

**J.P. MORGAN SECURITIES PLC**

**(Registered Number: 02711006)**

**Annual report for the year ended 31 December 2017**



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# **J.P. MORGAN SECURITIES PLC**

## **Chief Executive Officer report**

J.P. Morgan Securities plc (the "Company" or "JPMS plc") continues to adapt to the changing technological and regulatory environment, enhancing operations to improve efficiency and answer clients' evolving needs.

While uncertainty surrounds the outcome of Brexit negotiations, the strength of our business means we are well placed to support clients as they negotiate the unpredictable political landscape before them. As the new CEO of the Company, I want to express our sincere commitment to supporting our clients' financial strategies in this new environment.

### **Simplification**

In response to the April 2016 regulatory feedback on the Firm's 2015 Resolution Plan, we simplified the ownership structure of the Company by eliminating certain intermediate holding entities between JPMorgan Chase Bank, N.A. and the Company. The Company is now wholly owned by J.P. Morgan Capital Holdings Limited.

On 1 June 2017 JPMorgan Chase Bank, N.A. terminated its guarantee of the payment of all obligations of the Company. The Company is now rated on a stand-alone, non-guaranteed basis by Moody's Investors Service, Standard & Poor's and Fitch Ratings, with a stable outlook.

### **Financial performance**

Performance continues to move in line with expectations despite volatile market conditions. Operating income arising from the markets lines of businesses continued to perform consistently, in addition with strong performance in Investor Services and Banking lines of business. Profit year on year was down, predominantly driven by increased staff expenses arising from transfer of employees to the Company through simplification efforts, and higher indirect expense allocations from other JPMorgan Chase & Co. undertakings.

Our global scale, comprehensive product set and the strength of our balance sheet, underpinned by our sound risk management practices, enabled us to consistently deliver.

### **Continued change**

In order to operate as we do and compete we have to prioritise developments in our operational and technological framework. Technology is rapidly reshaping the Markets landscape, positively altering how our clients trade and how we communicate with them. As the technology advances, we have the resources and the will to embrace behavioural shifts and build offerings around them.

### **Future outlook**

The United Kingdom's ("UK") referendum to exit the European Union ("EU") and subsequent negotiations of a future relationship continues as a key focus area. These arrangements remain uncertain and the impact of Brexit on the Company's business model and risks continue to be assessed in considering a strategic post-Brexit end state. Dependent on the outcome, there is a potential that migrations of business out of the Company into other EU entities will need to occur.

Although uncertainty currently exists we will endeavour to adapt to any changes, positive or negative, to continue to service our clients.

The employees of the Company have shown a tremendous amount of effort this year to allow us to be in our current position; for that we are extremely grateful and express our profound gratitude. Ultimately, these are the individuals who seek every day to implement new strategies and solutions to operate as we do.



Viswas Raghavan  
Chief Executive Officer

24 April 2018  
London

# **J.P. MORGAN SECURITIES PLC**

## **Strategic report**

The directors present the strategic report of J.P. Morgan Securities plc (the "Company" or "JPMS plc") for the year ended 31 December 2017.

### **Overview**

JPMS plc, a public limited company incorporated and domiciled in England and Wales, is an indirect subsidiary of JPMorgan Chase Bank, National Association ("JPMorgan Chase Bank, N.A."), a national banking association in the United States of America ("U.S.") and a principal subsidiary of JPMorgan Chase & Co. ("JPMorgan Chase" or the "Firm"). JPMorgan Chase is a financial holding company incorporated under Delaware law in 1968, is a leading global financial services firm and is one of the largest banking institutions in the U.S. with operations worldwide. JPMS plc had \$621 billion in assets and \$42 billion in total shareholder's equity as of 31 December 2017.

### **Principal activity**

The Company is a principal subsidiary of the Firm in the United Kingdom ("UK") and the European Economic Area ("EEA"). The Company engages in international investment banking activity, including activity across Markets, Investor Services and Banking lines of business. Within these lines of business, its activities include underwriting government and corporate bonds, equities and other securities; arranging private placements of debt and convertible securities; trading in debt securities, equity securities, commodities, swaps and other derivatives; providing brokerage and clearing services for exchange traded future and options contracts; lending related activities and providing investment banking advisory services. The Company is a member of over twenty exchanges and various clearing houses, including, among others, LCH Clearnet Limited, LME Clear, Eurex Clearing AG and ICE Clear Europe.

The Company is a UK bank and a EEA Capital Requirements Directive IV ("CRD IV") credit institution, legally defined as an undertaking whose business is to receive deposits or other repayable funds from the public and to grant credits for its own account.

The Company is authorised by the Prudential Regulation Authority ("PRA") and regulated by the PRA and Financial Conduct Authority ("FCA") in the UK. It has branches in Frankfurt, Paris, Milan, Madrid, Stockholm and Zurich. It has Outward Services Passports across the EEA and Outward Branch Passports for the respective branches except Zurich.

### **Review of business**

The directors are satisfied with the performance of the Company with core businesses performing in line with expectations. Despite operating in a highly competitive and complex global environment with continued mixed market conditions and an increasingly complex global environment, results for the year were strong demonstrating the strength and depth of the Company's client franchises. The results further reflect the Company's client focus which allowed businesses to continue to provide investment opportunities to clients through its strength as a market maker, leading to continued profitable results in 2017.

Total assets increased representing the growth in the Company's client franchises with financial assets held for trading (which includes derivatives) and associated collateral up year on year. The Company continued to be well capitalised and met all external capital requirements.

During the year, with a view to enhance governance over the legal entity structure and to simplify the booking models, the risk management of certain businesses of J.P. Morgan Whitefriars LLC was transferred to the Company with a view of supporting the realignment of these dedicated businesses.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Key performance indicators ("KPIs")

The results are monitored against expectations of the business activities. The directors monitor progress on the performance of the Company using various metrics. The primary KPIs are set out below:

Financial performance (in USD '000's except for capital ratios)	2017	2016
<b>Income statement</b>		
Total operating income	7,410,214	7,003,213
Profit on ordinary activities before taxation	3,599,049	3,987,453
Profit for the financial year (after tax)	2,635,459	3,145,644
<b>Balance sheet</b>		
Total assets	620,914,735	569,832,627
<b>Capital ratios (unaudited)</b>		
Common Equity Tier 1	39,877,617	30,133,855
Common Equity Tier 1 ratio ("CET 1")	15.9%	15.1%
Pillar 1 capital ratio	15.9%	18.7%
Regulatory minimum total required capital ratio*	8.0%	8.0%

\* Represents minimum requirements of the European Union's Basel III Capital Requirements Directive and Regulation. The Company's total capital ratio as of 31 December 2017 and 2016 exceeded the minimum requirements, as well as the additional capital requirements in excess of the minimum as specified by the PRA.

#### Income statement

The income statement for the year ended 31 December 2017 is set out on page 41. Total operating income was \$7,410 million for 2017 (2016: \$7,003 million). The results for the Company show a pre-tax profit of \$3,599 million for 2017 (2016: \$3,987 million).

#### Balance sheet

The balance sheet is set out on page 42. The Company has total assets and total liabilities of \$620,915 million (2016: \$569,833 million) and \$579,400 million (2016: \$530,385 million) respectively, as at 31 December 2017.

#### Capital ratios

The Company continues to maintain strong capital ratios. Refer to Risk management section on page 7 for further details.

# **J.P. MORGAN SECURITIES PLC**

## **Strategic report (continued)**

### **Future outlook**

The Company's outlook for the full 2017 year should be viewed against the backdrop of the global economy, financial markets activity, the geopolitical environment, the competitive environment, client activity levels and regulatory and legislative developments in the countries where the Company does business. Each of these inter-related factors will affect the performance of the Company and its lines of business ("LOB's").

#### *Brexit*

On 23 June 2016, the UK voted by referendum to leave the European Union ("Brexit"). The UK Government invoked Article 50 of the Lisbon Treaty on 29 March 2017, starting a two year period for the formal exit negotiations. This means that the UK will leave the EU on 29 March 2019 assuming the timeline is not unanimously extended by the remaining 27 EU Member States ("EU 27") and the UK. Formal negotiations began on 19 June 2017. In December 2017, the EU27 agreed that 'sufficient progress' had been made on the terms of the UK's withdrawal to allow parallel talks on the future relationship, and on 23 March 2018, the European Council announced a political agreement with the UK for a 21-month transition period, and adopted negotiating guidelines on the long-term agreement.

The UK's priorities in negotiating the future relationship are to seek a bilateral free trade agreement with the EU27 that facilitates the 'greatest possible access' to the Single Market, but that the UK will not seek to continue its membership of the Single Market. The current EU position, as set out in Council negotiating directives, is that negotiations will address trade in both goods and services, with the aim of allowing market access under host state rules, but that any future framework should safeguard financial stability in the EU and respect its regulatory and supervisory regime. Formal talks on the broad set of future relationship issues began in early April. On 23 March EU leaders confirmed that a political agreement had been reached with the UK that provisions for a 21-month transition period following Brexit to be included in the Withdrawal Agreement. The Withdrawal agreement will need to be ratified by the UK and European Parliament before the UK's official exit date of 29 March 2019.

Brexit will have significant impact across the Firm's European businesses, including business and legal entity reorganisation. However, the situation remains highly uncertain, including in relation to whether a transition period is secured and whether financial services will be included in any future free trade agreement.

The impact of Brexit on the Company's business model and risks will continue to be assessed as part of the Firmwide strategy in considering a strategic post-Brexit legal entity structure.

In response to the strategic changes which will be required under Brexit, there is potential that migrations of business out of the Company into other EU entities will need to occur. Furthermore, it is possible that some surplus capital resources will be released and could be transferred from the Company to support business transferred into other EU entities. The amount of any such transfers is still to be determined.

### **Regulatory developments**

In the EU, there is an extensive and complex program of final and proposed regulatory enhancement that reflects, in part, the EU's commitments to policies of the Group of Twenty Finance Ministers and Central Bank Governors ("G20") together with other plans specific to the EU. The EU operates a European Systemic Risk Board that monitors financial stability, together with European Supervisory Authorities ("ESAs") that set detailed regulatory rules and encourage supervisory convergence across the EU's Member States. The EU is currently reviewing the ESA framework. The EU has also created a Single Supervisory Mechanism for the euro-zone, under which the regulation of all banks in that zone will be under the auspices of the European Central Bank, together with a Single Resolution Mechanism and Single Resolution Board, having jurisdiction over bank resolution in the zone. At both the G20 and EU levels, various proposals are under consideration to address risks associated with global financial institutions.

The EU is also currently considering or implementing significant revisions to laws covering securities settlement; mutual funds and pensions; payments; anti-money laundering controls; data security and privacy; transparency and disclosure of securities financing transactions; benchmarks; resolution of banks, investment firms and market infrastructures; and capital and liquidity requirements for banks and investment firms.

Consistent with the G20 and EU policy frameworks, UK regulators have adopted a range of policy measures that have significantly changed the markets and prudential regulatory environment in the UK. In addition, UK regulators have introduced measures to enhance accountability of individuals, and promote forward-looking conduct risk identification and mitigation, including by introducing the senior managers and certification regimes.

# **J.P. MORGAN SECURITIES PLC**

## **Strategic report (continued)**

### **Regulatory Developments (continued)**

#### *Recovery and resolution*

On 1 July 2017, the Firm filed with the Board of Governors of the Federal Reserve ("Federal Reserve") and the Federal Deposit Insurance Corporation ("FDIC") (collectively the "agencies") its 2017 Resolution Plan, describing how the Firm remediated the remaining unresolved shortcomings identified by the agencies in April 2016. In December 2017, we received feedback from the agencies on the 2017 Resolution Plan. This feedback concluded that the Firm's 2017 Resolution Plan had no deficiencies and no shortcomings, meaning that the agencies deem the plan to be credible and executable in a crisis.

The Company is considered a material legal entity (as defined in its 2017 Resolution Submission) for the purpose of the Firm's annual Resolution Plan. As noted in the CEO report on page 1, the Firm has taken several steps to address the feedback provided in April 2016 including, among others, the objective to comprehensively reassess the resolvability of the UK subsidiaries, including the Company, and simplify its financial, operational, and structural interconnectedness with JPMorgan Chase undertakings.

#### *Trading and clearing legislation*

In the EU, there have been significant regulatory reforms to give effect to the 2009 G20 policy agenda. This includes European Market Infrastructure Regulation ("EMIR"), which began in 2012 and MiFID II/R, which began on 3 January 2018.

EMIR requires, among other things, the central clearing of certain standardised derivatives and risk mitigation techniques for uncleared OTC ("over-the-counter") derivatives. EMIR is currently being reviewed as part of the European Commission's EMIR Regulatory Fitness and Performance programme ("REFIT") legislative proposal, but this has not yet been finalised. EMIR REFIT proposes to introduce targeted changes to EMIR to streamline the rules and make them less burdensome for certain counterparties.

MiFID II/R gives effect to the G20 commitment to move trading of standardised OTC derivatives to exchanges or electronic trading platforms as well as significantly enhances requirements for pre- and post-trade transparency, clearing, trade and transaction reporting and investor protection, and introduces a commodities position limits and reporting regime. MiFID II/R has introduced expanded requirements for a broad range of investment management activities within their investor protection requirements, including product governance, transparency on costs and charges, independent investment advice, inducements, record keeping and client reporting.

#### *Loss absorbency requirements under the EU Bank Recovery and Resolution Directive*

The EU Bank Recovery and Resolution Directive ("BRRD") and the UK transposition of the Directive established a requirement for the Bank of England ("BoE") to set a minimum requirement for own funds and eligible liabilities ("MREL"). The BoE finalised its policy for setting external MREL in November 2016, which confirmed that the BoE will apply a level of MREL in line with the global Total Loss Absorbing Capacity ("TLAC") standard, including with regards to timing (transitional arrangements will apply from 1 January 2019, with full compliance required by 1 January 2022). TLAC is intended to facilitate the resolution of a financial institution without causing financial instability and without recourse to public funds. The BoE subsequently issued a consultation paper on its proposed approach to setting internal MREL in October 2017 which confirmed that implementation of internal MREL requirements will follow the same timeline as for external MREL. The BoE is expected to finalise its internal MREL policy in 2018, with a view to communicating Firm-specific interim targets ahead of the 1 January 2019 implementation date.

The potential impacts of these requirements on the Company are currently being considered. Once communication of the end state requirement has been provided, the Company will establish plans to ensure compliance with the requirements by the conformance date. In the interim period however, the Company considers compliance with current minimum capital requirements to represent compliance with its transitional MREL.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Regulatory Developments (continued)

#### *Capital Requirements Directive V ("CRD V")/Capital Requirements Regulation 2 ("CRR 2")*

The CRD V/CRR 2 proposal for revised capital and liquidity legislation for banks and investment firms will implement in the EU many of the finalised Basel III capital and liquidity standards, including changes in relation to the leverage ratio, market risk capital, and a stable funding ratio.

The European Council and the European Parliament continue to consider amendments to the European Commission's proposal from November 2016 to amend CRD IV/CRR. The trilogue process is expected to commence in 2018, albeit the date of implementation remains difficult to predict. The proposals also include a transitional provision effectively delaying the implementation of most of the new proposals for a further two years after the formal adoption of the legislation. Thus, a January 2021 start date for the significant capital elements of the proposal seems likely. The changes proposed to the capital framework will require significant preparatory work both in terms of interpretation and implementing the new rules, the proposals of which are discussed below.

- The legislation proposes an intermediate parent undertaking ("IPU") requirement for foreign banks, which will require non-EU banks operating in Europe (with total EU assets >EUR30bn or which are part of a global systemically important banks ("G-SIBs")) to establish a single EU-located IPU. The full impact of the proposal on the Company's operations will be heavily influenced by the outcome of the EU legislative process, including whether any flexibility is introduced to the requirement.
- The Fundamental Review of the Trading Book ("FRTB") overhauls the market risk capital requirements and aims to develop a new trading book framework. The impact on the Company has not been quantified at this stage under these updated proposals.
- Standardised approach to measuring counterparty credit risk exposures ("SA-CCR") includes provisions differentiating between margined and un-margined transactions and improving the capital framework's risk sensitivity. SA-CCR also provides clearer recognition of netting benefits and the degree of volatility in counterparty exposures. In practice, the Company is expected to implement the Internal Model Method ("IMM") approach for a large part of its exposures by the time SA-CCR is implemented, reducing the impact of the latter.
- The leverage ratio was introduced in Basel 3 (and transposed into CRR), as a non-risk based measure of the level of capital held by a firm. It is calculated by assessing Tier 1 capital to Total Exposures. The amendments now mandate a binding ratio, set at 3%, with discretion afforded to national authorities to increase this requirement if they deem necessary. It is not expected that the European implementation of the leverage ratio requirements will be a binding constraint on the Company.
- The Basel Committee recently finalised certain changes to the Basel III framework which includes revisions to the standardised approach to credit risk and operational risk calculation methods. They will affect the Company only once implemented in the EU through changes to the CRD. Note that no firm plans for implementation of these changes have been set out by the EU legislative bodies.

### Risk management

Risk is an inherent part of the Company's business activities. The Company's overall objective is to manage its businesses, and the associated risks, in a manner that balances serving the interests of its clients and customers and protects the safety and soundness of the Company.

JPMorgan Chase's and the Company's risk management framework seeks to mitigate risk and loss to the Firm and Company. The Firm has established processes and procedures intended to identify, measure, monitor, report and analyse the types of risk to which the Firm is subject. However, as with any risk management framework, there are inherent limitations to the Firm's risk management strategies because there may exist, or develop in the future, risks that the Firm has not appropriately anticipated or identified.

Firmwide Risk Management is overseen and managed on an enterprise-wide basis. The Firmwide governance strategy is set by Line of Business ("LOB"). This is supported by global policies and standards to which all staff world-wide are required to adhere to.

Within Europe, the Middle East and Africa ("EMEA"), a regional governance framework incorporates the Firmwide strategy, and the Firm's policies, procedures and LOB structure. This regional framework is thus supplemental and complementary to the global framework and also provides the requisite link between the EMEA legal entities and the LOBs.

At a Company level, the Global Legal Entity Risk framework assigns risk tiers from 1 to 4 to the Firm's significant operating entities across all lines of business, where Tier 1 represents the highest level of risk management oversight required. Core and recommended governance standards have been created for each tier of governance. The Company is considered as Tier 1.

The Company's Board of Directors and its committees maintain oversight of risk management, which is aligned to both the Firm risk management framework and regulatory requirements.

All disclosures in the Risk management section (pages 7 - 24) are unaudited unless otherwise stated.



# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Risk summary

The following table summaries the risks inherent in the Company's business activities.

Risk	Definition
<b>Economic risks</b>	
Capital risk	The risk that the Company has an insufficient level and composition of capital to support the Company's business activities, and associated risks during normal economic environments and stressed conditions.
Credit risk	The risk associated with the default or change in credit profile of a customer.
Country risk	The framework for monitoring and assessing how financial, economic, political or other significant developments adversely affect the value of the Firm's exposures related to a particular country or set of countries.
Liquidity risk	The risk that the Company will be unable to meet its contractual and contingent financial obligations as they arise or that it does not have the appropriate amount, composition and tenor of funding and liquidity to support its assets and liabilities.
Market risk	The risk associated with the effect of changes in market factors, such as interest rates or foreign exchange rates, equity and commodity prices, implied volatilities or credit spreads, on the value of assets and liabilities held for both the short and long term.
Non-U.S. dollar Foreign Exchange ("FX") risk	Non-U.S. dollar FX risk is the risk that changes in foreign exchange rates affect the value of the Company's assets or liabilities or future results.
Structural interest rate risk	The risk resulting from the Company's traditional banking activities (accrual accounted on- and off balance sheet positions) which includes extension of loans and credit facilities, taking deposits and issuing debt (collectively referred to as "non-trading activities").
<b>Other core risks</b>	
Compliance risk	The risk of failure to comply with applicable laws, rules and regulations.
Conduct risk	The risk that any action or inaction by an employee of the Company could lead to unfair client/customer outcome, compromise the Company's reputation, impact the integrity of the markets in which the Company operates, or reflect poorly on the Firm's culture.
Legal risk	The risk of loss primarily caused by the actual or alleged failure to meet legal obligations that arise from the rule of law in jurisdictions in which the Firm and Company operates, agreements with clients and customers and products and services offered by the Company and the Firm.
Model risk	The risk of the potential for adverse consequences from decisions based on incorrect or misused model outputs.
Operational risk	The risk associated with inadequate or failed internal processes, people or systems, or from external events.
Reputation risk	The potential that an action, inaction, transaction, investment or event will reduce trust in the Company and the Firm's integrity or competence by our various constituents, including clients, counterparties, regulators, employees and the broader public.

An overview of the key aspects of risk management is provided below. A detailed description of the policies and processes adopted by the Firm may be found within the JPMorgan Chase & Co. 2017 Annual Report on Form 10-K.

#### Capital risk (audited)

Capital risk is the risk the Company has an insufficient level and composition of capital to support the Company's business activities and associated risks during both normal economic environments and under stressed conditions.

A strong capital position is essential to the Company's business strategy and competitive position. The Firm's capital management strategy focuses on maintaining long-term stability to enable the Firm to build and invest in market-leading businesses, even in a highly stressed environment. Prior to making any decisions on future business activities, senior management considers the implications on the Firm's capital. Accordingly, its Capital Management Framework is designed to ensure that the Company is adequately capitalised at all times in relation to:

- Minimum risk-based regulatory capital requirements (Pillar 1 capital under CRD IV<sup>(a)</sup> plus Pillar 2/Individual Capital Guidance ("ICG") set by the PRA and relevant CRD IV buffers);
- Minimum leverage requirements<sup>(b)</sup> (calculated per the final rules in the Capital Requirements Regulation ("CRR") post the delegated act (October 2014));
- The risks faced by the entities, through regular comparisons of regulatory and internal capital requirements; and
- Senior management's risk appetite expressed, for example, through the application of an internal capital buffer and preferred minimum capital ratios above those prescribed in regulation.

<sup>(a)</sup> CRD IV implemented Basel III in the EU, and came into force on 1 January 2014.

<sup>(b)</sup> Disclosure requirement applicable from 1 January 2015.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Capital risk (audited) (continued)

The framework used to manage capital within the Company is based around a regular cycle of point-in-time capital calculations and reporting, supplemented by forward-looking projections and stress-testing, with corrective action taken as and when required to maintain an appropriate level of capitalisation. Each part of the process is subject to rigorous control, including capital adequacy reporting with daily, weekly, or quarterly frequency to ensure the Company maintains appropriate oversight in line with the Capital environment. Escalation of issues is driven by a framework of specific triggers, set in terms of capital and leverage ratios, movements in those ratios and other measures.

Through the quarterly Internal Capital Adequacy Assessment Process ("ICAAP"), the Company ensures that it is adequately capitalised in relation to its risk profile and appetite, not only as at the ICAAP date, but through the economic cycle and under a range of severe but plausible stress scenarios. The annual 'Reverse stress testing' exercise is used to identify potential, extreme scenarios which might threaten the viability of the Company's business model, so that any required mitigation can be put in place.

The composition of capital of the Company is as follows. All tiers of capital are shown net of applicable deductions.

<b>31 December</b>	<b>2017</b>	<b>2016</b>
	<b>\$'000</b>	<b>\$'000</b>
Common Equity Tier 1 (Equity share capital and reserves)	39,877,617	30,133,855
Other Tier 1 (Preference shares and preferred ordinary shares) (note 24)	—	3,089,899
Tier 2 (Preference shares and subordinated loan) (note 24)	—	4,087,261
<b>Total capital resources</b>	<b>39,877,617</b>	<b>37,311,015</b>
Pillar 1 capital requirement (unaudited)	20,014,406	15,964,475
Excess of total capital resources over Pillar 1 capital requirements (unaudited)	19,863,211	21,346,540
Common Equity Tier 1 ratio ("CET 1") (unaudited)	15.9%	15.1%
Pillar 1 capital ratio (unaudited)	15.9%	18.7%

As of 31 December 2017 and 2016, the Company was adequately capitalised and met all external capital requirements. Capital resources utilised to calculate capital ratios are inclusive of audited current year profits. Additionally, the operational risk requirement included within the Pillar 1 Capital Requirement has been recalculated to incorporate current year net income.

Company information is included as part of the consolidated Pillar 3 disclosures of J.P. Morgan Capital Holdings Limited made available on the Firm's website in accordance with Part Eight of the European Capital Requirements Regulation. These are published on an annual basis or more frequently where the Firm has assessed a further need to do so under the guidelines (EBA/ GL/2014/14) set out by the EBA. These disclosures are not subject to external audit.

#### Credit risk (audited)

Credit risk is the risk associated with the default or change in credit profile of a client, counterparty or customer. Credit risk management is an independent risk management function that monitors, measures and manages credit risk throughout the Firm and defines credit risk policies and procedures. The credit risk function reports to the Firm's Chief Risk Officer ("CRO").

The Company is exposed to credit risk through its underwriting, lending, market-making, capital markets and hedging activities with and for clients and counterparties, as well as through its operating services activities (such as clearing activities), securities financing activities, investment securities portfolio, and cash internally swept to other group entities. Whilst the Firm has established a comprehensive Firmwide risk policy framework, this is supplemented as required by legal entity-specific risk policies. As such, the Company's Credit Risk Management policy supplements the Firmwide risk policy framework and is approved by the Company's Board and Board of Directors' Risk Policy Committee ("DRPC").

#### *Risk identification and measurement*

The Credit Risk Management function monitors, measures, manages and limits credit risk across the Firm's businesses. To measure credit risk, the Firm employs several methodologies for estimating the likelihood of obligor or counterparty default. Methodologies for measuring credit risk vary depending on several factors, including type of asset, risk measurement parameters, and risk management and collection processes. Credit risk measurement is based on the probability of default of an obligor or counterparty, the loss severity given a default event and the exposure at default.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Credit risk (audited) (continued)

For the Company's portfolio, credit loss estimates are based on estimates of the probability of default ("PD") and loss severity given a default. The probability of default is the likelihood that a borrower will default on its obligation; the loss given default ("LGD") is the estimated loss on the loan that would be realised upon the default and takes into consideration collateral and structural support for each credit facility. The estimation process includes assigning risk ratings to each borrower and credit facility to differentiate risk within the portfolio. These risk ratings are reviewed regularly by Credit Risk Management and revised as needed to reflect the borrower's current financial position, risk profile and related collateral. The calculations and assumptions are based on both internal and external historical experience and management judgment and are reviewed regularly.

#### Stress testing

Stress testing is important in measuring and managing credit risk in the Company's credit portfolio. The process assesses the potential impact of alternative economic and business scenarios on estimated credit losses for the Firm. Economic scenarios and the underlying parameters are defined centrally, articulated in terms of macroeconomic factors and applied across the businesses. The stress test results may indicate credit migration, changes in delinquency trends and potential losses in the credit portfolio. In addition to the periodic stress testing processes, management also considers additional stresses outside these scenarios, including industry and country specific stress scenarios, as necessary. The Firm uses stress testing to inform decisions on setting risk appetite both at a Firm and Company level, as well as to assess the impact of stress on individual counterparties.

#### Risk monitoring and management

The Company is subject to the policies and practices developed by the Firm. The policy framework establishes credit approval authorities, concentration limits, risk-rating methodologies, portfolio review parameters and guidelines for management of distressed exposures. In addition, certain models, assumptions and inputs used in evaluating and monitoring credit risk are independently validated by groups that are separate from the line of businesses.

Credit risk is monitored regularly at an aggregate portfolio, industry, and individual client and counterparty level with established concentration limits that are reviewed and revised as deemed appropriate by management, typically on an annual basis. Industry and counterparty limits, as measured in terms of exposure and economic risk appetite, are subject to stress-based loss constraints. In addition, wrong-way risk (the risk that exposure to a counterparty is positively correlated with the impact of a default by the same counterparty, which could cause exposure to increase at the same time as the counterparty's capacity to meet its obligations is decreasing) is actively monitored as this risk could result in greater exposure at default compared with a transaction with another counterparty that does not have this risk.

Management of the Firm's credit risk exposure is accomplished through a number of means, including:

- Loan underwriting and credit approval process
- Loan syndications and participations
- Loan sales and securitisations
- Credit derivatives
- Master netting agreements
- Collateral and other risk-reduction techniques

#### Risk reporting

To enable monitoring of credit risk and effective decision making by the Company, aggregate credit exposure, concentration levels and risk profile changes are reported regularly to senior members of Credit Risk Management. Detailed portfolio reporting of industry; clients, counterparties and customers; product and geographic concentrations occurs monthly, and the appropriateness of the allowance for credit losses is reviewed by senior management at least on a quarterly basis. Through the risk reporting and governance structure, credit risk trends and limit exceptions are provided regularly to, and discussed with, risk committees, senior management and the Board of Directors as appropriate.

#### Credit risk exposures (audited)

The table below presents the Company's total balance sheet exposure and net exposure to financial assets after taking account of certain risk mitigants. Gross balance sheet exposure is reported on a net-by-counterparty basis for derivatives and securities purchased under agreements to resell when the legal right and intention of offset exists under an enforceable netting agreement as required under IAS 32 'Financial Instruments: Presentation' ("IAS 32"). Net exposure is presented after taking account of assets which are primarily exposed to market risk, enforceable master netting agreements (where the offsetting criteria under IAS 32 is not met) and the value of collateral received in respect of financial assets.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Credit risk exposures (audited) (continued)

	Gross balance sheet exposure <sup>(a)</sup>	Assets captured by market risk	Master netting agreements and other	Cash & security collateral <sup>(b)</sup>	Net exposure after risk mitigants	Net balance sheet exposure held with:	
						JPMorgan Chase undertakings	External counter parties
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>At 31 December 2017</b>							
<b>Financial assets:</b>							
Cash and balances at central banks	21,677,066	—	—	—	21,677,066	—	21,677,066
Loans and advances to banks	9,812,066	—	—	—	9,812,066	7,071,710	2,740,356
Loans and advances to customers <sup>(c)</sup>	2,612,322	—	—	(982,674)	1,629,648	—	1,629,648
Securities purchased under agreements to resell <sup>(d)</sup>	135,385,611	—	(11,525,344)	(114,161,493)	9,698,774	1,143,293	8,555,481
Securities borrowed <sup>(d)</sup>	27,072,599	—	(9,100,106)	(15,846,294)	2,126,199	251,848	1,874,351
Financial assets held for trading	340,258,613	(107,884,895)	(190,867,129)	(24,340,531)	17,166,058	—	17,166,058
Financial assets designated at fair value through profit or loss	341,602	(341,602)	—	—	—	—	—
Debtors	79,646,622	—	—	—	79,646,622	43,282,339	36,364,283
Accrued income	652,028	—	—	—	652,028	107,668	544,360
<b>Total<sup>(e)</sup></b>	<b>617,458,529</b>	<b>(108,226,497)</b>	<b>(211,492,579)</b>	<b>(155,330,992)</b>	<b>142,408,461</b>	<b>51,856,858</b>	<b>90,551,603</b>

	Gross balance sheet exposure <sup>(a)</sup>	Assets captured by market risk	Master netting agreements and other	Cash & security collateral <sup>(b)</sup>	Net exposure after risk mitigants	Net balance sheet exposure held with:	
						JPMorgan Chase undertakings	External counter parties
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>At 31 December 2016</b>							
<b>Financial assets:</b>							
Cash and balances at central banks	20,597,168	—	—	—	20,597,168	—	20,597,168
Loans and advances to banks	6,123,936	—	—	—	6,123,936	4,277,086	1,846,850
Loans and advances to customers <sup>(c)</sup>	3,100,053	—	—	(497,148)	2,602,905	—	2,602,905
Securities purchased under agreements to resell <sup>(d)</sup>	130,416,852	—	(6,449,414)	(119,614,194)	4,353,244	731,500	3,621,744
Securities borrowed <sup>(d)</sup>	25,831,106	—	(17,174,407)	(6,518,661)	2,138,038	607,801	1,530,237
Financial assets held for trading	323,045,808	(89,327,429)	(200,311,833)	(19,626,339)	13,780,207	—	13,780,207
Financial assets designated at fair value through profit or loss	315,659	(315,659)	—	—	—	—	—
Debtors	56,473,025	—	—	—	56,473,025	24,830,586	31,642,439
Accrued income	447,989	—	—	—	447,989	29,341	418,648
<b>Total<sup>(e)</sup></b>	<b>566,351,596</b>	<b>(89,643,088)</b>	<b>(223,935,654)</b>	<b>(146,256,342)</b>	<b>106,516,512</b>	<b>30,476,314</b>	<b>76,040,198</b>

(a) Of the above on-balance sheet assets, \$226,720 million (2016: \$215,545 million) is held with other JPMorgan Chase undertakings. For further details of these amounts by line item category, refer to the notes to the financial statements.

(b) Cash and security collateral received in respect of financial assets held for trading is limited to net balance sheet exposure, after taking account of master netting and other arrangements.

(c) The net balance sheet exposure on loans and advances to customers is presented without taking into account credit risk mitigants such as financial guarantees.

(d) The fair value of the security collateral in respect of securities financing transactions is, in aggregate, greater than the net amounts reported on balance sheet, and therefore, the related amounts included as cash and security collateral have been limited to the inclusion of collateral to the extent of the net amount by counterparty.

(e) Off balance sheet exposure consists of lending commitments of \$20,455 million (2016: \$15,307 million). Refer to note 27.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Credit risk exposures (audited) (continued)

The Company's credit exposures and credit risk mitigants are further described below:

##### Cash and balances at central banks

Cash and balances with central banks include interest-bearing deposits. These are with investment grade institutions.

##### Loans and advances to banks

The Company places substantially all of its deposits with banks, which are of investment grade to mitigate credit risk exposure.

##### Loans and advances to customers

The table below presents the Company's credit exposure and maturity profile to gross loans and advances to customers before any provision for impairment. The ratings scale is based on the Firm's internal risk ratings, which generally correspond to the ratings as defined by S&P and Moody's Investors Service.

<b>Maturity and ratings profile</b>	<b>2017</b>	<b>2016</b>
	<b>\$'000</b>	<b>\$'000</b>
<b>Maturity</b>		
5 years or more	61,004	90,210
5 years or less but over 1 year	1,995,490	2,790,360
1 year or less but over 3 months	597,257	165,643
3 months or less	59,766	56,573
<b>Total</b>	<b>2,713,517</b>	<b>3,102,786</b>
<b>Rating profile</b>		
Investment grade (AAA/Aaa to BBB-/Baa3)	955,165	1,701,998
Sub-investment grade (BB+/Ba1 & below)	1,758,352	1,400,788
<b>Total</b>	<b>2,713,517</b>	<b>3,102,786</b>

#### *Analysis of concentration credit risk*

Concentrations of credit risk arise when a number of customers are engaged in similar business activities or activities in the same geographic region, or when they have similar economic features that would cause their ability to meet contractual obligations to be similarly affected by changes in economic conditions.

<b>Credit risk concentration</b>	<b>2017</b>	<b>2016</b>
	<b>\$'000</b>	<b>\$'000</b>
<b>Geographic region</b>		
United Kingdom	152,758	81,067
Other European	1,883,726	2,522,432
Rest of the world	677,033	499,287
<b>Total</b>	<b>2,713,517</b>	<b>3,102,786</b>
<b>Industry concentration</b>		
Commercial and industrial	1,416,130	1,991,138
Real estate	511,834	726,191
Financial institutions	522,859	83,154
Other	262,694	302,303
<b>Total</b>	<b>2,713,517</b>	<b>3,102,786</b>

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Credit risk exposures (audited) (continued)

##### Loans and advances to customers (continued):

The table below presents the Company's impaired loans.

	2017	2016
	\$'000	\$'000
<b>Impaired loans</b>		
Non-impaired loans	2,265,214	3,073,997
Impaired loans	318,319	26,056
Provision for impairment	129,984	2,733
	<b>2,713,517</b>	<b>3,102,786</b>

##### Securities purchased under agreements to resell and securities borrowed

The Company generally bears credit risk related to resale agreements and securities borrowed where cash advanced to the counterparty exceeds the expected value of the collateral received on default. The Company's credit exposure on these transactions is therefore significantly lower than the amounts recorded on the balance sheet, which for the substantial majority represent contractual value before consideration of any collateral received. The Company also has a potential credit exposure on repurchase agreements and securities loaned, which are liabilities on its balance sheet, to the extent that the value of collateral pledged to the counterparty for these transactions exceeds the amount of cash or collateral received.

##### Financial assets held for trading

Debt and equity instruments are primarily exposed to market risk and are therefore deducted to determine the net credit risk exposure. Derivatives are reported at fair value on a gross by counterparty basis in the Company's financial statements unless the Company has current legal right of set-off and also intends to settle on a net basis. The majority of the credit risk exposure is mitigated by cash collateral, margin arrangements and enforceable master netting arrangements. The counterparty credit risk on the derivative portfolio is generally mitigated by arrangements provided to the Company by JPMorgan Chase Bank N.A..

##### Financial assets designated at fair value through profit and loss

Financial assets designated at fair value through profit or loss represent unlisted equity securities and loans. These are both primarily exposed to market risk and are therefore deducted to determine net credit risk exposure.

##### Debtors and other assets

The Company is exposed to credit risk from its debtors through its amounts due from brokers/dealers, customers and JPMorgan Chase undertakings. These primarily comprise receivables related to cash collateral paid to counterparties in respect of derivative financial instruments. In addition, these balances also include receivables related to sales of securities which have traded, but not yet settled. These receivables generally have minimal credit risk due to the low probability of clearing organisation default and failure to deliver, the short-term nature of receivables related to securities settlements which are predominately on a delivery versus payment basis.

### Country risk

The Firm has a country risk management framework for monitoring and assessing how financial, economic, political or other significant developments adversely affect the value of the Firm's exposures related to a particular country or set of countries. The Country Risk Management group actively monitors the various portfolios which may be impacted by these developments to ensure the Firm's and Company's exposures are diversified and that exposure levels are appropriate given the Firm and Company's strategy and risk tolerance relative to a country.

#### *Country risk organisation and management*

Country Risk Management is an independent risk management function that assesses, manages and monitors country risk originated across the Firm. The Firmwide Risk Executive for Country Risk reports to the Firm's CRO. The Firm's country risk Management function includes the following activities:

- Establishing policies, procedures and standards consistent with a comprehensive country risk framework
- Assigning sovereign ratings and assessing country risks and establishing risk tolerance relative to a country
- Measuring and monitoring country risk exposure and stress across the Firm
- Managing and approving country limits and reporting trends and limit breaches to senior management
- Developing surveillance tools, such as signalling models and ratings indicators for early identification of potential country risk concerns
- Providing country risk scenario analysis

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Country risk (continued)

##### *Country risk sources and measurement*

The Firm and Company are exposed to country risk through their lending and deposits, investing, and market-making activities, whether cross-border or locally funded. Country exposure includes activity with both government and private-sector entities in a country. Under the Firm's internal country risk management approach, country exposure is reported based on the country where the majority of the assets of the obligor, counterparty, issuer or guarantor are located or where the majority of its revenue is derived, which may be different than the domicile (legal residence) or country of incorporation of the obligor, counterparty, issuer or guarantor. Country exposures are generally measured by considering the Firm's and Company's risk to an immediate default of the counterparty or obligor, with zero recovery. Assumptions are sometimes required in determining the measurement and allocation of country exposure, particularly in the case of certain non-linear or index exposures. The use of different measurement approaches or assumptions could affect the amount of reported country exposure.

Under the Firm's internal country risk measurement framework used by the Company:

- Lending exposures are measured at the total committed amount (funded and unfunded), net of the allowance for credit losses and cash and marketable securities collateral received
- Deposits are measured as the cash balances placed with central and commercial banks
- Securities financing exposures are measured at their receivable balance, net of collateral received
- Debt and equity securities are measured at the fair value of all positions, including both long and short positions
- Counterparty exposure on derivative receivables is measured at the derivative's fair value, net of the fair value of the related collateral. Counterparty exposure on derivatives can change significantly because of market movements
- Credit derivatives protection purchased and sold is reported based on the underlying reference entity and is measured at the notional amount of protection purchased or sold, net of the fair value of the recognised derivative receivable or payable. Credit derivatives protection purchased and sold in the Firm's market making activities is measured on a net basis, as such activities often result in selling and purchasing protection related to the same underlying reference entity; this reflects the manner in which the Firm manages these exposures

Some activities may create contingent or indirect exposure related to a country (for example, providing clearing services or secondary exposure to collateral on securities financing receivables). These exposures are managed in the normal course of business through the Firm's and Company's credit, market, and operational risk governance, rather than through Country Risk Management.

##### *Country risk stress testing*

Stress testing is an important component of the Firm's country risk management framework, which aims to estimate and limit losses arising from a country crisis by measuring the impact of adverse asset price movements to a country based on market shocks combined with counterparty specific assumptions. Country Risk Management periodically designs and runs tailored stress scenarios to test vulnerabilities to individual countries, or group of countries, in response to specific or potential market events, sector performance concerns and geopolitical risks.

##### *Country risk reporting*

The Company's top five country exposures as of 31 December 2017 are the United Kingdom, Spain, France, Belgium and Germany. The selection of countries represent the Company's largest total exposures by country, based on the Firm's internal country risk management approach, and does not represent the Firm's view of any actual or potentially adverse credit conditions. Country exposures may fluctuate from period to period due to client activity and market flows.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Liquidity risk (audited)

Liquidity risk is the risk that the Company will be unable to meet its contractual and contingent financial obligations as they arise or that it does not have the appropriate amount, composition and tenor of funding and liquidity to support its assets and liabilities.

#### *Liquidity risk oversight*

The Firm has a liquidity risk oversight function whose primary objective is to provide assessment, measurement, monitoring, and control of liquidity risk across the Firm. Liquidity risk oversight is managed through a dedicated Firmwide Liquidity Risk Oversight group. The Chief Investment Office ("CIO"), Treasury, and Corporate Chief Risk Officer ("CTC CRO"), who reports to the Firm's CRO, as part of the independent risk management function, is responsible for Firmwide Liquidity Risk Oversight. Liquidity Risk Oversight's responsibilities include:

- Establishing and monitoring limits, indicators, and thresholds, including liquidity risk appetite tolerances;
- Monitoring internal Firmwide and material legal entity stress tests, and monitoring and reporting regulatory defined liquidity stress testing;
- Approving or escalating for review liquidity stress assumptions;
- Monitoring liquidity positions, balance sheet variances and funding activities; and
- Conducting ad hoc analysis to identify potential emerging liquidity risks.

The Company leverages the Firmwide risk framework.

#### *Liquidity management*

Treasury and CIO are responsible for liquidity management. The primary objectives of effective liquidity management are to:

- Ensure that the Firm's core businesses and material legal entities are able to operate in support of client needs and meet contractual and contingent obligations through normal economic cycles as well as during stress events; and
- Manage an optimal funding mix, and availability of liquidity sources.

The Firm manages liquidity and funding using a centralised, global approach across its entities, taking into consideration both their current liquidity profile and any potential changes over time, in order to optimise liquidity sources and uses.

In the context of the Firm's liquidity management, the Treasury and CIO is responsible for:

- Analysing and understanding the liquidity characteristics of the Firm, lines of business and legal entities' assets and liabilities, taking into account legal, regulatory, and operational restrictions;
- Developing internal liquidity stress testing assumptions;
- Defining and monitoring Firmwide and legal entity-specific liquidity strategies, policies, guidelines, reporting and contingency funding plans;
- Managing liquidity within approved liquidity risk appetite tolerances and limits;
- Managing compliance with regulatory requirements related to funding and liquidity risk; and
- Setting transfer pricing in accordance with underlying liquidity characteristics of balance sheet assets and liabilities as well as certain off-balance sheet items.

The Company is regulated by the PRA and, from 1 October 2015, was expected to comply with the liquidity coverage ratio ("LCR") guidance set out in the Delegated Act (Commission delegated regulation (EU) 2015/61). The LCR is intended to measure the amount of "high quality liquid assets" ("HQLA") held by the Company in relation to estimated net liquidity outflows within a 30 calendar day stress period. The LCR was required to be 80% at 1 October 2015, rising to 90% on 1 January 2017 until reaching the 100% minimum by 1 January 2018. At 31 December 2017, the Company was compliant with the fully phased-in LCR.

The Basel Committee final standard for net stable funding ratio ("Basel NSFR") is intended to measure the "available" and "required" amounts of stable funding over a one-year horizon. On 23 November 2016, the European Commission introduced its legislative proposal for the NSFR ("EU NSFR"), amending Regulation (EU) No 575/2013. The proposal is subject to approval from the European Parliament and Council of the EU. The Company is expected to comply with the EU NSFR at a level of 100% two years after the date of entry into force of the proposed regulation, as is permitted.

A regular internal assessment of the liquidity risk management framework is performed which informs the directors of the liquidity risks resulting from business activities in addition to the current and future funding needs of the Company.



# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Liquidity risk (audited) (continued)

##### *Risk governance and measurement*

Specific committees responsible for liquidity governance include the Firmwide Asset Liability Committee ("ALCO"), as well as line of business and regional ALCOs, Treasury and Corporate ("CTC") Risk Committee; and the Company's Directors' Risk Policy Committee ("DRPC") and EMEA Risk Committee.

##### *Internal stress testing*

Liquidity stress tests are intended to ensure that the Company has sufficient liquidity under a variety of adverse scenarios, including scenarios analysed as part of the Firm's resolution and recovery planning. Stress scenarios are produced for the Company on a regular basis and ad hoc stress tests are performed, as needed, in response to specific market events or concerns. Liquidity stress tests assume all of the Company's contractual financial obligations are met and take into consideration:

- Varying levels of access to unsecured and secured funding markets;
- Estimated non-contractual and contingent cash outflows; and
- Potential impediments to the availability and transferability of liquidity between jurisdictions and material legal entities such as regulatory, legal or other restrictions.

Liquidity outflow assumptions are modelled across a range of time horizons and currency dimensions and contemplate both market and idiosyncratic stress.

Results of stress tests are considered in the formulation of the Company's funding plan and assessment of its liquidity position.

Liquidity risk stress testing is established at the Firm and material legal entity level. The Company's liquidity stress testing is incorporated within the JPMorgan Chase legal entity liquidity risk framework and follows Firmwide liquidity assumptions, with additional considerations for intercompany positions and the definition of local liquid asset buffer.

##### *Contingency funding plan*

The Firm's contingency funding plan ("CFP") is approved by the Firmwide ALCO and the DRPC. The Company's addendum to the CFP is approved by the JPMS plc DRPC and the Board. The CFP and the addendum is a compilation of procedures and action plans for managing liquidity through stress events. The CFP and the addendum incorporate the limits and indicators set by the Liquidity Risk Oversight group. These limits and indicators are reviewed regularly to identify the emergence of risks or vulnerabilities in the Company's liquidity position. The CFP identifies the alternative contingent funding and liquidity resources available to the Company in a period of stress.

##### *Funding*

The Company's sources of short-term secured funding primarily consist of securities loaned or sold under agreements to repurchase. Securities loaned or sold under agreements to repurchase are secured predominantly by high-quality securities collateral, including government-issued debt, agency debt and agency mortgage-backed securities ("MBS"), and constitute a significant portion of the federal funds purchased and securities loaned or sold under repurchase agreements. The directors believe that the Company's unsecured and secured funding capacity is sufficient to meet its on and off-balance sheet obligations.

##### *Credit ratings*

The Company is rated on a standalone non-guaranteed basis, independent credit ratings agencies Moody's Investors Service, Standard & Poor's and Fitch Ratings have rated the Company as 'A1/P-1', 'A+/A-1' and 'AA-/F1+' respectively. On 1 June 2017, JPMorgan Chase Bank, N.A. terminated its guarantee of the payment of all obligations of the Company, whose credit ratings previously reflected the benefit of this guarantee.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Liquidity risk (audited) (continued)

The table below presents the maturity details of all financial liabilities. Financial liabilities held for trading and financial liabilities designated at fair value through profit and loss have been disclosed at their fair values, consistent with how these financial liabilities are managed. Amounts greater than one year represent undiscounted cash flows. Due to the nature and contractual maturity of all other financial liabilities they are presented at the carrying amount, which is not materially different to the undiscounted cash flow.

	Less than 1 year 2017 \$'000	More than 1 year 2017 \$'000	Total 2017 \$'000	Less than 1 year 2016 \$'000	More than 1 year 2016 \$'000	Total 2016 \$'000
Securities sold under agreements to repurchase	74,937,158	—	74,937,158	61,127,630	529,641	61,657,271
Securities loaned	12,550,040	—	12,550,040	20,133,325	—	20,133,325
Financial liabilities held for trading	308,288,068	—	308,288,068	293,525,746	—	293,525,746
Financial liabilities designated at fair value through profit or loss	222,283	1,242,964	1,465,247	—	—	—
Trade creditors	30,479,035	—	30,479,035	29,755,510	—	29,755,510
Amounts owed to JPMorgan Chase undertakings	83,225,471	41,105,000	124,330,471	60,000,153	39,493,650	99,493,803
Other liabilities	25,271,893	—	25,271,893	23,844,456	—	23,844,456
	534,973,948	42,347,964	577,321,912	488,386,820	40,023,291	528,410,111

The majority of short term funding transactions by way of repurchase agreements and stock lending have short-dated maturities, typically less than one month. Trade creditors predominantly includes unsettled trades and other liabilities includes cash collateral received. Both have short-dated maturities. Financial liabilities designated at fair value through profit or loss represent a long term margin loan. Financial liabilities held for trading primarily include derivatives and short positions and are ordinarily classified as liabilities falling due within one year for the purpose of disclosure under IFRS 7 'Financial Instruments: Disclosures'.

#### Market risk (audited)

Market risk is the exposure to an adverse change in the market value of financial instruments caused by a change in market parameters. The primary categories of market parameters are:

- **Interest rates** - Interest rate risk primarily results from exposure to changes in the level, slope and curvature of the yield curve and the volatility of interest rates, and mortgage prepayment rates;
- **Foreign exchange rates** - Foreign exchange rate risk results from exposure to changes in prices and volatility of currency rates;
- **Equity prices** - Equity price risk arises from exposure to changes in prices and volatility of individual equities, equity baskets and equity indices;
- **Credit spreads** - Credit spreads are the difference between yields on corporate debt subject to default risk and government bonds; and
- **Commodity prices** - Commodity price risk results from exposures to changes in prices and volatility of commodities, such as natural gas, crude oil, petroleum products, precious and base metals and electricity.

#### Market risk management

The Firmwide Risk Executive Market Risk ("FRE") and LOB Chief Risk Officers ("CROs") are responsible for establishing an effective market risk organisation at the Firm level. The FRE and LOB Heads of Market Risk establish the framework to measure, monitor and control market risk within the Firm.

The Market Risk function is scaled and organised according to the amount and complexity of market risk arising from the business activity. Market risk management may be the responsibility of a dedicated Market Risk group or may be performed as part of the broader Risk Management function.

In addition to the Risk Governance framework detailed in the Risk Governance policy, additional senior Market Risk management risk oversight within the Firm is provided via the Firmwide Market Risk Forum and Market Risk Control forum which typically convene monthly.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Market risk (audited) (continued)

##### *Market risk management (continued)*

Company specific market risk governance is established in the Company's market risk policy, additional risk oversight is provided through the following committees:

- EMEA Risk Committee ("ERC"): The ERC provides oversight of the risks inherent in the Firm's business conducted or booked into EMEA entities and EMEA branches of ex-EMEA firms. As part of the risk governance the ERC receives information on the Company's headline exposures, Value-at risk ("VaR"), stress, core risks, Single Name Position Risk ("SNPR") exposures, limit breaches and approvals. The ERC, which convenes at least monthly, receives updates from sub-committees and any other items which require escalation.
- UK Market Risk Committee ("UK MRC"): The Company risk profile and market risk related items are reviewed and discussed at the UK MRC, which is a sub-committee of the ERC. The UK MRC convenes monthly and is attended by market risk representatives from each LOB, with invitation extended to other risk related groups as appropriate. Items covered include risk analysis on topical market events that could result in material losses for the Company, and significant items related to market risk methodology matters e.g. stress testing methodology changes. LOB representatives provide risk updates in relation to significant changes to legal entity specific risk profiles.

##### *Market risk measurement*

Multiple measures are used to capture market risk and set limits as appropriate. These measures include, but are not limited to, VaR, stress testing, non-statistical measures, profit & loss ("P&L") drawdowns/loss advisories and SNPR. As the appropriate set of risk measures utilised for a given business activity depends on business mandate, risk horizon, materiality, market volatility and other factors, not all measures are used in all cases.

##### *VaR*

The Firm utilises VaR, a statistical risk measure, to estimate the potential loss from adverse market moves in the current market environment. The Firm has a single VaR framework used as a basis for calculating Risk Management VaR and Regulatory VaR. The Company utilises the Firm's VaR methodology and considers local regulations and processes on the application of these Firmwide standards on VaR monitoring and calculation.

The framework is employed across the Firm (inclusive of the Company) using historical simulation based on data for the previous 12 months. The framework's approach assumes that historical changes in market values are representative of the distribution of potential outcomes in the immediate future. The Firm believes the use of Risk Management VaR provides a stable measure of VaR that closely aligns to the day-to-day risk management decisions made by the lines of business, and provides the necessary and appropriate information needed to respond to risk events on a daily basis.

Risk Management VaR assumes a one-day holding period and an expected tail-loss methodology which approximates a 95% confidence level. VaR provides a consistent framework to measure risk profiles and levels of diversification across product types and is used for aggregating risks across businesses and monitoring limits. The Company's VaR results are reported to the Company's senior management, Chief Executive Officer ("CEO"), CRO, Market Risk Officer ("MRO") and at the relevant risk governance committees.

The Firm's VaR model calculations are periodically evaluated and enhanced in response to changes in the composition of the Firm's portfolios, changes in market conditions, improvements in the Firm's modelling techniques and other factors. Such changes may also affect historical comparisons of VaR results. Model changes undergo a review and approval process by the Model Review Group prior to implementation into the operating environment. The Firm's model governance, enhancements and the results from model review are cascaded down to the Company level.

The Firm calculates separately a daily aggregated VaR in accordance with regulatory rules ("Regulatory VaR"), which is used to derive the Firm's Regulatory VaR-based capital requirements under Basel III. This Regulatory VaR model framework currently assumes a ten business-day holding period and an expected tail loss methodology which approximates a 99% confidence level. Regulatory VaR is applied to "covered" positions as defined by Basel III, which may be different than the positions included in the Firm's Risk Management VaR.

Monitoring of Regulatory VaR was introduced for the Company as part of its application to utilise VaR for calculation of model based regulatory capital under the Internal Models Approach. As with the Firmwide approach (outlined above), the Company specific regulatory VaR metric, VaR Based Measure ("VBM"), assumes a 10 day holding period under a 99% confidence interval. In addition to the Regulatory VaR, which models the impact from General Risk, VBM further incorporates impact from Specific Risk.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Market risk (audited) (continued)

##### *VaR (continued)*

While VBM models the VaR based impact from adverse market moves under current market environment, monitoring of impacts under stressed markets are monitored as Stressed VBM ("SVBM"). Monitoring of these measures is achieved through specific risk reports in daily/weekly distributions.

##### *Stress testing*

Along with VaR, stress testing is an important tool in measuring and controlling risk. While VaR reflects the risk of loss due to adverse changes in markets using recent historical market behaviour as an indicator of losses, stress testing is intended to capture the Firm's and Company's exposure to unlikely but plausible events in abnormal markets. Both the Firm and the Company run weekly stress tests on market-related risks across the lines of business using multiple scenarios that assume significant changes in risk factors such as credit spreads, equity prices, interest rates, currency rates or commodity prices.

The Company uses a number of standard scenarios defined at the Firm level that capture different risk factors across asset classes including geographical factors, specific idiosyncratic factors and extreme tail events. The stress testing framework calculates multiple magnitudes of potential stress for both market rallies and market sell-offs for each risk factor and combines them in multiple ways to capture different market scenarios. For example, certain scenarios assess the potential loss arising from current exposures held by the Company due to a broad sell off in bond markets or an extreme widening in corporate credit spreads. The flexibility of the stress testing framework allows risk managers to construct new, specific scenarios that can be used to form decisions about future possible stress events. The stress testing framework is known as Firmwide Stress Infrastructure ("FSI"), established at the Firmwide level, and is a risk management tool that simulates changes to the prices of trading assets across a range of economic and market scenarios. It is used to measure the Company's vulnerability to losses under a range of stressed but plausible market environments and to understand the risk factors and assets responsible for those losses. In addition to the FSI scenarios, the Company defines bespoke scenarios which are designed to severely stress the Company's specific vulnerabilities and concentrations.

##### *Non-statistical risk measures*

Non-statistical risk measures include sensitivities to variables used to value positions, such as credit spread sensitivities, interest rate basis point values and market values. These measures provide granular information on the Firm's market risk exposure. They are aggregated by LOB and by risk type, and are also used for monitoring internal market risk limits.

##### *P&L Drawdowns/ Loss advisories*

P&L drawdowns and loss advisories are tools used to highlight trading losses above certain levels of risk tolerance. P&L drawdowns are defined as the decline in net profit and loss since the year-to-date peak revenue level.

##### *SNPR*

SNPR captures exposures to credit families (and entities within credit families) or standalone issuer/issuers families not part of credit families, assuming default of the issuer with zero recovery.

The Company follows a similar approach to the Firm's SNPR framework, with specific governance and approval aspects recorded in the Company's specific procedure documents, reviewed annually by the Company's Board. Limit approvals for SNPR limit changes in the Company are provided by the SNPR Lead Executive and other pre-designated Company Market Risk senior management.

##### *Risk monitoring and control*

Market risk is controlled primarily through a series of limits, established at both the Firm and the Company level, set in the context of the market environment and business strategy. In setting limits, the Company takes into consideration factors such as market volatility, product liquidity and accommodation of client business and management experience. The Company maintains different level of limits. Company level limits include VaR and Stress limits, which are under the governance and ownership of the Company's Board. As per policy/procedure guidance, the Company's Board can delegate its approval authority to the Company's CEO, CRO and MRO. Similarly, LOB limits, maintained at the Company, are established across VaR, Stress and Non-statistical measures and have pre-designated Business Heads and LOB Market Risk leads, as signatories.

Market Risk reviews Company level market risk limits at least semi-annually. Limit reviews appropriately consider the underlying trading, investing and hedging strategies of the business, along with the limit utilisation. If peak utilisation is less than 50% during a six month lookback period, the limit is either reduced or rationale for maintaining the limit at that level is documented.

Additional controls exist at the Firm level e.g. Authorised Instruments and LOB Pre-trade Transaction Guidelines. While these controls are operational at the Firm level, monitoring of activity and control breaches allows transparency at the Company level.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Market risk (audited) (continued)

The table below shows the result of the Company's risk management VaR measures using a 95% confidence level.

	2017			2016			At 31 December	
	Avg.	Min	Max <sup>(a)</sup>	Avg.	Min	Max <sup>(b)</sup>	2017	2016
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
95 % VaR	17,033	10,627	49,406	18,958	14,675	45,782	17,876	17,826

<sup>(a)</sup> Maximum VaR (\$49.4 million) for 2017 was driven by a failed risk transfer process within the Global Commodities business which was resolved the next day. There was no breach at Firmwide level due to offsetting exposure within another JPMorgan Chase undertaking.

<sup>(b)</sup> Maximum VaR (\$45.7 million) for 2016 was driven by a transaction booked within JPMS plc with offsetting risk booked in another JPMorgan Chase legal entity resulting in overall zero net risk across the Firm. Subsequently, JPMS plc booked an inter-entity hedge to bring JPMS plc's VaR back to normal utilisation levels.

The Company's market risk profile is net long risk across fixed income assets, commodities, local currency/short U.S. dollar foreign exchange markets and equity exposure. Fixed income positions drive the risk and these are generally held in cash securities across developed, emerging and securitised products markets. Out of the eleven macro stress scenarios that the Company is subject to, the worst case stress loss during 2017 was primarily driven by the Credit Crisis scenario which models the extent and severity across a broad range of asset classes.

#### Non-U.S. dollar foreign exchange ("FX") risk

Non-U.S. dollar FX risk is the risk that changes in foreign exchange rates affect the value of the Company's assets or liabilities or future results.

The Company does not have material risks associated with foreign investments in subsidiaries. The Company does have mismatches between the currency in which Risk Weighted Assets ("RWAs") are denominated and the functional currency (U.S. dollar). This means that changes in FX rates can impact the capital ratios of the Company. The Non-U.S. dollar FX risk is managed through the stress testing program which is an important component in managing structural FX risk, testing the Company and Firm's financial resilience in a range of severe economic and market conditions.

#### Structural interest rate risk

Structural Interest Rate Risk is the Interest Rate Risk ("IRR") in the Banking Book ("IRRBB") and is defined as Interest Rate Risk resulting from the Company's traditional banking activities (accrual accounted on and off balance sheet positions) which includes extension of loans and credit facilities, taking deposits and issuing debt (collectively referred to as 'non-trading' activities). IRR from non-trading activities can occur due to a variety of factors, including but not limited to:

- Difference in the timing among the maturity or re-pricing of assets, liabilities and off-balance sheet instruments;
- Differences in the balances of assets, liabilities and off-balance sheet instruments that re-price at the same time;
- Differences in the amounts by which short-term and long-term market interest rates change; and
- Impact of changes in the maturity of various assets, liabilities or off-balance sheet instruments as interest rates change.

#### Oversight and governance

Governance for Firmwide IRR is defined in the IRR Management Policy which is approved by the DRPC. The CIO, Treasury and Corporate Risk Committee ("CTC RC") is the governing committee with respect to IRRBB.

- Reviews the IRR Management policy;
- Reviews the IRR profile of the Firm and compliance with IRR limits;
- Provides Governance on legal entity related exposures; and
- Reviews significant changes to IRR models and/or model assumptions.

IRR exposures, significant models and/or assumptions including the changes are reviewed by ALCO. ALCO provides a framework for overseeing the IRR of LOBs, foreign jurisdictions and key legal entities to appropriate LOB ALCOs, Country ALCOs and other local governance bodies.

In addition, oversight of structural interest rate risk is managed through IRR Management, a dedicated risk function reporting to the CTC CRO.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Structural interest rate risk (continued)

##### *Oversight and governance (continued)*

IRR Management is responsible for, but not limited to:

- Creating governance over IRR assumptions and parameter selection/calibration; and
- Identifying and monitoring IRR and establishing limits as appropriate.

The Company leverages the Firmwide risk framework.

##### *Risk Identification and Measurement*

Treasury and Chief Investment Office ("T/CIO") manages IRRBB exposure on behalf of the Firm by identifying, measuring, modelling and monitoring IRR across the Firm's balance sheet. T/CIO identifies and understands material balance sheet impacts of new initiatives and products and executes market transactions to manage IRR through T/CIO investment portfolio's positions. Execution by T/CIO will be based on parameters established by senior management, per the T/CIO Investment Policy. Lines of businesses are responsible for developing and monitoring the appropriateness of LOB specific IRR modelling assumptions.

Measures to manage IRR include:

- Earnings-at-risk: Primary metric used to gauge the firm's shorter term IRR exposure is Earnings at Risk (EaR), or the sensitivity of pre-tax income to changes in interest rates over a rolling 12 months compared to a base scenario; and
- Economic Value Sensitivity ("EVS"): An additional Firmwide metric utilised to determine changes in asset/liability values due to changes in interest rates.

#### Compliance risk

Compliance risk is the risk of failure to comply with applicable laws, rules and regulations.

Each line of business and functions within the Company are accountable for managing its compliance risk. The Firm's Compliance Organisation ("Compliance"), which is independent of the line of business, works closely with senior management to provide independent review, monitoring and oversight of business operations with a focus on compliance with regulatory obligations applicable to the offering of the Firm's products and services to clients and customers.

These compliance risks relate to a wide variety of legal and regulatory obligations, depending on the LOB and the jurisdiction, and include those related to products and services, relationships and interactions with clients and customers, and employee activities. For example, compliance risks include those associated with anti-money laundering compliance, trading activities, market conduct, and complying with the rules and regulations related to the offering of products and services across jurisdictional borders, among others.

Other functions such as Finance (including Tax), Technology and Human Resources provide oversight of significant regulatory obligations that are specific to their respective areas of responsibility.

Compliance implements various practices designed to identify and mitigate compliance risk by establishing policies, testing, monitoring, training and providing guidance. In recent years, the Firm has experienced heightened scrutiny by its regulators of its compliance with regulations, and with respect to its controls and operational processes. The Firm expects that such regulatory scrutiny will continue.

##### *Governance and oversight*

Compliance is led by the Firms' Chief Compliance Officer ("CCO") who reports to the Firm's CRO. The regional CCOs, including the EMEA CCO, are part of this structure.

The Firm maintains oversight and coordination of its Compliance Risk Management practices through the Firm's CCO, lines of business CCOs and regional CCOs who implement the Compliance program globally across the lines of business and regions. At a Company level, in the UK the regional CCO is a member of the UK Management Committee (restructured from January 2018 to form the EMEA Management Committee) and the UK Audit & Compliance Committee.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Compliance risk (continued)

##### *Governance and oversight (continued)*

The Firm has in place a Code of Conduct (the "Code") which applies to the Company. Each employee is given annual training in respect of the Code and is required annually to affirm his or her compliance with the Code. The Code sets forth the Firm's core principles and fundamental values, including that no employee should ever sacrifice integrity - or give the impression that he or she has. The Code requires prompt reporting of any known or suspected violation of the Code, any internal Firm policy, or any law or regulation applicable to the Firm's business. It also requires the reporting of any illegal conduct, or conduct that violates the underlying principles of the Code, by any of the Firm's employees, customers, suppliers, contract workers, business partners, or agents. Specified employees are specially trained and designated as "code specialists" who act as a resource to employees on Code matters. In addition, concerns may be reported anonymously and the Firm prohibits retaliation against employees for the good faith reporting of any actual or suspected violations of the Code. The Code and the associated employee compliance program are focused on the regular assessment of certain key aspects of the Firm's culture and conduct initiatives.

#### Conduct risk

The risk that any action or inaction by an employee of the Company could lead to unfair client/customer outcome, compromise the Company's reputation, impact the integrity of the markets in which the Company operates, or reflect poorly on the Firm's culture.

##### *Overview*

Each line of business or function is accountable for identifying and managing its conduct risk to provide appropriate engagement, ownership and sustainability of a culture consistent with the Firm's How We Do Business Principles ("Principles"). The Principles serve as a guide for how employees are expected to conduct themselves. With the Principles serving as a guide, the Firm's Code sets out the Firm's expectations for each employee and provides certain information and the resources to help employees conduct business ethically and in compliance with the law everywhere the Firm operates. For further discussion of the Code, see Compliance risk.

##### *Governance and oversight*

The Compensation & Management Development Committee ("CMDC") is the Firm Board-level Committee with primary oversight for the Firm's culture and conduct programs. The Firm's Audit Committee is responsible for reviewing the program established by management to monitor compliance with the Code. Additionally, the DRPC reviews, at least annually, the Firm's qualitative factors included in the Risk Appetite Framework, including conduct risk. The DRPC also meets annually with the CMDC to review and discuss aspects of the Firm's compensation practices. Finally, the Culture & Conduct Risk Committee provides oversight of certain culture and conduct risk initiatives at the Firm.

##### *Risk management*

Conduct risk management is incorporated into various aspects of people management practices throughout the employee life cycle, including recruiting, onboarding, training and development, performance management, promotion and compensation processes. Businesses undertake annual Risk and Control Self-Assessment ("RCSA"); and, as part of these reviews, identify their respective key inherent operational risks (including conduct risks), evaluate the design and effectiveness of their controls, identify control gaps and develop associated action plans. Each LOB and designated corporate function completes an assessment of conduct risk quarterly, reviews metrics and issues which may involve conduct risk, and provides business conduct training as appropriate.

The Firm's Know Your Employee framework generally addresses how the Firm manages, oversees and responds to workforce conduct related matters that may otherwise expose the Firm to financial, reputational, compliance and other operating risks. The Firm also has a Human Resource Control Forum, the primary purpose of which is to discuss conduct and accountability for more significant risk and control issues and review, when appropriate, employee actions including but not limited to promotion and compensation actions.

The Company's approach mirrors the Firmwide approach.

The Company receives regular progress reporting on culture and conduct for its respective businesses. The Company continues to identify enhancements that can be made to provide additional oversight and tone from the top on this agenda.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Legal risk

Legal risk is the risk of loss primarily caused by the actual or alleged failure to meet legal obligations that arise from the rule of law in jurisdictions in which the Firm and the Company operates, agreements with clients and customers, and products and services offered by the Company and the Firm.

#### Overview

The global Legal function ("Legal") provides legal services and advice to the Company and the Firm. Legal is responsible for:

- Managing actual and potential litigation and enforcement matters, including internal reviews and investigations related to such matters;
- Advising on products and services, including contract negotiation and documentation;
- Advising on offering and marketing documents and new business initiatives;
- Managing dispute resolution;
- Interpreting existing laws, rules and regulations, and advising on changes thereto;
- Advising on advocacy in connection with contemplated and proposed laws, rules and regulations; and
- Providing legal advice to the LOBs, inclusive of LOB aligned Operations, Technology and Oversight & Controls (the "first line of defense"), Risk Management and Compliance (the "second line of defense"), and the Internal Audit function (the "third line of defense").

Legal selects, engages and manages outside counsel on all matters in which outside counsel is engaged. In addition, Legal advises the Firm's Conflicts Office which reviews the Firm's wholesale transactions that may have the potential to create conflicts of interest for the Firm.

#### Governance and oversight

The Firm's General Counsel reports to the JPMorgan Chase Chief Executive Officer ("CEO") and is a member of the Operating Committee, the Firmwide Risk Committee and the Firmwide Control Committee. The General Counsel's leadership team includes a General Counsel for each of the Firm's LOB's, the heads of the Litigation and Corporate & Regulatory practices, as well as the Firm's Corporate Secretary. Each region (e.g., Latin America, Asia Pacific) has a General Counsel who is responsible for managing legal risk across all lines of business and functions in the region.

The Firm's General Counsel and other members of Legal report on significant legal matters at each meeting of the Firm's Board of Directors, at least quarterly to the Audit Committee, and periodically to the DRPC.

Legal serves on and advises various committees (including new business initiative and reputation risk committees) and the Firm and Company's businesses to protect the Firm and Company's reputation beyond any particular legal requirements.

#### Model risk management

Model risk is the potential for adverse consequences from decisions based on incorrect or misused model outputs.

The Firm uses models across various businesses and functions. The models are of varying levels of sophistication and are used for many purposes, such as the valuation of positions and the measurement of risk, assessing adequacy of regulatory capital requirements, conducting stress testing, and making business decisions.

#### Risk management

A dedicated independent Model Risk function, Model Risk Governance and Review ("MRGR"), defines and governs the Firm's model risk management policy. MRGR reports to the Firm's CRO. Under the Firm's model risk management policy, the Model Risk function reviews and approves new models, as well as material changes to existing models, prior to implementation in the operating environment.

Model risks are owned by the users of the models within the various businesses and functions in the Firm based on the specific purposes of such models. Users and developers of models are responsible for developing, implementing and testing their models, as well as referring model to the Model Risk function for review and approval. Once models have been approved, model users and developers are responsible for maintaining a robust operating environment, and must monitor and evaluate the performance of the models on an ongoing basis.

The Company's approach mirrors the Firmwide approach.



# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Risk management (continued)

#### Operational risk

Operational risk is the risk associated with inadequate or failed internal processes, people and systems, or from external events; operational risk includes cybersecurity risk, business and technology resiliency risk, payment fraud risk, and third-party outsourcing risk.

Operational risk is inherent in the Company's activities and can manifest itself in various ways, including fraudulent acts, business interruptions, inappropriate employee behaviour, failure to comply with applicable laws and regulations or failure of vendors to perform in accordance with their arrangements. These events could result in financial losses, litigation and regulatory fines, as well as other damages to the Company and the Firm. The goal is to keep operational risk at appropriate levels in light of the Company's financial position, the characteristics of its businesses, and the markets and regulatory environments in which it operates.

#### *Risk management*

To monitor and control operational risk, the Firm has an Operational Risk Management Framework ("ORMF") which is designed to enable the Firm to maintain a sound and well-controlled operational environment. The ORMF has four main components: Governance, Risk Identification and Assessment, Measurement, and Monitoring and Reporting. The Company's approach mirrors the Firmwide approach.

Operational risk can manifest itself in various ways. Risks such as Compliance risk, Conduct risk, Legal Risk and Estimations and Model Risk as well as other operational risks, can lead to losses which are captured through the Firm's operational risk measurement processes. More information on these risk categories can be found in the respective risk management sections. Details on cybersecurity risk is provided below.

#### *Cybersecurity risk*

Cybersecurity risk is an important, continuous and evolving focus for the Firm and Company. The Firm and Company devotes significant resources to protecting and continuing to improve the security of the Firm and Company's computer systems, software, networks and other technology assets. These security efforts are intended to protect against, among other things, cybersecurity attacks by unauthorised parties to obtain access to confidential information, destroy data, disrupt or degrade service, sabotage systems or cause other damage. The Firm continues to make significant investments in enhancing its cyberdefense capabilities and to strengthen its partnerships with the appropriate government and law enforcement agencies and other businesses in order to understand the full spectrum of cybersecurity risks in the operating environment, enhance defenses and improve resiliency against cybersecurity threats. The Firm actively participates in discussions of cybersecurity risks with law enforcement, government officials, peer and industry groups, and has significantly increased efforts to educate employees and clients on the topic.

Third parties with which the Company does business or that facilitate the Company's business activities (e.g. vendors, exchanges, clearing houses, central depositories, and financial intermediaries) could also be sources of cybersecurity risk to the Company. Third party cybersecurity incidents such as system breakdowns or failures, misconduct by the employees of such parties, or cyberattacks could affect their ability to deliver a product or service to the Company or result in lost or compromised information of the Company or its clients. Clients can also be sources of cybersecurity risk to the Company, particularly when their activities and systems are beyond the Company's own security and control systems. As a result, the Company engages in regular and ongoing discussions with certain vendors and clients regarding cybersecurity risks and opportunities to improve security. However, where cybersecurity incidents are due to client failure to maintain the security of their own systems and processes, clients will generally be responsible for losses incurred.

To protect the confidentiality, integrity and availability of the Firm and Company's infrastructure, resources and information, the Firm leverages the ORMF to ensure risks are identified and managed within defined corporate tolerances. The Firm's Board of Directors and the Audit Committee are regularly briefed on the Firm's cybersecurity policies and practices and ongoing efforts to improve security, as well as its efforts regarding significant cybersecurity events.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Reputation risk

Reputation risk is the potential that an action, inaction, transaction, investment or event will reduce trust in the Company's integrity or competence by our various constituents, including clients, counterparties, regulators, employees and the broader public.

### Risk management

Maintaining the Company's reputation is the responsibility of each individual employee. The Firm's Reputation Risk Governance policy explicitly vests each employee with the responsibility to consider the reputation of the Firm when engaging in any activity. Because the types of events that could harm the Firm's reputation are so varied across the Firm's LOB, each LOB has a separate reputation risk governance infrastructure in place, which consists of three key elements: clear, documented escalation criteria appropriate to the business; a designated primary discussion forum - in most cases, one or more dedicated reputation risk committees; and a list of designated contacts, to whom questions relating to reputation risk should be referred. Any matter giving rise to reputation risk that originates in a corporate function is required to be escalated directly to Firmwide Reputation Risk Governance ("FRRG") or to the relevant Risk Committee. LOB reputation risk governance is overseen by a Firmwide Reputation Risk Governance function, which provides oversight of the governance infrastructure and process to support the consistent identification, escalation, management and monitoring of reputation risk issues Firmwide.

### Critical accounting estimates

The Company's accounting policies and use of estimates are integral to understanding its reported results. The Company's most complex accounting estimates require management's judgement to ascertain the appropriate carrying value of assets and liabilities. The Firm and the Company has established policies and control procedures intended to ensure that estimation methods, including any judgements made as part of such methods, are well-controlled, independently reviewed and applied consistently from period to period. The methods used and judgements made reflect, among other factors, the nature of the assets or liabilities and the related business and risk management strategies, which may vary across the Company's businesses and portfolios. In addition, the policies and procedures are intended to ensure that the process for changing methodologies occurs in an appropriate manner. The Company believes its estimates for determining the carrying value of its assets and liabilities are appropriate. A description of the Company's critical accounting estimates involving significant judgements is set out in note 4 to the financial statements.

### Key corporate events

On 19 April 2017, the Company paid interim dividends of \$359 million on preference shares and \$7 million on preferred ordinary shares.

As part of the Firm's legal entity rationalisation efforts discussed in the Regulatory developments section of the Strategic report on page 4, during the year management undertook certain steps to simplify the UK legal entity structure. Two intermediary holding companies between JPMorgan Chase Bank, N.A. and the Company were eliminated and the share ownership structure of the Company was simplified as follows:

- On 14 June 2017, the Company redeemed 3,648 preferred ordinary shares of \$10,000 each and 7,000 preference shares of \$10,000 each comprising the entire shareholding of J.P. Morgan Capital Financing Limited; as a result the Company is wholly owned by J.P. Morgan Capital Holdings Limited.
- On 1 July 2017, J.P. Morgan Limited transferred its banking employees and related assets and liabilities to the Company for a total consideration of \$107 million.
- Through a series of corporate steps that occurred instantaneously on 11 September 2017, 31,000 preferred ordinary shares and 673,685 preference shares of \$10,000 each were converted into 205,081 ordinary shares of \$10,000 each and 499,604 deferred shares of \$10,000 each. The deferred shares had no voting rights or any rights to dividends or distributions and were cancelled immediately, resulting in recognition of \$4,996 million in capital redemption reserve.

### Non-financial reporting

An overview of the environment and social, human rights, employee, anti-bribery and anti-corruption policy aspects of non-financial reporting is provided below. A detailed description of the policies and processes adopted by the Firm may be found on the JPMorgan Chase & Co. website.

### Environment and social policy

The Firm recognises that business decisions have the potential to impact surrounding communities and the environment, and that it has a leadership role to play in creating solutions that protect the environment and grow the economy. As a global financial institution, the Firm aims to leverage their expertise and resources to help clients manage environmental and social risks and capitalise on the opportunities created by the transition to a more sustainable global economy. The Firm works to promote sustainability in their operations, including their corporate buildings, retail branches and data centers globally.

The Firm has designed policies so that environmental and human rights impacts are identified early, are carefully evaluated and managed appropriately. The Firm's Environment and Social Policy Framework provides details on how they integrate considerations of potential environmental and social impacts into corporate lending, advisory and capital markets transactions, along with the broader approach to key issues such as climate change, biodiversity and human rights.

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Non-financial reporting (continued)

#### *Environment and social policy (continued)*

Within the Firms' global real estate portfolio, the strategy is focused on reducing energy use and greenhouse gas ("GHG") emissions. In 2017, the Firm established a goal to source renewable power for 100% of their global energy needs by 2020. The Firm strives to purchase sustainably certified paper and dispose of key waste streams in a responsible manner.

The Firm discloses relevant data and metrics on GHG emissions, energy consumption, paper and waste at the Firm-wide level in their Environmental, Social, and Governance Report, which is published annually and available at [www.jpmorganchase.com/esg](http://www.jpmorganchase.com/esg).

#### *Human Rights*

The Firm supports fundamental principles of human rights across all lines of business and in each region of the world in which they operate. The Firm believes it is the role of government in every country to protect human rights, and that the Firm has a role to play in promoting respect for human rights.

The Firms' respect for the protection and preservation of human rights is guided by the principles set forth in the United Nations Universal Declaration of Human Rights. Further, the Firm acknowledges the Guiding Principles on Business and Human Rights (also known as the Guiding Principles) as the recognised framework for corporations to respect human rights in their own operations and through their business relationships. The Firms' Human Rights Statement outlines their commitment to support human rights. In addition, the Firm-wide Code of Conduct communicates the expectation for conducting business ethically and in compliance with the law in every country in which they operate.

To view the Firms' Human Rights Statement, including the U.K. Modern Slavery Act Transparency Statement, please visit <https://www.jpmorganchase.com/corporate/About-JPMC/ab-human-rights.htm>.

#### *Corporate employee policy*

It is the policy of the Company to ensure equal opportunity for all persons without discrimination on the basis of race, colour, religion, sex, national origin, age, handicap, veteran status, marital status, sexual orientation or any other basis. This policy of equal opportunity applies to all employment practices including, but not limited to recruiting, hiring, promotion, training and compensation.

Where existing employees become disabled, it is the Company policy wherever practicable to provide continuing employment under normal terms and conditions and to provide training and career development and promotion wherever appropriate.

With the aim of ensuring that views are taken into account when decisions are made, employee consultation has continued at all levels where it is likely to affect their interests. All employees are aware of the financial and economic performance of their business units and of the Company as a whole. Communication with all employees continues through the intranet and other forums.

The Firm operates an employee share scheme for all employees, including those of the Company, to acquire a proprietary and vested interest in the growth and performance of the Firm.

#### *Anti-bribery and Anti-corruption*

The Firm has zero tolerance for bribery and corruption, and is deeply committed to participating in international efforts to combat corruption. The Firm has established an Anti-Corruption Policy that seeks to promote ethical business practices and requires compliance with applicable anti-corruption laws and regulation. This Anti-Corruption Policy ("the Policy") is referenced in the Firm's publicly available Code of Conduct, and is applicable to the Company.

The Firm has identified the key areas of corruption-related risk as including:

- the giving or receiving of anything of value
- third parties acting on the Firm's behalf; and
- transactions entered into by the Firm or by funds or accounts controlled or managed by the Firm

# J.P. MORGAN SECURITIES PLC

## Strategic report (continued)

### Non-financial reporting (continued)

#### *Anti-bribery and Anti-corruption (continued)*

The Policy therefore prohibits offering or giving anything of value (including gifts, hospitality, travel, employment, and work experience) to-and soliciting or accepting anything of value from-anyone for a corrupt purpose, such as improper payments or benefits to government officials or private parties for a business advantage. The Policy further prohibits making facilitation payments to cause a government official to perform or expedite performance of a routine duty. Other key features of the Policy include requirements to:

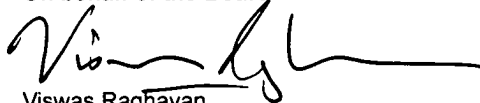
- Obtain Compliance review and approval before offering or giving anything of value to government officials (subject to certain thresholds relating to gifts and business hospitality)
- Keep accurate books, records, and accounts that relate to the business of the Firm, its clients, suppliers, and other partners
- Conduct due diligence and oversight of intermediaries/agents, joint venture partners, and entities over which the Firm has or may obtain control or influence
- Report potential corruption-related issues (including through the Code Reporting Hotline), with a prohibition on retaliation against those who make good faith reports

Any violation of the Policy may result in disciplinary action up to and including dismissal.

The Firm's Anti-Corruption Compliance Program ("the Program") is reasonably designed to implement the Policy's requirements, as well as identify, manage, and mitigate the risk of non-compliance with those requirements. Key components of the Program include:

- A governance structure managed by anti-corruption professionals with senior management oversight
- Training and awareness activities
- Monitoring and testing for compliance
- Periodic assessment of corruption risks and control effectiveness
- Protocols for managing and reporting material issues

**On behalf of the Board**



Viswas Raghavan  
Chief Executive Officer  
24 April 2018  
London

# J.P. MORGAN SECURITIES PLC

## Directors' report

The directors present their report and the audited financial statements of J.P. Morgan Securities plc for the year ended 31 December 2017. The Company is part of JPMorgan Chase & Co. group (together with its subsidiaries, "JPMorgan Chase" or the "Firm"). The registered number of the Company is 02711006.

### Results and dividends

The results for the year are set out on page 41 and show the Company's profit for the financial year after taxation is \$2,635 million (2016: \$3,146 million).

On 19 April 2017, the Company paid interim dividends of \$359 million on preference shares (2016: \$358 million), \$7 million on preferred ordinary shares (2016: \$5 million) and nil on the ordinary shares of the Company (2016: \$687 million).

No final dividend was paid or proposed for 2017 (2016: nil).

### Financial risk management

Please refer to the Strategic Report for details on financial risk management.

### Branches

The Company continues to operate a number of overseas European Union ("EU") branches and a Swiss branch.

### Other matters

HM Treasury adopted the requirements set out under Capital Requirements Directive IV ("CRD IV") and issued the Capital Requirements Country-by-Country Reporting Regulations 2013. The legislation requires the Company to publish additional information, in respect of the year ended 31 December 2017, by 31 December 2018. This information will be available at the time on the JPMorgan Chase website: <http://investor.shareholder.com/jpmorganchase>.

Refer to the Strategic report for future outlook and corporate employee policy.

### Directors

The directors of the Company who served during the year and up to the date of signing the financial statements were as follows:

Sir Winfried Bischoff	Chairman & Non-Executive Director
Laban Jackson	Non-Executive Director
Scott Moeller	Non-Executive Director
Jane Moran	Non-Executive Director
Monique Shivanandan	Non-Executive Director

Andrew Cox	Director & Chief Risk Officer
Mark Garvin	Director
Elena Korablina	Director & Chief Financial Officer
Julia Meazzo	Director
Daniel Pinto	Director
Viswas Raghavan	Director & Chief Executive Officer
Jason Sippel	Director (appointed 17 May 2017)

### Directors' interests

None of the directors has any beneficial interest in the Company. The Company is a subsidiary of a company incorporated in England and Wales. The ultimate holding company is a body corporate incorporated outside England and Wales. The directors are not required to notify the Company of any interests in shares of that or any other body incorporated outside England and Wales.

# **J.P. MORGAN SECURITIES PLC**

## **Directors' report (continued)**

### **Statement of directors' responsibilities**

The directors are responsible for preparing the Strategic report, Directors' report and the financial statements in accordance with applicable law and regulations.

Company law requires the directors to prepare financial statements for each financial year. Under that law the directors have prepared the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice), including Financial Reporting Standard 101 'Reduced Disclosure Framework' (FRS 101). Under company law the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the Company and of the profit or loss of the Company for the year.

In preparing those financial statements, the directors are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and accounting estimates that are reasonable and prudent;
- state whether applicable Accounting Standards, comprising FRS101 have been followed, subject to any material departures disclosed and explained in the financial statements; and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Company will continue in business.

The directors are responsible for keeping adequate accounting records that are sufficient to show and explain the Company's transactions and disclose with reasonable accuracy at any time the financial position of the Company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the Company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

### **Disclosure of information to auditors**

Each person who is a director of the Company at the date of approval of this report confirms that:

- so far as the director is aware, there is no relevant audit information which the Company's auditors are unaware; and
- each director has taken all the steps that he or she ought to have taken as a director to make himself or herself aware of any relevant audit information and to establish that the Company's auditors are aware of that information.

### **Qualifying third party indemnity provisions**

An indemnity is provided to the directors of the Company under the by-laws of JPMorgan Chase against liabilities and associated costs which they could incur in the course of their duties to the Company. The indemnity was in force during the financial year and also at the date of approval of the financial statements and a copy of the by-laws of JPMorgan Chase & Co. is kept at the registered office of the Company.

## **J.P. MORGAN SECURITIES PLC**

### **Directors' report (continued)**

#### **Company secretary**

The secretaries of the Company who served during the year were as follows:

Mary Vance

J.P. Morgan Secretaries (UK) Limited

#### **Registered address**

25 Bank Street  
Canary Wharf  
London  
E14 5JP  
England

#### **Independent auditors**

Resolutions to reappoint PricewaterhouseCoopers LLP as auditors of the Company and to authorise the directors to set the auditors' remuneration will be proposed at the annual general meeting.

#### **On behalf of the Board**



Sir Winfried Bischoff  
Chairman and Non Executive Director

London

24 April 2018

# **J.P. MORGAN SECURITIES PLC**

## **Chairman's Statement**

On behalf of the Board of Directors, I am pleased to introduce the Corporate Governance report for 2017.

### **Highlights**

During the year, the Company focused on its resolution plan and in connection with this, took steps to simplify its organisation and capital structure.

The Board remains committed to ensuring that the Group's culture is embedded throughout the Company and as such, several initiatives were introduced. This included the independent non-executive directors holding informal discussions with employees of different levels across the Corporate and Investment Bank, in order to gain a better understanding of how the Group's culture is filtering through the Company. The Board continues to monitor conduct issues via its Directors' Risk Policy Committee and through the development of conduct metrics.

Also, the Company established a remuneration committee (the "UK Remuneration Committee") to oversee compliance by the Company with UK and EU remuneration regulations, including having oversight of the remuneration policy applying to the Company's employees. This policy is based on the Firm's global compensation philosophy which includes, amongst other guiding principles, tying pay to performance and aligning this with shareholders' interest. Further details of this can be found in the EMEA Remuneration Policy Disclosure, available under the Pillar 3 Disclosures on the Firm's website.

### **Outlook**

A key focus at our annual Board Strategy day this year was Brexit, its challenges and risks, and contingency planning. This will continue to be an important area of focus for the Board as it works to develop and implement its strategy plans.

The regulatory environment and emerging risks and themes will continue to be key areas of consideration for the Board, supported by the Directors' Risk Policy Committee and the UK Audit & Compliance Committee.

### **Board composition and succession planning**

During the year, as part of succession planning reviewed and recommended by the Nomination Committee, Viswas Raghavan succeeded Daniel Pinto as chief executive officer ("CEO") of the Company. I would like to welcome Mr Raghavan as CEO of the Board and thank Mr Pinto, on behalf of the Board, for his outstanding and valuable contribution as CEO. We are pleased that we will benefit from his advice and guidance through his continued membership of our Board. I also welcome Jason Sippel, who joined the Board as executive director and brings with him a wealth of business experience.

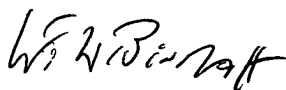
The Board, through its Nomination Committee, continues to focus on diversity in all its forms and seeks to ensure the right balance of skills, experience and background. Succession planning is an important part of the Nomination Committee's work.

### **Board effectiveness review**

The 2016 annual Board effectiveness review was carried out with the assistance of an independent external firm. The findings overall were positive and recommended enhancements are being implemented.

### **Acknowledgement**

Finally, I would like thank my fellow Board members, the management and our employees for their continued commitment, skill and dedication throughout the year.



**Sir Winfried Bischoff**

Non-Executive Chairman

24 April 2018



# J.P. MORGAN SECURITIES PLC

## Governance report

The Board remains committed to promoting high standards of governance, ensuring that it meets its strategic objectives and supporting the overall strategy and culture of its ultimate shareholder, JPMorgan Chase & Co.

### Board and committee structure

The Board is responsible for overseeing management's implementation of the Company's strategic objectives, monitoring its performance and ensuring an effective governance framework, with sound controls and risk management. It oversees and helps to develop the culture of the Company, in line with JPMorgan's culture and values, and monitors conduct risk appetite.

The Board recognises that it has a responsibility to its shareholders for the long term success of the Company and, in meeting that responsibility, has due regard to its other stakeholders.

The Board is supported in its work by four Board Committees, whose responsibilities are delegated by the Board and described further below: the Directors' Risk Policy Committee, UK Audit and Compliance Committee, Nomination Committee and UK Remuneration Committee. A schedule is maintained of matters that are reserved for the Board.

- **J.P. Morgan Securities plc Directors' Risk Policy Committee ("JPMS plc DRPC")** - The JPMSplc DRPC membership is three independent non-executive directors of the Company, chaired by Mr Scott Moeller. The committee meets at least four times a year (in 2017, four times). Its purpose, delegated by the Board, is to challenge and contribute to the development of the Company's risk strategy and review any significant risk decisions taken, while aligning the risk appetite of the Company to that of the Group. The committee's responsibilities include oversight of management's exercise of its responsibility to assess and manage the Company's key risks; an effective system of controls to evaluate and control such risks; capital and liquidity planning and analysis; and an effective risk management function.
- **UK Audit and Compliance Committee** - The UK Audit and Compliance Committee's membership is three independent non-executive directors of the Company, chaired by Mr Laban Jackson. The committee meets at least four times a year (in 2017, five times). Its purpose, delegated by the Board, includes oversight of the integrity of the financial statements; monitoring and reviewing internal financial controls and the effectiveness of the internal audit function; making recommendations with respect to the appointment, appraisal and independence of the external auditor of the Company; and overseeing the process for non-audit services. The Company's auditors attend the committee meetings to report on the status of their audit and any findings. This enables the committee to monitor the effectiveness of the auditors during the year.
- **J.P. Morgan Securities plc Nomination Committee** - The committee is made up of three independent non-executive directors of the Company, chaired by Sir Winfried Bischoff. The committee meets at least two times a year (in 2017, twice). Its purpose, delegated by the Board, is to lead the process for Board appointments and to identify and nominate candidates to the Board, having considered the skills, knowledge, experience and diversity of the Board. It is also responsible for succession planning.
- **UK Remuneration Committee** - The committee consists of three independent non-executives, chaired by Sir Winfried Bischoff. It meets at least two times a year (in 2017, twice). Its purpose, delegated by the Board, is oversight of compliance by the Company with UK and EU remuneration regulations.

The Chair of each committee periodically reports to the Board, escalating significant items as appropriate. The performance of the committees is reviewed annually by the Board.

### Board composition

The Board comprises twelve directors, five of whom are independent non-executive directors.

During the year, on the recommendation of the Nomination Committee to the Board:

- Jason Sippel was appointed as Executive Director of the Board with effect from 17 May 2017;
- Sir Winfried Bischoff was reappointed as Non-Executive Director and Chairman of the Board for a further term;
- Viswas Raghavan was appointed as Chief Executive Officer with effect from 25 September 2017, succeeding Daniel Pinto who remains on the Board as Executive Director.

# J.P. MORGAN SECURITIES PLC

## Governance report

### Board composition (continued)

The current directors of the Board are:

<b>Sir Winfried Bischoff</b>	Independent Non-Executive Chairman of J.P. Morgan Securities plc, of its Nomination Committee and the UK Remuneration Committee. Member of the Directors' Risk Policy Committee. Chairman of the U.K. Financial Reporting Council
<b>Laban Jackson</b>	Independent Non-Executive Director and Chairman of the UK Audit and Compliance Committee and member of the UK Remuneration Committee. Director of JPMorgan Chase & Co. and member of the JPMorgan Chase & Co. Audit Committee. Chairman of Clear Creek Properties Inc.
<b>Scott Moeller</b>	Independent Non-Executive Director and Chairman of the Directors' Risk Policy Committee; Member of the Nomination Committee. Director, M&A Research Centre, Cass Business School
<b>Jane Moran</b>	Independent Non-Executive Director and member of the Nomination Committee and UK Audit and Compliance Committee. Chief Information Officer, Unilever plc
<b>Monique Shivanandan</b>	Independent Non-Executive Director and member of the Directors' Risk Policy Committee and UK Audit and Compliance Committee. Group Chief Information Officer, Chubb Limited
<b>Daniel Pinto</b>	Director; Co-President and Co-Chief Operating Officer for JPMorgan Chase & Co; Chief Executive Officer of Corporate and Investment Bank
<b>Andrew Cox</b>	Director and Chief Risk Officer; Head of Credit Risk, EMEA
<b>Mark Garvin</b>	Director; Vice Chairman of Corporate and Investment Bank, EMEA
<b>Elena Korablina</b>	Director; Chief Financial Officer, EMEA
<b>Julia Meazzo</b>	Director; Head of Human Resources, EMEA
<b>Viswas Raghavan</b>	Director and Chief Executive Officer; Chief Executive Officer, EMEA; Head of EMEA Banking
<b>Jason Sippel</b>	Director; Co-head of Global Equities (Appointed 17 May 2017)

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### Diversity

The Board continues to focus on diversity, appointing directors with a wide range of skills, experience and background and has a target of 30% female representation. Female representation on the Board today, stands at 33%. The Board has also received updates throughout the year on diversity issues relating to the Company's employees more generally, in particular the Company's first Gender Pay Gap disclosure (made on 23 March 2018). Further information on the disclosure and the Firm's diversity strategy, is available on the Firm's website.

### Work of the Board and Committees

During the year, the focus of the Board and its committees included the following activities:

- The Board held its annual Strategy Day in September with focus on strategic priorities; Brexit, and the risk and implications for the Company; and emerging risks.
- The Board considered the findings of the 2016 Board Effectiveness review and accepted a number of the enhancements identified. As a result, continuous development training was carried out in 2017; specific director training on conflicts and conflict management was provided; committee mandates were updated; and the process for succession planning of both the non-executive, as well as executive directors, was reviewed.
- Culture and conduct continued to be a key focus for the Board, even though the Board noted with satisfaction that the culture and conduct framework had now been firmly embedded in the business. As part of a drive for continual improvement, conduct metrics were developed for regular review by the Company's Directors' Risk Policy Committee. In addition, non-executive directors held informal discussions with a series of employees at different levels across the Corporate and Investment Bank.
- The Board considered the whistleblowing policy and framework for handling reportable concerns and was satisfied that a robust process was in place.
- During the year, resolution planning and the simplification of the Company's shareholding and capital structure was a priority. The Board also carried out a desktop exercise to help raise awareness of its responsibilities and obligations in a Firmwide Resolution event.

# J.P. MORGAN SECURITIES PLC

## Governance report

### Work of the Board and Committees (continued)

- The Board approved the establishment of the UK Remuneration Committee. The committee's activities during the year included review of the remuneration policy applicable to the Company, including to reflect developments in UK and EU remuneration regulations, as well as providing oversight of the implementation of that policy.
- The Nomination Committee considered Board composition and agreed that the skills, diversity and experience of the current Board were appropriate and sufficient. Recognising the importance of gender and ethnic diversity, the Nomination Committee noted the Parker and Hampton-Alexander reviews, and will maintain its focus on board diversity. The committee also considered the succession planning process for executives, with particular focus on the key roles of chief executive officer, chief finance officer, and chief risk officer and was satisfied that the process was well managed. As part of this succession process, the committee recommended the appointment of Mr Raghavan as CEO of the Company; the renewal of the Chairman's tenure as director and chairman; and the appointment of Mr Sippel as executive director of the Company.
- The Board approved the UK Modern Slavery Act Transparency Statement

### Board Effectiveness Review

Board effectiveness reviews are conducted annually. The review for 2016 was carried out with the assistance of an independent external firm. The 2017 review will be a Chairman-led, questionnaire-based review. The findings from this review will be provided to the Board for its consideration in the second quarter of 2018.

### **Sir Winfried Bischoff**

Non-Executive Chairman



24 April 2018

# Independent auditors' report to the members of J.P. Morgan Securities plc

## Report on the audit of the financial statements

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### Opinion

In our opinion, J.P. Morgan Securities plc's financial statements:

- give a true and fair view of the state of the company's affairs as at 31 December 2017 and of its profit and cash flows for the year then ended;
- have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice (United Kingdom Accounting Standards, comprising FRS 101 "Reduced Disclosure Framework", and applicable law); and
- have been prepared in accordance with the requirements of the Companies Act 2006.

We have audited the financial statements, included within the Annual Report, which comprise: the balance sheet as at 31 December 2017; the income statement, the statement of comprehensive income, the statement of cash flows, the statement of changes in equity for the year then ended; and the notes to the financial statements, which include a description of the significant accounting policies.

Our opinion is consistent with our reporting to the Audit Committee.

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### Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) ("ISAs (UK)") and applicable law. Our responsibilities under ISAs (UK) are further described in the Auditors' responsibilities for the audit of the financial statements section of our report. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### *Independence*

We remained independent of the company in accordance with the ethical requirements that are relevant to our audit of the financial statements in the UK, which includes the FRC's Ethical Standard, as applicable to public interest entities, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

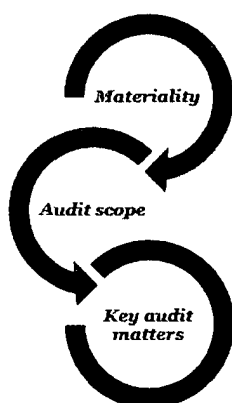
To the best of our knowledge and belief, we declare that non-audit services prohibited by the FRC's Ethical Standard were not provided to the company.

Other than those disclosed in note 10 to the financial statements, we have provided no non-audit services to the company in the period from 1 January 2017 to 31 December 2017.

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### Our audit approach

#### *Overview*



- Overall materiality: \$401 million (2016: \$343 million), based on 1% of regulatory capital resources as required by the Prudential Regulatory Authority.
  - We tailored the scope of our audit to ensure that we performed sufficient work to be able to give an opinion on the financial statements as a whole. Our scoping considered all account balances and was performed to ensure that specific and appropriate audit procedures were performed over material balances.
  - Due to some business process and internal controls being performed in other geographical locations, PwC network firms were involved in the engagement.
  - Valuation of complex financial instruments held at fair value.
  - Cash and securities reconciliation system migration.
-

## **Independent auditors' report to the members of J.P. Morgan Securities plc**

### *The scope of our audit*

As part of designing our audit, we determined materiality and assessed the risks of material misstatement in the financial statements. In particular, we looked at where the directors made subjective judgements, for example in respect of significant accounting estimates that involved making assumptions and considering future events that are inherently uncertain.

We gained an understanding of the legal and regulatory framework applicable to the company and the industry in which it operates, and considered the risk of acts by the company which were contrary to applicable laws and regulations, including fraud. We designed audit procedures to respond to the risk, recognising that the risk of not detecting a material misstatement due to fraud is higher than the risk of not detecting one resulting from error, as fraud may involve deliberate concealment by, for example, forgery or intentional misrepresentations, or through collusion. We focused on laws and regulations that could give rise to a material misstatement in the company's financial statements, including, but not limited to, Companies Act 2006, Pensions legislation, UK tax legislation, the Prudential Regulation Authority's regulations and Financial Conduct Authority's Client Asset Sourcebook. Our tests included, but were not limited to, review of the financial statement disclosures to underlying supporting documentation, review of correspondence with the regulators, enquiries of management, review of significant components auditors' work and review of internal audit reports in so far as they related to the financial statements. There are inherent limitations in the audit procedures described above and the further removed non-compliance with laws and regulations is from the events and transactions reflected in the financial statements, the less likely we would become aware of it.

We did not identify any key audit matters relating to irregularities, including fraud. As in all of our audits we also addressed the risk of management override of internal controls, including testing journals and evaluating whether there was evidence of bias by the directors that represented a risk of material misstatement due to fraud.

## Independent auditors' report to the members of J.P. Morgan Securities plc

### Key audit matters

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

<b>Key audit matter</b>	<b>How our audit addressed the key audit matter</b>
<p><i>Valuation of complex financial instruments held at fair value</i></p> <p>The fair value of certain financial instruments is determined using valuation methods that involve a varying degree of judgement. In exercising this judgement the directors determine the most appropriate assumptions and valuation methodologies.</p> <p>The valuation of complex financial instruments can have greater estimation uncertainty due to the lack of observable market prices for these instruments.</p> <p>Within this population of financial instruments we observed the most significant judgements relate to equity derivatives. These products are non-standard and often require more judgemental valuation methodologies and market information that is not readily available.</p> <p>Refer to Note 4 and Note 28 to the financial statements for further details of fair value measurement of financial instruments as a critical accounting estimate and judgement.</p>	<p>We tested the design and operating effectiveness of the key controls supporting the valuation of financial instruments.</p> <ul style="list-style-type: none"><li>• Assessed the bank's standardised approach documents for independent valuation by comparing them to industry practice;</li><li>• Inspected documentation of the independent price verification controls, independently corroborated the market inputs and assessed the pricing sources used;</li><li>• Engaged our valuation experts to review model validation and approval controls; and</li><li>• Evaluated controls over data feeds and market information.</li></ul> <p>Our substantive procedures included the following:</p> <ul style="list-style-type: none"><li>• Analysed the population of financial instruments to identify those that have a heightened risk of material misstatement;</li><li>• Utilised our valuation experts to re-price a sample of instruments using our models and pricing information from independent sources where possible. Any differences were assessed to confirm the valuation was within a reasonable range;</li><li>• Recalculated adjustments made to the standard model results; and</li><li>• Examined collateral disputes, significant gains or losses on disposals and other events which could provide evidence about the appropriateness of the valuations.</li></ul> <p>The results and conclusions of the testing were sufficient to confirm the appropriateness of the valuation of financial instruments within the financial statements.</p>

## Independent auditors' report to the members of J.P. Morgan Securities plc

### Key audit matters (continued)

<i>Key audit matter</i>	<i>How our audit addressed the key audit matter</i>
<p><i>Cash and securities reconciliation system migration</i></p> <p>During the year JPMorgan Chase implemented a new reconciliation system that matches transactions and reconciles positions for cash and securities with external agent banks and custodians.</p> <p>The matching and reconciliation of records between JPMorgan ledgers with corresponding third party statements for cash and securities transactions forms an important aspect of our audit.</p> <p>Accordingly, the migration of the reconciliation processes to a new system formed a key area of focus for this year's audit.</p> <p>The focus of our audit work was to obtain appropriate assurance over the design and operating effectiveness of the controls over reconciliations of cash and security transactions.</p>	<p>We focused on the following controls in the new reconciliation system:</p> <ul style="list-style-type: none"><li>• Tested IT General Controls over the new cash and securities reconciliation system to assess whether they are designed and operated effectively, specifically focusing on the review of change management, user access management and IT operations;</li><li>• Assessed the configuration of a sample of the reconciliation matching rules in the new system to assess whether they had been appropriately set up;</li><li>• Tested key automated controls embedded within the new system, to assess whether they are designed and operating effectively;</li></ul> <p>Additionally we performed the following substantive testing over the migration:</p> <ul style="list-style-type: none"><li>• Tested the completeness and accuracy of a sample of open cash and security breaks that were transferred from the legacy reconciliation system to the new reconciliation system at the date of migration; and</li><li>• Understood and assessed the impact of post implementation issues.</li></ul> <p>The work performed and evidence obtained was sufficient for us to support the design and operating effectiveness assessment of the cash and security reconciliations.</p>

### *How we tailored the audit scope*

We tailored the scope of our audit to ensure that we performed enough work to be able to give an opinion on the financial statements as a whole, taking into account the structure of the company, the accounting processes and controls, and the industry in which it operates.

We first established an end-to-end picture of the key processes that supported material balances, classes of transactions and disclosures within the company's financial statements. We subdivided the account balances into different businesses to ensure that the audit procedures performed were specific and appropriate to the nature of the balance and underlying business.

We then determined the type of work that needed to be performed by us in the UK, or from other PwC network firms operating under our instruction. This reflects that certain operational processes which are critical to financial reporting are undertaken outside the UK. Where the work was performed by other PwC network firms, we determined the level of involvement we needed to have in their audit work to be able to conclude whether sufficient appropriate audit evidence had been obtained as a basis for our opinion on the financial statements as a whole.

### *Materiality*

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

## Independent auditors' report to the members of J.P. Morgan Securities plc

Materiality (continued)

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

<b>Overall materiality</b>	\$401 million (2016: \$343 million).
<b>How we determined it</b>	1% of regulatory capital resources as defined by the Prudential Regulatory Authority.
<b>Rationale for benchmark applied</b>	Given that the company is a wholly owned subsidiary of JPMorgan Chase & Co. group (the "Firm") and is a regulated bank entity, we considered the key users of its financial statements to be the Firm, regulators and creditors. The Firm run their business on a global basis and hence the profitability of individual subsidiaries on a standalone basis is not the primary, or sole, driver of business decision making in the context of the Firm's enterprise level objectives and strategy. The use of regulatory capital resources as a materiality benchmark is appropriate as it reflects the key area of focus of these stakeholders, who are focused on whether the company has maintained sufficient capital to meet minimum regulatory requirement, fulfil its future market obligations, and absorb any future losses when it arises. Capital resource is deemed as a good indicator of the company's balance sheet strength and liquidity position.

We agreed with the Audit Committee that we would report to them misstatements identified during our audit above \$20 million (2016: \$17 million) as well as misstatements below that amount that, in our view, warranted reporting for qualitative reasons.

### Conclusions relating to going concern

We have nothing to report in respect of the following matters in relation to which ISAs (UK) require us to report to you when:

- the directors' use of the going concern basis of accounting in the preparation of the financial statements is not appropriate; or
- the directors have not disclosed in the financial statements any identified material uncertainties that may cast significant doubt about the company's ability to continue to adopt the going concern basis of accounting for a period of at least twelve months from the date when the financial statements are authorised for issue.

However, because not all future events or conditions can be predicted, this statement is not a guarantee as to the company's ability to continue as a going concern.

### Reporting on other information

The other information comprises all of the information in the Annual Report other than the financial statements and our auditors' report thereon. The directors are responsible for the other information. Our opinion on the financial statements does not cover the other information and, accordingly, we do not express an audit opinion or, except to the extent otherwise explicitly stated in this report, any form of assurance thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If we identify an apparent material inconsistency or material misstatement, we are required to perform procedures to conclude whether there is a material misstatement of the financial statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report based on these responsibilities.

With respect to the Strategic Report and Directors' Report, we also considered whether the disclosures required by the UK Companies Act 2006 have been included.

Based on the responsibilities described above and our work undertaken in the course of the audit, ISAs (UK) require us also to report certain opinions and matters as described below.



## **Independent auditors' report to the members of J.P. Morgan Securities plc**

### *Strategic Report and Directors' Report*

In our opinion, based on the work undertaken in the course of the audit, the information given in the Strategic Report and Directors' Report for the year ended 31 December 2017 is consistent with the financial statements and has been prepared in accordance with applicable legal requirements.

In light of the knowledge and understanding of the company and its environment obtained in the course of the audit, we did not identify any material misstatements in the Strategic Report and Directors' Report.

### **Responsibilities for the financial statements and the audit**

#### *Responsibilities of the directors for the financial statements*

As explained more fully in the Directors' Responsibilities Statement set out on page 28, the directors are responsible for the preparation of the financial statements in accordance with the applicable framework and for being satisfied that they give a true and fair view. The directors are also responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

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

#### *Auditors' responsibilities for the audit of the financial statements*

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

A further description of our responsibilities for the audit of the financial statements is located on the FRC's website at: [www.frc.org.uk/auditorsresponsibilities](http://www.frc.org.uk/auditorsresponsibilities). This description forms part of our auditors' report.

#### *Use of this report*

This report, including the opinions, has been prepared for and only for the company's members as a body in accordance with Chapter 3 of Part 16 of the Companies Act 2006 and for no other purpose. We do not, in giving these opinions, accept or assume responsibility for any other purpose or to any other person to whom this report is shown or into whose hands it may come save where expressly agreed by our prior consent in writing.

# Independent auditors' report to the members of J.P. Morgan Securities plc

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## Other required reporting

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### Companies Act 2006 exception reporting

Under the Companies Act 2006 we are required to report to you if, in our opinion:

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

We have no exceptions to report arising from this responsibility.

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### Appointment

Following the recommendation of the audit committee, we were appointed by the directors on 1 May 1992 to audit the financial statements for the year ended 31 December 1992 and subsequent financial periods. The period of total uninterrupted engagement is 26 years, covering the years ended 31 December 1992 to 31 December 2017. The company became a credit institution in 2011, and hence is considered to be a European Union public-interest entity from 2011 onwards.

Duncan McNab (Senior Statutory Auditor)  
for and on behalf of PricewaterhouseCoopers LLP  
Chartered Accountants and Statutory Auditors  
London  
24 April 2018

## J.P. MORGAN SECURITIES PLC

### Income statement

Year ended 31 December		2017	2016
	Note	\$'000	\$'000
Interest and similar income		3,969,568	2,553,440
Interest expense and similar charges		(3,193,607)	(1,961,858)
<b>Net interest income</b>	7	<b>775,961</b>	<b>591,582</b>
Fee and commission income		2,863,023	2,516,922
Fee and commission expense		(718,748)	(848,261)
Trading profit		4,489,978	4,142,970
Dividend income		—	600,000
<b>Total operating income</b>		<b>7,410,214</b>	<b>7,003,213</b>
Administrative expenses		(3,661,928)	(2,897,111)
Impairment charge	8	(147,477)	(117,359)
Depreciation		(1,760)	(1,290)
<b>Profit on ordinary activities before taxation</b>	10	<b>3,599,049</b>	<b>3,987,453</b>
Tax on profit on ordinary activities	11	(963,590)	(841,809)
<b>Profit for the financial year</b>		<b>2,635,459</b>	<b>3,145,644</b>

The profit for the financial year resulted from continuing operations.

### Statement of comprehensive income

Year ended 31 December		2017	2016
	Note	\$'000	\$'000
Profit for the financial year		2,635,459	3,145,644
<b>Other comprehensive income: items that will not be reclassified to profit or loss</b>			
Actuarial gain/(loss) on pension schemes	30	31,871	(74,362)
Tax effect of movement in pension reserve	12	(11,349)	18,908
<b>Total comprehensive income for the year</b>		<b>2,655,981</b>	<b>3,090,190</b>

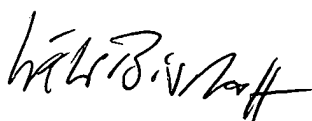
The notes on pages 45 - 83 form an integral part of these financial statements.

# J.P. MORGAN SECURITIES PLC

## Balance sheet

31 December		2017	2016
	Note	\$'000	\$'000
<b>Assets</b>			
Cash and balances at central banks		21,677,066	20,597,168
Loans and advances to banks	13	9,812,066	6,123,936
Loans and advances to customers	14	2,612,322	3,100,053
Securities purchased under agreements to resell	15	135,385,611	130,416,852
Securities borrowed	15	27,072,599	25,831,106
Financial assets held for trading	16	340,258,613	323,045,808
Financial assets designated at fair value through profit or loss	17	341,602	315,659
Debtors	18	79,646,622	56,473,025
Other assets	19	762,089	584,231
Investments in JPMorgan Chase undertakings	20	3,341,207	3,341,207
Tangible fixed assets		4,938	3,582
<b>Total assets</b>		<b>620,914,735</b>	<b>569,832,627</b>
<b>Liabilities</b>			
Securities sold under agreements to repurchase	15	74,937,158	61,657,271
Securities loaned	15	12,550,040	20,133,325
Financial liabilities held for trading	22	308,288,068	293,525,746
Financial liabilities designated at fair value through profit or loss		1,465,247	—
Trade creditors	23	30,479,035	29,755,510
Amounts owed to JPMorgan Chase undertakings		124,330,471	99,493,803
Other liabilities	23	27,350,196	25,819,149
<b>Total liabilities</b>		<b>579,400,215</b>	<b>530,384,804</b>
<b>Equity</b>			
Called-up share capital	24	12,443,530	17,546,050
Share premium account		9,950,724	9,950,724
Capital redemption reserve		4,996,040	—
Other reserves		1,701,590	1,797,872
Retained earnings		12,422,636	10,153,177
<b>Total equity</b>		<b>41,514,520</b>	<b>39,447,823</b>
<b>Total liabilities and equity funds</b>		<b>620,914,735</b>	<b>569,832,627</b>

Approved and authorised for issue by the Board of Directors on 23 April 2018 and signed on its behalf by:



**Sir Winfried Bischoff**  
Chairman & Non-Executive Director



**Elena Kofablina**  
Director & Chief Financial Officer

**24 April 2018**

The notes on pages 45 - 83 form an integral part of these financial statements.

# J.P. MORGAN SECURITIES PLC

## Statement of changes in equity

	Note	Called-up share capital	Share premium account	Capital contribution reserve	Capital redemption reserve	Pension reserve	Other reserves	Retained earnings	Total equity
		\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Balance as at 1 January 2016</b>		<b>17,546,050</b>	<b>9,950,724</b>	<b>1,588,615</b>	<b>—</b>	<b>9,875</b>	<b>233,011</b>	<b>8,057,533</b>	<b>37,385,808</b>
Profit for the financial year		—	—	—	—	—	—	3,145,644	3,145,644
<b>Other comprehensive income for the year:</b>									
Actuarial loss on pension schemes	30	—	—	—	—	(74,362)	—	—	(74,362)
Tax effect on movement in pension reserve		—	—	—	—	18,908	—	—	18,908
<b>Total comprehensive income for the year</b>		<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>(55,454)</b>	<b>—</b>	<b>3,145,644</b>	<b>3,090,190</b>
Dividends paid	25	—	—	—	—	—	—	(1,050,000)	(1,050,000)
Tax effect on share based payment awards		—	—	—	—	—	17,677	—	17,677
Movement in other reserves		—	—	—	—	—	4,148	—	4,148
<b>Balance as at 31 December 2016</b>		<b>17,546,050</b>	<b>9,950,724</b>	<b>1,588,615</b>	<b>—</b>	<b>(46,579)</b>	<b>254,836</b>	<b>10,153,177</b>	<b>39,447,823</b>
Profit for the financial year		—	—	—	—	—	—	2,635,459	2,635,459
<b>Other comprehensive income for the year:</b>									
Actuarial gain on pension schemes	30	—	—	—	—	31,871	—	—	31,871
Tax effect on movement in pension reserve		—	—	—	—	(11,349)	—	—	(11,349)
<b>Total comprehensive income for the year</b>		<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>20,522</b>	<b>—</b>	<b>2,635,459</b>	<b>2,655,981</b>
Dividends paid	25	—	—	—	—	—	—	(366,000)	(366,000)
Share redemption	24	(106,480)	—	—	—	—	—	—	(106,480)
Share conversion	24	(4,996,040)	—	—	4,996,040	—	—	—	—
Movement in other reserves		—	—	—	—	—	(116,804)	—	(116,804)
<b>Balance as at 31 December 2017</b>		<b>12,443,530</b>	<b>9,950,724</b>	<b>1,588,615</b>	<b>4,996,040</b>	<b>(26,057)</b>	<b>138,032</b>	<b>12,422,636</b>	<b>41,514,520</b>

The notes on pages 45 - 83 form an integral part of these financial statements.

# J.P. MORGAN SECURITIES PLC

## Statement of cash flows

Year ended 31 December		2017	2016
	Notes	\$'000	\$'000
<b>Cash flows from operating activities</b>			
Cash (used in)/generated from operations	26	(20,915,074)	3,464,344
Income taxes paid		(759,644)	(339,504)
<b>Net cash (used in)/generated from operating activities</b>		<b>(21,674,718)</b>	<b>3,124,840</b>
<b>Cash flow used in investing activities</b>			
Purchase and disposals of tangible fixed assets		(3,116)	(2,735)
Disposal of investments in JPMorgan Chase undertakings		—	517
<b>Net cash used in investing activities</b>		<b>(3,116)</b>	<b>(2,218)</b>
<b>Cash flow from financing activities</b>			
Redemption of share capital	24	(106,480)	—
Change in amounts owed to JPMorgan Chase undertakings		24,836,668	20,853,495
Dividends paid	25	(366,000)	(1,050,000)
<b>Net cash generated from financing activities</b>		<b>24,364,188</b>	<b>19,803,495</b>
<b>Net increase in cash and cash equivalents</b>		<b>2,686,354</b>	<b>22,926,117</b>
Cash and cash equivalents at the beginning of the year		26,721,104	4,739,077
Exchange gains/(losses) on cash and cash equivalents		2,081,674	(944,090)
<b>Cash and cash equivalents at the end of the year</b>		<b>31,489,132</b>	<b>26,721,104</b>
<b>Cash and cash equivalents consist of:</b>			
Cash and balances at central banks		21,677,066	20,597,168
Loans and advances to banks, due within three months or less		9,812,066	6,123,936
<b>Cash and cash equivalents</b>		<b>31,489,132</b>	<b>26,721,104</b>

The notes on pages 45 - 83 form an integral part of these financial statements.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements

### 1. General information

The Company is a public limited company and is incorporated and domiciled in England and Wales. The address of its registered office is 25 Bank Street, Canary Wharf, London, E14 5JP, England. The Company's immediate parent undertaking is J.P. Morgan Capital Holdings Limited, which is also the parent undertaking of the smallest group in which the Company's results are consolidated. The Company's ultimate parent undertaking and controlling party is JPMorgan Chase & Co. ("JPMorgan Chase" or the "Firm"), which is incorporated in the state of Delaware in the United States of America. JPMorgan Chase & Co. is also the parent undertaking of the largest group in which the results of the Company are consolidated. The largest and smallest parent groups' consolidated financial statements can be obtained from the Company's registered office.

### 2. Basis of preparation

These financial statements have been prepared in accordance with Financial Reporting Standard 101, 'Reduced Disclosure Framework' ("FRS 101"). FRS 101 applies the recognition and measurement requirements of International Financial Reporting Standards ("IFRS") as adopted by the European Union, with reduced disclosures.

The financial statements have been prepared on a going concern basis under the historical cost convention as modified by the revaluation of certain financial assets and financial liabilities measured at fair value through profit or loss, and in accordance with the Companies Act 2006. Reclassification of and adjustments to prior year amounts have been made to conform with current year presentations and to provide additional transparency and information on the nature of the balances in these financial statements.

The following exemptions from the requirements of IFRS as adopted by the EU have been applied in the preparation of these financial statements, in accordance with FRS 101:

- Certain share based payment disclosures in respect of Firm equity instruments (IFRS 2 'Share-based payment' paragraphs 45(b) and 46 to 52);
- Comparative information disclosures for the following (paragraph 38 of IAS 1 'Presentation of financial statements' ("IAS 1")):
  - reconciliation of share capital (paragraph 79(a)(iv) of IAS 1);
  - reconciliation of property, plant and equipment (paragraph 73(e) of IAS 16 'Property, plant and equipment');
  - reconciliation of intangible assets (paragraph 118(e) of IAS 38 'Intangible assets');
- Statement of compliance to IFRSs - Paragraph 16, IAS 1;
- Third balance sheet on retrospective accounting policy changes, restatements, or reclassifications (paragraph 40A-D, IAS 1);
- Disclosures in relation to new or revised standards issued but not yet effective (paragraph 30 and 31, IAS 8, 'Accounting policies, changes in accounting estimates and errors')<sup>1</sup>;
- Key management compensation disclosures (paragraph 17, IAS 24 'Related Party Disclosures' ("IAS 24")); and
- Related party transactions with wholly owned Firm undertakings (IAS 24).

<sup>1</sup>) To provide further detail to the users of the financial statements, the significant new standards, amendments and interpretations not yet adopted have been disclosed for IFRS 9 'Financial instruments' ("IFRS 9") and IFRS 15 'Revenue from Contracts with Customers' ("IFRS 15") (note 3).

### 3. Accounting and reporting developments

#### New standards, amendments and interpretations not yet adopted

##### IFRS 9 'Financial instruments' ("IFRS 9")

IFRS 9 was issued by the International Accounting Standards Board ("IASB") in July 2014 and replaces the existing guidance in IAS 39 'Financial Instruments: Recognition and Measurement' ("IAS 39"). The standard introduces new guidance on the classification and measurement of financial assets and a single, forward-looking expected credit loss ("ECL") impairment model. The standard also requires entities to provide users of financial statements with additional disclosures. IFRS 9 is applicable retrospectively, except where otherwise prescribed by transitional provisions of the standard, and is effective for annual periods beginning on or after 1 January 2018. The Company has adopted the new standard on 1 January 2018.

##### Implementation programme

The Company has a centrally managed IFRS 9 project team which is focused on ensuring compliance with the standard and any additional requirements associated thereof. Overall governance of the program's implementation is through the IFRS 9 Steering Committee which includes representation from senior leaders in Finance, Corporate Accounting Policy, Risk, Technology and Audit.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 3. Accounting and reporting developments (continued)

#### New standards, amendments and interpretations not yet adopted (continued)

##### IFRS 9 'Financial instruments' ("IFRS 9") (continued)

###### *Classification and Measurement of Financial Assets and Liabilities*

Under IFRS 9, new 'Business Model' and 'Cash Flow Characteristic' tests are introduced which classify financial assets to one of the following three measurement categories: amortised cost, fair value through other comprehensive income ("FVOCI") or fair value through profit or loss ("FVTPL"). Encompassing the guidance provided by IFRS 9 on classification and measurement, the Company has reviewed and deemed financial assets held within a business model with the intention to hold and collect contractual cash flow, and financial assets with the intention to hold and collect contractual cash flow or sell the asset as measured at amortised cost and FVOCI respectively under the condition that contractual cash flows also meet the solely payment of principal and interest ("SPPI") criteria. Financial assets which are not categorised with the intentions highlighted above are deemed to be measured at FVTPL. Additionally, the Company may elect the option to classify financial assets as measured at FVTPL upon initial recognition if such designation may eliminate or reduce an accounting mismatch. On initial adoption of IFRS 9 the Company may also elect the option to designate a currently recognised financial liability as measured at FVTPL to eliminate or reduce an accounting mismatch.

Upon initial assessment of the classification and measurement changes imposed by IFRS 9, the Company anticipates reclassifications to exist for certain populations falling under securities borrowed and securities purchased under agreements to resell which were previously measured at amortised cost but will be measured at FVTPL. Similarly, certain loans and advances to customers measured at amortised cost will be measured at FVOCI. These anticipated reclassifications reflect the business models used to manage these types of assets. In addition, the Company anticipates designating certain financial liability populations falling under securities loaned and securities sold under agreements to repurchase as measured at FVTPL to eliminate or reduce an accounting mismatch that would have otherwise arisen on adoption of IFRS 9. No further reclassifications were identified that were considered to bear a potential material impact on existing asset measurement bases, however, this represents preliminary results from which actual impacts measured from 1 January 2018 may deviate.

IFRS 9 retains most of the existing requirements for financial liabilities. Under the current requirements of IAS 39, the gains and losses attributable to changes in the Company's own credit risk ("DVA") for financial liabilities designated at FVTPL are recognised in profit or loss. However, upon implementation of IFRS 9, this DVA component will be recognised in other comprehensive income. While the standard allows for the early adoption of this recognition, the Company will implement on the effective date of 1 January 2018.

###### *Impairment of Financial Assets*

IFRS 9 impairment requirements apply to financial assets that are measured at amortised cost or FVOCI, and specified off-balance sheet lending-related commitments such as loan commitments and financial guarantee contracts.

The determination of impairment losses and allowance will change from an incurred credit loss model under IAS 39 to an ECL model under IFRS 9. In an ECL model, provisions for credit losses are recorded upon initial recognition of the financial asset based on expectations of potential credit losses at that time. The credit loss allowance includes ECLs for financial instruments that may default in the next 12-month period for financial instruments that have not observed a significant increase in credit risk since initial recognition ("stage 1") or over a lifetime period for financial instruments that have observed a significant increase in credit risk since initial recognition ("stage 2"). The allowance also adopts lifetime ECLs for financial instruments where there is objective evidence of credit-impairment at the reporting date ("stage 3"). In determining the appropriate stage for a financial instrument, the Company applies the definition of default consistent with the Basel definition of default to maintain uniformity of the definition across the Firm.

The stage determination for credit losses under the ECL model is dependent on the measurement of a significant increase in credit risk ("SICR"). In determining SICR, the Company plans to conduct quantitative tests taking into consideration, but not limited to, existing risk management indicators, credit rating changes and reasonable and supportable forward-looking information, the latter consisting of a range of scenarios incorporating macro-economic factors composed and monitored by an internal specialised economic forecasting team.

The key input components for the quantification of expected loss through the ECL model includes the probability of default ("PD"), loss given default ("LGD") and exposure at default ("EAD"). The Company seeks to efficiently and effectively leverage as much as possible from existing regulatory and capital frameworks where overlap is present for the implementation of IFRS 9. Differences observed between content in existing frameworks and requirements under IFRS 9 have been identified and are adjusted accordingly. The inputs to the ECL model capture historical datasets and a reasonable and supportable forecasting horizon to estimate expected credit losses.



# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 3. Accounting and reporting developments (continued)

#### New standards, amendments and interpretations not yet adopted (continued)

##### IFRS 9 'Financial instruments' ("IFRS 9") (continued)

###### *Expected impact*

Based on 31 December 2017 data, the Company estimates the adoption of the IFRS 9 impairment requirements to result in an immaterial impact on retained earnings. The degree to which the allowance for credit losses will change will depend on both the forward-looking information used on the day of implementation as well as the Company's portfolio composition. Based on 31 December 2017 data, the Company also estimates the adoption of the classification and measurement requirements in IFRS 9 to result in an immaterial impact to retained earnings and other reserves.

For the financial statements for the year ended 31 December 2018, the Company will provide reconciliations and illustrative transition disclosures between IAS 39 and IFRS 9 where required, however the Company will not restate prior periods.

##### IFRS 15 'Revenue from Contracts with Customers' ("IFRS 15")

IFRS 15 was released in May 2014 by the IASB. This standard requires that revenue from contracts with customers be recognised upon transfer of control of a good or service in the amount of consideration expected to be received. IFRS 15 also changes the accounting for certain contract costs, including whether they may be offset against revenue in the income statement, and requires additional disclosures about revenue and contract costs. IFRS 15 may be adopted using a full retrospective approach or a modified, cumulative effect approach wherein the guidance is applied only to existing contracts as of the date of initial application, and to new contracts transacted after that date. IFRS 15 is applicable retrospectively and must be applied in an entity's first annual IFRS financial statements for periods beginning on or after 1 January 2018. The Company has adopted the new standard on 1 January 2018, using the full retrospective method of adoption, where applicable.

###### *Implementation programme*

The Company's implementation efforts included the identification of revenue and associated costs within the scope of the guidance, as well as the evaluation of revenue contracts, and any changes to existing revenue recognition policies. The Company did not identify any material changes in the timing of revenue recognition or presentation of revenues and expenses.

### 4. Critical accounting estimates and judgements

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

#### *Fair value measurement*

The Company carries a significant portion of its assets and liabilities at fair value on a recurring basis. Estimating fair value often requires the application of judgement. The type and level of judgement required is largely dependent on the amount of observable market information available to the Company. For instruments valued using internally developed models that use significant unobservable inputs that are classified within level 3 of the valuation hierarchy, judgements used to estimate fair value are more significant than those required when estimating the fair value of instruments classified within levels 1 and 2.

In arriving at an estimate of fair value for an instrument within level 3, management must first determine the appropriate model to use. Second, the lack of observability of certain significant inputs requires management to assess all relevant empirical data in deriving valuation inputs - including, for example, transaction details, yield curves, interest rates, prepayment rates, default rates, volatilities, correlations, equity or debt prices, valuations of comparable instruments, foreign exchange rates and credit curves. For further discussion of the valuation of level 3 instruments, including unobservable inputs used, see note 28.

For instruments classified in levels 2 and 3, management judgement must be applied to assess the appropriate level of valuation adjustments, the Company's credit-worthiness, market funding rates, liquidity considerations, unobservable parameters, and for portfolios that meet specified criteria, the size of the net open risk position. The judgements made are typically affected by the type of product and its specific contractual terms, and the level of liquidity for the product or within the market as a whole. For further discussion of valuation adjustments applied by the Company, see note 28.

The use of methodologies or assumptions different than those used by the Company could result in a different estimate of fair value at the reporting date. For a detailed discussion of the Company's valuation process and hierarchy, its determination of fair value for individual financial instruments, and the potential impact of using reasonable possible alternative assumptions for the valuations, see note 28.

# **J.P. MORGAN SECURITIES PLC**

## **Notes to the financial statements (continued)**

### **5. Significant accounting policies**

The following are principal accounting policies applied in the preparation of these financial statements. These policies have been applied consistently to all the years presented, unless otherwise stated.

#### **5.1 Consolidation**

The Company is a subsidiary undertaking of J.P. Morgan Capital Holdings Limited, a company incorporated in England and Wales and of its ultimate parent, JPMorgan Chase & Co. a company incorporated in the United States of America. It is included in the consolidated financial statements of JPMorgan Chase & Co. which are publicly available. Therefore, the Company has elected not to prepare group financial statements in accordance with the dispensation set out in Section 401 of the Companies Act 2006.

#### **5.2 Functional and presentation currency**

Items included in the financial statements of the Company are measured using the currency of the primary economic environment in which the entity operates (the "functional currency"). Taking into account the cash flows, the financing structure, including United States ("U.S.") dollar equity and inter-entity financing arrangements with JPMorgan Chase Bank N.A., U.S. dollars is considered as the functional and presentation currency of the Company.

#### **5.3 Foreign currency translation**

Monetary assets and monetary liabilities in foreign currencies are translated into U.S. dollars at rates of exchange ruling on the balance sheet date. Income and expense items denominated in foreign currencies are translated into U.S. dollars at exchange rates prevailing at the date of the transactions. Any gains or losses arising on translation are taken directly to the income statement.

Non-monetary items denominated in foreign currencies that are stated at historical cost are translated into U.S. dollars at the exchange rate ruling at the date of the transaction.

Non-monetary items denominated in foreign currencies that are stated at fair value are translated into U.S. dollars at foreign exchange rates ruling at the dates when the fair values were determined. Translation differences arising on non-monetary items measured at fair value are recognised in the income statement except for differences arising on available-for-sale non-monetary financial assets, which are included in the financial assets available-for-sale reserve.

#### **5.4 Income and expense recognition**

Interest income and expense are recognised on an effective interest rate basis, refer note 7. Interest generated as a result of 'negative' interest rates is recognised gross, as interest income or interest expense. All contractual terms of a financial instrument are considered when estimating future cash flows.

Fees and commissions are recognised when the underlying contract becomes legally binding or at the agreed due date if later. Investment banking fees include advisory and underwriting fees. Advisory fees are recognised when the related services have been performed and the fee has been earned. Underwriting fees are recognised when the Company has rendered all services and is entitled to collect the fee, and there are no other contingencies associated with the fee.

Profits and losses resulting from the purchase and sale of securities and the revaluation of financial instruments are recognised as trading gains or losses on a trade-date basis, including related transaction costs but excluding the associated interest.

#### **5.5 Dividend recognition**

Dividend income is recognised when the right to receive payment is established. Dividends in the form of non-cash assets are recognised at their fair values by the transferee and derecognised at their book value by the transferor. Where the asset received is an investment in the share capital of an entity, the fair value is determined by the market value of the underlying net assets and businesses of the investee, unless the transaction is a combination of businesses under common control where predecessor accounting is applied (refer note 5.16).

Dividend distributions are recognised in the period in which they are declared and approved.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 5. Significant accounting policies (continued)

#### 5.6 Financial assets and financial liabilities

The Company classifies its financial assets and financial liabilities in the following categories on initial recognition: financial assets and financial liabilities held for trading, financial assets and financial liabilities designated at fair value through profit or loss, and loans and receivables and financial liabilities held at amortised cost. The Company recognises derivatives on its balance sheet when it becomes a party to the contractual provisions of the instruments. Loans and receivables and financial liabilities at amortised cost are recognised when the Company becomes a party to the contractual provisions of the instrument. Regular way purchases and sales of financial assets are recognised on the trade-date, the date on which the Company commits to purchase or sell the asset.

##### i. Financial assets and financial liabilities held for trading

The Company considers a financial asset or financial liability as held for trading if it is acquired or incurred principally for the purpose of selling or repurchasing it in the near term, or forms part of a portfolio of identified financial instruments that are managed together and for which there is evidence of a recent actual pattern of short-term profit taking or it is a derivative.

Financial assets and financial liabilities held for trading comprise both debt and equity securities, loans and derivatives. These instruments are either held for trading purposes or used for hedging certain assets, liabilities, positions, cash flows or anticipated transactions. Included in financial assets held for trading and financial liabilities held for trading, are unrealised trading gains and losses. Financial instruments held for trading are initially recognised at fair value in the balance sheet with transaction costs being recorded in profit or loss and any gains or losses are taken directly to the income statement. Subsequently, they are measured at fair value with movement included in trading profit and loss.

The Firm manages cash instruments, in the form of debt and equity securities, and derivatives on a unified basis as part of the trading strategy, including hedging relationships between cash securities and derivatives. Accordingly the Firm reports the gains and losses on the cash instruments and the gains and losses on the derivatives on a net basis in trading profits.

##### ii. Financial assets and financial liabilities designated at fair value through profit or loss

Financial assets and financial liabilities that the Company designates on initial recognition as being at fair value through profit or loss are recognised at fair value, with transaction costs being recognised in profit or loss and subsequently measured at fair value. Gains and losses on financial assets and financial liabilities that are designated at fair value through profit or loss are recognised in profit or loss as they arise. A financial instrument may only be designated at inception as held at fair value through profit or loss and cannot subsequently be reclassified.

Financial assets or financial liabilities are designated at fair value through profit or loss only if such designation (a) eliminates or significantly reduces a measurement or recognition inconsistency; or (b) applies to a group of financial assets, financial liabilities or both that the Company manages and evaluates on a fair value basis; or (c) relates to an instrument that contains an embedded derivative unless the embedded derivative does not significantly modify the cash flows required by the contract or when a similar hybrid instrument is considered that separation of the embedded derivative is prohibited.

The Company has designated certain equity securities and wholesale loans at fair value through profit or loss on the basis that they are managed and their performance evaluated on a fair value basis.

##### iii. Loans and receivables and financial liabilities at amortised cost

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market except those that are classified as held for trading or designated at fair value through profit or loss. Loans and receivables include loans and advances to banks, loans and advances to customers and debtors

Loans and receivables are initially recognised at fair value including directly related incremental transaction costs. They are subsequently measured at amortised cost, including any provision for impairment losses. Interest is recognised in the income statement as 'Interest and similar income' using the effective interest rate method (see below).

Financial liabilities include trade creditors and borrowings and are recognised initially at fair value including directly related incremental transaction costs and subsequently measured at amortised cost using the effective interest method (see below).

The effective interest method is used to calculate the amortised cost of a financial asset or financial liability (or a group of financial assets or financial liabilities). It is a method of allocating the interest income or interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial asset or financial liability or, when appropriate, a shorter period to the net carrying amount of the financial asset or financial liability. The effective interest rate is established on initial recognition of the financial asset or financial liability. The calculation of the effective interest rate includes all fees and commissions paid or received, transaction costs, and discounts or premiums that are an integral part of the effective interest rate. Transaction costs are incremental costs that are directly attributable to the acquisition, issue or disposal of a financial asset or financial liability.

# **J.P. MORGAN SECURITIES PLC**

## **Notes to the financial statements (continued)**

### **5. Significant accounting policies (continued)**

#### **5.7 Fair value**

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Fair values are determined by reference to observable market prices where available and reliable. Fair values of financial assets and financial liabilities are based on quoted market prices or dealer price quotations for financial instruments traded in active markets. Where market prices are unavailable, fair value is based on valuation models that consider relevant transaction characteristics (such as maturity) and use as inputs observable or unobservable market parameters, including but not limited to yield curves, interest rates, volatilities, equity or debt prices, foreign exchange rates and credit curves. Valuation adjustments may be made to ensure that financial instruments are recorded at fair value.

For financial assets and liabilities held at fair value, most market parameters in the valuation model are either directly observable or are implied from instrument prices. When input values do not directly correspond to the most actively traded market parameters the model may perform numerical procedures in the pricing such as interpolation.

The Company classifies its assets and liabilities according to a hierarchy that has been established under IFRS for disclosure of fair value measurements. The fair value hierarchy is based on the transparency of inputs to the valuation of an asset or liability as of the measurement date. The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities (level 1) and the lowest priority to unobservable inputs (level 3 inputs).

A financial instrument's categorisation within the fair value hierarchy is based on the lowest level of input that is significant to the fair value measurement.

Further details on fair value measurements are provided in note 28 to the financial statements.

#### **5.8 Recognition of deferred day one profit and loss**

The Company enters into transactions where fair value is determined using valuation models for which not all inputs are market observable prices or rates. Such a financial instrument is initially recognised at the transaction price, although the value obtained from the relevant valuation model may differ. The difference between the transaction price and the model value, commonly referred to as 'day one profit and loss', is not recognised immediately in the income statement when based on unobservable inputs.

The timing of recognition of deferred day one profit and loss is determined for each class of financial asset and liability. It is either amortised over the life of the transaction, deferred until the instrument's fair value can be determined using market observable inputs, or realised through settlement. The financial instrument is subsequently measured at fair value, adjusted for the deferred day one profit and loss.

#### **5.9 Derecognition of financial assets and financial liabilities**

Financial assets are derecognised when the contractual right to receive cash flows from the asset has expired, or has been transferred with either of the following conditions met:

- a) the Company has transferred substantially all the risks and rewards of ownership of the asset; or
- b) the Company has neither retained nor transferred substantially all of the risks and rewards; but has relinquished control of the asset.

Financial liabilities are derecognised when they are extinguished, that is when the obligation is discharged, cancelled or expires.

The Company also from time to time enters into certain 'pass-through' arrangements whereby contractual cash flows on a financial asset are passed to a third party. Such financial assets are derecognised from the balance sheet if the terms of the arrangement oblige the Company to only pass on contractual cash flows to the third party that are actually received without material delay, and where the terms of the arrangement also prohibit the Company from selling or pledging the underlying financial asset.

#### **5.10 Impairment of financial assets**

The Company assesses at each balance sheet date whether there is any objective evidence that a financial asset or portfolio of financial assets is impaired. A financial asset or portfolio of financial assets is deemed to be impaired if, and only if, there is objective evidence of impairment as a result of one or more events that has occurred after the initial recognition of the asset and that event (or events) has an adverse impact on the estimated future cash flows of the financial asset or group of financial assets that can be reliably estimated.

# **J.P. MORGAN SECURITIES PLC**

## **Notes to the financial statements (continued)**

### **5. Significant accounting policies (continued)**

#### **5.10 Impairment of financial assets (continued)**

Impairment losses on loans and receivables are measured as the difference between the financial asset's carrying amount and the present value of the estimated future cash flows discounted at the financial asset's effective interest rate. The loss is recognised in the income statement against the carrying amount of the impaired asset on the balance sheet. Interest continues to be accrued on the reduced carrying amount based on the original effective interest rate of the financial asset.

Specific provisions are raised against loans and receivables when the Company considers that the credit worthiness of the borrower has deteriorated such that the recovery of the whole or part of an outstanding advance is in serious doubt.

Impairment provisions are also raised to cover losses which, although not specifically identified, are known from experience to have occurred in the portfolio of loans and receivables at the balance sheet date. These provisions are adjusted on a monthly basis by an appropriate charge or reversal of the provision following an assessment of the loans and receivables portfolio.

Impairment provisions are determined by modelling the current exposure, taking into account such factors as duration and probabilities of default.

If, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognised, the previously recognised impairment loss shall be reversed in the income statement. The amount of reversal shall not result in a carrying amount of the financial asset that exceeds what the amortised cost would have been had the impairment not been recognised at the date the impairment is reversed.

#### **5.11 Impairment of non-financial assets**

Non-financial assets that are subject to amortisation are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal and value in use. For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are largely independent cash inflows (cash-generating units). Prior impairments of non-financial assets (other than goodwill) are reviewed for possible reversal at each reporting date.

#### **5.12 Securities purchased under agreement to resell and securities sold under agreement to repurchase**

Securities purchased under agreements to resell the securities to the counterparty, and securities sold under agreements to repurchase, are treated as collateralised lending and borrowing transactions respectively. The consideration for the transaction can be in the form of cash or securities. If the consideration for the purchase or sale of securities is given in cash the transaction is recorded on the balance sheet within securities purchased/sold under agreement to resell/repurchase. If the consideration is received or given in the form of securities the transaction is recorded off balance sheet. The difference between the sales and repurchase price is treated as interest and accrued over the life of the agreements using the effective interest method.

#### **5.13 Securities borrowed and securities loaned transactions**

Securities borrowed and securities loaned are recorded at the amount of cash collateral advanced or received. Securities borrowed and securities loaned transactions require the borrower to deposit cash, letters of credit or other collateral with the lender. If the consideration is received or given in the form of securities the transaction is recorded off balance sheet. Fees received or paid in connection with securities borrowed and loaned are treated as interest income or interest expense and accrued over the life of the transaction using the effective interest rate method.

#### **5.14 Offsetting financial assets and liabilities**

Financial assets and financial liabilities are offset and the net amount reported in the balance sheet when there is currently a legally enforceable right to offset the recognised amounts and there is an intention to settle on a net basis or to realise the asset and settle the liability simultaneously. The legally enforceable right must not be contingent on future events and must be enforceable in the normal course of business and in the event of default, insolvency or bankruptcy of the Company or the counterparty.

#### **5.15 Investments in JPMorgan Chase undertakings**

Investments in JPMorgan Chase undertakings are stated at cost less impairment. Where the investments in the share capital of JPMorgan Chase undertakings are acquired by way of a dividend in kind, these are initially recognised at fair value, unless the transaction is a combination of business under common control where predecessor accounting is applied (refer note 5.16). Investments in JPMorgan Chase undertakings are subsequently measured at cost less provision for impairment.

# **J.P. MORGAN SECURITIES PLC**

## **Notes to the financial statements (continued)**

### **5. Significant accounting policies (continued)**

#### **5.16 Business combinations**

##### **i. Combination of businesses**

Business combinations are accounted for by applying the acquisition method of accounting.

The cost of a business combination is the fair value of the consideration given, liabilities incurred or assumed and of equity instruments issued plus the costs directly attributable to the business combination. Where control is achieved in stages, the cost is the consideration at the date of each transaction.

On acquisition of a business, fair values are attributed to the identifiable assets, liabilities and contingent liabilities unless the fair value cannot be measured reliably, in which case the value is incorporated in goodwill. Where the fair value of contingent liabilities cannot be reliably measured they are disclosed on the same basis as other contingent liabilities.

Goodwill recognised represents the excess of the fair value and the directly attributable costs of the purchase consideration over the fair values to the Firm's interest in the identifiable net assets, liabilities and contingent liabilities acquired.

##### **ii. Combination of businesses under common control**

Predecessor accounting is applied to transfers of businesses between entities under common control, where all combining entities are controlled by the same entity before and after the business acquisition. Assets and liabilities are recognised at their predecessor carrying amounts (i.e. the carrying amounts of assets and liabilities in the books and records of the transferor prior to the transfer) with no fair value adjustments. Any difference between the cost of acquisition and aggregate book value of the assets and liabilities on the date of transfer of the acquired entity is recognised as an adjustment to equity. As a result, no goodwill is recognised from the business combination.

#### **5.17 Cash and cash equivalents**

Cash and cash equivalents include cash and balances at central banks and loans and advances to banks with maturities of three months or less.

#### **5.18 Current and deferred income tax**

Income tax payable on taxable profits (current tax) is recognised as an expense in the period in which the profits arise. Income tax recoverable on tax allowable losses is recognised as a current tax asset only to the extent that it is regarded as recoverable by offset against taxable profits arising in the current or prior period. Current tax is measured using tax rates and tax laws that have been enacted or substantively enacted at the balance sheet date.

Deferred tax is provided in full, using the liability method, on temporary differences arising from the differences between the tax bases of assets and liabilities and their carrying amounts in the financial statements. Deferred tax is determined using tax rates and legislation enacted or substantively enacted by the balance sheet date, which are expected to apply when the deferred tax asset is realised or the deferred tax liability is settled. Deferred tax assets and liabilities are only offset when there is both a legal right and an intention to settle on a net basis. Current tax and deferred tax are recognised directly in equity if the tax relates to items that are recognised in the same or a different period in equity.

#### **5.19 Provisions and contingent liabilities**

Provisions are recognised when the Company has a present legal or constructive obligation as a result of past events, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation, and a reliable estimate of the amount of the obligation can be made.

A contingent liability is a possible obligation that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Company, or a present obligation that arises from past events but is not recognised because either an outflow of economic benefits is not probable or the amount of the obligation cannot be reliably measured. Contingent liabilities are not recognised in the financial statements; however disclosure is made unless the probability of settlement is remote.

# **J.P. MORGAN SECURITIES PLC**

## **Notes to the financial statements (continued)**

### **5. Significant accounting policies (continued)**

#### **5.20 Pensions and other post-retirement benefits**

The Company operates both defined benefit and defined contribution schemes for its employees. The Company also operates defined benefit and defined contribution schemes for employees in the European branches.

##### **i. Defined contribution scheme**

A defined contribution plan is a pension plan under which the Company pays fixed contributions into a separate entity. The Company has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. Obligations for contributions to defined contribution pension plans are recognised as an expense and charged to the income statement on an accrual basis.

##### **ii. Defined benefit scheme**

For defined benefit schemes, the service cost of providing retirement benefits to employees during the year is charged to the income statement in accordance with IAS 19 'Employee benefits'. The pension costs are assessed based on the advice of qualified actuaries so as to recognise the full cost of provision of contracted pension benefits over the period of employees' service lives.

The defined benefit schemes' liabilities are measured on an actuarial basis and scheme assets measured at their fair values separately for each plan. Any surplus or deficit of scheme assets over liabilities is recognised on the balance sheet as an asset (surplus) or liability (deficit). The current service cost and any past service costs together with the expected return on scheme assets less the unwinding of discount on the scheme liabilities is charged to the income statement. Actuarial gains and losses are recognised in full in the period in which they occur in other comprehensive income and presented in equity in the period in which they occur.

#### **5.21 Share-based payment awards**

Share-based payment awards may be made to employees of the Company under the Firm's incentive awards schemes. The fair value of any such shares, rights to shares or share options is measured when the conditional award is made. This value is recognised as the compensation expense to the Company over the period to which the performance criteria relate together with employer's social security expenses or other payroll taxes. All of the awards granted are equity settled. The Company estimates the level of forfeitures and applies this forfeiture rate at the grant date.

Additionally, the conditions that must be satisfied before an employee becomes entitled to equity instruments under the Firm's incentive programs is taken into consideration. The Firm's Retirement Eligibility rules for restricted stock awarded as part of incentive programs require the acceleration of the amortisation of the award such that the award is fully expensed at the time the retirement eligibility comes into force.

### **6. Segmental analysis**

The Company is not in scope of IFRS 8 'Operating segments' and therefore has not provided any segmental analysis. The Company has one class of business, the provision of international Corporate and Investment Banking services within Europe, the Middle East and Africa ("EMEA"). The Company operates six branches outside of the UK, but these do not generate material revenues.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 7. Net Interest income and interest expense

Interest income and interest expense includes the current-period interest accruals within interest income or interest expense, as applicable.

Details of interest income and interest expense were as follows:

	2017	2016
	\$'000	\$'000
<b>Net interest income/(expense)</b>		
Financial assets and liabilities held for trading	850,553	472,739
Securities purchased under agreements to resell and securities sold under agreements to repurchase	730,117	400,577
Securities borrowed and securities loaned	(281,976)	(275,811)
Other interest income and expense*	(522,733)	(5,923)
<b>Net interest income</b>	<b>775,961</b>	<b>591,582</b>

\* Other interest includes interest income on loans and advances to customers and interest expense on borrowings from JPMorgan Chase undertakings.

Net interest income for the year ended 31 December 2017 includes \$864 million income and \$1,349 million expense from and to JPMorgan Chase undertakings (2016: \$413 million income, \$497 million expense).

In 2016, an amount of \$317 million included within interest and similar income, representing 'negative' interest income, has been reclassified to interest expense and similar charges and an amount of \$306 million included within interest expense and similar charges, representing 'negative' interest expense, has been reclassified to interest and similar income. These amounts have been reclassified to correctly reflect the nature of the balance.

### 8. Impairment

	2017	2016
	\$'000	\$'000
<b>Write down of investments in JPMorgan Chase undertakings</b>		
Opening balance as at 1 January	117,359	—
Increase during the year	—	117,359
<b>Closing balance as at 31 December</b>	<b>117,359</b>	<b>117,359</b>
<b>Allowance for loan losses</b>		
Opening balance as at 1 January	2,733	2,733
Increase/(decrease) during the year	127,251	—
Impairment write off	(28,789)	—
<b>Closing balance as at 31 December</b>	<b>101,195</b>	<b>2,733</b>
<b>Allowance for lending-related commitments</b>		
Opening balance as at 1 January	380	380
Increase during the year	20,226	—
<b>Closing balance as at 31 December</b>	<b>20,606</b>	<b>380</b>
<b>Net impairment increase</b>	<b>147,477</b>	<b>117,359</b>



# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 9. Directors' emoluments

	2017	2016
	\$'000	\$'000
Emoluments	1,475	4,461
Total contributions to a defined contribution plan	9	14
Total value of long term incentive plans for all directors	27	3,784
Compensation to non-executive directors	773	851
<hr/>		
Number of directors who exercised share options	2	4
Number of directors with shares received or receivable under LTIPs	1	2
Number of directors to whom defined contribution pension rights accrued	4	5

In accordance with the Companies Act 2006, the directors' emoluments above represent the proportion paid or payable in respect of qualifying services to the Company only. Directors also received emoluments for non-qualifying services, which are not required to be disclosed.

#### Highest paid director

The emoluments (excluding amounts paid or due to directors under long-term incentive plans ("LTIP's") and the value of share options granted or exercised by directors) of the highest paid director were \$668,860 (2016: \$3,091,725).

The contribution to the defined contribution scheme for the highest paid director during 2017 was \$7,630 (2016: \$5,101). The highest paid director did not exercise share options during the year (the highest paid director exercised share options in 2016). During the year, no shares were received or are receivable by the highest paid director under long-term incentive plans (shares were received or receivable by the highest paid director under long term incentive plans during 2016).

### 10. Profit on ordinary activities before taxation

	2017	2016
	\$'000	\$'000
Profit on ordinary activities before taxation is stated after charging:		
Depreciation of tangible fixed assets	1,760	1,290
Auditors' remuneration for the audit of the Company's annual financial statements	2,874	2,468
Audit-related assurance services	2,168	849
Wages and salaries	882,633	733,942
Social security costs	215,222	138,753
Other pension and benefits costs	66,270	59,262
Share-based awards	309,688	249,203

The average monthly number of persons providing services to the Company during the year was 1,959 (2016: 1,586). The average monthly number of staff employed by the European branches during the year was 241 (2016: 138).

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 11. Tax on profit on ordinary activities

	2017	2016
	\$'000	\$'000
<b>(a) Analysis of tax charge for the year</b>		
<b>Current taxation</b>		
UK Corporation tax on profit for the year	960,531	831,585
Overseas taxation	322,719	169,405
Less: Double tax relief	(289,736)	(180,277)
Adjustments in respect of previous years	(61,266)	25,385
<b>Current tax expense for the year</b>	<b>932,248</b>	<b>846,098</b>
Deferred tax (note 12):		
Origination and reversal of temporary differences	14,825	8,137
Adjustment in respect of previous year	19,341	(11,844)
Effect of rate change on opening balance	(2,824)	(582)
<b>Deferred tax credit for the year</b>	<b>31,342</b>	<b>(4,289)</b>
<b>Total tax expense for the year</b>	<b>963,590</b>	<b>841,809</b>

### (b) Factors affecting the current tax charge for the year

The current tax charge for the year differs from the standard rate of corporation tax in the UK including banking surcharge (27.25%). The differences are explained below:

	2017	2016
	\$'000	\$'000
Profit on ordinary activities before taxation	3,599,049	3,987,453
Profit on ordinary activities before taxation multiplied by standard rate of corporation tax in UK of 27.25% (2016: 28%).	980,741	1,116,487
Effects of:		
Non-deductible expenses	9,101	77,817
Income not taxable	(14,827)	(52,792)
Dividend income	—	(168,000)
Transfer pricing adjustments	18,233	10,381
Other adjustment	—	2,577
Adjustments in respect of previous years	(41,924)	13,541
Group relief claimed for nil consideration	(25,956)	(146,748)
Foreign taxation suffered	32,983	(10,873)
Impact of change in rate on deferred tax	5,239	(581)
<b>Total tax expense for the year</b>	<b>963,590</b>	<b>841,809</b>

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 12. Deferred tax

The analysis of deferred tax assets and deferred tax liabilities is as follows:

	2017	2016
	\$'000	\$'000
Deferred tax assets:		
Deferred tax assets to be recovered after more than 12 months	104,605	96,747
Deferred tax asset to be recovered within 12 months	40,300	48,373
	144,905	145,120
Deferred tax liabilities:		
Deferred tax liability to be reversed after more than 12 months	(39,075)	(8,213)
Deferred tax liability to be reversed within 12 months	(1,196)	(1,173)
	104,634	135,734

The gross movement on the deferred income tax account is as follows:

	2017	2016
	\$'000	\$'000
As at 1 January	135,734	94,590
Depreciation in excess of capital allowances	(167)	(576)
Deferral of share-based payments	7,790	24,152
Other adjustment	(38,723)	17,568
	104,634	135,734

The movement in deferred income tax assets and liabilities during the year, without taking into consideration the offsetting of balances within the same tax jurisdiction, is as follows:

Deferred tax asset	Accelerated capital allowances	Share-based payments	Other	Total
	\$'000	\$'000	\$'000	\$'000
At 1 January 2016	3,643	81,173	9,774	94,590
(Charged)/credited to the income statement	(576)	6,475	(1,610)	4,289
Credited directly to equity	—	17,677	270	17,947
Credited directly to other comprehensive income	—	—	18,908	18,908
At 31 December 2016	3,067	105,325	27,342	135,734
(Charged)/credited to the income statement	(167)	(3,801)	(27,374)	(31,342)
Credited directly to equity	—	11,591	—	11,591
Credited directly to other comprehensive income	—	—	(11,349)	(11,349)
At 31 December 2017	2,900	113,115	(11,381)	104,634

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 13. Loans and advances to banks

	2017	2016
	\$'000	\$'000
Loans and advances to banks	9,812,066	6,123,936

Included within loans and advances to banks is \$7.1 billion (2016: \$4.3 billion) held with JPMorgan Chase undertakings.

The Company maintains certain client money balances which principally arise where it acts on behalf of its clients as a clearing member for derivatives that are cleared through central counterparties. The Company has considered its rights and obligations relating to funds belonging to clients that are held subject to client money protection under the Client Assets Sourcebook, with banks, exchanges and clearing houses, and concluded that such amounts should not be recognised on balance sheet. Therefore, client money assets amounting to \$13.9 billion (2016: \$12.5 billion) have been derecognised from the Company's balance sheet, \$7.0 billion (2016: \$4.5 billion) from loans and advances to banks and \$7.2 billion (2016: \$8.0 billion) from debtors respectively.

### 14. Loans and advances to customers

The Company's loan portfolio is within the wholesale loan segment. Wholesale loans include loans made to a variety of customers, such as large corporates and institutional clients.

	2017	2016
	\$'000	\$'000
Loans and advances to customers	2,713,517	3,102,786
Provision for impairment	(129,984)	(2,733)
Impairment write off	28,789	—
	2,612,322	3,100,053

The credit quality and analysis of concentration of loans and advances to customers is managed within the Firm's Credit Risk Management function, refer to the Strategic report.

### 15. Securities financing activities

JPMS plc enters into resale agreements, repurchase agreements, securities borrowed and securities loaned transactions (collectively, "securities financing agreements") primarily to finance the Company's inventory positions, acquire securities to cover short positions, accommodate customers' financing needs, and settle other securities obligations.

Securities purchased and securities sold under agreements to resell/repurchase and securities borrowed and securities loaned transactions are generally carried at the amount of cash collateral advanced or received.

Secured financing transactions expose the Company to credit and liquidity risk. To manage these risks, the Company monitors the value of the underlying securities (predominantly high-quality securities collateral, including government-issued debt and agency mortgage-backed securities) that it has received from or provided to its counterparties compared to the value of cash proceeds and exchanged collateral, and either requests additional collateral or returns securities or collateral when appropriate. Margin levels are initially established based upon the counterparty, the type of underlying securities, and the permissible collateral, and are monitored on an ongoing basis.

In resale agreements and securities borrowed transactions, the Company is exposed to credit risk to the extent that the value of the securities received is less than initial cash principal advanced and any collateral amounts exchanged. In repurchase agreements and securities loaned transactions, credit risk exposure arises to the extent that the value of underlying securities exceeds the value of the initial cash principal advanced, and any collateral amounts exchanged.

Additionally, the Company typically enters into master netting agreements and other similar arrangements with its counterparties, which provide for the right to liquidate the underlying securities and any collateral amounts exchanged in the event of a counterparty default. It is also the Company's policy to take possession, where possible, of the securities underlying resale agreements and securities borrowed transactions.

Refer to note 29 for additional information on netting arrangements.

**J.P. MORGAN SECURITIES PLC**  
**Notes to the financial statements (continued)**

**15. Securities financing activities (continued)**

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Securities purchased under agreements to resell	135,385,611	130,416,852
Securities borrowed	27,072,599	25,831,106
	<u>162,458,210</u>	<u>156,247,958</u>
Securities sold under agreements to repurchase	74,937,158	61,657,271
Securities loaned	12,550,040	20,133,325
	<u>87,487,198</u>	<u>81,790,596</u>

Securities financing transaction balances include the following amounts held with other JPMorgan Chase undertakings:

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Securities purchased under agreements to resell	42,694,037	41,017,708
Securities borrowed	11,761,045	20,449,114
	<u>54,455,082</u>	<u>61,466,822</u>
Securities sold under agreements to repurchase	13,909,031	12,366,287
Securities loaned	10,007,640	18,205,412
	<u>23,916,671</u>	<u>30,571,699</u>

**16. Financial assets held for trading**

Within its client-driven market-making activities, the Company transacts in debt and equity instruments and derivatives.

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Debt and equity instruments	107,884,895	89,327,429
Derivative receivables	232,373,718	233,718,379
	<u>340,258,613</u>	<u>323,045,808</u>

Financial assets held for trading includes \$122 billion held with JPMorgan Chase undertakings (2016:\$124.9 billion).

**17. Financial assets designated at fair value through profit or loss**

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Equity instruments	164,384	144,728
Loans	177,218	170,931
	<u>341,602</u>	<u>315,659</u>

**J.P. MORGAN SECURITIES PLC**  
**Notes to the financial statements (continued)**

**18. Debtors**

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Trade debtors	30,394,066	22,534,256
Other debtors	49,252,556	33,938,769
	<u>79,646,622</u>	<u>56,473,025</u>

Trade debtors mainly consists of unsettled trades. Other debtors includes \$45.9 billion of cash collateral provided on derivatives (2016: \$33.5 billion).

Debtors includes the following balances from JPMorgan Chase undertakings:

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Trade debtors	13,952,580	10,641,074
Other debtors	29,329,759	14,189,512
	<u>43,282,339</u>	<u>24,830,586</u>

Trade debtors mainly consists of accounts receivable from JPMorgan Chase undertakings and unsettled trades. Other debtors includes \$29 billion of cash collateral provided on derivatives (2016: \$14.1 billion).

**19. Other assets**

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
Deferred taxation	104,634	135,734
Prepayments	5,427	508
Accrued income	652,028	447,989
	<u>762,089</u>	<u>584,231</u>

**20. Investments in JPMorgan Chase undertakings**

	<u>2017</u>	<u>2016</u>
	\$'000	\$'000
<b>Investments in JPMorgan Chase undertakings at cost</b>		
At 1 January	3,341,207	3,458,789
Write down - see below	—	(117,359)
Realisation of investments - see below	—	(223)
	<u>3,341,207</u>	<u>3,341,207</u>

In the prior year, on review of the carrying amount of the Company's investment in Cazenove Group Limited, the investment has been written down by \$117.4 million.

During the first quarter of 2016, the Company received a final cash distribution of \$517,000 from its subsidiary, Bank One Europe Limited, of which \$294,000 was recognised as a gain on disposal in the Income statement. Bank One Europe Limited was dissolved shortly thereafter.

## J.P. MORGAN SECURITIES PLC

### Notes to the financial statements (continued)

#### 20. Investments in JPMorgan Chase undertakings (continued)

The holdings of the Company are as follows:

Name	Address of subsidiary	Principal activity	Holding	Shares held %
Greenwood Nominees Limited	25 Bank Street, Canary Wharf, London, E14 5JP, England	Nominee company	Direct	100
J.P. Morgan Europe Limited	25 Bank Street, Canary Wharf, London, E14 5JP, England	Banking	Direct	100
Cazenove Group Limited	JPMorgan House, Grenville Street, St. Helier, JE4 8QH, Jersey	Holding company	Direct	100
J.P. Morgan Prime Nominees Ltd.	25 Bank Street, Canary Wharf, London, E14 5JP, England	Nominee company	Direct	100
J.P. Morgan Services LLP	25 Bank Street, Canary Wharf, London, E14 5JP, England	Dormant company	Direct	57
CP Group Holding Cooperatief U.A.	Strawinskyaan 1135, Tower B, 11th Floor, Amsterdam, 1077, Netherlands	Investment company	Direct	100
Chase Securities International Limited	25 Bank Street, Canary Wharf, London, E14 5JP, England	Investment company	Indirect	100
Chase International Securities (C.I.) Limited	Forum 4, Grenville Street, St. Helier, JE2 4UF, Jersey	Investment company	Indirect	100
Chemical Nominees Limited	25 Bank Street, Canary Wharf, London, E14 5JP, England	Investment company	Indirect	100
Cazenove Holdings Limited	JPMorgan House, Grenville Street, St. Helier, JE4 8QH, Jersey	Holding company	Indirect	100
Cazenove IP Limited	25 Bank Street, Canary Wharf, London, E14 5JP, England	Investment company	Indirect	100
JPMorgan Cazenove Holdings	25 Bank Street, Canary Wharf, London, E14 5JP, England	Holding company	Indirect	51
J.P. Morgan Cazenove Limited	25 Bank Street, Canary Wharf, London, E14 5JP, England	Investment company	Indirect	51
JPMorgan Cazenove Service Company	25 Bank Street, Canary Wharf, London, E14 5JP, England	Service company	Indirect	51
Cheyne Capital Guaranteed S.A. Series 2007-1 <sup>(a)</sup>	2 Boulevard Konrad Adenauer, Luxembourg, L-1115, Luxembourg	Notes issuer	Direct	100

(a) The above entity is a special purpose entity which meets the definition (per section 1162 of the Companies Act 2006) of a subsidiary undertaking.

The above investments are shown at cost less any provision for impairment. In the opinion of the directors, the value of the Company's investment in each subsidiary undertaking is not less than the amount at which it is stated in the balance sheet.

All shares held in the above subsidiaries are ordinary shares.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 21. Unconsolidated structured entities

#### Structured entities

A structured entity is an entity that has been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as, when any voting rights relate to administrative tasks only and the relevant activities are directed by means of other contractual arrangements.

Typically, structured entities have one or more of the following characteristics:

- an insufficient amount of at-risk equity to permit the entity to finance its activities without additional subordinated financial support;
- equity at-risk owners that, as a group, are not able to make significant decisions relating to the entity's activities through voting rights or similar rights; or
- equity at-risk owners that do not absorb the entity's losses or receive the entity's residual returns.

The most common type of structured entities is a special purpose entity ("SPE"). SPE's are commonly used in securitisation transactions in order to isolate certain assets and distribute the cash flows from those assets to investors. The party that has power to direct the most significant activities of the entity and an exposure to the risks of the entity (together constituting control of the entity) is required to consolidate the assets and liabilities of the structured entity. The structured entities in which the Company has control are consolidated into the parent undertakings of the Company, as set out in note 20 to these financial statements.

The Company has involvement with various structured entities, originated within the Firm or by third parties. These typically include securitisations, credit protection purchased credit linked notes, collateralised loan and debt obligations, and other structured financings.

Material interests held in SPE's include residential and commercial mortgage-backed securities and other asset-backed securities. These interests relate to securitisation bonds where the underlying assets are residential and commercial mortgages, consumer loans, student loans, trade receivables, and credit card receivables.

#### Interest in unconsolidated structured entities

The Company's interest in an unconsolidated structured entity is considered as the contractual and non-contractual involvement that exposes the Company to variability of returns from the performance of the structured entity but not deemed a subsidiary.

The following table shows, by type of structured entity, the carrying amounts of the Company's interest in unconsolidated structured entities recognised on the balance sheet. The maximum exposure to loss is considered as approximate to the carrying amounts. It also provides an indication of the size of the structured entities, measured by the total assets held in the structured entity. The carrying amounts do not necessarily reflect the risks faced by the Company, as factors such as economic hedges and effect of collateral held by the Company are not included.

	Interest in unconsolidated structured entities				
	Fair value of assets held by SPE	Financial assets and liabilities held for trading	Loans and advances to customers	Other	Total
31 December 2017	\$'000	\$'000	\$'000	\$'000	\$'000
Residential mortgage-backed securities	41,499,967	946,036	—	—	946,036
Commercial mortgage-backed securities	3,326,241	49,690	—	—	49,690
Other asset-backed securities	34,832,976	490,698	—	—	490,698
Credit-related notes and asset swap vehicles	73,776,415	255,094	—	—	255,094
Covered Bonds	122,148,567	75,266	—	—	75,266
Other	167,451,690	1,653,563	—	—	1,653,563
<b>Total assets</b>	<b>443,035,856</b>	<b>3,470,347</b>	<b>—</b>	<b>—</b>	<b>3,470,347</b>
Maximum exposure to loss	443,035,856	3,470,347	—	—	3,470,347
<b>Total liabilities</b>	<b>—</b>	<b>533,309</b>	<b>—</b>	<b>—</b>	<b>533,309</b>



# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 21. Unconsolidated structured entities (continued)

	Interest in unconsolidated structured entities				
	Fair value of assets held by SPE	Financial assets and liabilities held for trading	Loans and advances to customers	Other	Total
<b>31 December 2016</b>	<b>\$'000</b>	<b>\$'000</b>	<b>\$'000</b>	<b>\$'000</b>	<b>\$'000</b>
Residential mortgage-backed securities	128,093,000	750,000	—	—	750,000
Commercial mortgage-backed securities	21,654,000	95,000	365,000	—	460,000
Other asset-backed securities	27,923,000	174,000	50,000	—	224,000
Credit-related notes and asset swap vehicles	47,022,000	227,000	—	—	227,000
Collateralised debt obligations	6,883,000	101,000	—	—	101,000
Covered Bonds	394,504,000	171,000	—	—	171,000
Other	280,160,000	1,807,000	—	—	1,807,000
<b>Total assets</b>	<b>906,239,000</b>	<b>3,325,000</b>	<b>415,000</b>	<b>—</b>	<b>3,740,000</b>
<b>Maximum exposure to loss</b>	<b>906,239,000</b>	<b>3,325,000</b>	<b>415,000</b>	<b>—</b>	<b>3,740,000</b>
<b>Total liabilities</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>52,000</b>	<b>52,000</b>

### 22. Financial liabilities held for trading

	2017	2016
	\$'000	\$'000
Debt and equity instruments	46,215,803	42,248,042
Derivative payables	241,407,619	235,757,064
Other financial liabilities	20,664,646	15,520,640
	308,288,068	293,525,746

Financial liabilities held for trading includes \$166 billion held with JPMorgan Chase undertakings (2016: \$152.1 billion).

### 23. Trade creditors and other liabilities

	2017	2016
	\$'000	\$'000
Trade creditors <sup>(a)</sup>	30,479,035	29,755,510
Other liabilities:		
Accruals and deferred income	1,766,668	1,399,456
Taxation and social security <sup>(b)</sup>	311,635	575,237
Other <sup>(c)</sup>	25,271,893	23,844,456
<b>Total other liabilities</b>	<b>27,350,196</b>	<b>25,819,149</b>
<b>Total trade creditors and other liabilities</b>	<b>57,829,231</b>	<b>55,574,659</b>

(a) Trade creditors predominantly consists of unsettled trades, brokerage fees payable and liabilities in respect of assets transferred but not derecognised (note 32) and includes \$3.5 billion with other JPMorgan Chase undertakings (2016: \$2.6 billion). Amounts owed to JPMorgan Chase undertakings presented on the balance sheet represents financing and collateral arrangements with other JPMorgan Chase undertakings.

(b) Taxation and social security includes provisions for corporate tax, overseas tax and bank levy.

(c) Other includes \$25.2 billion (2016: \$23.5 billion) of cash collateral received related to OTC derivatives.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 24. Called-up share capital

	2017	2016
	\$'000	\$'000
<b>Issued and fully paid share capital</b>		
<b>At 1 January</b>		
1,039,262 ordinary shares (2016: 1,039,262) of \$10,000 each	10,392,620	10,392,620
34,648 preferred ordinary shares (2016: 34,648) of \$10,000 each	346,480	346,480
680,685 preference shares (2016: 680,685) of \$10,000 each	6,806,850	6,806,850
50,000 ordinary shares (2016: 50,000) of £1.24 each	100	100
2 ordinary shares (2016: 2) of £1 each	—	—
<b>Movements during the year</b>		
205,081 ordinary shares issued of \$10,000 each	2,050,810	—
34,648 preferred ordinary shares (2016: 34,648) of \$10,000 each	(346,480)	—
680,685 preference shares (2016: 680,685) of \$10,000 each	(6,806,850)	—
<b>At 31 December</b>		
1,244,343 ordinary shares (2016: 1,039,262) of \$10,000 each	12,443,430	10,392,620
0 preferred ordinary shares (2016: 34,648) of \$10,000 each	—	346,480
0 preference shares (2016: 680,685) of \$10,000 each	—	6,806,850
50,000 ordinary shares (2016: 50,000) of £1.24 each	100	100
2 ordinary shares (2016: 2) of £1 each	—	—
	12,443,530	17,546,050
	2017	2016
	\$'000	\$'000
<b>Preference shares in issue</b>		
5-year floating rate of \$10,000 each*	—	2,650,000
10-year fixed rate of \$10,000 each*	—	2,156,850
20-year fixed rate of \$10,000 each*	—	2,000,000
	—	6,806,850

\* Additional disclosure on the terms per tranche of preference shares and preferred ordinary shares is provided under note 25.

On 14 June 2017, the Company redeemed 3,648 preferred ordinary shares of \$10,000 each and 7,000 preference shares \$10,000 each comprising the entire shareholding of J.P. Morgan Capital Financing Limited; as a result the Company is wholly owned by J.P. Morgan Capital Holdings Limited.

Through a series of corporate steps that occurred instantaneously on 11 September 2017, 31,000 preferred ordinary shares and 673,685 preference shares of \$10,000 each were converted into 205,081 ordinary shares of \$10,000 each and 499,604 deferred shares of \$10,000 each. The deferred shares had no voting rights or any rights to dividends or distributions and were cancelled immediately, resulting in recognition of \$4,996 million in capital redemption reserve.

## **J.P. MORGAN SECURITIES PLC**

### **Notes to the financial statements (continued)**

#### **25. Dividends**

As at 11 September 2017, the Company no longer had any preference shares or preferred ordinary shares in issue. Interim dividends of \$359,303,501 were paid on the preference shares (2016: \$358,107,690) and \$6,696,499 on the preferred ordinary shares of the Company in 2017 (2016: \$5,261,655). An interim dividend of nil (2016: \$686,630,655) was paid on the ordinary shares of the Company for 2017. No final dividend was paid or proposed for 2017 (2016: nil).

The dividend rate on the preferred ordinary shares was 0.9% over 12 month U.S. dollar LIBOR on the nominal amount, and, if resolved to be distributed, was payable in priority to any dividend payable on ordinary shares, with no right to accumulation in the event of a deficiency of profits nor any further entitlement to participation in the profits of the Company. Subject to approval from the PRA, the Company could redeem at its option any preferred ordinary share at par, together with accrued dividend due, at any time after 26 March 2007. The preferred ordinary shares carried no voting rights at a general meeting of the Company. The ordinary shares carry 100% of the voting rights.

The dividend rate on the 5-year floating rate preference shares was 0.9% over 12 month U.S. dollar LIBOR on the nominal amount, and, if resolved to be distributed, was payable in priority to any dividend payable on ordinary shares, but *pari passu* to any payment to the holders of the preferred ordinary shares or any other preference shares, with no right to accumulation in the event of a deficiency of profits nor any further entitlement to participation in the profits of the Company. Subject to approval from the PRA, the Company could redeem at its option any 5-year floating rate preference share at par, together with accrued dividend due, at any time after 9 June 2009. The 5-year floating rate preference shares carried no voting rights at general meetings.

The dividend rate on the 10-year fixed rate preference shares was a fixed rate of 2.75% and 2.85% per series, above the 10-year U.S. Treasury Rate as at the date of issue, and, if resolved to be distributed, was payable in priority to any dividend payable on the ordinary shares, but *pari passu* to any payment to the holders of the preferred ordinary shares or any other preference shares, with no right to accumulation in the event of deficiency of profits nor any further entitlement to participation in the profits of the Company. Subject to approval from the PRA, the Company could redeem any series of the 10-year fixed rate preference shares at par at any time after the 10th anniversary of the date of issue of that series provided that the Company could only redeem exactly 20 per cent of the total number of preference shares issued in that series at par. The preference shares carried no voting rights at general meetings.

The dividend rate on the 20-year fixed rate preference shares was a fixed rate of 8% and, if resolved to be distributed, was payable in priority to any payment of dividend or other distribution to the holders of any junior obligations, but *pari passu* to any payment of dividend or other distribution to the holders of any parity obligations, with no right to accumulation in the event of deficiency of profits nor any further entitlement to participation in the profits of the Company. Subject to approval from the PRA, the Company could redeem at its option any 20-year fixed rate preference share at par, together with accrued dividend due, at any time after 20 years and one month of the date of issue of that series. The preference shares carried no voting rights at general meetings.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 26. Notes to the statement of cash flows

	2017	2016
	\$'000	\$'000
<b>Profit before income taxation</b>	3,599,049	3,987,453
Adjustments for:		
Depreciation of tangible fixed assets	1,760	1,290
Impairment of investments in JPMorgan Chase undertakings	—	117,359
Other non-cash movements	(2,554,965)	681,129
<b>Operating cash flows before changes in operating assets and liabilities</b>	<b>1,045,844</b>	<b>4,787,231</b>
<b>Changes in operating assets</b>		
Decrease in loans and advances to customers	487,731	192,771
(Increase)/decrease in securities purchased under resale agreements	(4,968,759)	6,419,632
Increase in securities borrowed	(1,241,493)	(10,792,219)
Increase in financial assets held for trading	(17,212,805)	(23,437,986)
Increase in financial assets designated at fair value through profit or loss	(25,943)	(190,374)
Increase in debtors and other assets	(23,259,302)	(18,329,453)
(Increase)/decrease in prepayments and accrued income	(208,958)	38,987
	<b>(46,429,529)</b>	<b>(46,098,642)</b>
<b>Changes in operating liabilities</b>		
Increase/(decrease) in securities sold under repurchase agreements	13,279,887	(3,864,900)
(Decrease)/increase in securities loaned	(7,583,285)	8,817,628
Increase in financial liabilities held for trading	14,762,322	30,167,276
Increase in financial liabilities designated at fair value through profit or loss	1,465,247	—
Increase in trade creditors	723,525	4,269,179
Increase in other liabilities	1,453,703	6,128,016
Increase/(decrease) in accruals and deferred income	367,212	(741,444)
	<b>24,468,611</b>	<b>44,775,755</b>
<b>Cash (used in)/generated from operating activities</b>	<b>(20,915,074)</b>	<b>3,464,344</b>

### 27. Commitments

#### Lending-related commitments and guarantees

The Company provides lending-related financial instruments (e.g., commitments and guarantees) to meet the financing needs of its customers. The contractual amount of these financial instruments represents the maximum possible credit risk to the Company should the counterparty draw upon the commitment or the Company be required to fulfill its obligation under the guarantee, and should the counterparty subsequently fail to perform according to the terms of the contract. Most of these commitments and guarantees expire without being drawn or a default occurring. As a result, the total contractual amount of these instruments is not, in the Company's view, representative of its actual future credit exposure or funding requirements.

	2017	2016
	\$'000	\$'000
Unused commitments on loans	18,615,564	15,180,394
Standby letters of credit and guarantees	1,839,881	126,391
	<b>20,455,445</b>	<b>15,306,785</b>

There are no lending commitments to other JPMorgan Chase undertakings (2016: nil).

# **J.P. MORGAN SECURITIES PLC**

## **Notes to the financial statements (continued)**

### **28. Assets and liabilities measured at fair value**

#### **Fair value**

##### **Valuation process**

The Company carries a portion of its assets and liabilities at fair value on a recurring basis.

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value is based on quoted market prices or inputs, where available. If listed prices or quotes are not available, fair value is based on valuation models and other valuation techniques that consider relevant transaction characteristics (such as maturity) and use as inputs observable or unobservable market parameters, including yield curves, interest rates, volatilities, equity or debt prices, foreign exchange rates, and credit curves.

The level of precision in estimating unobservable market inputs or other factors can affect the amount of gain or loss recorded for a particular position. Furthermore, while the Company believes its valuation methods are appropriate and consistent with those of other market participants, the methods and assumptions used reflect management judgement and may vary across the Company's businesses and portfolios. The use of different methodologies or assumptions to those used by the Company could result in a different estimate of fair value at the reporting date.

Risk-taking functions are responsible for providing fair value estimates for assets and liabilities carried on the balance sheet at fair value. The Firm's valuation control function, which is part of the Firm's Finance function and independent of the risk-taking functions, is responsible for verifying these estimates and determining any fair value adjustments that may be required to ensure that the Company's positions are recorded at fair value. The valuation control function verifies fair value estimates provided by the risk-taking functions by leveraging independently derived prices, valuation inputs and other market data, where available.

In determining the fair value of a derivative portfolio, valuation adjustments may be appropriate to reflect the credit quality of the counterparty, the credit quality of the Company, and the funding risk inherent in certain derivatives. The credit and funding risks of the derivative portfolio are generally mitigated by arrangements provided to the Company by JPMorgan Chase Bank, N.A. and therefore the Company takes account of these arrangements in estimating the fair value of its derivative portfolio.

##### **Valuation model review and approval**

If prices or quotes are not available for an instrument or a similar instrument, fair value is generally determined using valuation models that consider relevant transaction data such as maturity and use as inputs market-based or independently sourced parameters. The Model Risk function is independent of the model owners and reviews and approves valuation models used by the Company.

##### **Fair value hierarchy**

The Company classifies its assets and liabilities according to a valuation hierarchy that reflects the observability of significant market inputs. The three levels are defined as follows:

**Level 1** - inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets.

**Level 2** - inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, and inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument.

**Level 3** - one or more inputs to the valuation methodology are unobservable and significant to the fair value measurement.

A financial instrument's categorisation within the valuation hierarchy is based on the lowest level of input that is significant to the fair value measurement.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 28. Assets and liabilities measured at fair value (continued)

#### Valuation methodologies

The following table describes the valuation methodologies used by the Company to measure its more significant products/instruments at fair value, including the general classification of such instruments pursuant to the valuation hierarchy.

Product/instrument	Valuation methodology, inputs and assumptions	Classifications in the valuation hierarchy
Equity, debt, and other securities	<p>Quoted market prices are used where available.</p> <p>In the absence of quoted market prices, securities are valued based on:</p> <ul style="list-style-type: none"> <li>• Observable market prices for similar securities</li> <li>• Relevant broker quotes</li> <li>• Discounted cash flows</li> </ul> <p>In addition, the following inputs to discounted cash flows are used for the following products:</p> <p><i>Mortgage and asset-backed securities specific inputs:</i></p> <ul style="list-style-type: none"> <li>• Collateral characteristics</li> <li>• Deal-specific payment and loss allocations</li> <li>• Current market assumptions related to yield, prepayment speed, conditional default rates and loss severity</li> </ul>	<p>Level 1</p> <p>Level 2 or 3</p>
Derivatives and fully funded OTC instruments	<p>Exchange-traded derivatives that are actively traded and valued using the exchange price.</p> <p>Derivatives that are valued using models such as the Black-Scholes option pricing model, simulation models, or a combination of models, that use observable or unobservable valuation inputs as well as considering the contractual terms.</p> <p>The key valuation inputs used will depend on the type of derivative and the nature of the underlying instruments and may include equity prices, commodity prices, interest rate yield curves, foreign exchange rates, volatilities, correlations, credit default swaps ("CDS") spreads and recovery rates. Additionally, the credit quality of the counterparty and of the Company as well as market funding levels may also be considered.</p> <p>In addition, the following specific inputs are used for the following derivatives that are valued based on models with significant unobservable inputs are as follows:</p> <p><i>Structured credit derivatives specific inputs include:</i></p> <ul style="list-style-type: none"> <li>• CDS spreads and recovery rates</li> <li>• Credit correlation between the underlying debt instruments</li> </ul> <p><i>Equity option specific inputs include:</i></p> <ul style="list-style-type: none"> <li>• Equity volatilities</li> <li>• Equity correlation</li> <li>• Equity - foreign exchange ("FX") correlation</li> <li>• Equity - interest rate correlation</li> </ul> <p><i>Interest rate and FX exotic options specific inputs include:</i></p> <ul style="list-style-type: none"> <li>• Interest rate spread volatility</li> <li>• Interest rate correlation</li> <li>• Foreign exchange correlation</li> <li>• Interest rate - FX correlation</li> </ul> <p><i>Commodity derivatives specific inputs include:</i></p> <ul style="list-style-type: none"> <li>• Commodity volatility</li> <li>• Forward commodity price</li> </ul>	<p>Level 1</p> <p>Level 2 or 3</p>
Financial instruments held for trading - loans	<p>Where observable market data is available, valuations are based on:</p> <ul style="list-style-type: none"> <li>• Observed market prices (circumstances are infrequent)</li> <li>• Relevant broker quotes</li> <li>• Observed market prices for similar instruments</li> </ul> <p>Where observable market data is unavailable or limited, valuations are based on discounted cash flows, which consider the following:</p> <ul style="list-style-type: none"> <li>• Credit spreads derived from the cost of CDS; or benchmark credit curves developed by the Company, by industry and credit rating</li> <li>• Prepayment speed</li> <li>• Collateral characteristics</li> </ul>	<p>Level 2 or 3</p>

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 28. Assets and liabilities measured at fair value (continued)

#### Valuation methodologies (continued)

Product/instrument	Valuation methodology, inputs and assumptions	Classifications in the valuation hierarchy
Loans and advances to customers and lending-related commitments	<p>Valuations are based on discounted cash flows, which consider:</p> <ul style="list-style-type: none"> <li>Credit spreads, derived from the cost of CDS; or benchmark credit curves developed by the Company, by industry and credit rating</li> <li>Prepayment speed</li> </ul> <p>Lending-related commitments are valued similar to loans and reflect the portion of an unused commitment expected, based on the Company's average portfolio historical experience, to become funded prior to an obligor default</p>	Predominantly level 3
Securities financing agreements	<p>Valuations are based on discounted cash flows, which consider:</p> <ul style="list-style-type: none"> <li>Derivative features. For further information refer to the discussion of derivatives above</li> <li>Market rates for the respective maturity</li> <li>Collateral characteristics</li> </ul>	Level 2

#### Assets and liabilities measured at fair value on a recurring basis

The following table presents the asset and liabilities reported at fair value as of 31 December 2017 and 2016, by major product category and fair value hierarchy.

	Level 1 \$'000	Level 2 \$'000	Level 3 \$'000	Total \$'000
<b>At 31 December 2017</b>				
<b>Securities financing agreements:</b>				
Securities purchased under agreements to resell	—	1,799,061	—	1,799,061
Securities borrowed	—	3,049,423	—	3,049,423
<b>Financial assets held for trading:</b>				
Debt and equity instruments	50,259,349	56,288,802	1,336,743	107,884,894
Derivative receivables	158,218	228,171,775	4,043,726	232,373,719
<b>Financial assets designated at fair value through profit or loss:</b>				
Debt and equity instruments	—	—	341,602	341,602
<b>Total financial assets</b>	<b>50,417,567</b>	<b>289,309,061</b>	<b>5,722,071</b>	<b>345,448,699</b>
<b>Securities financing agreements:</b>				
Securities sold under agreements to repurchase	—	3,052,613	—	3,052,613
<b>Financial liabilities held for trading:</b>				
Debt and equity instruments	32,709,118	13,505,976	712	46,215,806
Derivative payables	543,061	234,225,800	6,638,758	241,407,619
Other financial liabilities	—	13,671,674	6,992,969	20,664,643
<b>Financial assets designated at fair value through profit or loss:</b>				
Debt and equity instruments	—	1,465,247	—	1,465,247
<b>Other liabilities:</b>				
Deposits	—	108,101	—	108,101
<b>Total financial liabilities</b>	<b>33,252,179</b>	<b>266,029,411</b>	<b>13,632,439</b>	<b>312,914,029</b>

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 28. Assets and liabilities measured at fair value (continued)

#### Assets and liabilities measured at fair value on a recurring basis (continued)

	Level 1	Level 2	Level 3	Total
	\$'000	\$'000	\$'000	\$'000
<b>At 31 December 2016</b>				
<b>Financial assets held for trading:</b>				
Debt and equity instruments	48,988,614	39,530,046	808,769	89,327,429
Derivative receivables	76,571	227,134,018	6,507,790	233,718,379
<b>Financial assets designated at fair value through profit or loss:</b>				
Debt and equity instruments	—	—	315,659	315,659
<b>Total financial assets</b>	<b>49,065,185</b>	<b>266,664,064</b>	<b>7,632,218</b>	<b>323,361,467</b>
<b>Financial liabilities held for trading:</b>				
Debt and equity instruments	31,033,923	11,213,696	423	42,248,042
Derivative payables	76,358	230,220,052	5,460,654	235,757,064
Other financial liabilities	—	11,557,637	3,963,003	15,520,640
<b>Total financial liabilities</b>	<b>31,110,281</b>	<b>252,991,385</b>	<b>9,424,080</b>	<b>293,525,746</b>

#### Level 3 valuations

The Firm has established well structured processes for determining fair value, including for instruments where fair value is estimated using significant unobservable inputs (level 3).

Estimating fair value requires the application of judgement. The type and level of judgement required is largely dependent on the amount of observable market information available to the Company. For instruments valued using internally developed valuation models and other valuation techniques that use significant unobservable inputs and are therefore classified within level 3 of the fair value hierarchy, judgements used to estimate fair value are more significant than those required when estimating the fair value of instruments classified within levels 1 and 2.

In arriving at an estimate of fair value for an instrument within level 3, management must first determine the appropriate valuation model or other valuation technique to use. Second, due to the lack of observability of significant inputs, management must assess all relevant empirical data in deriving valuation inputs including, transaction details, yield curves, interest rates, prepayment speed, default rates, volatilities, correlations, equity or debt prices, valuations of comparable instruments, foreign exchange rates and credit curves.

The following table presents the Company's primary level 3 financial instruments, the valuation techniques used to measure the fair value of those financial instruments, the significant unobservable inputs, the range of values for those inputs and, for certain instruments, the weighted averages of such inputs. While the determination to classify an instrument within level 3 is based on the significance of the unobservable inputs to the overall fair value measurement, level 3 financial instruments typically include observable components (that is, components that are actively quoted and can be validated to external sources) in addition to the unobservable components.

The range of values presented in the table is representative of the highest and lowest level input used to value the significant groups of instruments within a product/instrument classification. Where provided, the weighted averages of the input values presented in the table are calculated based on the fair value of the instruments that the input is being used to value.

In the Company's view, the input range and the weighted average value do not reflect the degree of input uncertainty or an assessment of the reasonableness of the Company's estimates and assumptions. Rather, they reflect the characteristics of the various instruments held by the Company and the relative distribution of instruments within the range of characteristics. For example, two option contracts may have similar levels of market risk exposure and valuation uncertainty, but may have significantly different implied volatility levels because the option contracts have different underlying's, tenors, or strike prices.

The input range and weighted average values will therefore vary from period-to-period and parameter-to-parameter based on the characteristics of the instruments held by the Company at each balance sheet date.



**J.P. MORGAN SECURITIES PLC**  
**Notes to the financial statements (continued)**

**28. Assets and liabilities measured at fair value (continued)**

**Level 3 valuations (continued)**

Product/instrument	Asset	Liability	Net fair value	Principal valuation technique	Unobservable input	Range of input values	Weighted average
<b>At 31 December 2017</b>	<b>\$'000</b>	<b>\$'000</b>	<b>\$'000</b>				
<b>Debt and equity instruments</b>	<b>1,678,345</b>	<b>(712)</b>	<b>1,677,633</b>				
Corporate debt securities and other				Market comparables	Price	\$3 - \$111	\$82
Residential mortgage-backed securities and loans				Discounted cash flows	Yield Prepayment speed Conditional default rate Loss severity	3% - 16% 0% - 13% 0% - 5% 0% - 84%	6% 9% 1% 3%
Commercial mortgage-backed securities and loans				Market comparables	Price	\$0 - \$100	\$94
Loans				Market comparables	Price	\$4 - \$103	\$84
<b>Derivatives</b>	<b>4,043,726</b>	<b>(6,638,758)</b>	<b>(2,595,032)</b>				
Net interest rate derivatives				Option pricing	Interest rate spread volatility Interest rate correlation Interest rate - FX correlation	27bps - 38bps (50)% - 98% 60% - 70%	
				Discounted cash flows	Prepayment speed	0% - 30%	
Net credit derivatives				Discounted cash flows	Credit correlation Credit spread Recovery rate Yield Prepayment speed Conditional default rate Loss severity	40% - 75% 6bps - 1,489bps 20% - 70% 1% - 20% 4% - 21% 0% - 100% 4% - 100%	
				Market comparables	Price	\$10 - \$98	
Net foreign exchange derivatives				Option pricing	Interest rate - FX correlation	(50)% - 70%	
				Discounted cash flows	Prepayment speed	7%	
Net equity derivatives				Option pricing	Equity volatility Equity correlation Equity - FX correlation Equity - interest rate correlation	20% - 55% 0% - 85% (50)% - 30% 10% - 40%	
Net commodity derivatives				Option pricing	Forward commodity price Commodity volatility Commodity correlation	\$54 - \$68 per barrel 5% - 46% (40%) - 70%	
Other financial liabilities	—	(6,992,969)	(6,992,969)	Option pricing	Interest rate spread volatility Interest rate correlation Interest rate - FX correlation Equity correlation Equity - FX correlation Equity - interest rate correlation	27bps - 38bps (50)% - 98% (50)% - 70% 0% - 85% (50)% - 30% 10% - 40%	
<b>Total</b>	<b>5,722,071</b>	<b>(13,632,439)</b>	<b>(7,910,368)</b>				

**J.P. MORGAN SECURITIES PLC**  
**Notes to the financial statements (continued)**

**28. Assets and liabilities measured at fair value (continued)**

**Level 3 valuations (continued)**

Product/instrument	Asset	Liability	Net fair value	Principal valuation technique	Unobservable input	Range of input values	Weighted average
<b>At 31 December 2016</b>	<b>\$'000</b>	<b>\$'000</b>	<b>\$'000</b>				
<b>Debt and equity instruments</b>	<b>1,124,428</b>	<b>(423)</b>	<b>1,124,005</b>				
Corporate debt securities and other				Discounted cash flows Market comparables	Credit spread Yield Price	40bps – 375bps 1% - 17% \$0 - \$121	96bps 9% \$91
Residential mortgage-backed securities and loans				Discounted cash flows	Yield Prepayment speed Conditional default rate Loss severity	4% - 18% 0% - 20% 0% - 34% 0% - 90%	5% 8% 15% 37%
Commercial mortgage-backed securities and loans				Discounted cash flows	Yield Conditional default rate Loss severity	1% - 32% 0% - 100% 40%	8% 69% 40%
<b>Derivatives</b>	<b>6,507,790</b>	<b>(5,460,654)</b>	<b>1,047,136</b>				
Net interest rate derivatives				Option pricing	Interest rate correlation Interest rate spread volatility	(30)% – 100% 3% – 38%	
Net credit derivatives				Discounted cash flows	Credit correlation	30% – 85%	
Net foreign exchange derivatives				Option pricing	Foreign exchange correlation	(30)% – 65%	
Net equity derivatives				Option pricing	Equity volatility	20% – 60%	
Net commodity derivatives				Discounted cash flows	Forward commodity price	\$46 – \$59 per barrel	
<b>Other financial liabilities</b>	<b>—</b>	<b>(3,963,003)</b>	<b>(3,963,003)</b>				
				Option pricing	Interest rate correlation Interest rate spread volatility Foreign exchange correlation Equity correlation	(30)% – 100% 3% – 38% (30)% – 65% (50)% – 80%	
				Discounted cash flows	Credit correlation	30% – 85%	
<b>Total</b>	<b>7,632,218</b>	<b>(9,424,080)</b>	<b>(1,791,862)</b>				

The categories presented in the table have been aggregated based upon the product type, which may differ from their classification on the balance sheet and fair values are shown net.

**Changes in and ranges of unobservable inputs**

The following discussion provides a description of the impact on a fair value measurement of a change in each unobservable input in isolation, and the interrelationship between unobservable inputs, where relevant and significant. The impact of changes in inputs may not be independent as a change in one unobservable input may give rise to a change in another unobservable input; where relationships exist between two unobservable inputs, those relationships are discussed below. Relationships may also exist between observable and unobservable inputs (for example, as observable interest rates rise, unobservable prepayment rates decline); such relationships have not been included in the discussion below. In addition, for each of the individual relationships described below, the inverse relationship would also generally apply.

**Yield** - The yield of an asset is the interest rate used to discount future cash flows in a discounted cash flow calculation. An increase in the yield, in isolation, would result in a decrease in a fair value measurement.

**Credit spread** - The credit spread is the amount of additional annualised return over the market interest rate that a market participant would demand for taking exposure to the credit risk of an instrument. The credit spread for an instrument forms part of the discount rate used in a discounted cash flow calculation. Generally, an increase in the credit spread would result in a decrease in a fair value measurement.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 28. Assets and liabilities measured at fair value (continued)

#### Changes in and ranges of unobservable inputs (continued)

**Prepayment speed** - The prepayment speed is a measure of the voluntary unscheduled principal repayments of a prepayable obligation in a collateralised pool. Prepayment speeds generally decline as borrower delinquencies rise. An increase in prepayment speeds, in isolation, would result in a decrease in a fair value measurement of assets valued at a premium to par and an increase in a fair value measurement of assets valued at a discount to par.

**Conditional default rate** - The conditional default rate is a measure of the reduction in the outstanding collateral balance underlying a collateralised obligation as a result of defaults. An increase in conditional default rates would generally be accompanied by an increase in loss severity and an increase in credit spreads. An increase in the conditional default rate, in isolation, would result in a decrease in a fair value measurement.

**Loss severity** - The loss severity (the inverse concept is the recovery rate) is the expected amount of future realised losses resulting from the ultimate liquidation of a particular loan, expressed as the net amount of loss relative to the outstanding loan balance. An increase in loss severity is generally accompanied by an increase in conditional default rates. An increase in the loss severity, in isolation, would result in a decrease in a fair value measurement.

**Correlation** - Correlation is a measure of the relationship between the movements of two variables (e.g., how the change in one variable influences the change in the other). Correlation is a pricing input for a derivative product where the payoff is driven by one or more underlying risks.

Correlation inputs are related to the type of derivative (e.g., interest rate, credit, equity and foreign exchange) due to the nature of the underlying risks. When parameters are positively correlated, an increase in one parameter will result in an increase in the other parameter. When parameters are negatively correlated, an increase in one parameter will result in a decrease in the other parameter. An increase in correlation can result in an increase or a decrease in a fair value measurement. Given a short correlation position, an increase in correlation, in isolation, would generally result in a decrease in a fair value measurement.

**Volatility** - Volatility is a measure of the variability in possible returns for an instrument, parameter or market index given how much the particular instrument, parameter or index changes in value over time. Volatility is a pricing input for options, including equity options, commodity options, and interest rate options. Generally, the higher the volatility of the underlying, the riskier the instrument. Given a long position in an option, an increase in volatility, in isolation, would generally result in an increase in a fair value measurement.

#### Fair value financial instruments valued using techniques that incorporate unobservable inputs

The potential impact as at 31 December of using reasonable possible alternative assumptions for the valuations including significant unobservable inputs have been quantified in the following table:

Sensitivity analysis of valuations using unobservable inputs	Fair Value			Favourable change	Unfavourable change
	Asset	Liability	Net	Income statement	
At 31 December 2017	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Debt and equity instruments</b>					
Corporate debt securities and other	1,664,449	(712)	1,663,737	83,031	(83,031)
Residential mortgage-backed securities	11,565	—	11,565	328	(328)
Commercial mortgage-backed securities	2,331	—	2,331	503	(503)
<b>Total debt and equity instruments</b>	<b>1,678,345</b>	<b>(712)</b>	<b>1,677,633</b>	<b>83,862</b>	<b>(83,862)</b>
<b>Derivatives*</b>	<b>4,043,726</b>	<b>(6,638,758)</b>	<b>(2,595,032)</b>	<b>39,996</b>	<b>(39,996)</b>
<b>Other financial liabilities*</b>	<b>—</b>	<b>(6,992,969)</b>	<b>(6,992,969)</b>	<b>107,781</b>	<b>(107,781)</b>
<b>Total</b>	<b>5,722,071</b>	<b>(13,632,439)</b>	<b>(7,910,368)</b>	<b>231,639</b>	<b>(231,639)</b>

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 28. Assets and liabilities measured at fair value (continued)

#### Fair value financial instruments valued using techniques that incorporate unobservable inputs (continued)

Sensitivity analysis of valuations using unobservable inputs	Fair Value			Favourable change	Unfavourable change
	Asset	Liability	Net	Income statement	
At 31 December 2016	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Debt and equity instruments</b>					
Corporate debt securities and other	1,116,836	(423)	1,116,413	20,471	(20,471)
Residential mortgage-backed securities	1,550	—	1,550	155	(155)
Commercial mortgage-backed securities	6,042	—	6,042	778	(778)
<b>Total debt and equity instruments</b>	<b>1,124,428</b>	<b>(423)</b>	<b>1,124,005</b>	<b>21,404</b>	<b>(21,404)</b>
<b>Derivatives*</b>	<b>6,507,790</b>	<b>(5,460,654)</b>	<b>1,047,136</b>	<b>13,305</b>	<b>(13,305)</b>
<b>Other financial liabilities*</b>	<b>—</b>	<b>(3,963,003)</b>	<b>(3,963,003)</b>	<b>19,667</b>	<b>(19,667)</b>
<b>Total</b>	<b>7,632,218</b>	<b>(9,424,080)</b>	<b>(1,791,862)</b>	<b>54,376</b>	<b>(54,376)</b>

\* Given significant hedging between derivatives and other financial liabilities the net risk is considered to calculate the favourable/unfavourable changes with the result then allocated to the two lines individually.

#### Changes in level 3 recurring fair value measurements

The following tables include a rollforward of the balance sheets amounts (including changes in fair value) for financial instruments classified by the Company within level 3 of the fair value hierarchy.

#### Movement in assets and liabilities in Level 3 during year ended 31 December 2017

Financial assets	Debt and equity instruments	Derivative receivables	Total financial assets
	\$'000	\$'000	\$'000
At 1 January 2017	1,124,428	6,507,790	7,632,218
Total gains recognised in profit or loss	82,639	2,143,878	2,226,517
Purchases	1,885,131	2,225,648	4,110,779
Sales	(1,369,048)	(3,541,844)	(4,910,892)
Issuances	—	1,157	1,157
Settlements	(103,870)	(2,370,600)	(2,474,470)
Transfers in to Level 3	490,559	987,507	1,478,066
Transfers out of Level 3	(431,494)	(1,909,810)	(2,341,304)
<b>At 31 December 2017</b>	<b>1,678,345</b>	<b>4,043,726</b>	<b>5,722,071</b>
Change in unrealised gains related to financial instruments held at 31 December 2017	134,692	729,155	863,847

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 28. Assets and liabilities measured at fair value (continued)

#### Movement in assets and liabilities in Level 3 during year ended 31 December 2017 (continued)

Financial liabilities	Debt and equity instruments	Derivative payables	Other financial liabilities	Total financial liabilities
	\$'000	\$'000	\$'000	\$'000
At 1 January 2017	423	5,460,654	3,963,003	9,424,080
Total (gains)/loss recognised in profit or loss	(614)	1,674,657	675,116	2,349,159
Purchases	(39,710)	(1,437,553)	—	(1,477,263)
Sales	41,804	2,508,171	18,932	2,568,907
Issuances	—	3,588	5,350,163	5,353,751
Settlements	(399)	(2,991,676)	(3,515,814)	(6,507,889)
Transfers in to Level 3	—	3,422,465	705,568	4,128,033
Transfers out of Level 3	(792)	(2,001,548)	(203,999)	(2,206,339)
<b>At 31 December 2017</b>	<b>712</b>	<b>6,638,758</b>	<b>6,992,969</b>	<b>13,632,439</b>
Change in unrealised losses related to financial instruments held at 31 December 2017	(72)	(40,029)	(22,878)	(62,979)

#### Movement in assets and liabilities in Level 3 during year ended 31 December 2016

Financial assets	Debt and equity instruments	Derivative receivables	Total financial assets
	\$'000	\$'000	\$'000
At 1 January 2016	1,427,012	5,175,306	6,602,318
Total (loss)/gains recognised in profit or loss	(84,711)	1,200,083	1,115,372
Purchases	1,578,086	(185,641)	1,392,445
Sales	(1,303,679)	513,914	(789,765)
Issuances	14,927	298	15,225
Settlements	(106,648)	(219,772)	(326,420)
Transfers in to Level 3	147,701	263,403	411,104
Transfers out of Level 3	(548,260)	(239,801)	(788,061)
<b>At 31 December 2016</b>	<b>1,124,428</b>	<b>6,507,790</b>	<b>7,632,218</b>
Change in unrealised gains related to financial instruments held at 31 December 2016	(47,977)	1,080,402	1,032,425

Financial liabilities	Debt and equity instruments	Derivative payables	Other financial liabilities	Total financial liabilities
	\$'000	\$'000	\$'000	\$'000
At 1 January 2016	5,073	4,906,458	3,136,824	8,048,355
Total (gains)/loss recognised in profit or loss	8,098	796,473	177,779	982,350
Purchases	(1,865)	18,979	—	17,114
Sales	21,264	720,003	—	741,267
Issuances	—	1,491	2,302,540	2,304,031
Settlements	(32,598)	(938,435)	(1,656,106)	(2,627,139)
Transfers in to Level 3	1,288	243,760	56,015	301,063
Transfers out of Level 3	(837)	(288,075)	(54,049)	(342,961)
<b>At 31 December 2016</b>	<b>423</b>	<b>5,460,654</b>	<b>3,963,003</b>	<b>9,424,080</b>
Change in unrealised losses related to financial instruments held at 31 December 2016	(145)	681,963	74,124	755,942

Realised and unrealised gains/(losses) are reported in trading profits in the income statement.

## **J.P. MORGAN SECURITIES PLC**

### **Notes to the financial statements (continued)**

#### **28. Assets and liabilities measured at fair value (continued)**

##### **Transfers between levels for instruments carried at fair value on a recurring basis**

For the years ended 31 December 2017 and 2016, there were no significant transfers between levels 1 and 2.

During the year ended 31 December 2017, transfers in to and out of level 3 included the following:

- \$1.1 billion of assets and \$1.2 billion of liabilities transferred out of level 3 driven by an increase in observability of credit default swaps;
- \$0.5bn of assets and \$0.5bn of liabilities transferred out of level 3 driven by an increase in observability of equity options;
- \$0.2bn of assets transferred out of level 3 driven by an increase in observability of trading loans and corporate debt;
- \$0.2bn of liabilities transferred out of level 3 driven by an increase in other financial liabilities;
- \$0.6bn of assets and \$3.0bn of liabilities transferred in to level 3 driven by a decrease in observability of equity options;
- \$0.2bn of assets transferred in to level 3 driven by a decrease in observability of trading loans; and
- \$0.6bn of liabilities transferred in to level 3 driven by a decrease in other financial liabilities.

During the year ended 31 December 2016, transfers in to and out of level 3 included the following:

- \$0.3 billion of assets transferred out of level 3 driven by an increase in observability of corporate bonds and loans; and
- \$0.2 billion of assets and \$0.2 billion of liabilities transferred in to level 3 driven by a decrease in observability of credit default swaps.

All transfers are assumed to occur at the beginning of the period in which they occur.

##### **Fair value of financial instruments not carried on balance sheet at fair value**

Certain financial instruments that are not carried at fair value on balance sheet are carried at amounts that approximate fair value, due to their short-term nature and generally negligible credit risk. These instruments include securities purchased under agreements to resell, cash and balances at central banks, debtors, other assets, trade creditors and other liabilities.

The Company has \$272.0 billion (2016: \$246.5 billion) of current financial assets and \$266.1 billion (2016: \$236.2 billion) of current financial liabilities that are not measured at fair value, including loans and advances to customers of \$2.6 billion (2016: \$3.1 billion).

In estimating the fair value of these loans and advances to customers, typically a discounted cash flow model is applied with significant unobservable inputs and therefore would be classified as level 3 instruments. The fair value of these loans is not materially different from the carrying amount. All other instruments are of a short-term nature and the carrying amounts in the balance sheet approximate fair value.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 29. Offsetting financial assets and financial liabilities

The table below presents the balance sheet assets and liabilities offset, where the offsetting criteria under IAS 32 'Financial Instruments: Presentation' ("IAS 32") have been met, and the related amounts not offset in the balance sheet in respect of cash and security collateral received and master netting agreements, where such criteria have not been met:

	Effects of offsetting on balance sheet			Related amounts not offset		
	Gross amounts	Amounts offset	Net amounts reported on balance sheet	Master netting agreements and other	Cash & security collateral	Net amount
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>At 31 December 2017</b>						
<b>Financial assets:</b>						
Securities purchased under agreements to resell <sup>(a)</sup>	284,606,993	(149,221,382)	135,385,611	(11,525,344)	(114,161,493)	9,698,774
Securities borrowed <sup>(a)</sup>	27,072,599	—	27,072,599	(9,100,106)	(15,846,294)	2,126,199
Financial assets held for trading <sup>(b)</sup>	362,065,083	(21,806,470)	340,258,613	(190,867,129)	(24,340,531)	125,050,953
<b>Total</b>	<b>673,744,675</b>	<b>(171,027,852)</b>	<b>502,716,823</b>	<b>(211,492,579)</b>	<b>(154,348,318)</b>	<b>136,875,926</b>
<b>Financial liabilities:</b>						
Securities sold under agreements to repurchase <sup>(a)</sup>	224,158,540	(149,221,382)	74,937,158	(11,525,344)	(61,149,668)	2,262,146
Securities loaned <sup>(a)</sup>	12,550,040	—	12,550,040	(9,104,687)	(3,170,688)	274,665
Financial liabilities held for trading <sup>(b)</sup>	330,722,398	(22,434,330)	308,288,068	(182,391,533)	(20,120,713)	105,775,822
<b>Total</b>	<b>567,430,978</b>	<b>(171,655,712)</b>	<b>395,775,266</b>	<b>(203,021,564)</b>	<b>(84,441,069)</b>	<b>108,312,633</b>

	Effects of offsetting on balance sheet			Related amounts not offset		
	Gross amounts	Amounts offset	Net amounts reported on balance sheet	Master netting agreements and other	Cash & security collateral	Net amount
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>At 31 December 2016</b>						
<b>Financial assets:</b>						
Securities purchased under agreements to resell	244,294,408	(113,877,556)	130,416,852	(6,449,414)	(119,614,194)	4,353,244
Securities borrowed <sup>(a)</sup>	25,831,106	—	25,831,106	(17,174,407)	(6,518,661)	2,138,038
Financial assets held for trading <sup>(b)</sup>	342,284,385	(19,238,577)	323,045,808	(191,509,111)	(19,626,339)	111,910,358
<b>Total</b>	<b>612,409,899</b>	<b>(133,116,133)</b>	<b>479,293,766</b>	<b>(215,132,932)</b>	<b>(145,759,194)</b>	<b>118,401,640</b>
<b>Financial liabilities:</b>						
Securities sold under agreements to repurchase <sup>(a)</sup>	175,534,827	(113,877,556)	61,657,271	(6,449,414)	(53,019,937)	2,187,920
Securities loaned <sup>(a)</sup>	20,133,325	—	20,133,325	(17,174,407)	(2,101,111)	857,807
Financial liabilities held for trading <sup>(b)</sup>	313,994,831	(20,469,085)	293,525,746	(191,509,111)	(17,046,020)	84,970,615
<b>Total</b>	<b>509,662,983</b>	<b>(134,346,641)</b>	<b>375,316,342</b>	<b>(215,132,932)</b>	<b>(72,167,068)</b>	<b>88,016,342</b>

(a) The fair value of securities purchased under agreements to resell and securities borrowed accepted as collateral that the Company is permitted to sell or re-pledge in the absence of default, prior to netting adjustments, is \$312,126 million (2016: \$270,255 million). The fair value of securities sold under agreements to repurchase and securities loaned pledged to secure liabilities, prior to netting adjustments, is \$223,997 million (2016: \$188,793 million).

(b) Included within 'amounts offset' are the respective collateral payable and receivables with certain clearing counterparties.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 30. Pensions

During the year, the Company was involved in the following pension schemes in the UK:

- JPMorgan UK Pension Plan ("UKP") - a defined contribution scheme (as a participating employer);
- JPMC UK Retirement Plan - a defined benefit scheme; and
- JPMorgan Cazenove (1987) Pension Scheme ("UKS") - a defined benefit scheme (as a participating employer).

In Europe, the Company also operates defined benefit and defined contribution schemes for its employers in the overseas branches in Switzerland, Germany, France, Italy and Spain. Based on full actuarial valuations carried out during the year, the net liability in respect of these European schemes as at 31 December 2017 amounted to \$4,178,000 (2016: \$9,488,000). The charge for the year through the income statement was \$2,941,000 (2016: \$2,094,000), and total gain recognised through statement of comprehensive income was \$4,542,000 (2016: loss of 1,636,000).

#### JPMorgan UK Pension Plan

The Company participates in the JPMorgan UK Pension Plan, a defined contribution scheme operated by the Firm, which is open to additional members and benefit accruals.

#### JPMC UK Retirement Plan

The Firm maintains a defined benefit plan that is closed to additional benefit accruals known as the JPMC UK Retirement Plan. Whilst the Company is not a participating employer in this plan, it does have certain obligations under a Withdrawal Agreement, dated 24 May 2011, that was entered into in relation to J.P. Morgan Services LLP ("LLP"), a JPMorgan Chase undertaking which had previously been a participating employer in the plan. Under the terms of this agreement, the Company became responsible for LLP's portion of the pension obligations calculated in accordance with paragraph 5(2) of Schedule 1A to the Occupational Pension Schemes (Employer Debt) Regulations 2005 (as amended) with effect from 1 June 2011. The Company was not required to make any payments immediately or in relation to the ongoing funding of the plan.

However, payments may become due from the Company on the occurrence of the earliest of the following events:

- The commencement of the winding up of the plan;
- The insolvency of the plan's last remaining participating employer;
- The insolvency of the Company; or
- Any other date agreed between the Company and the Trustee of the Plan.

#### JPMorgan Cazenove (1987) Pension Scheme

The JPMorgan Cazenove (1987) Pension Scheme ("UKS") is an ongoing defined benefit plan. The Company has been a principal employer in relation to the UKS plan since August 2012. In May 2016, the Company agreed to and became responsible for 97.24% of the liabilities in respect of the UKS, taking over the obligation from its indirect subsidiary, JPMorgan Cazenove Service Company.

The principal assumptions adopted for the valuation of the UKS at 31 December were as follows:

	2017	2016
	% per annum	% per annum
Discount rate	2.4	2.5
Rate of salary increase	N/A*	N/A*
Rate of price inflation	3	3.5
Rate of pension increases	3.4	3

\* The salary increase assumption no longer applies for the UKS as this plan was closed to future accruals on 31 May 2016.



**J.P. MORGAN SECURITIES PLC**  
**Notes to the financial statements (continued)**

**30. Pensions (continued)**

**JPMorgan Cazenove (1987) Pension Scheme (continued)**

Assumed life expectancy on retirement at age 65 were as follows:

	<b>2017</b>	<b>2016</b>
	<b>years</b>	<b>years</b>
Longevity at age 65 for current pensioners		
- Male	24.2	24.1
- Female	25.2	25.1
Longevity at age 65 for future pensioners		
- Male	26.9	26.7
- Female	27	26.9

The movements in the UKS' liability for the year ended 31 December was as follows:

	<b>2017</b>	<b>2016</b>
	<b>\$'000</b>	<b>\$'000</b>
Benefit obligation at beginning of the year	534,817	496,540
Current service costs	—	775
Interest costs	13,721	16,273
Actuarial (gain)/ loss	(8,736)	138,244
Benefits paid from plan/Company	(32,222)	(23,140)
Exchange rate changes	49,763	(93,875)
<b>Benefit obligation at end of the year</b>	<b>557,343</b>	<b>534,817</b>

The movements in the UKS' assets for the year ended 31 December was as follows:

	<b>2017</b>	<b>2016</b>
	<b>\$'000</b>	<b>\$'000</b>
Fair value of plan assets at beginning of year	434,806	450,857
Expected return on plan assets	11,156	14,891
Actuarial gain on plan assets	18,594	65,518
Employer contributions (including employer direct benefit payments)	4,330	7,866
Administrative expenses paid from plan assets	(293)	(566)
Benefits paid from plan/Company	(32,222)	(23,140)
Exchange rate changes	41,327	(80,620)
<b>Fair value of plan assets at end of the year</b>	<b>477,698</b>	<b>434,806</b>

The equity investments and bonds which are held in the plan assets are quoted and are valued at the current bid price in accordance with IAS 19.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 30. Pensions (continued)

#### JPMorgan Cazenove (1987) Pension Scheme (continued)

The sensitivity of the defined benefit obligation to changes in the weighted principal assumption is as follows:

	2017			2016		
	Change in assumption	Increase in assumption	Decrease in assumption	Change in assumption	Increase in assumption	Decrease in assumption
At 31 December	%	% per annum	% per annum	%	% per annum	% per annum
Discount rate	0.25%	(5.49)%	5.77 %	0.25%	(5.44)%	5.72 %
Rate of salary increase	0.25%	N/A*	N/A*	0.25%	N/A*	N/A*
Rate of pension increase	0.25%	1.89 %	(1.85)%	0.25%	3.59 %	(3.53)%
Rate of price inflation	0.25%	3.16 %	(3.17)%	0.25%	3.16 %	(3.17)%
Post-retirement mortality assumption	Increase by one year	3.87 %	—	Increase by one year	3.87 %	—

\* The salary increase assumption no longer applies for the UKS as this plan was closed to future accruals on 31 May 2016.

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant.

The expected return on scheme assets is determined by considering the expected returns available on the assets underlying the current investment policy. Expected yields on fixed interest investments are based on gross redemption yields as at the balance sheet date. Expected returns on equity investments reflect long-term real rates of return experienced in the respective markets.

Amounts recognised in the balance sheet arising from schemes that are wholly unfunded and those wholly or partly funded as at 31 December were as follows:

	2017	2016
	\$'000	\$'000
Present value of wholly or partly funded obligations	557,343	534,817
Fair value of plan assets	477,698	434,806
Deficit for funded plans - net liability	79,645	100,011
Experience adjustments on plan assets	(18,594)	(65,518)
Experience adjustments on plan liabilities	(13,548)	(6,661)

Movements in the UKS income statement for the year ended 31 December are as follows:

	2017	2016
	\$'000	\$'000
Current service cost	—	775
Interest cost	13,721	16,273
Expected return on plan assets	(11,156)	(14,891)
Administrative expenses paid from plan assets	293	566
Total pension cost recognised in the income statement	2,858	2,723
Exchange rate changes	8,436	(13,255)
Net amount recognised in the income statement	11,294	(10,532)

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 30. Pensions (continued)

#### JPMorgan Cazenove (1987) Pension Scheme (continued)

Movements in the UKS statement of other comprehensive income for the year ended 31 December are as follows:

	2017	2016
	\$'000	\$'000
Actuarial gain/(loss) immediately recognised	27,329	(72,726)

The asset allocation of the UKS defined benefit schemes was as follows:

	2017	2016
	Percentage of plan assets	Percentage of plan assets
	(%)	(%)
Equity securities	38.4	35.6
Bond securities	61.2	62.4
Cash	0.4	2
	100	100

### 31. Share based payments

The Firm has granted long-term stock-based awards to certain key employees under its Long Term Incentive Plan ("LTIP"), as amended and restated effective 19 May 2015. Under the terms of the LTIP, as of 31 December 2017, 67 million shares of common stock were available for issuance through May 2019 (2016: 78 million shares). The LTIP is the only active plan under which the Firm is currently granting stock-based incentive awards. The LTIP, plus prior Firm plans and plans assumed as the result of acquisitions, are referred to collectively as the "LTI Plans" and such plans constitute the Firm's stock-based incentive plans.

The Firm separately recognises compensation expense for each tranche of each award as if it were a separate award with its own vesting date. For each tranche granted, compensation expense is recognised in line with how awards vest from the grant date until the vesting date of the respective tranche, provided that the employees will not become full-career eligible during the vesting period. For awards with full-career eligibility provisions and awards granted with no future substantive service requirement, the Firm accrues the estimated value of awards expected to be awarded to employees as of the grant date without giving consideration to the impact of post-employment restrictions. For each tranche granted to employees of the Company who will become full-career eligible during the vesting period, compensation expense is recognised in line with how awards vest from the grant date until the earlier of the employee's full-career eligibility date or the vesting date of the respective tranche.

#### Restricted stock units

\* Restricted stock units ("RSUs") are awarded at no cost to the recipient upon their grant. RSUs are generally granted annually and generally vest at a rate of 50% after two years, 50% after three years, and convert into shares of common stock at the vesting date. In addition, RSUs typically include full-career eligibility provisions, which allow employees to continue to vest upon voluntary termination, subject to post-employment and other restrictions based on age or service-related requirements. All of these awards are subject to forfeiture until vested and contain clawback provisions that may result in cancellation prior to vesting under certain specified circumstances. RSUs entitle the recipient to receive cash payments equivalent to any dividends paid on the underlying common stock during the period the RSUs are outstanding.

Compensation expense for RSUs is measured based upon the number of shares granted multiplied by the stock price at the grant date, and for employee stock options and stock appreciation rights ("SARs") is measured at the grant date using the Black-Scholes valuation model. Compensation expense for these awards is recognised as described above.

# J.P. MORGAN SECURITIES PLC

## Notes to the financial statements (continued)

### 31. Share based payments (continued)

#### Key employee stock options and SARs

Under the LTI Plans, stock options and SARs have generally been granted with an exercise price equal to the fair value of JPMorgan Chase & Co.'s common stock on the grant date. The Firm typically awards SARs to certain key employees once per year; the Firm also periodically grants employee stock options and SARs to individual employees. The 2013 grants of SARs to key employees vest ratably over five years (i.e. 20% per year) and awards contain clawback provisions similar to RSUs. The 2013 grants of SARs contain full-career eligibility provisions. SARs generally expire 10 years after the grant date.

The following table summarises additional information about options and SARs outstanding as at 31 December:

	31 December 2017			31 December 2016		
	Outstanding '000	Weighted average exercise price \$	Weighted average remaining contractual life (in years)	Outstanding '000	Weighted average exercise price \$	Weighted average remaining contractual life (in years)
Range of exercise prices						
\$min - \$20.00	175	19.49	1.05	75	19.49	2.05
\$20.01 - \$35.00	—	—	—	—	—	—
\$35.01 - \$50.00	806	43.56	3.00	1,144	43.32	4.08
\$50.01 and above	—	—	—	—	—	—
<b>Total</b>	<b>981</b>	<b>39.27</b>	<b>2.65</b>	<b>1,219</b>	<b>41.86</b>	<b>3.96</b>

#### Broad-based employee stock options

No broad-based employee stock options were granted in 2017 or 2016. In prior years, awards were granted by the Firm under the Value Sharing Plan, a non-shareholder-approved plan. For each grant, the exercise price was equal to the Firm's common stock price on the grant date. The options become exercisable over various periods and generally expire 10 years after the grant date.

The weighted average share price during the year ended 31 December 2017 was \$92.01 (2016: \$65.62).

The total expense for the year relating to share based payments was \$310 million (2016: \$249 million), all of which relates to equity settled share based payments.

### 32. Transfers of financial assets

In the course of its normal business activities, the Company makes transfers of financial assets. Depending on the nature of the transaction, this may result in derecognition of the assets in their entirety, partial derecognition or no derecognition of the assets subject to the transfer. A summary of the main transactions, and the assets and liabilities and the financial risks arising from these transactions, is set out below:

#### Transfers of financial assets that do not result in derecognition

Assets are transferred under repurchase and securities lending agreements with other banks and financial institutions. In substance, these transactions constitute secured borrowings and therefore the assets are not derecognised from the balance sheet. The recipient is generally able to use, sell or pledge the transferred assets for the duration of the transaction. The Company remains exposed to interest and credit risk on these instruments which they are contractually required to repurchase at a later date. The counterparty's recourse is generally not limited to the transferred assets. The fair value of the collateral and the carrying amounts of the liabilities is disclosed in note 29.

The Company has also transferred equity securities to third parties in consideration for cash, while simultaneously entering into derivative transactions, with the same counterparty, which are linked to the transferred assets. The derecognition criteria have not been met because the Company retains the risk and rewards associated with the transferred financial assets, therefore the assets continue to be recognised on balance sheet together with the related liability.

**J.P. MORGAN SECURITIES PLC**  
**Notes to the financial statements (continued)**

**32. Transfers of financial assets (continued)**

The following is a summary of the fair value of the assets and carrying amount of related liabilities:

**Fair value of the assets**

	Fair value of the assets		Carrying amount of the related liability	
	2017	2016	2017	2016
	\$'000	\$'000	\$'000	\$'000
Financial assets held for trading	1,467,000	5,720,000	1,303,000	5,268,000

**Continuing involvement in financial assets that have been derecognised**

In some cases, the Company transfers financial assets that it derecognises entirely even though it may have continuing involvement in them. This typically happens when the Company has sold a financial asset to a SPE with limited other assets and enters into a derivative with the SPE to provide investors with a specified exposure (examples include credit-linked note vehicles and asset swap vehicles that are established on behalf of investors). The total notional and the market value of all derivatives executed by the Company with such SPEs (including those with such SPEs to which the Company did not transfer any financial assets) amounted to \$14.3 billion and \$982 million as of 2017 (\$13.2 billion and \$722 million as of 2016).

**33. Financial risk management**

Disclosures in relation to the Company's risk management and capital management have been presented in the Strategic report on pages 2 - 26 which forms part of these financial statements.