 2016, the California Attorney General's Office filed an action against the Company in California state court styled *California v. Morgan Stanley, et al.*, on behalf of California investors, including the California Public Employees' Retirement System and the California Teachers' Retirement System. The complaint alleges that the Company made misrepresentations and omissions regarding RMBS and notes issued by the Cheyne SIV, and asserts violations of the California False Claims Act and other state laws and seeks treble damages, civil penalties, disgorgement, and injunctive relief. On September 30, 2016, the court granted the Company's demurrer, with leave to replead. On October 21, 2016, the California Attorney General filed an amended complaint. On January 25, 2017, the court denied the Company's demurrer with respect to the amended complaint.

# 10. Variable Interest Entities and Securitization Activities

The Company is involved with various SPEs in the normal course of business. In most cases, these entities are deemed to be VIEs.

The Company's variable interests in VIEs include debt and equity interests, commitments, guarantees, derivative instruments and certain fees. The Company's involvement with VIEs arises primarily from:

- Interests purchased in connection with market-making activities and retained interests held as a result of securitization activities, including re-securitization transactions.
- Residual interests retained in connection with municipal bond securitizations.

 Structuring of CLNs or other asset-repackaged notes designed to meet the investment objectives of clients.

The Company determines whether it is the primary beneficiary of a VIE upon its initial involvement with the VIE and reassesses whether it is the primary beneficiary on an ongoing basis as long as it has any continuing involvement with the VIE. This determination is based upon an analysis of the design of the VIE, including the VIE's structure and activities, the power to make significant economic decisions held by the Company and by other parties, and the variable interests owned by the Company and other parties.

The power to make the most significant economic decisions may take a number of different forms in different types of VIEs. The Company considers servicing or collateral management decisions as representing the power to make the most significant economic decisions in transactions such as securitizations or CDOs. As a result, the Company does not consolidate securitizations or CDOs for which it does not act as the servicer or collateral manager unless it holds certain other rights to replace the servicer or collateral manager or to require the liquidation of the entity. If the Company serves as servicer or collateral manager, or has certain other rights described in the previous sentence, the Company analyzes the interests in the VIE that it holds and consolidates only those VIEs for which it holds a potentially significant interest in the VIE.

The structure of securitization vehicles and CDOs is driven by several parties, including loan seller(s) in securitization transactions, the collateral manager in a CDO, one or more rating agencies, a financial guarantor in some transactions and the underwriter(s) of the transactions, that serve to reflect specific investor demand. In addition, subordinate investors, such as the "B-piece" buyer (i.e., investors in most subordinated bond classes) in commercial mortgage backed securitizations or equity investors in CDOs, can influence whether specific loans are excluded from a CMBS transaction or investment criteria in a CDO.

For many transactions, such as re-securitization transactions, CLNs and other asset-repackaged notes, there are no significant economic decisions made on an ongoing basis. In these cases, the Company focuses its analysis on decisions made prior to the initial closing of the transaction and at the termination of the transaction. The Company concluded in most of these transactions that decisions made prior to the initial closing were shared between the Company and the initial investors based upon the nature of the assets, including whether the assets were issued in a transaction sponsored by the Company and the extent of the information available to the Company and to investors, the number, nature and involvement of investors, other rights held by the Company and investors, the standardization of the legal documentation and the level of continuing involvement by the Company, including the amount and type of interests owned by the Company and by other investors. The Company focused its control decision on any right held by the Company or investors related to the termination of the VIE. Most resecuritization transactions, CLNs and other asset-repackaged notes have no such termination rights.

The Company accounts for the assets held by the entities primarily in Financial instruments owned and the liabilities of the entities as Other secured financings in the consolidated statement of financial condition. The assets and liabilities are measured at fair value.

The following table presents information at December 31, 2017 about VIEs that the Company consolidates. Consolidated VIE assets and liabilities are presented after intercompany eliminations and include assets financed on a non-recourse basis.

	Assets	Liabilities
Mortgage- and Asset-Backed Securitizations \$	248	\$ 210

The Company has no additional maximum exposure to losses on assets not recognized in its consolidated statement of financial condition as of December 31, 2017.

The following table presents information about non-consolidated VIEs in which the Company has determined that its maximum exposure to loss is greater than specific thresholds or meets certain other criteria and excludes exposure to loss from liabilities due to immateriality. Most of the VIEs included in the following table are sponsored by unrelated parties; the Company's involvement generally is the result of its secondary market-making activities.

	At December 31, 2017							
	MABS		CDO		МТОВ			
VIE assets that the								
Company does not								
consolidate (unpaid								
principal balance)	\$ 23,814	\$	1,091	\$	165			
Total maximum exposure								
to loss and carrying value of exposure to loss								
Debt and equity interests	\$ 1,772	\$	41	\$	80			
Derivatives and other								
contracts	\$ -	\$	-	\$	40			

## Non-consolidated VIE Mortgage- and Asset-Backed Securitization Assets

At December 31, 2017			
Unpaid		Debt and	
Principal Balance		Equity Interests	
\$ 4,930	\$	604	
15,576		396	
1,813		601	
1,495		171	
\$ 23,814	\$	1,772	
\$	Unpaid Principal Balance \$ 4,930  15,576  1,813 1,495	Unpaid Principal Balance \$ 4,930 \$ 15,576	

The Company's maximum exposure to loss presented in the previous table does not include the offsetting benefit of any financial instruments that the Company may utilize to hedge

these risks associated with its variable interests. In addition, the Company's maximum exposure to loss presented in the previous table is not reduced by the amount of collateral held as part of a transaction with the VIE or any party to the VIE directly against a specific exposure to loss.

Securitization transactions generally involve VIEs. Primarily as a result of its secondary market-making activities, the Company owned additional VIE assets mainly issued by securitization SPEs for which the maximum exposure to loss is less than specific thresholds. These additional assets totaled \$1,826 at December 31, 2017. These assets were either retained in connection with transfers of assets by the Company, or acquired in connection with secondary market-making activities. These assets consisted of securities backed by residential mortgage loans, commercial mortgage loans, or other consumer loans, such as credit card receivables, automobile loans and student loans, CDOs, and investment funds. The Company's primary risk exposure is to the securities issued by the SPE owned by the Company, with the highest risk on the most subordinate class of beneficial interests. These assets generally are included in Financial instruments owned-Corporate and other debt and are measured at fair value (see Note 4). The Company does not provide additional support in these transactions through contractual facilities, such as liquidity facilities, guarantees, or similar derivatives. The Company's maximum exposure to loss generally equals the fair value of the assets owned.

The Company's transactions with VIEs primarily includes securitizations, municipal tender option bond trusts, credit protection purchased by affiliates through CLNs, and collateralized loan and debt obligations. Such activities are further described below.

#### **Securitization Activities**

In a securitization transaction, the Company or an affiliate transfers assets (generally commercial or U.S. agency securities) to an SPE, sells to investors most of the beneficial interests, such as notes or certificates, issued by the SPE, and, in many cases, retains other beneficial interests. The purchase of the transferred assets by the SPE is financed through the sale of these interests.

Although not obligated, the Company generally makes a market in the securities issued by SPEs in these transactions. As a market maker, the Company offers to buy these securities from, and sell these securities to, investors. Securities purchased through these market-making activities are not considered to be retained interests, although these beneficial interests generally are included in Financial instruments owned- Corporate and other debt and are measured at fair value.

The Company enters into derivatives, generally interest rate swaps and interest rate caps, with a senior payment priority in many securitization transactions. The risks associated with these and similar derivatives with SPEs are essentially the same as similar derivatives with non-SPE counterparties and are managed as part of the Company's overall exposure. See Note 5

for further information on derivative instruments and hedging activities.

#### Municipal Tender Option Bond Trusts

In a municipal tender option bond trust transaction, the Company, generally on behalf of a client, transfers a municipal bond to a trust. The trust issues short-term securities that the Company, as the remarketing agent, sells to investors. The client retains a residual interest. The short-term securities are supported by a liquidity facility pursuant to which the investors may put their short-term interests. In some programs, an affiliate of the Company provides this liquidity facility; in most programs, a third-party provider will provide such liquidity facility. The Company may purchase short-term securities in its role as remarketing agent. The client can generally terminate the transaction at any time. The liquidity provider can generally terminate the transaction upon the occurrence of certain events. When the transaction is terminated, the municipal bond is generally sold or returned to the client. Any losses suffered by the liquidity provider upon the sale of the bond are the responsibility of the client. This obligation generally is collateralized. Liquidity facilities provided to municipal tender option bond trusts generally are provided by affiliates of the Company. The Company consolidates any municipal tender option bond trusts in which it holds the residual interest. No such trust was consolidated at December 31, 2017.

#### Credit Linked Notes

In a CLN transaction, the Company transfers assets (generally high quality securities or money market investments) to an SPE. An affiliate of the Company enters into a derivative transaction in which the SPE writes protection on an unrelated reference asset or group of assets, through a CDS, a total return swap or similar instrument, and sells to investors the securities issued by the SPE. In some transactions, an affiliate of the Company may also enter into interest rate or currency swaps with the SPE. Upon the occurrence of a credit event related to the reference asset, the SPE will deliver collateral securities as payment to the affiliate of the Company that serves as the derivative counterparty. These transactions are designed to provide investors with exposure to certain credit risk on the reference asset. In some transactions, the assets and liabilities of the SPE are recognized in the Company's consolidated statement of financial condition. In other transactions, the transfer of the collateral securities is accounted for as a sale of assets, and the SPE is not consolidated. The structure of the transaction determines the accounting treatment.

The derivatives in CLN transactions consist of total return swaps, credit default swaps or similar contracts in which an affiliate of the Company has purchased protection on a reference asset or group of assets. Payments by the SPE are collateralized.

#### Collateralized Loan and Debt Obligations

A CLO or a CDO is an SPE that purchases a pool of assets, consisting of corporate loans, corporate bonds, ABSs or

synthetic exposures on similar assets through derivatives, and issues multiple tranches of debt and equity securities to investors. The Company underwrites the securities issued in CLO transactions on behalf of unaffiliated sponsors and provides advisory services to these unaffiliated sponsors. An affiliate of the Company sells corporate loans to many of these SPEs, in some cases representing a significant portion of the total assets purchased. If necessary, the Company may retain unsold securities issued in these transactions. Although not obligated, the Company generally makes a market in the securities issued by SPEs in these transactions. These beneficial interests are included in Financial instruments owned and are measured at fair value.

#### **Transfers of Assets with Continuing Involvement**

Transactions with SPEs in which the Company, acting as principal, transferred financial assets with continuing involvement and received sales treatment are shown in the following table.

	At December 31, 2017							
		CML			CLN and Other (1)			
SPE assets (unpaid principal balance)	\$	125	\$	11,612	\$	17		
Retained interests (fair value)								
Investment grade	\$	-	\$	407	\$	-		
Non-investment grade		38		-		_		
Total retained interests (fair								
value)	\$	38	\$	407	\$	-		
Interests purchased in the secondary market (fair value)								
Investment grade	\$	-	\$	439	\$			
Total interests purchased in the secondary market								
(fair value)	\$	=	\$	439	\$			

<sup>(1)</sup> Amounts include assets transferred by unrelated transferors.

At December 31, 2017							
	Level 2 Level 3		Total				
\$	407	\$	-	\$	407		
	-		38		38		
\$	407	\$	38	\$	445		
\$	439	\$	-	\$	439		
\$	439	\$	-	\$	439		
	\$	Level 2 \$ 407 - \$ 407 \$ 407	Level 2  \$ 407 \$	Level 2 Level 3  \$ 407 \$ -	Level 2 Level 3  \$ 407 \$ - \$  - 38  \$ 407 \$ 38 \$  \$ 407 \$ 38 \$		

Transferred assets are carried at fair value prior to securitization. The Company may act as underwriter of the beneficial interests issued by these securitization vehicles. The Company may retain interests in the securitized financial assets as one or more tranches of the securitization. These retained interests are generally carried at fair value in the Company's consolidated statement of financial condition.

#### 11. Sales, Trading and Risk Management

#### **Sales and Trading**

The Company conducts sales, trading, financing and market-making activities on securities and futures exchanges and in OTC markets. The Company's Institutional Securities sales and trading activities comprise of Equities Trading, Fixed Income Trading, Financing and Prime Brokerage Services.

The Company's trading portfolios are managed with a view toward the risk and profitability of the portfolios. The following is a discussion of the nature of the equities, fixed income, financing and prime brokerage activities conducted by the Company, including the use of derivative products in these activities, and the Company's policies and procedures covering its market, credit, operational, and liquidity risks.

#### **Equities**

The Company acts as a principal (including as a market-maker) and agent in executing transactions in equity securities and related products, including common stock, ADRs, global depositary receipts and exchange-traded funds.

The Company's equity derivatives sales, trading and market-making activities cover equity-related products, including equity swaps, options, warrants and futures overlying individual securities, indices and baskets of securities and other equity-related products.

#### **Fixed Income**

The Company trades, invests and makes markets in fixed income securities and related products, including, among other products, investment and non-investment grade corporate debt, distressed debt, U.S. and other sovereign securities, emerging market bonds, convertible bonds, collateralized debt and loan obligations, credit, currency, interest rate and other fixed income-linked notes, securities issued by structured investment vehicles, mortgage-related and other asset-backed securities, municipal securities, preferred stock and commercial paper, money-market and other short-term securities. The Company is a primary dealer of U.S. federal government securities and a member of the selling groups that distribute various U.S. agency and other debt securities.

The Company trades, invests and makes markets in listed futures.

The Company trades, invests and makes markets in major foreign currencies, such as the British pound, Canadian dollar, Euro, Japanese yen and Swiss franc, as well as in emerging markets currencies. The Company trades these currencies on a principal basis in the spot, forward, option and futures markets.

#### **Financing and Prime Brokerage**

The Company provides financing and prime brokerage services to its clients active in the equity markets through a variety of products including margin lending and securities lending.

In addition, through the use of repurchase and reverse repurchase agreements, the Company acts as an intermediary between borrowers and lenders of short-term funds.

#### Risk Management

The Company's risk management policies and related procedures are aligned with those of the Ultimate Parent and its other consolidated subsidiaries. These policies and related procedures are administered on a coordinated global and legal entity basis with consideration given the Company's specific capital and regulatory requirements.

Risk is an inherent part of the Company's business activities. Management believes effective risk management is vital to the success of the Company's business activities. Accordingly, the Company has policies and procedures in place to identify, measure, monitor, advise, challenge and control the principal risks involved in the activities of its business and support functions. The Company's ability to properly and effectively identify, measure, monitor, advise, challenge and control each of the various types of risk involved in its activities is critical to its soundness and profitability.

The cornerstone of the Company's risk management philosophy is the execution of risk-adjusted returns through prudent risktaking that protects the Company's capital base and franchise. Five key principles underlie this philosophy: integrity, comprehensiveness, independence, accountability transparency. To help ensure the efficacy of risk management, which is an essential component of the Company's reputation, and management requires thorough communication and the appropriate escalation of risk matters. The fast-paced, complex, and constantly-evolving nature of global financial markets requires that the Company maintain a risk management culture that is incisive, knowledgeable about specialized products and markets, and subject to ongoing review and enhancement.

#### **Market Risk**

Market risk refers to the risk that a change in the level of one or more market prices, rates, indices, implied volatilities (the price volatility of the underlying instrument imputed from option prices), correlations or other market factors, such as market liquidity, will result in losses for a position or portfolio owned by the Company. Generally, the Company incurs market risk as a result of trading, investing and client facilitation activities.

Sound market risk management is an integral part of the Company's culture. The various business units trading desks are responsible for ensuring that market risk exposures are well-managed and prudent. Market risk is also monitored through various measures: using statistics; by measures of position

sensitivity; and through routine stress testing, which measures the impact on the value of existing portfolios of specified changes in market factors, and scenario analyses conducted in collaboration with business units.

#### Credit Risk

Credit risk refers to the risk of loss arising when a borrower, counterparty or issuer does not meet its financial obligations to the Company. The Company primarily incurs credit risk exposure to institutions and individuals. This risk may arise from a variety of business activities, including, but not limited to, entering into derivative contracts under which counterparties have obligations to make payments to the Company; extending credit to clients; providing funding that is secured by physical or financial collateral whose value may at times be insufficient to cover the loan repayment amount; and posting margin and/or collateral to counterparties. This type of risk requires credit analysis of specific counterparties, both initially and on an ongoing basis. The Company also incurs credit risk in traded securities and whereby the value of these assets may fluctuate based on realized or expected defaults on the underlying obligations or loans.

The Company has structured its credit risk management framework to reflect that each of its businesses generate unique credit risks, and establishes practices to evaluate, monitor and control credit risk exposure both within and across its business activities. The Company is responsible for ensuring transparency of material credit risks, ensuring compliance with established limits, approving material extensions of credit, and escalating risk concentrations to appropriate senior management. The Company's credit risk exposure is managed by credit professionals and risk committees that monitor risk exposures, including margin loans and credit sensitive, higher risk transactions.

#### **Operational Risk**

Operational risk refers to the risk of loss, or of damage to the Company's reputation, resulting from inadequate or failed processes or systems, from human factors or from external events (e.g., fraud, theft, legal and compliance risks, cyber attacks or damage to physical assets). The Company may incur operational risk across the full scope of its business activities, including revenue-generating activities (e.g., sales and trading) and support and control groups (e.g. information technology and trade processing). As such, the Company may incur operational risk in each of its divisions.

The goal of the operational risk management framework is to establish Company-wide operational risk standards related to risk measurement, monitoring and management. Operational risk policies are designed to reduce the likelihood and/or impact of operational incidents as well as to mitigate legal, regulatory, and reputational risks.

#### Liquidity Risk

Liquidity risk refers to the risk that the Company will be unable to finance its operations due to a loss of access to the capital markets or difficulty in liquidating its assets. Liquidity risk also encompasses the Company's ability to meet its financial obligations in a timely manner without experiencing significant business disruption or reputational damage that may threaten its viability as a going concern.

The primary goal of the Company's Liquidity Risk Management Framework is to ensure that the Company has access to adequate funding across a wide range of market conditions. The framework is designed to enable the Company to fulfill its financial obligations and support the execution of its business strategies. The Company's Required Liquidity Framework reflects the amount of liquidity the Company must hold in both normal and stressed environments to ensure that its financial condition or overall soundness is not adversely affected by an inability (or perceived inability) to meet its financial obligations in a timely manner. The Required Liquidity Framework considers the most constraining liquidity requirement to satisfy all regulatory and internal limits. The Company uses Liquidity Stress Tests to model liquidity inflows and outflows across multiple scenarios over a range of time horizons. These scenarios contain various combinations of idiosyncratic and systemic stress events of different severity and duration. The methodology, implementation, production and analysis of the Company's Liquidity Stress Tests are important components of the Required Liquidity Framework.

#### **Concentration Risk**

The Company is subject to concentration risk by holding large positions in certain types of securities or commitments to purchase securities of a single issuer, including sovereign governments and other entities, issuers located in a particular country or geographic area, public and private issuers involving developing countries, or issuers engaged in a particular industry. Financial instruments owned by the Company include U.S. government and agency securities, which, in the aggregate, represented approximately 13% of the Company's total assets at December 31, 2017. In addition, substantially all of the collateral held by the Company for reverse repurchase agreements or bonds borrowed, which together represented approximately 18% of the Company's total assets at December 31, 2017, consist of securities issued by the U.S. government, federal agencies or other sovereign government obligations.

#### **Customer Activities**

The Company's customer activities involve the execution, settlement and financing of various securities transactions on behalf of customers. Customer securities activities are transacted on either a cash or margin basis.

The Company's customer activities may expose it to off-balance sheet credit risk. The Company may have to purchase or sell financial instruments at prevailing market prices in the event of the failure of a customer to settle a trade on its original terms or in the event cash and securities in customer margin accounts are not sufficient to fully cover customer losses. The Company seeks to control the risks associated with customer activities by requiring customers to maintain margin collateral in compliance with various regulations and Company policies.

#### 12. Employee Stock-Based Compensation Plans

Eligible employees of the Company participate in several of the Ultimate Parent's stock-based compensation plans. The Ultimate Parent determines the fair value of stock-based awards based on the grant-date fair value of its common stock.

#### Restricted Stock Units

RSUs are generally subject to vesting over time, generally three years from the date of award, contingent upon continued employment and subject to restrictions on sale, transfer or assignment until conversion to common stock. All or a portion of an award may be cancelled if employment is terminated before the end of the relevant vesting period and after the relevant vesting period in certain situations. Recipients of RSUs may have voting rights, at the Ultimate Parent's discretion, and generally receive dividend equivalents, if the awards vest. The Ultimate Parent determines the fair value of RSUs based on the grant-date fair value of its common stock, measured as the volume-weighted average price on the date of grant. Certain awards provide the Ultimate Parent discretion to cancel all or a portion of the award under specified circumstances.

#### Performance-based Stock Units

PSUs will vest and convert to shares of common stock only if the Ultimate Parent satisfies predetermined performance and market-based conditions over a three-year performance period. The number of PSUs that will actually vest ranges from 0% to 150% of the target award based on the extent to which the Ultimate Parent achieves the specified performance goals. PSUs have vesting, restriction and cancellation provisions that are generally similar to those of RSUs. The Ultimate Parent determines the fair value of PSUs with non-market performance conditions based on the grant-date fair value of its common stock, measured as the volume-weighted average price on the date of grant. PSUs with market-based conditions are valued using a Monte Carlo valuation model.

#### Stock Options

The Company had no stock options outstanding as of December 31, 2017, and did not grant stock options in 2017.

#### 13. Employee Benefit Plans

The Ultimate Parent and its consolidated subsidiaries sponsor various retirement plans for the majority of its U.S. and certain non-U.S. employees. The Company provides certain other postretirement benefits, primarily health care and life insurance, to eligible U.S. employees.

#### Pension and Other Postretirement Plans

Certain U.S. employees of the Company who were hired before July 1, 2007 are covered by a non-contributory, defined benefit pension plan that is qualified under Section 401(a) of the Internal Revenue Code (the "Qualified Plan"). The Qualified Plan has ceased future benefit accruals.

Unfunded supplementary plans (collectively, the "Supplemental Plans") cover certain executives. Liabilities for benefits payable under the Supplemental Plans are accrued by the Company and are funded when paid. SEREP, a non-contributory defined benefit plan that is not qualified under Section 401(a) of the Internal Revenue Code, has ceased future benefit accruals.

The Company's pension plans generally provide pension benefits that are based on each employee's years of credited service and on compensation levels specified in the plans.

The Company has an unfunded postretirement benefit plan that provides medical and life insurance for eligible U.S. retirees and medical insurance for eligible dependents.

The accounting for pension and postretirement plans involves certain assumptions and estimates. The expected long-term rate of return on plan assets is an assumption that generally is expected to remain the same from one year to the next unless there is a significant change in the target asset allocation, the fees and expenses paid by the plan or market conditions. The expected long-term rate of return for the Qualified Plan was estimated by computing a weighted average of the underlying long-term expected returns based on the investment managers' target allocations. The Qualified Plan is primarily invested in fixed income securities and related derivative instruments, including interest rate swap contracts. This asset allocation is expected to help protect the plan's funded status and limit volatility of the Company's contributions. Total Qualified Plan investment portfolio performance is assessed by comparing actual investment performance to changes in the estimated present value of the Qualified Plan's benefit obligation.

#### **Benefit Obligation and Funded Status**

	ı	Pension Plans	Ро	Other estretirement Plan
Rollforward of benefit obligation				
Benefit obligation at December 31, 2016	\$	3,247	\$	88
Service cost		-		1
Interest cost		136		3
Actuarial loss (1)		309		-
Benefits paid		(219)		(6)
Benefit obligation at December 31, 2017	\$	3,473	\$	86
Rollforward of fair value of plan assets				
Fair value of plan assets at December 31, 2016	\$	3,024	\$	-
Actual return on plan assets		205		-
Employer contributions		19		6
Benefits paid		(219)		(6)
Fair value of plan assets at December 31, 2017		3,029		-
Funded (unfunded) status at				
December 31, 2017	\$	(444)	\$	(86)
Amounts recognized in the consolidated state condition Assets	en \$	nent of fin	and \$	cial -
Liabilities	Ψ	(444)	Ψ	(86)
Net amount recognized	\$	(444)	¢	(86)
ivet amount recognized	φ	(444)	φ	(00)
Amounts recognized in AOCI				
	\$	-	\$	1
Prior service credit (cost)	Ψ			
Prior service credit (cost)  Net gain (loss)	Ψ	(896)		

<sup>(1)</sup> Amounts primarily reflect impact of year-over-year discount rate fluctuations.

### Pension Plans with Benefit Obligations in Excess of the Fair Value of Plan Assets

Projected benefit obligation	\$ 3,473
Accumulated benefit obligation	\$ 3,473
Fair value of plan assets	\$ 3,029

### Weighted Average Assumptions Used to Determine Benefit Obligation

	Pension Plans	Other Postretirement Plan
Discount rate	3.64%	3.44%

The discount rates used to determine the benefit obligation for the pension and postretirement plans were selected by the Company, in consultation with its independent actuary, using a pension discount yield curve based on the characteristics of the plans, each determined independently. The pension discount yield curve represents spot discount yields based on duration implicit in a representative broad-based Aa-rated corporate bond universe of high-quality fixed income investments.

### Assumed Health Care Cost Trend Rates Used to Determine the Postretirement Benefit Obligation

Health care cost trend rate assumed for next year:	
Medical	5.81%
Prescription	8.49%
Rate to which the cost trend rate is assumed to decline	4.50%
(ultimate trend rate)	
Year that the rate reaches the ultimate trend rate	2038

#### Qualified Plan Assets

The Qualified Plan uses a combination of active and risk-controlled fixed income investment strategies. The fixed income asset allocation consists primarily of fixed income securities and related derivative instruments designed to approximate the expected cash flows of the plan's liabilities in order to help reduce plan exposure to interest rate variation and to better align assets with the obligation. The longer duration fixed income allocation is expected to help protect the plan's funded status and maintain the stability of plan contributions over the long

Derivative instruments are permitted in the Qualified Plan's investment portfolio only to the extent that they comply with all of the plan's investment policy guidelines and are consistent with the plan's risk and return objectives. In addition, any investment in derivatives must meet the following conditions:

- May be used only if derivative instruments are deemed by the investment manager to be more attractive than a similar direct investment in the underlying cash market or if the vehicle is being used to manage risk of the portfolio.
- May not be used in a speculative manner or to leverage the portfolio under any circumstances.
- May not be used as short-term trading vehicles. The investment philosophy of the Qualified Plan is that investment activity is undertaken for long-term investment rather than short-term trading.
- May be used in the management of the Qualified Plan's portfolio only when the derivative instruments possible effects can be quantified, shown to enhance the riskreturn profile of the portfolio, and reported in a meaningful and understandable manner.

As a fundamental operating principle, any restrictions on the underlying assets apply to a respective derivative product. This includes percentage allocations and credit quality. Derivatives are used solely for the purpose of enhancing investment in the underlying assets and not to circumvent portfolio restrictions.

Plan assets are measured at fair value using valuation techniques that are consistent with the valuation techniques applied to the Company's major categories of assets and liabilities as described in Note 4. OTC derivative contracts consist of investments in interest rate swaps.

Commingled trust funds are privately offered funds that are regulated, supervised, and subject to periodic examination by a U.S. federal or state agency and available to institutional clients. The trust must be maintained for the collective investment or reinvestment of assets contributed to it from U.S tax qualified employee benefit plans maintained by more than one employer or controlled group of corporations. The sponsor of the commingled trust funds values the funds based on the fair value of the underlying securities. The underlying securities of the

commingled trust funds held by the Qualified Plan consist mainly of long-duration fixed income instruments. Commingled trust funds are redeemable at NAV at the measurement date or in the near future.

The Company generally considers the NAV of commingled trust funds provided by the fund manager to be the best estimate of fair value.

#### Fair Value of Plan Assets and Liabilities

	L	evel 1	Level 2	Level 3	Total
Assets					
Investments					
U.S. government and agency	sec	urities:			
U.S. Treasury securities	\$	2,398	\$ -	\$ -\$	2,398
U.S. agency securities		-	318	-	318
Total U.S. government and agency securities		2,398	318	-	2,716
Corporate and other debt					
Collateralized debt obligations	s	-	14	-	14
Total corporate and other debt		-	14	-	14
Derivative contracts <sup>(1)</sup>		-	1	-	1
Receivables:					
Other receivables		26	-	-	26
Total assets (2)	\$	2,424	\$ 333	\$ - \$	2,757
Liabilities					
Derivative contracts <sup>(1)</sup>	\$	-	\$ 2	\$ - \$	2
Payables					
Other Payables		11		-	11
Total liabilities	\$	11	\$ 2	\$ -\$	13

During 2017, the CME amended its rulebook for cleared OTC derivatives, resulting in the characterization of variation margin transfers as settlement payments as opposed to cash posted as collateral.

#### Morgan Stanley 401(k) Plan

U.S. employees meeting certain eligibility requirements may participate in the Morgan Stanley 401(k) Plan. Eligible employees receive discretionary 401(k) matching cash contributions as determined annually by the Company. For 2017, the Company made a dollar for dollar Company match up to 4% of eligible pay, up to the IRS limit. Matching contributions were invested among available funds according to each participant's investment direction on file. Eligible employees with eligible pay less than or equal to one hundred thousand dollars also received a fixed contribution of 2% of eligible pay. Transition contributions are allocated to certain eligible employees.

<sup>(2)</sup> Amounts exclude Commingled trust funds measured at fair value using the NAV per share, which are not classified in the fair value hierarchy. Commingled trust funds consist of investments in money market funds of \$285.

#### 14. Income Taxes

The Company is a single-member limited liability company that is treated as a disregarded entity for federal income tax purposes. The Company is included in the consolidated federal income tax return filed by the Ultimate Parent. Federal income taxes have generally been provided on a modified separate entity basis in accordance with the Tax Sharing Agreement with the Ultimate Parent. The Company is included in the combined state and local income tax returns with the Ultimate Parent and certain other subsidiaries of the Ultimate Parent. State and local income taxes have been provided on separate entity income at the effective tax rate of the Company's combined filing group.

In accordance with the terms of the Tax Sharing Agreement with the Ultimate Parent, substantially all current and deferred taxes (federal, combined and unitary state) are settled periodically with the Ultimate Parent.

On December 22, 2017, the Tax Cuts and Jobs Act ("Tax Act") significantly revised the U.S. corporate income tax law by, among other things, reducing the corporate income tax rate to 21%, and broadens the tax base by partially or wholly eliminating a tax deduction for certain historically deductible expenses (e.g. executive compensation).

Notwithstanding the above, it may be appropriate to record future adjustments in the reporting period the adjustments are determined, depending on the nature of the estimate and reason for the adjustment.

#### **Deferred Tax Assets and Liabilities**

Deferred income taxes reflect the net tax effects of temporary differences between the financial reporting and tax bases of assets and liabilities and are measured using the applicable enacted tax rates and laws that will be in effect when such differences are expected to reverse. In absence of the Tax Sharing Agreement with the Ultimate Parent, the Company's net deferred tax asset at December 31, 2017 would be \$721 after the impact of the Tax Act, which is primarily attributable to employee compensation, benefit plan payables, and valuation and liability allowances.

#### **Unrecognized Tax Benefits**

The Company is subject to the income and indirect tax laws of the U.S., its states and municipalities in which the Company has significant business operations. These tax laws are complex and subject to different interpretations by the taxpayer and the relevant governmental taxing authorities. The Company must make judgments and interpretations about the application of these inherently complex tax laws when determining the provision for income taxes and the expense for indirect taxes and must also make estimates about when certain items affect taxable income in the various tax jurisdictions. Disputes over interpretations of the tax laws may be settled with the taxing authority upon examination or audit. The Company periodically evaluates the likelihood of assessments in each taxing

jurisdiction resulting from current and subsequent years' examinations, and unrecognized tax benefits related to potential losses that may arise from tax audits are established in accordance with the guidance on accounting for unrecognized tax benefits and incorporated into the amounts settled periodically with the Ultimate Parent under the Tax Sharing Agreement. Once established, unrecognized tax benefits are adjusted when there is more information available or when an event occurs requiring a change.

#### **Tax Authority Examinations**

The Company, through its inclusion in the return of the Ultimate Parent, is under continuous examination by the IRS and other tax authorities in certain states in which the Company has significant business operations, such as New York. The Company believes its unrecognized tax benefits, and associated interest, if applicable ("tax liabilities"), is adequate in relation to the potential for additional assessments. The Company will adjust such unrecognized tax benefits only when new information is available or when an event occurs necessitating a change.

The Company is currently at various levels of field examination with respect to audits by the IRS, as well as New York State and New York City, for tax years 2009–2012 and 2007–2014, respectively. During 2017, the Company agreed to proposed adjustments associated with the expected closure of the field audits for the tax years 2006–2008.

The Company believes that the resolution of the above tax matters will not have a material effect on the consolidated statement of financial condition.

It is reasonably possible that significant changes in the balance of unrecognized tax benefits occur within the next 12 months. At this time, however, it is not possible to reasonably estimate the expected change to the total amount of unrecognized tax benefits and the impact on the Company's effective tax rate over the next 12 months.

Also during 2017, the Ultimate Parent received new information relating to the expected closure of the IRS field audits for tax years 2009-2012 resulting in a remeasurement and an overall net decrease in the Company's recorded tax liabilities.

In 2017, the Ultimate Parent reached an agreement with the IRS on resolution of claims filed with the IRS to contest certain items associated with tax years 1999-2005, which did not have a material impact on the consolidated statement of financial condition or effective tax rate.

Earliest Tax Year Subject to Examination in Major Tax Jurisdictions

Jurisdiction	Tax Year
United States	1999
New York State and City	2007

#### 15. Regulatory Capital and Other Requirements

#### **Regulatory Capital**

MS&Co. is a registered U.S. broker-dealer and registered futures commission merchant and, accordingly, is subject to the minimum net capital requirements of the SEC and the CFTC. Under these rules, MS&Co. is required to maintain minimum Net Capital, as defined under SEC Rule 15c3-1, of not less than the greater of 2% of aggregate debit items arising from customer transactions, plus excess margin collateral on reverse repurchase agreements or the CFTC risk-based requirement representing the sum of 8% of customer risk maintenance margin requirement and 8% of non customer risk maintenance margin requirement, as defined. At December 31, 2017, MS&Co.'s Net Capital was \$10,142 which exceeded the CFTC minimum requirement by \$8,018.

FINRA may require a member firm to reduce its business if net capital is less than 4% of such aggregate debit items and may prohibit a firm from expanding its business if net capital is less than 5% of such aggregate debit items.

MS&Co. is required to hold tentative net capital in excess of \$1,000 and Net Capital in excess of \$500 in accordance with the market and credit risk standards of Appendix E of Rule 15c3-1. MS&Co. is also required to notify the SEC in the event that its tentative net capital is less than \$5,000. At December 31, 2017, MS&Co. had tentative net capital in excess of the minimum and the notification requirements.

Advances to the Ultimate Parent and its affiliates, repayment of subordinated liabilities, dividend payments and other equity withdrawals are subject to certain notification and other provisions of the SEC Net Capital rule.

As of December 31, 2017, MS&Co. met the criteria set forth under the SEC's Rule 11(a)(1)(G)(i), trading by members of Exchanges, Brokers and Dealers, and is therefore in compliance with the business mix requirements.

The Dodd-Frank Act requires the registration of "swap dealers" and "major swap participants" with the CFTC and "security-based swap dealers" and "major security-based swap participants" with the SEC (collectively, "Swaps Entities"). The Company provisionally registered with the CFTC as a swap dealer.

#### Other

At December 31, 2017, cash and securities of \$12,246 and \$17,428, respectively, were deposited with clearing organizations or segregated under federal and other regulations or requirements. Securities deposited with clearing organizations or segregated under federal and other regulations or requirements are sourced from reverse repurchase agreements and Financial instruments owned in the Company's consolidated statement of financial condition.

#### 16. Subsequent Events

The Company has evaluated subsequent events for adjustment to or disclosure in the consolidated statement of financial conditional through the date of this report and the Company has not identified any recordable or disclosable events, not otherwise reported in these consolidated statement of financial conditional or the notes thereto.

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#### **Glossary of Common Acronyms**

0105541) 01 0011	
ABS – Asset-backed securities	MRM - Model Risk Management department
ADR – American depositary receipt	MS&Co. – Morgan Stanley & Co. LLC
AOCI – Accumulated other comprehensive income	MSCM – Morgan Stanley Capital Management, LLC
(loss)	MSDHI – Morgan Stanley Domestic Holdings, Inc.
CDO – Collateralized debt obligations	MSSB – Morgan Stanley Smith Barney, LLC
CDS – Credit default swap	MSSG – Morgan Stanley Services Group Inc.
CFO – Chief Financial Officer of the Ultimate Parent and its consolidated subsidiaries	MTOB – Municipal Tender Option Bonds
CFTC – Commodity Futures Trading Commission	NAV – Net Asset Value
CLN – Credit-linked note	OECD – Organization for Economic Cooperation and Development
CLO – Collateralized loan obligations	OIS – Overnight indexed swap
CMBS – Commercial mortgage-backed securities	OTC – Over-the-counter
CME – Chicago Mercantile Exchange	PDS – Prime Dealer Services Corp.
CML – Commercial Mortgage Loans	PSU – Performance-based stock units
CMO – Collateralized Mortgage Obligation	RMBS – Residential mortgage-backed securities
CRM—Credit Risk Management Department	RSU – Restricted stock unit
CRO – Chief Risk Officer of the Ultimate Parent and its consolidated subsidiaries	SEC – U.S. Securities and Exchange Commission
FCG – Financial Control Group	SEREP – The Morgan Stanley Supplemental Executive Retirement and Excess Plan
FICO – Fair Isaac Corporation	SPE – Special purpose entities
FINRA – Financial Industry Regulatory Authority, Inc.	U.S. GAAP – Accounting principles generally accepted in the United States of America
IRS – Internal Revenue Service	VIE – Variable interest entity
LIBOR – London Inter-bank Offered Rate	VRG – Valuation Review Group
MABS – Mortgage- and Asset-Backed Securities	- · · · r

A copy of our December 31, 2017 consolidated statement of financial condition filed pursuant to Rule 17a-5 of the Securities Exchange Act of 1934 is available for examination at the New York Office of the Securities and Exchange Commission or at our principal office at 1585 Broadway, New York, N.Y. 10036.

A copy of this Morgan Stanley & Co. LLC Consolidated Statement of Financial Condition can be viewed online at the Morgan Stanley website at: https://www.morganstanley.com/about-us-ir/shareholder/morganstanley\_co\_llc.pdf