

J.P. MORGAN STRUCTURED PRODUCTS B.V.
Amsterdam, the Netherlands

(Chamber of Commerce Number: 34259454)

Annual report for the year ended 31 December 2019

J.P. MORGAN STRUCTURED PRODUCTS B.V.
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J.P. MORGAN STRUCTURED PRODUCTS B.V.

Directors' report

The directors present their report and the audited financial statements of J.P. Morgan Structured Products B.V. (the "Company") for the year ended 31 December 2019.

Principal activity

The Company's primary activity is the management and issuance of structured products comprising certificates, warrants and market participation notes, and the subsequent economic hedging ("hedge", "hedging") of these positions.

Review of business

During the year, the Company continued to issue structured products. The proceeds from the sale of the structured products were used to fund the activities of other JPMorgan Chase & Co. (together with its subsidiaries "Firm" or "JPMorgan Chase") undertakings through certain economic hedging arrangements. The principal purpose of these hedging arrangements is to hedge against various risks associated with the issuance activity. In 2019, the Company issued structured products to private investors or listed on exchanges in the Asia Pacific region, Europe, the Middle East, Africa, Latin America and the United States of America.

The Company's ultimate controlling entity is JPMorgan Chase & Co.

Key performance indicators ("KPIs")

As the Company is managed as part of the Corporate Investment Bank of JPMorgan Chase there are no KPIs that are specific to the Company. The results are monitored against expectations of the business activities. A more detailed description of the Firm's key performance indicators may be found within the JPMorgan Chase & Co. 2019 Annual Report.

Business environment, strategy and future outlook

The primary objective of the Company is the continued development of structured products to be offered and sold to retail, 'high net worth' and institutional investors principally outside of the United States of America, linked to a range of underlying reference assets including equity, credit, interest rates, commodities and 'alternatives' such as funds and hedge funds.

COVID-19

The Firm is monitoring Coronavirus Disease 2019 ("COVID-19"), based on the guidance being provided by the relevant health and government authorities, and continues to implement protocols and processes in response to the spread of the virus. For more detail on Firmwide measures refer to operational risk (page 26). As at the date on which this set of financial statements were authorised for issue, as the situation is ongoing and eventual outcome unknown, the Company cannot quantify the final impact as a result of COVID-19, refer to post balance sheet events (note 22).

Principal risks and uncertainties

The Company's issuance activities expose it to financial and operational risks, which are managed by the Board of Directors, using the Firm's risk management framework. The Board of Directors monitors the Company's financial and operational risks and has responsibility for ensuring effective risk management and control. Further details on the financial risks of the Company are set out in note 18 to the financial statements.

Results and dividends

The results for the year are set out on page 5 and show the Company's profit for the financial year after taxation is \$22.6 million (2018: \$5.4 million).

No dividend was paid or proposed during the year (2018: nil).

Events after the reporting period

Following the outbreak of the COVID-19 pandemic in early 2020, the Company and the Firm are monitoring the development of the pandemic and evaluating its impact on the financial position and operating results of the Company. As at the date on which this set of financial statements were authorised for issue, as the situation is ongoing and eventual outcome unknown, the Company cannot quantify the final impact on the financial position or operations as a result of the COVID-19 pandemic. For more detail on Firmwide measures refer to operational risk (page 26).

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Directors' report (continued)

Directors

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

J.C.P. van Uffelen	(Appointed 6 March 2007)
D.R. Hansson	(Resigned 29 July 2019)
W.H. Kamphuijs	(Appointed 1 September 2014)
N. Dargan	(Appointed 29 July 2019)
M.F.C van der Werff	(Appointed 20 March 2018)
S. E. Cheah	(Appointed 13 December 2018)

Composition of the Board

The size and composition of the Board of Directors and the combined experience and expertise should reflect the best fit for the profile and strategy of the Company. Gender diversity was below the goals as set out in article 2:276 section 2 of the Dutch Civil Code, however with effect from 20 March 2018, the Company complies with the gender diversity goals.

Creditor payment policy

All invoices from suppliers are settled on the Company's behalf by an affiliated JPMorgan Chase company, JPMorgan Chase Bank, N.A.

JPMorgan Chase Bank, N.A.'s policy is to pay invoices (including those in respect of the Company) upon presentation, except where other arrangements have been negotiated with the supplier. It is the policy of the Company to abide by the terms of payment, provided the supplier performs according to the terms of the contract.

Registered address

Herikerbergweg 238
Luna ArenA, 1101CM
Amsterdam

Expected developments of the Company

The directors of the Company expect the:

- a) Company will continue to issue structured products;
- b) Company will not enter into fixed asset investments; and
- c) interest income will continue to fluctuate in line with the development in market interest rates.

Statement under the Transparency Directive (as implemented in Dutch law)

The directors confirm to the best of their knowledge that:

- a) the attached financial statements are prepared in accordance with International Financial Reporting Standards ("IFRS") as endorsed by the European Union and give a true and fair view of the assets, liabilities, financial position and profit of the Company for the year ended 31 December 2019, and
- b) the annual report for the year ended 31 December 2019, consisting of the directors' report and the financial statements, gives a true and fair view of the position as per the balance sheet date 31 December 2019.

The directors further herewith report their arrangements for an audit committee (the "Audit Committee") as follows:

Audit Committee

The Company makes use of the exemption to the requirement to establish its own Audit Committee based on Article 3a of the Royal Decree of 26 July 2008 implementing article 41 of the EU Directive 2006/43EG, as the Audit Committee of JPMorgan Chase & Co. fulfils the requirements at group level. The Audit Committee of JPMorgan Chase & Co., which covers the Firm, including the Company and is formed of entirely non-management, independent directors in compliance with the recommendations from the EU Commission. Details of the Charter, Membership, Duties and Responsibilities can be found on the Firm's website.

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Directors' report (continued)

Independent auditors

The independent auditors, Mazars Accountants N.V., have indicated their willingness to continue in office. A resolution to reappoint Mazars Accountants N.V. as auditors to the company will be proposed at the annual general meeting.

The financial statements on pages 4 to 29 were approved by the Board of Directors on **14 April 2020** and signed on its behalf by:

Board of Directors

S.E. Cheah

W.H. Kamphuijs

J.C.P. van Uffelen

M.F.C van der Werff

N. Dargan

Date: 14 April 2020

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Balance sheet

31 December		2019	2018
	Notes	\$'000	\$'000
Assets			
Non-current assets			
Trade and other receivables	7	4,400,000	3,300,000
Current assets			
Financial assets held at fair value through profit and loss	6	26,848,043	20,591,955
Trade and other receivables	7	293,895	122,977
Cash and cash equivalents	8	4,301,180	2,803,719
Total assets		35,843,118	26,818,651
Liabilities			
Current liabilities			
Financial liabilities designated at fair value through profit or loss	9	22,908,559	17,420,872
Financial liabilities held at fair value through profit and loss	10	3,939,485	3,171,083
Trade and other payables	12	8,363,871	5,664,636
Current tax liability		7,726	1,050
Bank overdraft	8	60,607	20,728
Total liabilities		35,280,248	26,278,369
Equity			
Capital and reserves attributable to equity shareholders of the Company			
Share capital	13	26	26
Share premium reserve		499,997	499,997
Legal reserve		2	2
Retained earnings		62,845	40,257
Total equity		562,870	540,282
Total liabilities and equity		35,843,118	26,818,651

Chamber of Commerce Number: 34259454

The notes on pages 8 - 29 form an integral part of the financial statements.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Income statement

Year ended 31 December		2019	2018
	Notes	\$'000	\$'000
Fee and commission income	14	12,079	13,203
Fee and commission expense	14	(5,809)	(10,827)
Administrative expenses		(6,065)	(1,701)
Net foreign exchange (loss)/gain		(13)	151
Operating profit	14	192	826
Interest income	16	189,518	128,445
Interest expense	16	(159,638)	(121,952)
Net interest income		29,880	6,493
Profit before income tax		30,072	7,319
Income tax expense	17	(7,484)	(1,903)
Profit for the year attributable to equity shareholders of the Company		22,588	5,416

The profit for the year resulted from continuing operations.

Statement of comprehensive income

There were no other items of comprehensive income or expense other than the profit for the financial year shown above (2018: \$nil). As a result, profit for the financial year represents total comprehensive income in both the current and prior financial year.

The notes on pages 8 - 29 form an integral part of the financial statements.

J.P. MORGAN STRUCTURED PRODUCTS B.V.
Statement of changes in equity

	Share capital	Share premium reserve	Legal reserve	Retained earnings	Total
	\$'000	\$'000	\$'000	\$'000	\$'000
Balance as at 1 January 2019	26	499,997	2	40,257	540,282
Profit for the financial year	—	—	—	22,588	22,588
Balance as at 31 December 2019	26	499,997	2	62,845	562,870
Balance as at 1 January 2018	26	499,997	2	34,841	534,866
Profit for the financial year	—	—	—	5,416	5,416
Balance as at 31 December 2018	26	499,997	2	40,257	540,282

The notes on pages 8 - 29 form an integral part of the financial statements.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Statement of cash flows

Year ended 31 December		2019	2018
	Notes	\$'000	\$'000
Cash flow from operating activities			
Profit before income tax		30,072	7,319
Income tax paid		(809)	(1,438)
Interest income	16	(189,518)	(128,445)
Interest expense	16	159,638	121,952
Net foreign exchange losses/(gains)		13	(151)
		(604)	(763)
Changes in working capital			
(Increase)/decrease in financial assets held at fair value through profit or loss		(6,256,088)	5,116,511
(Increase) in trade and other receivables		(1,270,930)	(3,309,785)
Increase/(decrease) in financial liabilities held at fair value through profit or loss		768,402	(4,648,078)
Increase/(decrease) in financial liabilities designated at fair value through profit or loss		5,487,687	(468,433)
Increase/(decrease) in trade and other payables		2,699,235	(109,053)
		1,428,306	(3,418,838)
Net cash generated/(used in) from operating activities		1,427,702	(3,419,601)
Cash flow from financing activities			
Interest income	16	189,518	128,445
Interest expense	16	(159,638)	(121,952)
Net cash generated from financing activities		29,880	6,493
Net increase/(decrease) in cash and cash equivalents		1,457,582	(3,413,108)
Net cash and cash equivalents at the beginning of the year		2,782,991	6,196,099
Net cash and cash equivalents at the end of the year	8	4,240,573	2,782,991

The notes on pages 8 - 29 form an integral part of the financial statements.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements

1. General information

J.P. Morgan Structured Products B.V. (the "Company") was incorporated on 6 November 2006 as a private company with limited liability and is incorporated and domiciled in The Netherlands, with registration number 34259454. The address of the registered office is at Herikerbergweg 238, Luna ArenA, 1101CM, Amsterdam, The Netherlands. The Company's immediate parent undertaking is J.P. Morgan International Finance Limited which is incorporated in the state of Delaware in the United States of America. The company's ultimate parent undertaking of the largest group in which the results of the Company are consolidated is J.P. Morgan Chase & Co. (together with its subsidiaries, the "Firm" or "JPMorgan Chase"), which is also incorporated in the state of Delaware in the United States of America. The parent undertaking of the smallest group in which the Company's results are consolidated is J.P. Morgan International Finance Limited. The largest and the smallest group's consolidated financial statements can be obtained from 25 Bank Street, Canary Wharf, London E14 5JP, England.

The Company's main activity is the issuance of structured products comprising certificates, warrants and market participation notes, and the subsequent economic hedging ("hedge", "hedging") of the risk associated with these notes through hedging with other JPMorgan Chase companies. The valuation of a structured product will have no impact on the income statement, capital or net assets; as a change in valuation of a structured product will have an equal offsetting change in the value of the hedging transaction with other JPMorgan Chase undertakings.

These financial statements reflect the operations of the Company during the year from 1 January 2019 to 31 December 2019 and have been approved for issue by the Board of Directors on 14 April 2020.

2. Accounting convention

The financial statements have been prepared in accordance with International Financial Reporting Standards ("IFRS") as endorsed by the European Union and prepared in accordance with Book 2, Title 9 of the Dutch Civil Code. Where necessary guidance provided by the International Financial Reporting Standards Interpretations Committee ("IFRC IC") has been followed. The financial statements have been prepared on a going concern basis under the historical cost convention, except that financial instruments are stated at fair value.

The preparation of financial statements in conformity with IFRS requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Company's accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the financial statements are disclosed in note 4.

Reclassification to prior year amounts have been made to conform with current year presentation and to correctly reflect the nature of the balances so as to provide additional transparency and information in these financial statements.

3. Summary of significant accounting policies

The following are the 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.

3.1 Foreign currency translation

Monetary assets and monetary liabilities in foreign currencies are translated into United States ("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.

3.2 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").

U.S. dollars is considered as the functional and presentation currency of the Company.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

3. Summary of significant accounting policies (continued)

3.3 Financial instruments

3.3.1 Financial assets and financial liabilities

i. Recognition of financial assets and financial liabilities

The Company recognises financial assets and financial liabilities when it becomes a party to the contractual provisions of the instrument. Regular way purchases and sales of financial assets are recognised on the trade-date, which is the date on which the Company commits to purchase or sell an asset.

ii. Classification and measurement of financial assets and financial liabilities

On initial recognition, financial assets are classified and measured at amortised cost, fair value through other comprehensive income or fair value through profit or loss. The classification is based on both the business model for managing the financial assets and their contractual cash flow characteristics. Factors considered by the Company in determining the business model for a group of assets include past experience on how the cash flows for these assets were collected, how the assets' performance is evaluated and reported to key management personnel, how risks are assessed and managed, and how managers are compensated.

On initial recognition, financial liabilities are classified as measured at either amortised cost or fair value through profit or loss.

iii. Financial assets and financial liabilities measured at amortised cost

Financial assets are measured at amortised cost if they are held under a business model with the objective to collect contractual cash flows ("Hold to Collect") and they have contractual terms under which cash flows are solely payments of principal and interest ("SPPI"). In making the SPPI assessment, the Company considers whether the contractual cash flows are consistent with a basic lending arrangement (i.e., interest includes only consideration for the time value of money, credit risk, other basic lending risks and a profit margin that is consistent with a basic lending arrangement). Where the contractual terms introduce exposure to risk or volatility that are inconsistent with a basic lending arrangement, the related financial asset is classified and measured at fair value through profit or loss. Financial assets with embedded derivatives are considered in their entirety when determining whether their cash flows are solely payment of principal and interest. As a result of the application of these criteria, only debt financial assets are eligible to be measured at amortised cost.

Financial assets measured at amortised cost include trade and other receivables and cash and cash equivalents.

Financial liabilities are measured at amortised cost unless they are held for trading or are designated as measured at fair value through profit or loss. Financial liabilities measured at amortised cost include trade and other payables and bank overdraft.

Financial assets and financial liabilities measured at amortised cost are initially recognised at fair value including transaction costs. The initial amount recognised is subsequently reduced for principal repayments and for accrued interest using the effective interest method. In addition, the carrying amount of financial assets is adjusted by recognising an expected credit loss allowance through the profit or loss.

The effective interest method is used to allocate interest income or interest expense over the relevant period. The effective interest rate is the rate that discounts estimated future cash payments or receipts through the expected life of the financial asset or financial liability or a shorter period when appropriate, 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, issuance or disposal of a financial asset or financial liability.

Gains and losses arising on the disposal of financial assets measured at amortised cost are recognised in 'trading profit' or other non interest revenue as relevant.

iv. Financial assets and financial liabilities measured at fair value through profit or loss

Financial assets and financial liabilities are measured at fair value through profit or loss (FVTPL) if they are held for trading. Under IFRS 9, a financial asset or a financial liability is defined 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. However, such financial instruments are used by the Company predominantly in connection with its client-driven market-making and/or for hedging certain assets, liabilities, positions, cash flows or anticipated transactions (i.e. risk management activities). Financial assets and financial liabilities held for trading comprise both debt and equity securities, loans and derivatives and the related unrealised gains and losses.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

3. Summary of significant accounting policies (continued)

3.3.1 Financial assets and financial liabilities (continued)

iv. Financial assets and financial liabilities measured at fair value through profit or loss (continued)

In addition, certain financial assets that are not held for trading are measured at FVTPL if they do not meet the criteria to be measured at amortised cost or FVOCI. For example, if the financial assets are managed on a fair value basis, have contractual cash flows that are not SPPI or are equity securities.

Financial instruments measured at FVTPL are initially recognised at fair value in the balance sheet. Transaction costs and any subsequent fair value gains or losses are recognised in profit or loss as they arise.

The Company manages cash instruments, in the form of debt and equity securities, and derivatives on a unified basis, 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.

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

Subject to certain criteria, the Company can designate financial assets and financial liabilities to be measured at fair value through profit or loss. Designation is only possible when the financial instrument is initially recognised and cannot subsequently be reclassified. Financial assets can be designated as measured at fair value through profit or loss only if such designation eliminates or significantly reduces a measurement or recognition inconsistency. Financial liabilities can be designated as measured 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.

Financial assets and financial liabilities that the Company designates as measured at fair value through profit or loss are recognised at fair value at initial recognition, with transaction costs being recognised in profit or loss and subsequently measured at fair value. Gains and losses on financial assets and financial liabilities designated at fair value through profit or loss are recognised in profit or loss as they arise.

Changes in the fair value of financial assets and financial liabilities designated as measured at FVTPL are recognised in profit or loss except for gains/losses attributable to changes in the Company's own credit risk.

3.3.2 Interest income and interest expense

Unless a financial asset is credit-impaired, interest income is recognised by applying the effective interest method to the carrying amount of a financial asset before adjusting for any allowance for expected credit losses. If a financial asset is credit-impaired, interest income is recognised by applying the effective interest rate to the carrying amount of the financial asset including any allowance for expected credit losses.

Interest expense on financial liabilities is recognised by applying the effective interest method to the amortised cost of financial liabilities.

3.3.3 Trading profit

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

3.3.4 Impairment of financial assets

The Company recognises ECL for financial assets that are measured at amortised cost.

Provisions for ECL are recognised on initial recognition of the financial instrument based on expectations of 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 includes 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.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

3. Summary of significant accounting policies (continued)

3.3.4 Impairment of financial assets (continued)

The determination of the stage 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 has conducted quantitative tests, which considers, but is not limited to, existing risk management indicators, credit rating changes and reasonable and supportable forward-looking information. Forward-looking information reflects a range of scenarios that incorporate macro-economic factors that are composed and monitored by a JPMorgan Chase's firm-wide specialised economic forecasting team.

The key input components for the quantification of expected credit 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 existing regulatory and capital frameworks where overlap is present for 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.

3.4 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 11 to the financial statements.

3.5 Fee and commission income and expense

Fee and commissions obtained through Firm attribution agreements are recognised when the underlying contract becomes legally binding or at the agreed due date if later.

3.6 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.

3.7 Recognition of deferred day one profit and loss

The Company enters into transactions where fair value is determined using valuation models that use significant unobservable inputs. 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 significant unobservable inputs.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

3. Summary of significant accounting policies (continued)

3.7 Recognition of deferred day one profit and loss (continued)

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.

3.8 Cash and cash equivalents

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

3.9 Share capital

The share capital of the Company consists of ordinary shares, classified as equity.

3.10 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.

4. Critical accounting estimates and judgements

The preparation of financial statements generally 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 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 11.

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 11.

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 11.

5. Segmental analysis

The Company's activities comprise only one business segment, namely Corporate and Investment Banking services. The Company issues structured notes, of which the majority are issued within EMEA. All fee and commission income is received from JPMorgan Chase undertakings within the EMEA region.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

6. Financial assets held at fair value through profit and loss

	2019	2018
	\$'000	\$'000
Financial assets held at fair value through profit and loss	26,848,043	20,591,955

Financial assets held at fair value through profit and loss predominantly represent derivatives and fully funded OTC financial instruments with other JPMorgan Chase undertakings, see note 11. Credit valuation adjustments ("CVA") are necessary to reflect counterparty credit quality in the valuation of assets measured at fair value. CVA for 2019 for financial assets held at fair value through profit and loss is \$9.1 million (2018: \$236.2 million) which is fully offset by an equal and opposite amount in financial liabilities designated at fair value through profit or loss. (Refer note 9 and 10).

7. Trade and other receivables

	2019	2018
	\$'000	\$'000
Trade and other receivables: amounts falling due after one year		
Amounts owed by JPMorgan Chase undertakings	4,400,000	3,300,000
	4,400,000	3,300,000
Trade and other receivables: amounts falling due within one year		
Trade and other receivables (others)	94,435	114,649
Amounts owed by JPMorgan Chase undertakings	199,460	8,328
	293,895	122,977

None of the amounts within trade and other receivables were past due or impaired as at 31 December 2019 (31 December 2018: nil).

8. Net cash and cash equivalents

	2019	2018
	\$'000	\$'000
Cash held with JPMorgan Chase undertakings	4,187,640	2,710,496
Cash held with third parties	113,540	93,223
	4,301,180	2,803,719
Bank overdraft		
Balances due to JPMorgan Chase undertakings	(29,425)	(18,129)
Balances due to third parties	(31,182)	(2,599)
	(60,607)	(20,728)
Net cash and cash equivalents as reported in the cash flow statement	4,240,573	2,782,991

9. Financial liabilities designated at fair value through profit or loss

	2019	2018
	\$'000	\$'000
Financial liabilities designated at fair value through profit or loss	22,908,559	17,420,872

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

9. Financial liabilities designated at fair value through profit or loss (continued)

Financial liabilities designated at fair value through profit and loss include short term and long term structured notes. In certain instances, the customers have the rights to exercise put options. Other securities include early redemption clauses. As a result, the notes have been disclosed as having a maturity within one year in the table above. The contractual payments associated with the notes issued by the Company are all guaranteed, predominantly by JPMorgan Chase Bank, N.A. and may be repayable on customer demand. The details of each note are set out in the prospectus for each issuance.

Debit valuation adjustments are necessary to reflect the credit quality of the Firm in the valuation of such liabilities. The directors consider that the Company is fully hedged and that there would, in the normal course of business, be no impact to the results of the Company due to movements in the fair value of the financial liabilities designated at fair value through profit or loss.

The amount of change attributable to changes in its own credit and funding risk in the financial liabilities designated at fair value through profit or loss and held at fair value through profit or loss for 2019 is a loss of \$9.1 million (2018: gain of \$236.2 million). This is fully offset by an equal and opposite amount in financial assets held at fair value through profit or loss (Refer note 6).

10. Financial liabilities held at fair value through profit and loss

	2019	2018
	\$'000	\$'000
Financial liabilities held at fair value through profit or loss	3,939,485	3,171,083

Financial liabilities held at fair value through profit or loss consists of warrants and derivatives.

11. Assets and liabilities measured at 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 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, prices (such as commodity, equity or debt prices), correlations, 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 Firm'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.

Debit valuation adjustments ("DVA") are taken to reflect the credit quality of the Company in the valuation of liabilities measured at fair value. The Firm also incorporates the impact of funding in its valuation estimates where there is evidence that a market participant in the principal market would incorporate it in a transfer of the instrument.

Credit valuation adjustments ("CVA") are necessary to reflect counterparty credit quality in the valuation of assets measured at fair value.

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 terms such as maturity and use as inputs market-based or independently sourced parameters. The Model Risk Governance and Review function is independent of the model owners and reviews and approves valuation models used by the Company.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

11. Assets and liabilities measured at fair value (continued)

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.

Valuation methodologies

The following table describes the valuation methodologies used by the Firm 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
Structured notes	<ul style="list-style-type: none"> Valuations are based on discounted cash flow analysis that consider the embedded derivative and the terms and payment structure of the note. The embedded derivative features are considered using models such as the Black-Scholes option pricing model, simulation models, or a combination of models that use observable or unobservable valuation inputs, depending on the embedded derivative. The specific inputs used vary according to the nature of the embedded derivative features, as described in the discussion below regarding derivative valuation. Adjustments are then made to this base valuation to reflect the Firm's own credit risk (DVA). 	Level 2 or 3
Equity securities	Quoted market prices are used.	Level 1
Derivatives and fully funded OTC financial instruments	<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 Firm's as well as market funding levels may also be considered.</p>	Level 2 or 3

The following tables present the assets and liabilities reported at fair value as of 31 December 2019 and 2018, by major product category and fair value hierarchy.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

11. Assets and liabilities measured at fair value (continued)

Assets and liabilities measured at fair value on a recurring basis

	Level 1 \$'000	Level 2 \$'000	Level 3 \$'000	Total \$'000
At 31 December 2019				
Financial assets held at fair value through profit and loss:				
Financial assets held at fair value through profit and loss	398,437	15,581,473	10,868,133	26,848,043
Total financial assets	398,437	15,581,473	10,868,133	26,848,043
Financial liabilities held at fair value through profit and loss:				
Financial liabilities held at fair value through profit and loss	—	(3,580,485)	(359,000)	(3,939,485)
Financial liabilities designated at fair value through profit or loss:				
Structured notes	—	(13,015,441)	(9,893,117)	(22,908,558)
Total financial liabilities	—	(16,595,926)	(10,252,117)	(26,848,043)
At 31 December 2018				
Financial assets held at fair value through profit and loss:				
Financial assets held at fair value through profit and loss	268,677	10,115,674	10,207,604	20,591,955
Total financial assets	268,677	10,115,674	10,207,604	20,591,955
Financial liabilities held at fair value through profit and loss:				
Financial liabilities held at fair value through profit and loss	—	(2,653,576)	(517,507)	(3,171,083)
Financial liabilities designated at fair value through profit or loss:				
Structured notes	—	(8,807,190)	(8,613,682)	(17,420,872)
Total financial liabilities	—	(11,460,766)	(9,131,189)	(20,591,955)

The Company hedges all structured note issuances by entering into hedging transactions with other JPMorgan Chase companies. The hedging transactions can be booked as multiple elements in order to ensure the risk associated with the notes is fully hedged. Each of these elements is classified in the fair value hierarchy in line with the requirements of IFRS 13 'Fair Value Measurement', and as such the fair value hierarchy of the structured notes and hedges can differ.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

11. Assets and liabilities measured at fair value (continued)

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 are 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.

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 underlyings, 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.

Product/instrument	Asset	Liability	Net fair value	Principal valuation technique	Unobservable input	Range of input values
At 31 December 2019	\$'000	\$'000	\$'000			
Derivatives and fully funded OTC financial instruments	10,868,133	(359,000)	10,509,133	Option pricing	Interest rate correlation	(65)% - 94%
					Interest rate spread volatility	20bps - 30bps
					Interest rate - FX correlation	(58)% - 40%
					Equity correlation	10% - 97%
					Equity - FX correlation	(81)% - 60%
					Equity - Interest rate correlation	25% - 35%
					Equity volatility	9% - 93%
Structured notes	—	(9,893,117)	(9,893,117)	Option pricing	Interest rate correlation	(65)% - 94%
					Interest rate spread volatility	20bps - 30bps
					Interest rate - FX correlation	(58)% - 40%
					Equity correlation	10% - 97%
					Equity - FX correlation	(81)% - 60%
					Equity - Interest rate correlation	25% - 35%
					Equity volatility	9% - 93%
Total	10,868,133	(10,252,117)	616,016			

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

11. 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
At 31 December 2018	\$'000	\$'000	\$'000			
Derivatives and fully funded OTC financial instruments	10,207,604	(517,507)	9,690,097	Option pricing	Interest rate correlation	(45)% - 97%
					Interest rate spread volatility	16bps - 38bps
					Interest rate - FX correlation	(45)% - 60%
					Equity correlation	20% - 98%
					Equity - FX correlation	(75)% - 61%
					Equity - Interest rate correlation	20% - 60%
					Equity volatility	14% - 57%
Structured notes	—	(8,613,682)	(8,613,682)	Option pricing	Interest rate correlation	(45)% - 97%
					Interest rate spread volatility	16bps - 38bps
					Interest rate - FX correlation	(45)% - 60%
					Equity correlation	20% - 98%
					Equity - FX correlation	(75)% - 61%
					Equity - Interest rate correlation	20% - 60%
					Equity volatility	14% - 57%
Total	10,207,604	(9,131,189)	1,076,415			

The categories presented in the tables have been aggregated based upon the product type.

Changes in and ranges of unobservable inputs

The following discussion provides a description of the impact on 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.

Correlation - Correlation is a measure of the relationship between the movements of two variables. 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 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. For example, a short correlation position, where volatility increases, 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 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 of financial instruments valued using techniques that incorporate unobservable inputs

Price risk from the issued instruments is matched by entering into equal and offsetting OTC financial transactions with other JPMorgan Chase companies so that any price risk is effectively hedged. As at 31 December 2019, the use of alternative inputs would not change the results of the Company. Consequently, no sensitivity analysis for level 3 financial instruments is disclosed.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

11. Assets and liabilities measured at fair value (continued)

Movement in Level 3 assets and liabilities

Financial assets held at fair value through profit and loss

	2019	2018
	\$'000	\$'000
At 1 January	10,207,604	7,466,934
Total gain/(loss) recognised in income statement *	871,612	(1,111,090)
Purchases	8,459,897	6,155,023
Settlements	(6,686,051)	(1,319,332)
Transfers in to level 3	356,480	292,789
Transfers out of level 3	(2,341,409)	(1,276,720)
At 31 December	10,868,133	10,207,604
Change in unrealised gain related to financial instruments held at 31 December *	614,670	10,966

Financial liabilities held at fair value through profit and loss and designated at fair value through profit and loss

	2019	2018
	\$'000	\$'000
At 1 January	9,131,189	8,923,878
Total (gain)/loss recognised in income statement *	(10,257)	725,676
Purchases	386,190	138,389
Issuances	10,278,657	4,870,090
Settlements	(7,665,299)	(4,385,685)
Transfers in to level 3	398,149	320,213
Transfers out of level 3	(2,266,512)	(1,461,372)
At 31 December	10,252,117	9,131,189
Change in unrealised loss related to financial instruments held at 31 December *	51,770	(16,632)

* As explained above, the Company's hedging transactions are booked as multiple elements in order to ensure the risk associated with the notes is fully hedged, and as such the levelling of the structured notes and hedges can differ. The gain/(loss) recognised in the income statement as a result of changes in fair value related to level 3 financial instruments, including any changes to unrealised gain/(loss) is offset by an equal and opposite impact as a result of changes in fair value of the related hedging instruments that are classified across multiple fair value levels.

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

For the years ended 31 December 2019 and 2018, there were no transfers between levels 1 and 2.

During the year ended 31 December 2019, transfers from level 2 to level 3 included the following:

- \$356 million of assets driven by reduction in observability of derivatives and fully funded OTC financial instruments.
- \$398 million of liabilities driven by a reduction in observability of structured notes.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

11. Assets and liabilities measured at fair value (continued)

Movement in Level 3 assets and liabilities (continued)

During the year ended 31 December 2019, transfers from level 3 to level 2 included the following:

- \$2,341 million of assets driven by increase in observability of derivatives and fully funded OTC financial instruments.
- \$2,266 million of liabilities driven by increase in observability of structured notes.

During the year ended 31 December 2018, significant transfers from level 2 to level 3 included the following:

- \$293 million of assets driven by reduction in observability of derivatives and fully funded OTC financial instruments.
- \$320 million of liabilities driven by a reduction in observability of structured notes.

During the year ended 31 December 2018, transfers from level 3 to level 2 included the following:

- \$1,277 million of assets driven by increase in observability of derivatives and fully funded OTC financial instruments.
- \$1,461 million of liabilities driven by increase in observability of structured notes.

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 cash and cash equivalents, bank overdraft, trade and other receivables and trade and other payables.

The company has \$8,995.1 million (2018: \$6,226.7 million) of financial assets and \$8,424.5 million (2018: \$5,685.4 million) of current financial liabilities that are not measured at fair value. Given the short-term nature of these instruments, their carrying amounts in the balance sheet are a reasonable approximation of fair value.

Offsetting financial assets and financial liabilities

No financial assets and liabilities have been offset on the balance as at 31 December 2019 (2018: nil).

Financial instruments, recognised within financial assets held at fair value through profit and loss and financial liabilities held at fair value through profit and loss, which were subject to master netting arrangements or other similar agreements but not offset, as at 31 December 2019, amounted to \$578.7 million (2018: \$347.0 million).

12. Trade and other payables

	2019	2018
	\$'000	\$'000
Trade payables	165,579	118,339
Amounts owed to JPMorgan Chase undertakings	8,198,292	5,546,297
	8,363,871	5,664,636

Current year trade and other payables predominantly consist of variation margin received from other JPMorgan Chase undertakings.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

13. Share capital

	2019	2018
	€'000	€'000
Authorised share capital		
90,000 (2018: 90,000) Ordinary shares of €1.00 each	90	90

	2019	2018
	\$'000	\$'000
Issued and fully paid share capital		
20,000 (2018: 20,000) Ordinary shares of €1.00 each	26	26

In accordance with the requirements of Article 373 Book 2 of the Dutch Civil Code, the Company holds an amount of \$2,000 in a legal reserve in respect of revaluation of the Euro denominated share capital. There has been no change in the amount of authorised share capital during the year.

14. Operating profit

Included in operating profit are net gains/(losses) from financial liabilities designated at FVTPL and financial assets and liabilities held at FVTPL:

	2019	2018
	\$'000	\$'000
Net (loss)/gain on financial liabilities designated at FVTPL	(2,104,508)	1,304,435
Net gain/(loss) on financial assets and liabilities held at FVTPL	2,104,508	(1,304,435)
	—	—

All fee and commission income is received from other JPMorgan Chase undertakings.

All fee and commission expense is paid by other JPMorgan Chase undertakings and reimbursed by the Company.

15. Audit fee

	2019	2018
	\$'000	\$'000
Auditors' remuneration for the audit of the Company's annual financial statements	40	43

16. Interest income and expense

All interest income and expenses are from financial instruments held at amortised cost, which are receivable from or due to JPMorgan Chase undertakings respectively.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

17. Income tax expense

	2019	2018
	\$'000	\$'000
Income tax expense:		
Current tax	7,505	1,821
Adjustment in respect of previous years	(20)	82
Tax on profit on ordinary activities	7,485	1,903
Profit for the year before tax	30,072	7,319
Tax calculated at applicable tax rates	7,505	1,821
Adjustments in respect of previous years	(20)	82
Income tax expense	7,485	1,903

The standard tax rate in the Netherlands is 25% (2018: 25%). A tax rate of 19% (2018: 20%) is applied to the first €200,000 (2018: €200,000).

18. Financial 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, and the Company believe that effective risk management requires:

- Acceptance of responsibility, including identification and escalation of risk issues, by all individuals within the Firm;
- Ownership of risk identification, assessment, data and management within each of the lines of business and Corporate; and
- Firmwide structures for risk governance.

JPMorgan Chase's risk governance structure is based on the principle that each line of business is responsible for managing the risk inherent in its business, albeit with appropriate corporate oversight. Each LOB risk committee is responsible for decisions regarding the business risk strategy, policies (as appropriate) and controls. Therefore, each LOB within the Company forms part of the firmwide risk governance structure.

The Company exercises oversight through the Board of Directors which are aligned to the Firm risk management framework and regulatory requirements.

All disclosures in the Risk management section (pages 22-27) are unaudited unless otherwise stated.

Risk Summary

The following sections outline the key risks that are inherent in the Company's business activities.

A detailed description of the policies and processes adopted by the Firm may be found within the JPMorgan Chase & Co. 2019 Annual Report on Form 10-K. The report is available at <https://jpmorganchaseco.gcs-web.com/financial-information/sec-filings>

Credit risk

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").

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

18. Financial risk management (continued)

Credit risk (continued)

Expected credit loss measurement

Approach to measuring expected credit losses

The Company estimates credit impairment through an allowance for expected credit losses ("ECLs"). ECLs are recognised for financial assets that are measured at amortised cost. The measurement of ECLs must reflect:

- (a) An unbiased and probability weighted amount that is determined by evaluating a range of possible outcomes;
- (b) The time value of money; and
- (c) Reasonable and supportable information about past events, current economic conditions, and forecasts of future economic conditions.

The measurement of ECL also reflects how the Company manages the financial instruments it uses for credit risk purposes such as Traditional Credit Products ("TCP"), and non-traditional credit products ("Non-TCP"). The Company does not hold any TCP instruments. Non-TCP consist of financial assets measured at amortised cost which include trade and other receivables and cash instruments.

The following table sets out the balances of the Company's financial assets that are measured at amortised cost within the Non-TCP category:

Balance sheet categories	Non-TCP	
	2019	2018
	\$'000	\$'000
Assets		
Trade and other receivables	4,693,895	3,422,977
Cash and cash equivalents	4,301,180	2,803,719

Off-balance sheet lending-related commitments which are categorised as TCP is reported in provisions for liabilities and are not included in the table above.

For Non-TCPs, the Company utilises a combination of an established provision matrix, as well as quantitative and qualitative considerations to estimate ECLs.

During the year, the Company did not recognise any ECL on Non-TCP balances as the ECL related to these exposures is assessed as immaterial. The Company's approach to measuring ECLs for Non-TCP portfolios depends on the type of instrument. Refer to the Credit exposures section below for an analysis per balance sheet line item.

Credit exposures

Balance sheet exposure by financial asset

The table below presents the Company's gross balance sheet exposure to financial assets without taking account of any collateral or economic hedges in place.

	2019	2018
	\$'000	\$'000
Financial assets held at fair value through profit and loss	26,449,606	20,323,278
Trade and other receivables	4,693,895	3,422,977
Cash and cash equivalents	4,301,180	2,803,719
	35,444,681	26,549,974

Included within the above assets, are balances held with other JPMorgan Chase undertakings of \$35,229 million (2018: \$26,334 million).

Financial assets held at fair value through profit and loss does not include equity securities captured under market risk.

The Company's credit exposures and credit risk mitigants are further described below. As no material ECL allowance is recognised on Non-TCP financial assets, refer below for further discussion.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

18. Financial risk management (continued)

Credit risk (continued)

Expected credit loss measurement (continued)

Trade and other receivables

Trade and other receivables mainly consist of amounts due from brokers/dealers such as failed sales, unsettled cash and amounts due from JPMorgan Chase undertakings.

Failed sale receivables generally have minimal credit risk due to the low probability of default of a 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.

Unsettled cash receivables relate to cash collateral paid to counterparties in respect of derivative financial instruments. Margin posted in cash is reflected as a receivable from the counterparty and is carried at amortised cost. The Company includes these receivables in Stage 1 due to the robust multi-layered credit protection inherent in the design and operations of the margin posted model.

The majority of amounts due from JPMorgan Chase undertakings are with a borrower who is a Material Legal Entity ("MLE"). As MLEs are adequately capitalised to ensure the MLE can fulfil all of its debt obligations even in the event of an orderly liquidation of JPMorgan Chase and are of investment grade, these inter-company receivables are included in Stage 1 as they are held with MLEs and considered to not have an increase in credit risk that would result in material expected credit losses. Receivables from MLEs are only included in Stage 2 if the obligor is no longer considered an MLE and there is evidence of credit deterioration of the obligor, or if certain support triggers defined in the JPMorgan Chase's Resolution Plan occur. Receivables from MLEs are not credit-impaired as the Firm ensures MLEs are more than adequately capitalised as required by the Firms Resolution Plan. The Company recognises no allowance on these balances.

Cash and cash equivalents

The Company places substantially all of its deposits with banks which are of investment-grade. The Company includes cash and cash equivalents in Stage 1 as investment-grade institutions are considered to have high quality credit with low risk of default and therefore a significant increase in credit risk is not deemed probable or material. The Company recognises no allowance on these balances.

Liquidity risk

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.

The Company's issuances are economically hedged with the OTC transactions with other JPMorgan Chase undertakings. To the extent that settlement-related timing differences between issuances and the OTC hedge may result in funding requirements, these are funded by other Firm companies involved in the transactions. The contractual payments associated with the notes issued by the Company are predominantly guaranteed by JPMorgan Chase Bank, N.A.

The following table provides details on the maturity of all financial liabilities.

	2019 Less than 1 year \$'000	2018 Less than 1 year \$'000
Financial liabilities designated at fair value through profit or loss	22,908,559	17,420,872
Financial liabilities held at fair value through profit and loss	3,939,485	3,171,083
Bank overdraft	60,607	20,728
Trade and other payables	8,363,871	5,664,636
	35,272,522	26,277,319

Included with the above liabilities, the balances held with other JPMorgan Chase undertakings are \$14,467 million (2018: \$5,931 million).

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

18. Financial risk management (continued)

Market risk

Market Risk is the risk associated with the effect of changes in market factors such as interest and foreign exchange rates, equity and commodity prices, credit spreads or implied volatilities, on the value of assets and liabilities held for both the short and long term.

Market Risk, arising from the Company's issuances are economically hedged by equal and offsetting OTC transactions with other Firm companies. Should this change, the Company's market risk would be managed as part of the enterprise wide Market Risk management framework.

Operational risk

Operational risk is the risk associated with an adverse outcome resulting from inadequate or failed internal processes or systems; human factors or external events impacting the Firm's processors or systems; it includes compliance risk, conduct risk, legal risk and estimations and model risk.

Operational risk is inherent in the Company's activities and can manifest itself in various ways, including fraudulent acts, business interruptions, cybersecurity attacks, inappropriate employee behaviour, failure to comply with applicable laws, and regulations or failure of vendors to perform in accordance with their agreements. Operational Risk Management attempts to manage 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

The Firm's Compliance, Conduct, and Operational Risk ("CCOR") Management Framework is designed to enable the Firm to govern, identify, measure, monitor and test, manage and report on the Firm's operational risk. The Company's approach mirrors the Firmwide approach.

Operational risk can manifest itself in various ways. Operational risk subcategories 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 subcategories, where relevant, can be found in the respective risk management sections.

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 Firm does business or that facilitate the Firm's business activities (e.g., vendors, exchanges, clearing houses, central depositories, and financial intermediaries) are also sources of cybersecurity risk to the Firm. 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 Firm or result in lost or compromised information of the Firm or its clients. Clients are also sources of cybersecurity risk to the Firm, particularly when their activities and systems are beyond the Firm's own security and control systems. As a result, the Firm engages in regular and ongoing discussions with certain vendors and clients regarding cybersecurity risks and opportunities to improve security. However, where cybersecurity incidents occur as a result of client failures to maintain the security of their own systems and processes, clients are responsible for losses incurred.

To protect the confidentiality, integrity and availability of the Firm's infrastructure, resources and information, the Firm maintains a cybersecurity program designed to prevent, detect, and respond to cyberattacks. The Audit Committee is updated periodically on the Firm's Information Security Program, recommended changes, cybersecurity policies and practices, ongoing efforts to improve security, as well as its efforts regarding significant cybersecurity events.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

18. Financial risk management (continued)

Operational risk (continued)

Business resiliency risk

The Firm is monitoring the COVID-19 coronavirus outbreak closely, based on the guidance being provided by the relevant health and government authorities, and continues to implement protocols and processes in response to the spread of the virus. The Firm has organised a central team to continue to consider what steps should be taken around the globe to protect our employees, prepare our businesses, and serve our clients and the communities where we live and work. In addition, teams across functions, businesses and regions continue to meet regularly to understand the global situation and to ensure any emerging developments relating to the well-being of our employees or the resiliency of our businesses are addressed quickly. Our business remains operational and senior leaders across the firm continue to monitor operational metrics.

Compliance risk

Compliance risk, a subcategory of operational risk, is the risk of failing to comply with laws, rules, regulations or codes of conduct and standards of self-regulatory organisations applicable to the business activities of the Firm.

Each Line of Business ("LOB") and Corporate within the Company hold primary ownership and accountability for managing compliance risks. 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 the 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. Compliance risk is also inherent in the Firm's activities, including a failure to exercise an applicable standard of care, to act in the best interest of clients and customers or to treat clients and customers fairly.

Other functions provide oversight of significant regulatory obligations that are specific to their respective areas of responsibility.

CCOR Management implements policies and standards designed to govern, identify, measure, monitor and test, manage, and report compliance risk.

Governance and oversight

Compliance is led by the Firm's Chief Compliance Officer ("CCO") who reports to the Firm's CRO. The regional CCOs, including the EMEACCO, are part of this structure. The Firm maintains oversight and coordination of its compliance risk through the implementation of the CCOR Risk Management Framework. At a Company level, in the UK the regional CCO is a member of the EMEA Management Committee and the UK Audit & Compliance Committee.

Code of Conduct

The Firm has a Code of Conduct ("Code") that sets out the Firm's expectation that employees will conduct themselves with integrity at all times and provides the principles that govern employee conduct with clients, customers, shareholders and one another, as well as with the markets and communities in which the Firm does business. The Code requires employees to promptly report 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 employees to report 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.

All newly hired employees are assigned Code training and current employees are periodically assigned Code training on an ongoing basis. Employees are required to affirm their compliance with the Code periodically. Employees can report any potential or actual violations of the Code through the Code Reporting Hotline by phone or the internet. It is administered by an outside service provider. The Code prohibits retaliation against anyone who raises an issue or concern in good faith.

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 the Firm's exposure to legal risk by:

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

18. Financial risk management (continued)

Legal risk (continued)

- 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 defence”), Risk Management and Compliance (the “second line of defence”), and the Internal Audit function (the “third line of defence”).

Legal selects, engages and manages outside counsel for the Firm 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 CEO and is a member of the Operating Committee, the Firmwide Risk Committee and the Firmwide Control Committee. The Firm’s General Counsel and other members of Legal report on significant legal matters to the Firm’s Board of Directors and periodically to the Audit Committee. Each region, including EMEA, has a General Counsel who is responsible for managing legal risk across all lines of business and functions in the region. Legal serves on and advises various committees (including new business initiative and reputation risk committees) and advises the Firm’s LOBs and Corporate on potential reputation risk issues.

Reputation risk

Reputation risk is the risk that an action or inaction may negatively impact the Firm’s integrity and reduce confidence in the Firm’s competence held by various constituents, including clients, counterparties, customers, investors, regulators, employees, communities or the broader public.

Organisation and management

Reputation Risk Management is an independent risk management function that establishes the governance framework for managing reputation risk across the Firm. As reputation risk is inherently difficult to identify, manage, and quantify, an independent reputation risk management governance function is critical.

The Firm’s reputation risk management function includes the following activities:

- Establishing a Firmwide Reputation Risk Governance policy and standards consistent with the reputation risk framework
- Managing the governance infrastructure and processes that support consistent identification, escalation, management and monitoring of reputation risk issues Firmwide; and
- Providing guidance to LOB Reputation Risk Offices (“RRO”), as appropriate.

The types of events that give rise to reputation risk are broad and could be introduced in various ways, including by the Firm’s employees and the clients, customers and counterparties with which the Firm does business. These events could result in financial losses, litigation and regulatory fines, as well as other damages to the Firm.

Governance and oversight

The Firm’s Reputation Risk Governance policy establishes the principles for managing reputation risk for the Firm. It is the responsibility of employees in each LOB and Corporate to consider the reputation of the Firm when deciding whether to offer a new product, engage in a transaction or client relationship, enter a new jurisdiction, initiate a business process or other matters. Increasingly, sustainability, social responsibility and environmental impacts are important considerations in assessing the Firm’s reputation risk, and are considered as part of reputation risk governance.

Reputation risk issues deemed material are escalated as appropriate.

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

19. Managed capital

Total equity of \$562.9 million (2018: \$540.3 million) constitutes the managed capital of the Company, which consists entirely of issued share capital, share premium reserve, legal reserve and retained earnings.

The directors are responsible for setting the objectives, policies and processes relating to the management of the Company's capital and maintain a set of policy documents to assist in discharging their responsibilities.

The Company is not subject to any externally imposed capital requirements.

20. Related party transactions

Related parties comprise:

- (a) Directors and shareholders of the Company and companies in which they have an ownership interest
- (b) Other JPMorgan Chase undertakings

None of the Directors received remuneration from the Company during the year (2018: nil). The Company did not employ any staff in 2019 or 2018.

The Company's parent undertaking is detailed in note 1. There were no transactions with the parent undertaking during the year.

Related party transactions, outstanding balances at year end, and income and expenses for the year, all related to normal business activities at arm's length, are as follows:

Outstanding balances at year end

	JPMorgan Chase undertakings	JPMorgan Chase undertakings
	31 December 2019	31 December 2018
	\$'000	\$'000
Financial assets held at fair value through profit or loss	26,442,201	20,315,566
Trade and other receivables	4,599,460	3,308,328
Cash and cash equivalents	4,187,640	2,710,496
Financial liabilities held at fair value through profit or loss*	(3,613,891)	(2,449,951)
Financial liabilities designated at fair value through profit or loss*	(2,625,100)	(1,433,134)
Trade and other payables	(8,198,292)	(5,546,297)
Bank overdraft	(29,425)	(18,129)

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Notes to the financial statements (continued)

20. Related party transactions (continued)

Income and expenses

	JPMorgan Chase undertakings	JPMorgan Chase undertakings
	31 December 2019	31 December 2018
	\$'000	\$'000
Net gains/(losses)	1,337,832	(851,772)
Fees and commission income	12,079	13,203
Fees and commission expense	(5,809)	(10,827)
Administrative expenses	(525)	(200)
Net interest income	29,880	6,493

* Previous year numbers have been reclassified to conform with current year presentation.

21. Proposed appropriation of net results

Management propose to appropriate the current year profit to retained earnings. No dividend was paid or proposed during the year.

22. Post balance sheet events

Following the outbreak of the COVID-19 pandemic in early 2020, the Company and the Firm are monitoring the development of the pandemic and evaluating its impact on the financial position and operating results of the Company. As at the date on which this set of financial statements were authorised for issue, as the situation is ongoing and eventual outcome unknown, the Company cannot quantify the final impact on the financial position or operations as a result of the COVID-19 pandemic. For more detail on Firmwide measures refer to operational risk (page 26).

The Board of Directors

S.E. Cheah

W.H. Kamphuijs

J.C.P. van Uffelen

M.F.C van der Werff

N. Dargan

Date: 14 April 2020

J.P. MORGAN STRUCTURED PRODUCTS B.V.

Other information

Profit appropriation according to the Articles of Association

The Articles of Association of the Company require that the allocation of profits be determined in a general meeting of the shareholders. The Management Board may resolve to pay interim dividends up to an amount which does not exceed the amount of the distributable part of the net assets. Dividends shall be paid after adoption of the annual financial statements from which it appears that payment of dividends is permissible.

Independent auditor's report

The independent auditor's report is included on page 31 of this annual report.

Independent auditor's report

INDEPENDENT AUDITOR'S REPORT

To: the general meeting of J.P.Morgan Structured Products B.V.

REPORT ON THE AUDIT OF THE FINANCIAL STATEMENTS 2019 INCLUDED IN THE ANNUAL REPORT

OUR OPINION

We have audited the financial statements 2019 of J.P. Morgan Structured Products B.V. In our opinion the accompanying financial statements give a true and fair view of the financial position of J.P. Morgan Structured Products B.V. as at 31 December 2019, and of its result and its cash flows for the year then ended in accordance with International Financial Reporting Standards as adopted by the European Union (EU-IFRS) and with Part 9 of Book 2 of the Dutch Civil Code.

The financial statements comprise:

- the Balance Sheet as at 31 December 2019;
- the following statements for 2019: Income Statement, Statement of Comprehensive Income, Statement of Changes in Equity and Statement of Cash Flows; and
- the notes, comprising a summary of the significant accounting policies and other explanatory information.

BASIS FOR OUR OPINION

We conducted our audit in accordance with Dutch law, including the Dutch Standards on Auditing. Our responsibilities under those standards are further described in the 'Our responsibilities for the audit of the financial statements' section of our report.

We are independent of the company in accordance with the "EU Regulation on specific requirements regarding statutory audit of public-interest entities", the "Audit firms supervision act" (Wta), "Dutch Independence Standard regarding assurance engagements (ViO)" and other relevant independence requirements in the Netherlands. Furthermore, we have complied with the "Dutch Code of Ethics (VGBA)".

We believe the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

EMPHASIS OF MATTER: EFFECT OF THE CORONA CRISIS

We draw attention to the section "Post balance sheet events" in the notes to the financial statements on page 29 where management describes its assessment of the effects of the corona crisis on J.P. Morgan Structured Products B.V., its dependency on J.P. Morgan Chase & Co group and the high level of uncertainty regarding the implications of the corona crisis and further developments going forward. Our opinion is not modified in respect of this matter.

MATERIALITY

Based on our professional judgement we determined the materiality for the financial statements as a whole at USD 358 million. The materiality is based on 1.0% of total assets. We have also taken into account misstatements and/or possible misstatements that in our opinion are material for the users of the financial statements for qualitative reasons.

OUR KEY AUDIT MATTERS

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements. We have communicated the key audit matters to the board of directors, but they are not a comprehensive reflection of all matters discussed.

These matters were addressed in the context of our audit of the financial statements as a whole and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

Cooperation with other auditors

To the extent we have relied in our audit on other auditors within J.P. Morgan Chase & Co group, we have planned audit procedures to ensure sufficient involvement in the nature, timing and extent of the work performed by them. These procedures include issuing instructions to those auditors, reviewing reports prepared by them and reviewing their audit files.

Valuation of financial assets and financial liabilities

We consider the fair value of financial assets and financial liabilities as disclosed in note 6, 9 and 10 and in total both amounting to USD 26.8 billion as a key audit matter. This is due to the nature of the instruments and the number of input parameters taken into account in the valuation.

Our audit procedures regarding the valuation of the financial assets and financial liabilities include, amongst others, the following:

- We obtained an understanding of the valuation methodology and the processes and controls with respect to the valuation of the financial assets and financial liabilities measured at fair value;
- We tested the Company's controls over the validation of models used in the valuation of financial assets and financial liabilities. We also tested management's independent price verification controls, which are designed to validate the prices used by the trading desks;
- We substantively tested the inputs to the fair value calculations. With respect to the discount rates used and inputs for the valuation of embedded derivative elements, this included independently sourcing data from independent third party sources. Furthermore, we agreed the terms of a sample of instruments to the respective prospectuses;
- We tested the completeness and accuracy of the booking of economic hedges to ensure the Company had effective economic hedges in place;
- We evaluated the adequacy of the disclosures relating to the valuation of financial assets and financial liabilities for compliance with the disclosure requirements included in EU-IFRS.

REPORT ON THE OTHER INFORMATION INCLUDED IN THE ANNUAL REPORT

In addition to the financial statements and our auditor's report thereon, the annual report contains other information that consists of:

- Directors' Report;
- Other information as required by Part 9 of Book 2 of the Dutch Civil Code.

Based on the following procedures performed, we conclude that the other information:

- is consistent with the financial statements and does not contain material misstatements;
- contains the information as required by Part 9 of Book 2 of the Dutch Civil Code.

We have read the other information. Based on our knowledge and understanding obtained through our audit of the financial statements or otherwise, we have considered whether the other information contains material misstatements.

By performing these procedures, we comply with the requirements of Part 9 of Book 2 of the Dutch Civil Code and the Dutch Standard 720. The scope of the procedures performed is substantially less than the scope of those performed in our audit of the financial statements.

Management is responsible for the preparation of the other information, including the Directors' Report in accordance with Part 9 of Book 2 of the Dutch Civil Code and other information as required by Part 9 of Book 2 of the Dutch Civil Code.

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

ENGAGEMENT

We were appointed as auditor of J.P. Morgan Structured Products B.V. as of the audit for the year 2017.

NO PROHIBITED NON-AUDIT SERVICES

We have not provided prohibited non-audit services as referred to in Article 5(1) of the EU Regulation on specific requirements regarding statutory audit of public-interest entities.

DESCRIPTION OF RESPONSIBILITIES REGARDING THE FINANCIAL STATEMENTS

RESPONSIBILITIES OF BOARD OF DIRECTORS FOR THE FINANCIAL STATEMENTS

The board of directors is responsible for the preparation and fair presentation of the financial statements in accordance with EU-IFRS and Part 9 of Book 2 of the Dutch Civil Code. Furthermore, the board of directors is responsible for such internal control as management determines is necessary to enable the preparation of the financial statements that are free from material misstatement, whether due to fraud or error.

As part of the preparation of the financial statements, the board of directors is responsible for assessing the company's ability to continue as a going concern. Based on the financial reporting frameworks mentioned, the board of directors should prepare the financial statements using the going concern basis of accounting unless the board of directors either intends to liquidate the company or to cease operations, or has no realistic alternative but to do so.

The board of directors should disclose events and circumstances that may cast significant doubt on the company's ability to continue as a going concern in the financial statements.

OUR RESPONSIBILITIES FOR THE AUDIT OF THE FINANCIAL STATEMENTS

Our objective is to plan and perform the audit assignment in a manner that allows us to obtain sufficient and appropriate audit evidence for our opinion.

Our audit has been performed with a high, but not absolute, level of assurance, which means we may not detect all material errors and fraud during our audit.

Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements. The materiality affects the nature, timing and extent of our audit procedures and the evaluation of the effect of identified misstatements on our opinion.

We have exercised professional judgement and have maintained professional scepticism throughout the audit, in accordance with Dutch Standards on Auditing, ethical requirements and independence requirements. Our audit included e.g.:

- Identifying and assessing the risks of material misstatement of the financial statements, whether due to fraud or error, designing and performing audit procedures responsive to those risks, and obtaining audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control;
- Obtaining an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control;
- Evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management;
- Concluding on the appropriateness of management's use of the going concern basis of accounting, and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause a company to cease to continue as a going concern;
- Evaluating the overall presentation, structure and content of the financial statements, including the disclosures; and
- Evaluating whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the board of directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant findings in internal control that we identify during our audit. In this respect we also submit an additional report to the board of directors in accordance with Article 11 of the EU Regulation on specific requirements regarding statutory audit of public-interest entities. The information included in this additional report is consistent with our audit opinion in this auditor's report.

We provide the board of directors with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with the board of directors, we determine the key audit matters: those matters that were of most significance in the audit of the financial statements. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, not communicating the matter is in the public interest.

Amsterdam, 14 April 2020

MAZARS ACCOUNTANTS N.V.

Original was signed by: J.C. van Oldenbeek MSc RA