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This document, for which we and our Guarantor accept full responsibility, includes particulars given in compliance with the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited (the “**Rules**”) for the purpose of giving information with regard to us and our Guarantor. We and our Guarantor, having made all reasonable enquiries, confirm that to the best of our knowledge and belief the information contained in this document is accurate and complete in all material respects and not misleading or deceptive, and there are no other matters the omission of which would make any statement herein or this document misleading.

This document is for information purposes only and does not constitute an invitation or offer to acquire, purchase or subscribe for the CBBCs.

Investors are warned that the price of the CBBCs may fall in value as rapidly as it may rise and holders may sustain a total loss of their investment. Prospective purchasers should therefore ensure that they understand the nature of the CBBCs and carefully study the risk factors set out in the Base Listing Document (as defined below) and this document and, where necessary, seek professional advice, before they invest in the CBBCs.

The CBBCs constitute general unsecured contractual obligations of us as the Issuer and of no other person and the Guarantee constitutes the general unsecured contractual obligations of our Guarantor and of no other person and will rank equally among themselves and with all our and our Guarantor’s other unsecured obligations (save for those obligations preferred by law) upon liquidation. If you purchase the CBBCs, you are relying upon the creditworthiness of us and our Guarantor, and have no rights under the CBBCs against the Index Compiler or any other person. If we become insolvent or default on our obligations under the CBBCs or our Guarantor becomes insolvent or defaults on its obligations under the Guarantee, you may not be able to recover all or even part of the amount due under the CBBCs (if any).

Non-collateralised Structured Products

Launch Announcement

and

Supplemental Listing Document for Callable Bull/Bear Contracts over Index

to be issued by

J.P.Morgan

Issuer: J.P. Morgan Structured Products B.V.

(incorporated with limited liability in The Netherlands)

and unconditionally and irrevocably guaranteed by

Guarantor: JPMorgan Chase Bank, National Association

(a national banking association organized under the laws of the United States of America)

Managers: J.P. Morgan Securities plc and J.P. Morgan Securities (Asia Pacific) Limited

Key Terms

CBBCs Stock code	66979	66981	66983
Liquidity Provider broker ID	9715	9708	9709
Issue size	200,000,000 CBBCs	200,000,000 CBBCs	200,000,000 CBBCs
Style / Category	European style cash settled category R	European style cash settled category R	European style cash settled category R
Type	Bear	Bull	Bear
Index	Hang Seng Index	Hang Seng Index	Hang Seng Index
Board Lot	10,000 CBBCs	10,000 CBBCs	10,000 CBBCs
Issue Price per CBBC	HK\$ 0.250	HK\$ 0.250	HK\$ 0.250
Funding Cost per CBBC as of Launch Date ¹	HK\$ 0.2200	HK\$ 0.2300	HK\$ 0.2100
	The funding cost will fluctuate throughout the life of the CBBCs		
Strike Level	24,600	24,158	24,748
Call Level	24,400	24,258	24,648
Cash Settlement Amount per Board Lot (if any) payable at expiry	Subject to no occurrence of a Mandatory Call Event: <i>For a series of bull CBBCs:</i> $\frac{(\text{Closing Level} - \text{Strike Level}) \times \text{one Board Lot} \times \text{Index Currency Amount}}{\text{Divisor}}$ <i>For a series of bear CBBCs:</i> $\frac{(\text{Strike Level} - \text{Closing Level}) \times \text{one Board Lot} \times \text{Index Currency Amount}}{\text{Divisor}}$		
Closing Level	The final settlement price for settling the Hang Seng Index Futures Contracts that are scheduled to expire during the month in which the Expiry Date of the relevant series of the CBBCs is scheduled to fall (the “ Index Futures Contracts ”) ²		
Index Exchange (for all series)	The Stock Exchange of Hong Kong Limited		
Index Currency Amount	HK\$1.00	HK\$1.00	HK\$1.00
Divisor	10,000	10,000	10,000
Launch Date (for all series)	23 March 2017		
Issue Date (for all series)	29 March 2017		
Listing Date (for all series)	30 March 2017		
Observation Commencement Date (for all series)	30 March 2017		

¹ The funding cost is calculated in accordance with the following formula:

$$\text{Funding Cost} = \frac{\text{Strike Level} \times \text{funding rate} \times n / 365 \times \text{Index Currency Amount}}{\text{Divisor}}$$

Where,

- (i) “n” is the number of days remaining to expiration; initially, “n” is the number of days from (and including) the Launch Date to (and including) the trading day immediately preceding the Expiry Date; and
- (ii) the funding rate will fluctuate throughout the term of the CBBCs as further described in the “Key Risk Factors” section in this document. As of the Launch Date, the funding rate was 33.61% (for stock code 66979), 10.32% (for stock code 66981) and 31.30% (for stock code 66983).

² Determined pursuant to Regulation 012 of the Regulations for Trading Stock Index Futures Contracts and the Contract Specifications for Hang Seng Index Futures (as amended from time to time) of the Hong Kong Futures Exchange Limited (or its successor or assign), subject to our right to determine the Closing Level in good faith on the Valuation Date upon the occurrence of a Market Disruption Event as described further in Condition 2(C).

CBBCs Stock code	66979	66981	66983
Valuation Date³	29 June 2017	27 February 2018	29 June 2017
Expiry Date³	29 June 2017	27 February 2018	29 June 2017
Settlement Date (for all series)	The third CCASS Settlement Day after (i) the end of the MCE Valuation Period or (ii) the later of: (a) the Expiry Date; and (b) the day on which the Closing Level is determined in accordance with the Conditions (as the case may be)		
Settlement Currency	Hong Kong dollars	Hong Kong dollars	Hong Kong dollars
Effective Gearing⁴	9.73x	9.73x	9.73x
Gearing⁴	9.73x	9.73x	9.73x
Premium⁴	9.13%	9.58%	8.55%

³ If such day is not the day on which the relevant Index Futures Contracts expire on Hong Kong Futures Exchange Limited (or its successor or assign), the day on which the relevant Index Futures Contracts will expire on the Hong Kong Futures Exchange Limited (or its successor or assign).

⁴ This data may fluctuate during the life of the callable bull/bear contracts and may not be comparable to similar information provided by other issuers of callable bull/bear contracts. Each issuer may use different valuation models.

IMPORTANT INFORMATION

The CBBCs are listed structured products which involve derivatives. Do not invest in them unless you fully understand and are willing to assume the risks associated with them.

What documents should you read before investing in the CBBCs?

You must read this document together with our base listing document dated 5 April 2016 (the “**Base Listing Document**”), as supplemented by any addendum thereto (together, the “**Listing Documents**”), in particular the section “Terms and Conditions of The Cash-Settled Callable Bull/Bear Contracts over Index” (the “**Conditions**”) set out in our Base Listing Document. This document (as read in conjunction with our Base Listing Document and each addendum referred to in the section headed “Product Summary Statement”) is accurate as at the date of this document. You should carefully study the risk factors set out in the Listing Documents. You should also consider your financial position and investment objectives before deciding to invest in the CBBCs. We cannot give you investment advice. You must decide whether the CBBCs meet your investment needs before investing in the CBBCs.

Is there any guarantee or collateral for the CBBCs?

Our obligations under the CBBCs are unconditionally and irrevocably guaranteed by our Guarantor. If we become insolvent or default on our obligations under the CBBCs and our Guarantor becomes insolvent or defaults on its obligations under the Guarantee, you can only claim as an unsecured creditor of the Issuer and our Guarantor. In such event, you may not be able to recover all or even part of the amount due under the CBBCs (if any).

What are our Guarantor’s credit ratings?

Our Guarantor’s current long-term debt credit ratings are:

<i>Rating agency</i>	<i>Rating as of the Launch Date</i>
Moody’s Investors Service, Inc.	Aa3 (stable outlook)
S&P Global Ratings	A+ (stable outlook)

Rating agencies usually receive a fee from the companies that they rate. When evaluating our Guarantor’s creditworthiness, you should not solely rely on our Guarantor’s credit ratings because:

- a credit rating is not a recommendation to buy, sell or hold the CBBCs;
- ratings of companies may involve difficult-to-quantify factors such as market competition, the success or failure of new products and markets and managerial competence;
- a high credit rating is not necessarily indicative of low risk. Our Guarantor’s credit ratings as of the Launch Date are for reference only. Any downgrading of our Guarantor’s credit ratings could result in a reduction in the value of the CBBCs;
- a credit rating is not an indication of the liquidity or volatility of the CBBCs; and
- a credit rating may be downgraded if the credit quality of our Guarantor declines.

The CBBCs are not rated.

Our Guarantor’s credit ratings and ratings outlooks are subject to change or withdrawal at any time within each rating agency’s sole discretion. You should conduct your own research using publicly available sources to obtain the latest information with respect to our Guarantor’s ratings and ratings outlooks from time to time.

Is the Issuer or our Guarantor regulated by the Hong Kong Monetary Authority referred to in Rule 15A.13(2) or the Securities and Futures Commission referred to in Rule 15A.13(3)?

We are not regulated by any of the bodies referred to in Rule 15A.13(2) or Rule 15A.13(3) of the Rules. Our Guarantor is a licensed bank regulated by the Hong Kong Monetary Authority. It is also a national banking association organised and subject to regulation under the laws of the United States of America, including the National Bank Act.

Is the Issuer or our Guarantor subject to any litigation?

Save as disclosed in the Listing Documents, the Issuer and our Guarantor are not aware, to the best of the Issuer’s and our Guarantor’s knowledge and belief, of any litigation or claims of material importance in the context of the issue of CBBCs pending or threatened against the Issuer or our Guarantor.

Has our or our Guarantor’s financial position changed since last financial year-end?

There has been no material adverse change in our or our Guarantor’s financial position since the date of the most recently published audited financial statements of us or our Guarantor on a consolidated basis respectively, as the case may be, that would have a material adverse effect on our ability to perform our obligations, or our Guarantor’s ability to perform its obligations respectively in the context of the issue of CBBCs.

PRODUCT SUMMARY STATEMENT

The CBBCs are listed structured products which involve derivatives. This statement provides you with key information about the CBBCs. You should not invest in the CBBCs based on the information contained in this statement alone. You should read and understand the remaining sections of this document, together with the other Listing Documents, before deciding whether to invest.

Overview of the CBBCs

- **What is a CBBC?**

A CBBC linked to an index is an instrument which tracks the performance of the underlying index.

The trading price of the CBBCs tends to mirror the movement of the Index level in dollar value.

Similar to a derivative warrant, a CBBC may provide a leveraged return to you. Conversely, such leverage could also magnify your losses.

A bull CBBC is designed for an investor holding a view that the level of the underlying index will increase during the term of the CBBC.

A bear CBBC is designed for an investor holding a view that the level of the underlying index will decrease during the term of the CBBC.

- **How do the CBBCs work?**

The CBBCs are European style cash settled callable bull/bear contracts linked to the Index. Subject to no occurrence of a Mandatory Call Event (see “Mandatory call feature” below), the CBBCs can only be exercised on the Expiry Date.

Mandatory call feature

A Mandatory Call Event occurs if the Spot Level is at or below (in respect of a series of bull CBBCs) or at or above (in respect of a series of bear CBBCs) the Call Level at any time during an Index Business Day in the Observation Period.

The Observation Period commences from the Observation Commencement Date to the Trading Day immediately preceding the Expiry Date (both dates inclusive). “**Trading Day**” means any day on which the Stock Exchange is scheduled to open for trading for its regular trading sessions.

Upon the occurrence of a Mandatory Call Event, trading in the CBBCs will be suspended immediately and, subject to the limited circumstances set out in the Conditions in which a Mandatory Call Event may be reversed, the CBBCs will be terminated and all Post MCE Trades will be invalid and will be cancelled and will not be recognised by us or the Stock Exchange. The term “**Post MCE Trades**” means subject to such modification and amendment prescribed by the Stock Exchange from time to time, (a) in the case where the Mandatory Call Event occurs during a continuous trading session, all trades in the CBBCs concluded via auto-matching or manually after the time of the occurrence of a Mandatory Call Event, and (b) in the case where the Mandatory Call Event occurs during a pre-opening session or a closing auction session (if applicable), all auction trades in the CBBCs concluded in such session and all manual trades concluded after the end of the pre-order matching period in such session.

The time at which a Mandatory Call Event occurs will be determined by reference to the time the relevant Index level is published by the Index Compiler.

Residual Value calculation

The CBBCs are Category R as the Call Level is different from the Strike Level. Upon the occurrence of a Mandatory Call Event, the holder may be entitled to a cash amount called the “**Residual Value**” net of any Exercise Expenses (as defined under the heading “Exercise Expenses” in the sub-section titled “What are the fees and charges?” below).

The Residual Value will be calculated in accordance with a formula by reference to the lowest Spot Level (in respect of a series of bull CBBCs) or the highest Spot Level (in respect of a series of bear CBBCs) of the Index in the trading session during which a Mandatory Call Event occurs and in the following session, subject to potential extension as further described in Condition 2(C).

The Residual Value per Board Lot (if any) payable is calculated as follows:

In respect of a series of bull CBBCs:

$$\frac{(\text{Minimum Index Level} - \text{Strike Level}) \times \text{one Board Lot} \times \text{Index Currency Amount}}{\text{Divisor}}$$

In respect of a series of bear CBBCs:

$$\frac{(\text{Strike Level} - \text{Maximum Index Level}) \times \text{one Board Lot} \times \text{Index Currency Amount}}{\text{Divisor}}$$

Where:

“**Minimum Index Level**” means, in respect of a series of bull CBBCs, the lowest Spot Level of the Index during the MCE Valuation Period;

“**Maximum Index Level**” means, in respect of a series of bear CBBCs, the highest Spot Level of the Index during the MCE Valuation Period;

“**MCE Valuation Period**” means, subject to any extension (as described in further detail in the Conditions), the period commencing from and including the moment upon which the Mandatory Call Event occurs and up to the end of the following trading session on the Index Exchange; and

“**Spot Level**” means the spot level of the Index as compiled and published by the Index Compiler.

If the Residual Value is equal to or less than the Exercise Expenses (if any), you will lose all of your investment.

At expiry

If a Mandatory Call Event has not occurred during the Observation Period, the CBBCs will be terminated on the Expiry Date.

A bull CBBC will be automatically exercised at expiry without the need for the holder to deliver an exercise notice if the Closing Level is above the Strike Level. The more the Closing Level is above the Strike Level, the higher the payoff at expiry. If the Closing Level is at or below the Strike Level, you will lose all of your investment in the bull CBBC.

A bear CBBC will be automatically exercised at expiry without the need for the holder to deliver an exercise notice if the Closing Level is below the Strike Level. The more the Closing Level is below the Strike Level, the higher the payoff at expiry. If the Closing Level is at or above the Strike Level, you will lose all of your investment in the bear CBBC.

Upon the automatic exercise of the CBBCs, the holder is entitled to a cash amount called the “**Cash Settlement Amount**” net of any Exercise Expenses (as defined under the heading “Exercise Expenses” in the sub-section titled “What are the fees and charges?” below) according to the terms and conditions in the Listing Documents. **If the Cash Settlement Amount is equal to or less than the Exercise Expenses (if any), you will lose all of your investment in the CBBCs.**

- **Can you sell the CBBCs before the Expiry Date?**

Yes. We will make an application for listing of, and permission to deal in, the CBBCs on the Stock Exchange. All necessary arrangements will be made to enable the CBBCs to be admitted into the Central Clearing and Settlement System (“CCASS”). Issue of the CBBCs is conditional upon listing approval being granted. From the Listing Date up to the Trading Day immediately preceding the Expiry Date (both dates inclusive), you may sell or buy the CBBCs on the Stock Exchange. No application has been made to list the CBBCs on any other stock exchange.

The CBBCs may only be transferred in a Board Lot (or integral multiples thereof). Where a transfer of CBBCs takes place on the Stock Exchange, currently settlement must be made not later than two CCASS Settlement Days after such transfer.

The Liquidity Provider will make a market in the CBBCs by providing bid and/or ask prices. See the section headed “Liquidity” below.

- **What is your maximum loss?**

The maximum loss in the CBBCs will be your entire investment amount plus any transaction costs.

- **What are the factors determining the price of a CBBC?**

The price of a CBBC linked to an index generally depends on the level of the underlying index (being the Index for the CBBCs). However, throughout the term of the CBBCs, the price of the CBBCs will be influenced by a number of factors, including:

- the Strike Level and Call Level of the CBBCs;
- the likelihood of the occurrence of a Mandatory Call Event;
- the probable range of Residual Value (if any) upon the occurrence of a Mandatory Call Event;
- the time remaining to expiry;
- the interim interest rates and expected dividend payments or other distributions on any components comprising the Index;
- the liquidity of the futures contracts relating to the Index;
- the supply and demand for the CBBCs;
- the probable range of the Cash Settlement Amount;
- our related transaction cost; and
- the creditworthiness of the Issuer and our Guarantor.

Although the price of the CBBCs tends to mirror the movement of the Index level in dollar value, movements in the price of the CBBCs may not always correspond with the movements in the Index level, especially when the Spot Level is close to the Call Level. It is possible that the price of the CBBCs does not increase as much as the increase (in respect of the bull CBBCs) or decrease (in respect of the bear CBBCs) in the level of the Index.

Risks of investing in the CBBCs

You must read the section headed “Key Risk Factors” in this document together with the risk factors set out in our Base Listing Document. You should consider all these factors collectively when making your investment decision.

Liquidity

- **How to contact the Liquidity Provider for quotes?**

Liquidity Provider: J.P. Morgan Broking (Hong Kong) Limited
Address: 25/F, Chater House, 8 Connaught Road Central, Hong Kong
Telephone Number: +852 2800 7878

The Liquidity Provider is regulated by the Stock Exchange and the Securities and Futures Commission. It is an affiliate of the Issuer and will act as our agent in providing quotes. You can request a quote by calling the Liquidity Provider at the telephone number above.

- **What is the Liquidity Provider’s maximum response time for a quote?** The Liquidity Provider will respond within 10 minutes and the quote will be displayed on the Stock Exchange’s designated stock page for the CBBCs.
- **Maximum spread between bid and ask prices:** 20 spreads
- **Minimum quantity for which liquidity will be provided:** 20 Board Lots
- **What are the circumstances under which the Liquidity Provider is not obliged to provide liquidity?**

There will be circumstances under which the Liquidity Provider is not obliged to provide liquidity. Such circumstances include:

- (i) upon the occurrence of a Mandatory Call Event;
- (ii) during the first 5 minutes of each morning trading session or the first 5 minutes after trading commences for the first time on a trading day;
- (iii) during a pre-opening session or a closing auction session (if applicable) or any other circumstances as may be prescribed by the Stock Exchange;
- (iv) when the CBBCs are suspended from trading for any reason;
- (v) if there occurs or exists any suspension of or limitation imposed on trading of options or futures contracts relating to the Index or if the Index level is not calculated or published as scheduled for any reason;
- (vi) when there are no CBBCs available for market making activities. In such event, the Liquidity Provider shall continue to provide bid prices. CBBCs held by us or any of our affiliates in a fiduciary or agency capacity are not CBBCs available for market making activities;
- (vii) when there are operational and technical problems beyond the control of the Liquidity Provider hindering the ability of the Liquidity Provider to provide liquidity;
- (viii) if the stock market experiences exceptional price movement and high volatility over a short period of time which materially affects the Liquidity Provider’s ability to source a hedge or unwind an existing hedge; or
- (ix) if the theoretical value of the CBBCs is less than HK\$0.01. If the Liquidity Provider chooses to provide liquidity under this circumstance, both bid and ask prices will be made available.

You should read the sub-section entitled “Possible limited secondary market” under the “Key Risk Factors” section for further information on the key risks when the Liquidity Provider is not able to provide liquidity.

How can you obtain further information?

- **Information about the Index**
You may obtain information on the Index by visiting the Index Compiler’s website at www.hsi.com.hk.
- **Information about the CBBCs after issue**
You may visit the Stock Exchange’s website at www.hkex.com.hk/eng/prod/secprod/cbbc/Intro.htm or our website at <http://www.jpwwarrants.com.hk> to obtain information on the CBBCs or any notice given by us or the Stock Exchange in relation to the CBBCs.
- **Information about us and our Guarantor**
You should read the section “Updated Information about Us and our Guarantor” in this document. You may visit <http://www.jpwwarrants.com.hk> to obtain general corporate information about our Guarantor.

We have included references to websites in this document to indicate how further information may be obtained. Information appearing on those websites does not form part of the Listing Documents. We accept no responsibility for the accuracy or completeness of the information appearing on those websites. You should conduct your own due diligence (including without limitation web searches) to ensure that you are viewing the most up-to-date information.

What are the fees and charges?

- **Trading Fees and Levies**

The Stock Exchange charges a trading fee of 0.005 per cent. and the Securities and Futures Commission charges a transaction levy of 0.0027 per cent. for each transaction effected on the Stock Exchange payable by each of the seller and the buyer and calculated on the value of the consideration for the CBBCs. The levy for the investor compensation fund is currently suspended.

- **Exercise Expenses**

You are responsible for any Exercise Expenses. Exercise Expenses mean any charges or expenses including any taxes or duties which are incurred or withheld in respect of the early termination of the CBBCs upon the occurrence of a Mandatory Call Event or the exercise of the CBBCs at expiry. Any Exercise Expenses will be deducted from the Residual Value or the Cash Settlement Amount payable at expiry (if any, as the case may be). If the Residual Value or the Cash Settlement Amount payable at expiry (as the case may be) is equal to or less than the Exercise Expenses, no amount is payable. As at the date of this document, no Exercise Expenses are payable for cash settled callable bull/bear contracts (including the CBBCs).

- **Stamp Duty**

No stamp duty is currently payable in Hong Kong on transfer of cash settled callable bull/bear contracts (including the CBBCs).

You should note that any transaction cost will reduce your gain or increase your loss under your investment in the CBBCs.

What is the legal form of the CBBCs?

Each series of the CBBCs will be represented by a global certificate in the name of HKSCC Nominees Limited that is the only legal owner of the CBBCs. We will not issue definitive certificates for the CBBCs. You may arrange for your broker to hold the CBBCs in a securities account on your behalf, or if you have a CCASS Investor Participant securities account, you may arrange for the CBBCs to be held in such account. You will have to rely on the records of CCASS and/or the statements you receive from your brokers as evidence of your beneficial interest in the CBBCs.

Can we adjust the terms or early terminate the CBBCs?

The occurrence of certain events (including, without limitation, a succession of the Index or Index Compiler, modification or cessation of calculation of the Index) may entitle us to adjust the terms and conditions of the CBBCs. However, we are not obliged to adjust the terms and conditions of the CBBCs for every event that affects the Index.

We may early terminate the CBBCs if it becomes illegal or impracticable for us (i) to perform our obligations under the CBBCs as a result of a change in law event, or (ii) to maintain our hedging arrangement with respect to the CBBCs due to a change in law event. In such event, the amount payable by us (if any) will be the fair market value of the CBBCs less our cost of unwinding any related hedging arrangements as determined by us, which may be substantially less than your initial investment and may be zero.

Please refer to Conditions 5 and 11 for details about adjustments or early termination events. Such events may negatively affect your investment and you may suffer a loss.

Mode of settlement for the CBBCs

Subject to early termination upon the occurrence of a Mandatory Call Event, the CBBCs will be automatically exercised on the Expiry Date in integral multiples of the Board Lot if the Cash Settlement Amount is positive. If the Cash Settlement Amount is zero or negative, or is equal to or less than the Exercise Expenses, you will lose all of your investment.

Upon the occurrence of a Mandatory Call Event, the CBBCs will be early terminated and the holder is entitled to the Residual Value (if any) net of any Exercise Expenses.

We will deliver a cash amount in the Settlement Currency equal to the Residual Value or the Cash Settlement Amount payable at expiry net of any Exercise Expenses (if any) no later than the Settlement Date to HKSCC Nominees Limited (as the registered holder of the CBBCs), which will then distribute such amount to the securities account of your broker (and if applicable, its custodian) or to your CCASS Investor Participant securities account (as the case may be). You may have to rely on your broker (and if applicable, its custodian) to ensure that the Residual Value or the Cash Settlement Amount payable at expiry (if any) is credited to your account maintained with your broker. Once we make the payment to HKSCC Nominees Limited, who operates CCASS, you will have no further right against us for that payment, even if CCASS or your broker (and if applicable, its custodian) does not transfer your share of payment to you, or is late in making such payment transfer.

Payment of the Residual Value or the Cash Settlement Amount payable at expiry (if any) may be delayed if a Settlement Disruption Event occurs on the Settlement Date, as a result of which we are unable to deliver such amount through CCASS on such day. See Condition 3(F) for further information.

Where can you inspect the relevant documents of the CBBCs?

The following documents are available for inspection during usual business hours on any weekday (Saturdays, Sundays and holidays excepted) until the Expiry Date at the offices of J.P. Morgan Securities (Asia Pacific) Limited at 25/F, Chater House, 8 Connaught Road Central, Hong Kong:

- each of the Listing Documents (in separate English and Chinese versions), including:
 - this document
 - our Base Listing Document
 - the supplemental disclosure document dated 29 April 2016 (the “**Supplemental Disclosure Document**”)
 - the supplemental disclosure document dated 30 September 2016;
- our 2015 annual report which contains our financial statements for the year ended 31 December 2015;
- our Guarantor’s consolidated financial statements for the year ended 31 December 2015 comprising consolidated balance sheets at 31 December 2015 and 2014 and the related consolidated statements of income, changes in stockholder’s equity, comprehensive income and cash flows for each of the three years ended 31 December 2015;
- our Guarantor’s unaudited semiannual consolidated financial statements, as and when they become available;
- our deed of incorporation;
- our Guarantor’s articles of association and by-laws;
- the guarantee dated 5 April 2016 (the “**Guarantee**”);
- the letter from our auditor, PricewaterhouseCoopers Accountants N.V., consenting to the reproduction of its audit report on our financial statements for the year ended 31 December 2015 in the Supplemental Disclosure Document;
- the letter from our Guarantor’s auditor, PricewaterhouseCoopers LLP, consenting to the reproduction of its audit report on the consolidated financial statements of our Guarantor for the year ended 31 December 2015 in the Base Listing Document; and
- the amended and restated instrument dated 3 May 2010 (as amended or supplemented from time to time) pertaining to the issue of CBBCs.

The Listing Documents are also available on the website of the HKEX at www.hkexnews.hk and our website at <http://www.jpwmwarrants.com.hk>.

各上市文件亦可於香港交易所披露易網站(www.hkexnews.hk)以及本公司網站<http://www.jpwmwarrants.com.hk>瀏覽。

Are there any dealings in the CBBCs before the Listing Date?

It is possible that there may have been dealings in the CBBCs before the Listing Date. If there are any dealings in the CBBCs by us or any of our subsidiaries or associated companies from the Launch Date prior to the Listing Date, we will report those dealings to the Stock Exchange by the Listing Date and such report will be released on the website of the Stock Exchange.

Have the auditors consented to the inclusion of their audit reports to the Listing Documents?

Our auditor and our Guarantor’s auditor (“**Auditors**”) have given and have not since withdrawn their written consent to the inclusion of their audit reports dated 6 April 2016 and 24 February 2016 respectively and/or the references to their names in our Listing Documents, in the form and context in which they are included. Their audit reports were not prepared exclusively for incorporation into our Listing Documents. The Auditors do not own any of our shares or shares in any member of our group, nor do they have the right (whether legally enforceable or not) to subscribe for or to nominate persons to subscribe for our securities or securities of any member of our group.

Authorisation of the CBBCs

The issue of the CBBCs was authorised by resolutions of our board of directors on 30 March 2016. The giving of the Guarantee was authorised pursuant to resolutions of the board of directors of our Guarantor adopted on 8 December 2015.

Selling restrictions

The CBBCs have not been and will not be registered under the United States Securities Act of 1933, as amended (the “**Securities Act**”), and will not be offered, sold, delivered or traded, at any time, indirectly or directly, in the United States or to, or for the account or benefit of, any U.S. person (as defined in the Securities Act).

The offer or transfer of the CBBCs is also subject to the selling restrictions specified in our Base Listing Document.

Capitalised terms and inconsistency

Unless otherwise specified, capitalised terms used in this document have the meanings set out in the Conditions. If this document is inconsistent with our Base Listing Document, this document shall prevail.

INFORMATION ON THE INDEX

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Hang Seng Indexes Company Limited. The Index is managed and compiled by the Index Compiler, which is a wholly-owned subsidiary of Hang Seng Bank Limited.

How is the Index level disseminated?

The Index level is disseminated through the website of the Index Compiler at <http://www.hsi.com.hk> and various information vendors. You should contact your stockbroker for further information.

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KEY RISK FACTORS

You must read these key risk factors together with the risk factors set out in our Base Listing Document. These key risk factors do not necessarily cover all risks related to the CBBCs. If you have any concerns or doubts about the CBBCs, you should obtain independent professional advice.

Non-collateralised structured products

The CBBCs are not secured on any of our or our Guarantor's assets or any collateral.

Credit risk

If you invest in the CBBCs, you are relying on our creditworthiness and our Guarantor's creditworthiness and of no other person. If we become insolvent or default on our obligations under the CBBCs or our Guarantor becomes insolvent or defaults on its obligations under our Guarantee, you can only claim as our or the Guarantor's unsecured creditor regardless of the performance of the Index and may not be able to recover all or even part of the amount due under the CBBCs (if any). You have no rights under the terms of the CBBCs against the Index Compiler or any company which has issued any constituent securities of the Index.

CBBCs are not principal protected and may become worthless

Given the gearing effect inherent in the CBBCs, a small change in the Index level may lead to a substantial price movement in the CBBCs.

Unlike stocks, the CBBCs have a limited life and will be early terminated upon the occurrence of a Mandatory Call Event or expire on the Expiry Date. In the worst case, the CBBCs may be early terminated or expire with no value and you will lose all of your investment. The CBBCs may only be suitable for experienced investors who are willing to accept the risk that they may lose all their investment.

The CBBCs can be volatile

Prices of the CBBCs may rise or fall rapidly. You should carefully consider, among other things, the following factors before dealing in the CBBCs:

- (i) the Strike Level and Call Level of the CBBCs;
- (ii) the likelihood of the occurrence of a Mandatory Call Event;
- (iii) the probable range of Residual Value (if any) upon the occurrence of a Mandatory Call Event;
- (iv) the time remaining to expiry;
- (v) the interim interest rates and expected dividend payments or other distributions on any components comprising the Index;
- (vi) the liquidity of the futures contracts relating to the Index;
- (vii) the supply and demand for the CBBCs;
- (viii) the probable range of the Cash Settlement Amount;
- (ix) the related transaction cost (including the Exercise Expenses, if any); and
- (x) the creditworthiness of the Issuer and our Guarantor.

The value of the CBBCs may not correspond with the movements in the level of the Index. If you buy the CBBCs with a view to hedge against your exposure to any futures contract relating to the Index, it is possible that you could suffer loss in your investment in that futures contract and the CBBCs.

In particular, you should note that when the Spot Level of the Index is close to the Call Level, the trading price of the CBBCs will be more volatile. The change in the trading price of the CBBCs may not be comparable and may be disproportionate with the change in the Index level. In such case, a small change in the Index level may lead to a substantial price movement in the CBBCs.

You may lose your entire investment when a Mandatory Call Event occurs

Unlike warrants, CBBCs has a mandatory call feature and trading in the CBBCs will be suspended when the Spot Level reaches the Call Level (subject to the circumstances in which a Mandatory Call Event will be reversed as set out in the subsection titled "Mandatory Call Event is irrevocable" below). No investors can sell the CBBCs after the occurrence of a Mandatory Call Event. Even if the level of the Index bounces back in the right direction, the CBBCs which have been terminated as a result of the Mandatory Call Event will not be revived and investors will not be able to profit from the bounce-back. Investors may receive a Residual Value after the occurrence of a Mandatory Call Event but such amount may be zero.

Mandatory Call Event is irrevocable

A Mandatory Call Event is irrevocable unless it is triggered as a result of any of the following events:

- (i) report of system malfunction or other technical errors of HKEX (such as the setting up of wrong Call Level or other parameters) by the Stock Exchange to us, or
- (ii) report of manifest errors caused by the relevant third party price source where applicable by us to the Stock Exchange,

and we agree with the Stock Exchange that such Mandatory Call Event is to be revoked provided that such mutual agreement must be reached no later than 30 minutes before the commencement of trading (including the pre-opening session) (Hong Kong time) on the Trading Day of the Stock Exchange immediately following the day on which the Mandatory Call Event occurs, or such other time as prescribed by the Stock Exchange from time to time.

In such case, the Mandatory Call Event so triggered will be reversed and all trades cancelled (if any) will be reinstated and the trading of the CBBCs will resume.

Delay in Mandatory Call Event notification

We will notify the market as soon as reasonably practicable after the occurrence of a Mandatory Call Event. You should be aware that there may be a delay in our announcement of a Mandatory Call Event due to technical errors, system failures and other factors that are beyond the reasonable control of the Stock Exchange and us.

Non-Recognition of Post MCE Trades

The Stock Exchange and its recognised exchange controller, HKEX, will not incur any liability (whether based on contract, tort, (including, without limitation, negligence), or any other legal or equitable grounds and without regard to the circumstances giving rise to any purported claim except in the case of wilful misconduct on the part of the Stock Exchange and/or HKEX) for, any direct, consequential, special, indirect, economic, punitive, exemplary or any other loss or damage suffered or incurred by us or any other party arising from or in connection with the Mandatory Call Event or the suspension of trading ("Trading Suspension") or the non-recognition of trades after a Mandatory Call Event ("Non-Recognition of Post MCE Trades"), including without limitation, any delay, failure, mistake or error in the Trading Suspension or Non-Recognition of Post MCE Trades.

We and our affiliates shall not have any responsibility for any losses suffered as a result of the Trading Suspension and/or Non-Recognition of Post MCE Trades in connection with the occurrence of a Mandatory Call Event, notwithstanding that such Trading Suspension or Non-Recognition of Post MCE Trades may have occurred as a result of an error in the observation of the event.

Fluctuation in the Funding Cost

The Issue Price of the CBBCs is set by reference to the difference between the initial reference spot level of the Index and the Strike Level, plus the applicable Funding Cost as of the Launch Date. The initial Funding Cost applicable to the CBBCs is specified on the cover page of this document. It will fluctuate throughout the life of the CBBCs as the funding rate may change from time to time. The funding rate is a rate determined by us based on one or more of the following factors, including but not limited to the Strike Level, the prevailing interest rate, the expected life of the CBBCs, any expected notional dividends in respect of any securities comprising the Index and the margin financing provided by us.

Residual Value will not include residual Funding Cost

The Residual Value (if any) payable by us following the occurrence of a Mandatory Call Event will not include the residual Funding Cost for the CBBCs. When a Mandatory Call Event occurs, the investors will lose the Funding Cost for the full period.

Our hedging activities

Our trading and/or hedging activities or those of our related parties related to the CBBCs and/or other financial instruments issued by us from time to time may have an impact on the Index level and may trigger a Mandatory Call Event.

In particular, when the Spot Level of the Index is close to the Call Level, our unwinding activities in relation to the Index may cause a fall or rise (as the case may be) in the Index level leading to a Mandatory Call Event as a result of such unwinding activities.

Before the occurrence of a Mandatory Call Event, we or our related party may unwind our hedging transactions relating to the CBBCs in proportion to the amount of the CBBCs we repurchase from the market from time to time. Upon the occurrence of a Mandatory Call Event, we or our related party may unwind any hedging transactions relating to the CBBCs. Such unwinding activities after the occurrence of a Mandatory Call Event may affect the Index level and consequently the Residual Value for the CBBCs.

Time decay

All other factors being equal, the value of a CBBC is likely to decrease over time. Therefore, the CBBCs should not be viewed as a product for long term investments.

Possible limited secondary market

The Liquidity Provider may be the only market participant for the CBBCs and therefore the secondary market for the CBBCs may be limited. The more limited the secondary market, the more difficult it may be for you to realise the value in the CBBCs prior to expiry.

You should also be aware that the Liquidity Provider may not be able to provide liquidity when there are operational and technical problems hindering its ability to do so. Even if the Liquidity Provider is able to provide liquidity in such circumstances, its performance of liquidity provision may be adversely affected. For example:

- (i) the spread between bid and ask prices quoted by the Liquidity Provider may be significantly wider than its normal standard;
- (ii) the quantity for which liquidity will be provided by the Liquidity Provider may be significantly smaller than its normal standard; and/or
- (iii) the Liquidity Provider's response time for a quote may be significantly longer than its normal standard.

Change of calculation methodology or failure to publish the Index

If there is a material change in the calculation of the Index level or a failure to publish the Index, we may determine the Closing Level on the basis of the method last in effect prior to such change or failure.

Publication of Index level when component shares are not trading

The Index Compiler may publish the Index level at a time when one or more shares comprising the Index are not trading.

Adjustment related risk

The occurrence of certain events (including, without limitation, a succession of the Index or Index Compiler, modification or cessation of calculation of the Index) may entitle us to adjust the terms and conditions of the CBBCs. However, we are not obliged to adjust the terms and conditions of the CBBCs for every event that affects the Index. Any adjustment or decision not to make any adjustment may adversely affect the value of the CBBCs. Please refer to Condition 5 for details about adjustments.

Possible early termination

We may early terminate the CBBCs if it becomes illegal or impracticable for us (i) to perform our obligations under the CBBCs as a result of a change in law event, or (ii) to maintain our hedging arrangement with respect to the CBBCs due to a change in law event. In such event, the amount payable by us (if any) will be the fair market value of the CBBCs less our costs of unwinding any related hedging arrangements as determined by us, which may be substantially less than your initial investment and may be zero. Please refer to Condition 11 for details about our early termination rights.

Time lag between early termination or exercise and settlement of the CBBCs

There is a time lag between the early termination or exercise of the CBBCs and payment of the Residual Value or the Cash Settlement Amount payable at expiry net of Exercise Expenses (if any). There may be delays in the electronic settlement or payment through CCASS.

Conflict of interest

We and our subsidiaries and affiliates engage in a wide range of commercial and investment banking, brokerage, funds management, hedging, investment and other activities and may possess material information about the Index or issue or update research reports on the Index. Such activities, information and/or research reports may involve or affect the Index and may cause consequences adverse to you or otherwise create conflicts of interests in connection with the issue of the CBBCs. We have no obligation to disclose such information and may issue research reports and engage in any such activities without regard to the issue of the CBBCs.

In the ordinary course of our business, we and our subsidiaries and affiliates may effect transactions for our own account or for the account of our customers and may enter into one or more transactions with respect to the Index or related derivatives. This may indirectly affect your interests.

No direct contractual rights

The CBBCs are issued in global registered form and are held within CCASS. You will not receive any definitive certificate and your name will not be recorded in the register of the CBBCs. The evidence of your interest in the CBBCs, and the efficiency of the ultimate payment of the Residual Value or the Cash Settlement Amount payable at expiry net of Exercise Expenses (if any), are subject to the CCASS Rules. You will have to rely on your broker (or, if applicable, its direct or indirect custodians) and the statements you receive from it as evidence of your interest in the CBBCs. You do not have any direct contractual rights against us or our Guarantor. To assert your rights as an investor in the CBBCs, you will have to rely on your broker (and, if applicable, its direct or indirect custodian) to take action on your behalf. If your broker or, if applicable, its direct or indirect custodian:

- (i) fails to take action in accordance with your instructions;
- (ii) becomes insolvent; or
- (iii) defaults on its obligations,

you will need to take action against your broker in accordance with the terms of arrangement between you and your broker to establish your interest in the CBBCs first before you can assert your right of claim against us. You may experience difficulties in taking such legal proceedings. This is a complicated area of law and you should seek independent legal advice for further information.

The Listing Documents should not be relied upon as the sole basis for your investment decision

The Listing Documents do not take into account your investment objectives, financial situation or particular needs. Nothing in the Listing Documents should be construed as a recommendation by us or our affiliates to invest in the CBBCs or any futures contracts relating to the Index.

Not the ultimate holding company of the group

We and our Guarantor are not the ultimate holding company of the group to which we belong.

Updated Information about Us and our Guarantor

Set forth below are extracts from the audited consolidated financial statements of our Guarantor for the period ended 31 December 2016 (“**2016 financial statements**”). References to page numbers on the following pages are to the page numbers of 2016 financial statements. The extracts are not complete and reference should be made to the 2016 financial statements, including the notes thereto, which are available for inspection at the office of J.P. Morgan Securities (Asia Pacific) Limited at 25/F, Chater House, 8 Connaught Road Central, Hong Kong.

Consolidated statements of income

JPMorgan Chase Bank, National Association
(a wholly-owned subsidiary of JPMorgan Chase & Co.)

Year ended December 31, (in millions)	2016	2015	2014
Revenue			
Investment banking fees	\$ 2,699	\$ 1,931	\$ 2,034
Principal transactions	9,963	9,085	7,660
Lending- and deposit-related fees	5,780	5,693	5,797
Asset management, administration and commissions	11,133	11,263	11,652
Securities gains	130	202	68
Mortgage fees and related income	2,487	2,513	3,564
Card income	4,246	4,333	4,305
Other income	4,806	4,671	3,683
Noninterest revenue	41,244	39,691	38,763
Interest income	41,584	37,425	37,966
Interest expense	4,642	3,736	4,229
Net interest income	36,942	33,689	33,737
Total net revenue	78,186	73,380	72,500
Provision for credit losses	2,486	1,376	832
Noninterest expense			
Compensation expense	23,240	23,128	23,996
Occupancy expense	3,301	3,438	3,528
Technology, communications and equipment expense	6,390	5,747	5,328
Professional and outside services	4,989	5,268	5,994
Marketing	881	796	748
Other expense	9,659	10,719	10,984
Total noninterest expense	48,460	49,096	50,578
Income before income tax expense	27,240	22,908	21,090
Income tax expense	7,868	5,980	6,331
Net income	\$ 19,372	\$ 16,928	\$ 14,759

The Notes to Consolidated Financial Statements are an integral part of these statements.

Consolidated statements of comprehensive income

JPMorgan Chase Bank, National Association
(a wholly-owned subsidiary of JPMorgan Chase & Co.)

Year ended December 31, (in millions)	2016		2015		2014
Net income	\$	19,372	\$	16,928	\$ 14,759
Other comprehensive income/(loss), after-tax					
Unrealized gains/(losses) on investment securities		(1,037)		(2,104)	1,862
Translation adjustments, net of hedges		4		(17)	(35)
Cash flow hedges		(55)		46	(16)
Defined benefit pension and OPEB plans		(27)		139	(34)
DVA on fair value option elected liabilities		(51)		–	–
Total other comprehensive income/(loss), after-tax		(1,166)		(1,936)	1,777
Comprehensive income	\$	18,206	\$	14,992	\$ 16,536

The Notes to Consolidated Financial Statements are an integral part of these statements.

Consolidated balance sheets

JPMorgan Chase Bank, National Association
(a wholly-owned subsidiary of JPMorgan Chase & Co.)

December 31, (in millions, except share data)	2016	2015
Assets		
Cash and due from banks	\$ 21,202	\$ 19,359
Deposits with banks	388,655	316,350
Federal funds sold and securities purchased under resale agreements (included \$5,349 and \$7,970 at fair value)	172,607	148,483
Securities borrowed (included \$0 and \$395 at fair value)	32,497	25,519
Trading assets (included assets pledged of \$51,303 and \$55,776)	245,329	242,535
Securities (included \$234,870 and \$235,955 at fair value and assets pledged of \$19,116 and \$16,133)	285,038	285,028
Loans (included \$2,228 and \$2,752 at fair value)	792,119	735,717
Allowance for loan losses	(10,715)	(10,807)
Loans, net of allowance for loan losses	781,404	724,910
Accrued interest and accounts receivable	40,805	36,389
Premises and equipment	13,491	12,748
Goodwill	27,130	27,100
Mortgage servicing rights	6,096	6,608
Other intangible assets	170	246
Other assets (included \$41 and \$5,701 at fair value and assets pledged of \$1,429 and \$1,074)	68,379	69,383
Total assets^(a)	\$ 2,082,803	\$ 1,914,658
Liabilities		
Deposits (included \$13,965 and \$12,847 at fair value)	\$ 1,480,238	\$ 1,312,940
Federal funds purchased and securities loaned or sold under repurchase agreements (included \$399 and \$728 at fair value)	74,778	77,262
Other borrowed funds (included \$5,571 and \$6,680 at fair value)	12,179	30,170
Trading liabilities	111,700	101,053
Accounts payable and other liabilities (included \$7,494 and \$6,652 at fair value)	84,239	76,160
Beneficial interests issued by consolidated variable interest entities	7,451	12,852
Long-term debt (included \$14,936 and \$14,729 at fair value)	107,131	108,683
Total liabilities^(a)	1,877,716	1,719,120
Commitments and contingencies (see Notes 27, 28 and 29)		
Stockholder's equity		
Preferred stock (\$1 par value; authorized 15,000,000 shares; issued 0 shares)	—	—
Common stock (\$12 par value; authorized 200,000,000 and 150,000,000 shares at December 31, 2016, and December 31, 2015, respectively; issued 148,761,243 shares at December 31, 2016 and 2015)	1,785	1,785
Additional paid-in capital	94,125	92,782
Retained earnings	108,312	98,951
Accumulated other comprehensive income	865	2,020
Total stockholder's equity	205,087	195,538
Total liabilities and stockholder's equity	\$ 2,082,803	\$ 1,914,658

(a) The following table presents information on assets and liabilities related to variable interest entities ("VIEs") that are consolidated by JPMorgan Chase Bank, N.A. at December 31, 2016 and 2015. The difference between total VIE assets and liabilities represents JPMorgan Chase Bank, N.A.'s interests in those entities, which were eliminated in consolidation.

December 31, (in millions)	2016	2015
Assets		
Trading assets	\$ 2,655	\$ 2,491
Loans	29,695	27,747
All other assets	2,150	1,574
Total assets	\$ 34,500	\$ 31,812
Liabilities		
Beneficial interests issued by consolidated variable interest entities	\$ 7,451	\$ 12,852
All other liabilities	377	691
Total liabilities	\$ 7,828	\$ 13,543

The assets of the consolidated VIEs are used to settle the liabilities of those entities. The holders of the beneficial interests do not have recourse to the general credit of JPMorgan Chase Bank, N.A. At December 31, 2016 and 2015, JPMorgan Chase Bank, N.A. provided limited program-wide credit enhancement of \$2.4 billion and \$2.0 billion, respectively, related to its JPMorgan Chase Bank, N.A.-administered multi-seller conduits, which are eliminated in consolidation. For further discussion, see Note 17.

The Notes to Consolidated Financial Statements are an integral part of these statements.

Consolidated statements of changes in stockholder's equity

JPMorgan Chase Bank, National Association
(a wholly-owned subsidiary of JPMorgan Chase & Co.)

Year ended December 31, (in millions)	2016	2015	2014
Common stock			
Balance at January 1 and December 31	\$ 1,785	\$ 1,785	\$ 1,785
Additional paid-in capital			
Balance at January 1	92,782	90,801	90,479
Cash capital contribution from JPMorgan Chase & Co.	327	4	477
Adjustments to capital due to transactions with JPMorgan Chase & Co.	1,016	1,977	(155)
Balance at December 31	94,125	92,782	90,801
Retained earnings			
Balance at January 1	98,951	89,082	74,323
Cumulative effect of change in accounting principle	(11)	–	–
Net income	19,372	16,928	14,759
Cash dividends paid to JPMorgan Chase & Co.	(10,000)	(8,000)	–
Net internal legal entity mergers	–	941	–
Balance at December 31	108,312	98,951	89,082
Accumulated other comprehensive income			
Balance at January 1	2,020	3,956	2,179
Cumulative effect of change in accounting principle	11	–	–
Other comprehensive income/(loss)	(1,166)	(1,936)	1,777
Balance at December 31	865	2,020	3,956
Total stockholder's equity	\$ 205,087	\$ 195,538	\$ 185,624

The Notes to Consolidated Financial Statements are an integral part of these statements.

Consolidated statements of cash flows

JPMorgan Chase Bank, National Association
(a wholly-owned subsidiary of JPMorgan Chase & Co.)

Year ended December 31, (in millions)	2016	2015	2014
Operating activities			
Net income	\$ 19,372	\$ 16,928	\$ 14,759
Adjustments to reconcile net income to net cash provided by/(used in) operating activities:			
Provision for credit losses	2,486	1,376	832
Depreciation and amortization	5,144	4,559	4,343
Deferred tax expense	1,964	1,050	3,776
Other	(130)	(202)	(68)
Originations and purchases of loans held-for-sale	(61,107)	(49,197)	(67,525)
Proceeds from sales, securitizations and paydowns of loans held-for-sale	60,196	50,451	71,407
Net change in:			
Trading assets	2,955	38,192	(11,409)
Securities borrowed	(6,977)	7,106	7,674
Accrued interest and accounts receivable	(4,535)	1,623	9,598
Other assets	4,936	(486)	(17,703)
Trading liabilities	6,156	(22,417)	22,637
Accounts payable and other liabilities	(14)	(1,938)	(8,933)
Other operating adjustments	7,099	1,024	4,904
Net cash provided by operating activities	37,545	48,069	34,292
Investing activities			
Net change in:			
Deposits with banks	(72,305)	164,927	(163,246)
Federal funds sold and securities purchased under resale agreements	(24,180)	(6,666)	41,867
Held-to-maturity securities:			
Proceeds from paydowns and maturities	6,218	6,099	4,169
Purchases	(143)	(6,204)	(10,345)
Available-for-sale securities:			
Proceeds from paydowns and maturities	65,478	76,303	88,727
Proceeds from sales	45,853	37,362	24,425
Purchases	(122,253)	(68,027)	(118,271)
Proceeds from sales and securitizations of loans held-for-investment	15,429	17,975	19,387
Other changes in loans, net	(77,085)	(104,819)	(47,922)
All other investing activities, net	(286)	2,544	688
Net cash provided by/(used in) investing activities	(163,274)	119,494	(160,521)
Financing activities			
Net change in:			
Deposits	169,139	(131,456)	127,045
Federal funds purchased and securities loaned or sold under repurchase agreements	(2,472)	(17,057)	(18,291)
Other borrowed funds	(17,971)	(8,103)	10,011
Beneficial interests issued by consolidated variable interest entities	(926)	(5,587)	(527)
Proceeds from long-term borrowings	37,406	16,728	35,498
Payments of long-term borrowings	(47,987)	(22,719)	(39,656)
Cash capital contribution from JPMorgan Chase & Co.	327	4	477
Dividends paid to JPMorgan Chase & Co.	(10,000)	(8,000)	—
All other financing activities, net	200	1,620	469
Net cash provided by/(used in) financing activities	127,716	(174,570)	115,026
Effect of exchange rate changes on cash and due from banks	(144)	(271)	(1,115)
Net increase/(decrease) in cash and due from banks	1,843	(7,278)	(12,318)
Cash and due from banks at the beginning of the period	19,359	26,637	38,955
Cash and due from banks at the end of the period	\$ 21,202	\$ 19,359	\$ 26,637
Cash interest paid	\$ 4,552	\$ 3,366	\$ 4,536
Cash income taxes paid/(refunded), net ^(a)	3,613	8,272	(481)

(a) Includes \$2.6 billion, \$7.5 billion, and \$(1.1) billion paid to/(refunded from) JPMorgan Chase & Co. in 2016, 2015 and 2014, respectively.

The Notes to Consolidated Financial Statements are an integral part of these statements.

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