

**JPMORGAN CHASE & CO.****Notes Linked to One or More Indices, Converted into U.S. Dollars****JPMORGAN CHASE FINANCIAL COMPANY LLC****Notes, Fully and Unconditionally Guaranteed by JPMorgan Chase & Co., Linked to One or More Indices,  
Converted into U.S. Dollars****General**

- Each of JPMorgan Chase & Co. and JPMorgan Chase Financial Company LLC may from time to time offer and sell notes that are linked to one or more Indices (as defined below), converted from an Underlying Currency (as defined below) into U.S. dollars. Investing in the notes is not equivalent to investing (or taking a short position) directly in any Index or Underlying Currency (relative to the U.S. dollar) or any of the securities underlying any Index.
- The notes issued by JPMorgan Chase & Co. are unsecured and unsubordinated obligations of JPMorgan Chase & Co. **Any payment on the notes issued by JPMorgan Chase & Co. is subject to the credit risk of JPMorgan Chase & Co.**
- The notes issued by JPMorgan Chase Financial Company LLC are unsecured and unsubordinated obligations of JPMorgan Chase Financial Company LLC, the payment on which is fully and unconditionally guaranteed by JPMorgan Chase & Co. **Any payment on the notes issued by JPMorgan Chase Financial Company LLC is subject to the credit risk of JPMorgan Chase Financial Company LLC, as issuer of the notes, and the credit risk of JPMorgan Chase & Co., as guarantor of the notes.**
- This product supplement describes terms that will apply generally to the notes and supplements the terms described in the prospectus supplement and the prospectus. A separate term sheet or pricing supplement, as the case may be, will describe terms that apply to specific issuances of the notes, including any changes to the terms specified below. These term sheets and pricing supplements are referred to generally in this product supplement as terms supplements. A separate underlying supplement or the relevant terms supplement will describe any Index to which the notes are linked. If the terms described in the relevant terms supplement are inconsistent with those described in this product supplement, any accompanying underlying supplement, the prospectus supplement or the prospectus, the terms described in the relevant terms supplement will govern your notes.
- The notes are not appropriate for all investors and involve a number of risks and important legal and tax consequences that should be discussed with your professional advisers.
- For important information about tax consequences relating to the notes, see "Material U.S. Federal Income Tax Consequences" beginning on page PS-44 of this product supplement.
- The notes will not be listed on any securities exchange unless otherwise specified in the relevant terms supplement.

**Key Terms**

Issuer:	The issuer of the notes, as specified in the relevant terms supplement, is referred to in this product supplement as the <b>"Issuer."</b> The Issuer will be either JPMorgan Chase & Co. or JPMorgan Chase Financial Company LLC.
Guarantor:	For notes issued by JPMorgan Chase Financial Company LLC, JPMorgan Chase & Co., in its capacity as guarantor of those notes, is referred to in this product supplement as the <b>"Guarantor."</b>
Underlyings:	Any index (each, an <b>"Index"</b> ), as converted from a specified currency (each, an <b>"Underlying Currency"</b> ) into U.S. dollars, that is referenced in the determination of any payment on the notes is referred to in this product supplement as an <b>"Underlying"</b> and, collectively, as the <b>"Underlyings."</b> See "The Underlyings" in this product supplement.
Payments on the Notes:	Any amount payable on the notes will be determined pursuant to the terms set forth in the relevant terms supplement. If the amount of any payment calculated as set forth in the relevant terms supplement is less than zero, the amount of that payment will be \$0. <i>The Issuer may accelerate your notes and adjust the amount of their final payment if a change-in-law event occurs. See "General Terms of Notes — Consequences of a Change-in-Law Event" for additional information.</i>
Determination Date(s):	The relevant terms supplement will specify each date on which the value of any Underlying is to be referenced in the determination of any payment on the notes (each, a <b>"Determination Date"</b> ). Unless otherwise specified in the relevant terms supplement, each Determination Date is subject to postponement as described under "General Terms of Notes — Postponement of a Determination Date."
Payment Date(s):	The relevant terms supplement will specify the maturity date and any other date on which amounts will or may be payable on the notes (each, a <b>"Payment Date"</b> ). Unless otherwise specified in the relevant terms supplement, each Payment Date is subject to postponement as described under "General Terms of Notes — Postponement of a Payment Date."

**Investing in the notes involves a number of risks. See "Risk Factors" beginning on page S-2 of the prospectus supplement and "Risk Factors" beginning on page PS-10 of this product supplement.**

Neither the Securities and Exchange Commission (the **"SEC"**) nor any state securities commission has approved or disapproved of the notes or passed upon the accuracy or the adequacy of the relevant terms supplement, this product supplement, any underlying supplement, the prospectus supplement or the prospectus. Any representation to the contrary is a criminal offense.

**The notes are not bank deposits, are not insured by the Federal Deposit Insurance Corporation or any other governmental agency and are not obligations of, or guaranteed by, a bank.**

**J.P.Morgan**

## TABLE OF CONTENTS

	<b><u>Page</u></b>
Risk Factor Summary .....	PS-1
Description of Notes .....	PS-3
Estimated Value and Secondary Market Prices of the Notes .....	PS-8
Risk Factors .....	PS-10
Use of Proceeds and Hedging .....	PS-27
General Terms of Notes .....	PS-29
The Underlyings .....	PS-37
Material U.S. Federal Income Tax Consequences .....	PS-44
Plan of Distribution (Conflicts of Interest) .....	PS-54
Benefit Plan Investor Considerations .....	PS-56

The Issuer and the Guarantor (if applicable) have not authorized anyone to provide any information other than that contained or incorporated by reference in the relevant terms supplement, this product supplement, any underlying supplement, the prospectus supplement or the prospectus with respect to the notes offered by the relevant terms supplement and with respect to the Issuer and the Guarantor (if applicable). The Issuer and the Guarantor (if applicable) take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. The relevant terms supplement, together with this product supplement, any underlying supplement, the prospectus supplement and the prospectus, will contain the terms of the notes and will supersede all other prior or contemporaneous oral statements as well as any other written materials, including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of the Issuer. The information in each of the relevant terms supplement, this product supplement, any underlying supplement, the prospectus supplement and the prospectus may be accurate only as of the date of that document.

The notes are not appropriate for all investors and involve a number of risks and important legal and tax consequences that should be discussed with your professional advisers. You should be aware that the regulations of Financial Industry Regulatory Authority, Inc., or FINRA, and the laws of certain jurisdictions (including regulations and laws that require brokers to ensure that investments are suitable for their customers) may limit the availability of the notes. The relevant terms supplement, this product supplement, any underlying supplement, the prospectus supplement and the prospectus do not constitute an offer to sell or a solicitation of an offer to buy the notes under any circumstances in which that offer or solicitation is unlawful.

In this product supplement, “JPMorgan Financial” refers to JPMorgan Chase Financial Company LLC.

## **RISK FACTOR SUMMARY**

*Your investment in the notes will involve certain risks. Set forth below is only a summary of the principal risks associated with an investment in the notes. **You should refer to the more detailed discussion of these and other risks set forth under “Risk Factors” in this product supplement, as well as the discussion of risks included in the relevant terms supplement and any accompanying underlying supplement, before you decide that an investment in the notes is appropriate for you.***

### **Risks Relating to the Notes Generally**

- The notes differ from conventional debt securities and may not pay interest or return your principal.
- The notes are subject to the credit risks of JPMorgan Financial and/or JPMorgan Chase & Co.
- As a finance subsidiary, JPMorgan Financial has no independent operations and has limited assets.
- JPMorgan Financial-issued notes will not benefit from any cross-default or cross-acceleration to other debt; a covenant default or bankruptcy, insolvency or reorganization event with respect to the Guarantor does not constitute an event of default with respect to JPMorgan Financial-issued notes.
- The appreciation potential of the notes may be limited.
- If the notes are redeemed early or accelerated, you will be exposed to reinvestment risk and may receive less than the market value of the notes.
- The notes are designed to be held to maturity and secondary trading may be limited.
- You will have no ownership rights in any Index or Underlying Currency or any of the securities underlying any Index.
- Concentration risks may adversely affect the value of the notes.
- If a change-in-law event occurs, the Issuer may accelerate your notes and adjust the amount of their final payment.
- Regulatory developments and investigations may result in changes to the rules or methodology used to determine the value of an Underlying, which may adversely affect any payment on the notes.
- Governmental legislative and regulatory actions, including sanctions, could adversely affect your investment in the notes and could lead to the early acceleration of your notes.
- Market disruptions or suspensions may adversely affect your return.
- The tax consequences of an investment in the notes are uncertain.

### **Risks Relating to Conflicts of Interest**

- The Issuer, the Guarantor (if applicable) or their affiliates may have interests that are adverse to those of the holders of the notes.

### **Risks Relating to the Estimated Value and Secondary Market Prices of the Notes**

- The estimated value of the notes will be lower than the original issue price of the notes, and secondary market prices of the notes will be impacted by many economic and market factors.

### **Risks Relating to Basket Notes**

- The Basket Underlyings may not be equally weighted.
- Changes in the values of the Basket Underlyings may not be correlated and may offset each other, or changes in value may be correlated in a manner that adversely affects any payment on the notes.

### **Risks Relating to Least Performing Underlying Notes and Greatest Performing Underlying Notes**

- You are exposed to the risks associated with each Underlying.
- Any payment on the notes may be determined by reference to the performance of the Underlying that will result in the worst performance of the notes.

### **Risks Relating to Relative Performance Notes**

- The return on the notes is based on the relative performance of the Underlyings.
- Changes in the values of the Underlyings may be partially offset or entirely negated by each other.

- You are exposed to the risks associated with each Underlying.

**Risks Relating to an Underlying**

- The performance of an Underlying may be adversely affected by the performance of the relevant Index or its Underlying Currency (relative to the U.S. dollar) or both.
- Changes in the values of an Index and its Underlying Currency may not be correlated and may offset each other, or changes in value may be correlated in a manner that adversely affects any payment on the notes.

**Risks Relating to an Index**

- An Index sponsor may adjust an Index without any obligation to consider your interests.
- The reported level of an Index may include the deduction of index fees or other adjustments.
- An investment in the notes is subject to risks associated with non-U.S. securities markets.

**Risks Relating to an Underlying Currency Relative to U.S. Dollars**

- The notes are subject to currency exchange risk.
- The liquidity, trading value and amounts payable, if any, under the notes could be affected by the actions of the governments of any Relevant Country.
- If an Underlying Currency is an emerging markets currency, the value of the notes will be subject to an increased risk of significant adverse fluctuations.
- Even though any Underlying Currency and the U.S. dollar are traded around-the-clock, if a secondary market for the notes develops, the notes may trade only during regular hours in the United States.
- The absence of last-sale and other information about any Underlying Currency or the U.S. dollar may affect the price of the notes.
- Currency exchange risks can be expected to heighten in periods of financial turmoil.
- Changes in interest rates may affect the trading value of the notes.
- Any Underlying Currency or the U.S. dollar may be replaced by another currency following a Currency Succession Event.

## DESCRIPTION OF NOTES

*The following description of the terms of the notes supplements the description of the general terms of the debt securities set forth under the headings “Description of Notes” in the prospectus supplement and “Description of Debt Securities” in the prospectus. The term “note” refers to each Principal Amount (as defined below) of the Issuer’s Notes Linked to One or More Indices, Converted into U.S. Dollars.*

### General

This product supplement describes terms that will apply generally to the notes and supplements the terms described in the prospectus supplement and the prospectus. A separate term sheet or pricing supplement, as the case may be, will describe terms that apply to specific issuances of the notes, including any changes to the terms specified below. These term sheets and pricing supplements are referred to generally in this product supplement as terms supplements. A separate underlying supplement or the relevant terms supplement will describe any Index (as defined below) to which the notes are linked. If the terms described in the relevant terms supplement are inconsistent with those described in this product supplement, any accompanying underlying supplement, the prospectus supplement or the prospectus, the terms described in the relevant terms supplement will govern your notes.

The issuer of the notes, as specified in the relevant terms supplement, is referred to in this product supplement as the “**Issuer**.” The Issuer will be either JPMorgan Chase & Co. or JPMorgan Chase Financial Company LLC, which is referred to in this product supplement as “**JPMorgan Financial**.” For notes issued by JPMorgan Chase Financial Company LLC, JPMorgan Chase & Co., in its capacity as guarantor of those notes, is referred to in this product supplement as the “**Guarantor**.”

The notes issued by JPMorgan Chase & Co. are unsecured and unsubordinated obligations of JPMorgan Chase & Co. and will rank *pari passu* with all of JPMorgan Chase & Co.’s other unsecured and unsubordinated obligations. **Any payment on the notes issued by JPMorgan Chase & Co. is subject to the credit risk of JPMorgan Chase & Co.**

The notes issued by JPMorgan Financial are unsecured and unsubordinated obligations of JPMorgan Financial, the payment of which is fully and unconditionally guaranteed by JPMorgan Chase & Co. The notes will rank *pari passu* with all of JPMorgan Financial’s other unsecured and unsubordinated obligations. JPMorgan Chase & Co.’s guarantee of the notes will rank *pari passu* with all of JPMorgan Chase & Co.’s other unsecured and unsubordinated obligations. **Any payment on the notes issued by JPMorgan Financial is subject to the credit risk of JPMorgan Financial, as issuer of the notes, and the credit risk of JPMorgan Chase & Co., as guarantor of the notes.**

The notes issued by JPMorgan Chase & Co. are a series of debt securities issued by JPMorgan Chase & Co. referred to in the prospectus supplement and the prospectus and will be issued by JPMorgan Chase & Co. under an indenture dated May 25, 2001, as may be amended or supplemented from time to time, between JPMorgan Chase & Co. and Deutsche Bank Trust Company Americas (formerly Bankers Trust Company), as trustee.

The notes issued by JPMorgan Financial are a series of debt securities issued by JPMorgan Financial referred to in the prospectus supplement and the prospectus and will be issued by JPMorgan Financial under an indenture dated February 19, 2016, as may be amended or supplemented from time to time, among JPMorgan Financial, the Guarantor and Deutsche Bank Trust Company Americas, as trustee.

The notes will be represented by one or more permanent global notes registered in the name of The Depository Trust Company, or DTC, or its nominee, as described under “Description of Notes — Forms of Notes” in the prospectus supplement and “Forms of Securities — Book-Entry System” in the prospectus. Unless otherwise specified in the relevant terms supplement, notes issued by JPMorgan Financial will

initially be represented by a type of global note referred to as a master note. A master note represents multiple securities that may be issued at different times and that may have different terms. Unless otherwise specified in the relevant terms supplement, in connection with each issuance of notes by JPMorgan Financial, the trustee and/or paying agent will, in accordance with instructions from the Issuer, make appropriate entries or notations in its records relating to the master note representing the notes to indicate that the master note evidences the notes of that issuance.

The notes will be issued in minimum denominations specified in the relevant terms supplement, and the principal amount of each note (the “**Principal Amount**”) and the original issue price of each note will be specified in the relevant terms supplement.

Subject to applicable law (including, without limitation, U.S. federal laws), the Issuer or its affiliates may, at any time and from time to time, purchase outstanding notes by tender, in the open market or by private agreement.

The notes are not bank deposits, are not insured by the Federal Deposit Insurance Corporation or any other governmental agency and are not obligations of, or guaranteed by, a bank.

### **The Underlying(s)**

Any index (each, an “**Index**”), as converted from a specified currency (each, an “**Underlying Currency**”) into U.S. dollars, that is referenced in the determination of any payment on the notes is referred to in this product supplement as an “**Underlying**” and, collectively, as the “**Underlyings**.” See “The Underlyings” below for additional information.

The relevant terms supplement will specify the manner in which the Underlying(s) will be referenced in the determination of any payment on the notes. Payments on the notes may reflect long (or bullish) exposure to one or more Underlyings (meaning that an increase in the value of the relevant Underlying(s) would generally be expected to have a positive effect on payments on the notes) and/or short (or bearish) exposure to one or more Underlyings (meaning that a decrease in the value of the relevant Underlying(s) would generally be expected to have a positive effect on payments on the notes).

In addition, the notes may be Single Underlying Notes, Basket Notes, Least Performing Underlying Notes, Greatest Performing Underlying Notes or Relative Performance Notes or the relevant terms supplement may specify that, in the determination of any payments on the notes, the Underlyings will be referenced in a manner that does not directly correspond with any of these types of notes.

*Single Underlying Notes.* “**Single Underlying Notes**” reference the performance of a single Underlying in the determination of one or more payments on the notes.

*Basket Notes.* “**Basket Notes**” reference the performance of a weighted basket composed of two or more Underlyings (a “**Basket**”) in the determination of one or more payments on the notes.

*Least Performing Underlying Notes.* “**Least Performing Underlying Notes**” reflect long (or bullish) exposure to the Underlying with the lowest performance out of the Underlyings specified in the relevant terms supplement in the determination of one or more payments on the notes. Payments on Least Performing Underlying Notes will generally be determined by reference to the performance of the Underlying that would result in the worst performance of the notes.

*Greatest Performing Underlying Notes.* “**Greatest Performing Underlying Notes**” reflect short (or bearish) exposure to the Underlying with the highest performance out of the Underlyings specified in the relevant terms supplement in the determination of one or more payments on the notes. Payments on Greatest Performing Underlying Notes will generally be determined by reference to the performance of the Underlying that would result in the worst performance of the notes.



*Relative Performance Notes.* “**Relative Performance Notes**” reference the relative performance of two or more Underlyings, with long exposure to one or more Underlyings (each, a “**Long Underlying**”) and short exposure to one or more other Underlying(s) (each, a “**Short Underlying**”), in the determination of one or more payments on the notes.

### ***Terms Relating to Valuation of the Underlying(s)***

The relevant terms supplement will specify the manner in which the initial value, the final value and, if applicable, the strike value of Underlying(s) will be determined. The relevant terms supplement will also specify the manner in which values of the Underlying(s) will be used in the determination of any payment on the notes.

*Initial Value.* The relevant terms supplement will specify the manner in which the initial value of any Underlying will be determined. For example, with respect to any Underlying, the relevant terms supplement may specify that the initial value of that Underlying will be determined by reference to the value of that Underlying on the pricing date or on multiple dates near the beginning of the term of the notes or may specify that the initial value will be equal to a fixed value. Unless otherwise specified in the relevant terms supplement, the initial value of any Underlying will be determined near the beginning of the term of the notes and will be used in determining the performance of that Underlying or as a reference point against which later values of that Underlying will be compared.

*Final Value.* The relevant terms supplement will specify the manner in which the final value of any Underlying with respect to any day will be determined. For example, with respect to any Underlying, the relevant terms supplement may specify that the final value of that Underlying will be determined by reference to the value of that Underlying on that day or on multiple dates during the term of the notes. Unless otherwise specified in the relevant terms supplement, the final value of any Underlying with respect to any day will be determined after the determination of the initial value and will be used in determining the performance of that Underlying or as a reference point to be compared to the initial value of that Underlying or to other values specified in the relevant terms supplement.

*Strike Value.* The relevant terms supplement may specify a value to be used instead of, or in addition to, the initial value of an Underlying to be used in determining the performance of that Underlying or as a reference point against which later values of that Underlying will be compared. If applicable, the relevant terms supplement will specify the manner in which the strike value of any Underlying will be determined. For example, with respect to any Underlying, the relevant terms supplement may specify a fixed value for the strike value of that Underlying or may specify that the strike value of that Underlying will be equal to a specified percentage of the initial value of that Underlying.

*Determination Dates.* The relevant terms supplement will specify each date on which the value of any Underlying is to be referenced in the determination of any payment on the notes (each, a “**Determination Date**”). Unless otherwise specified in the relevant terms supplement, each Determination Date is subject to postponement as described under “General Terms of Notes — Postponement of a Determination Date” below.

See “The Underlyings” in this product supplement for a description of how the value of each Underlying will be determined. Each Underlying and the value of each Underlying are subject to adjustment under certain circumstances. See “General Terms of Notes — Postponement of a Determination Date” and “The Underlyings” below for additional information.

### **Payments on the Notes**

Any amount payable on the notes will be determined pursuant to the terms set forth in the relevant terms supplement. If the amount of any payment calculated as set forth in the relevant terms supplement is less than zero, the amount of that payment will be \$0. *Any payment on the notes is subject to the credit risks of the Issuer and, with respect to notes issued by JPMorgan Financial, the Guarantor.*

*The Issuer may accelerate your notes and adjust the amount of their final payment if a change-in-law event occurs. See “General Terms of Notes — Consequences of a Change-in-Law Event” for additional information.*

The relevant terms supplement will specify the maturity date and any other date on which amounts will or may be payable on the notes (each, a “**Payment Date**”). Unless otherwise specified in the relevant terms supplement, each Payment Date is subject to postponement as described under “General Terms of Notes — Postponement of a Payment Date” below.

The “**calculation agent**” or “**note calculation agent**” is the agent appointed by the Issuer to make certain calculations with respect to the notes, which, unless otherwise specified in the relevant terms supplement, will be J.P. Morgan Securities LLC (“**JPMS**”). See “General Terms of Notes — Calculation Agent” below. JPMS is an affiliate of the Issuer and, with respect to notes issued by JPMorgan Financial, the Guarantor and, accordingly, may have interests adverse to yours. Please see “Risk Factors — Risks Relating to Conflicts of Interest — The Issuer, the Guarantor (if applicable) or their affiliates may have economic interests that are adverse to those of the holders of the notes due to JPMS’s role as calculation agent.”

The Issuer will irrevocably deposit with DTC no later than the opening of business on the applicable date or dates funds sufficient to make payments of the amount, if any, payable with respect to the notes on the applicable date or dates. The Issuer will give DTC irrevocable instructions and authority to pay the applicable amount to the holders of the notes entitled thereto.

### ***Interest Payments***

If the relevant terms supplement specifies that the notes will bear periodic interest, the notes will pay interest in arrears at the per annum rate, or such other rate or rates, including rates that reference the performance of the Underlying(s), as specified in the relevant terms supplement. The relevant terms supplement may also specify that the payment of interest is contingent on the performance of the Underlying(s).

Unless otherwise specified in the relevant terms supplement, the interest payment due on each interest payment date specified in the relevant terms supplement for each note, if payable under the terms specified in the relevant terms supplement, will be calculated as follows:

$$\text{Principal Amount} \times \text{Interest Rate} \times 1 / \text{number of interest payment dates per year}$$

where the number of interest payment dates per year is determined by the frequency of the interest payment dates and how many interest payment dates would occur over the course of a full year regardless of the actual term of the notes.

If the payment of interest is not contingent on the performance of the Underlying(s), interest will accrue from and including the issue date of the notes to but excluding the maturity date or the date on which the notes are redeemed or repurchased early, if applicable. Unless otherwise specified in the relevant terms supplement, interest will be payable in arrears on each interest payment date to and including the maturity date or the date on which the notes are redeemed or repurchased early, if applicable, to the holders of record at the close of business on the business day prior to that interest payment date.

### ***Payment upon Early Redemption, Acceleration or Early Repurchase***

The relevant terms supplement may specify that the notes will be subject to early redemption or acceleration or that investors may submit a request for the Issuer to repurchase the notes. **No further payments will be made on the notes after they have been redeemed early, accelerated or repurchased early.**



*Optional Redemption.* If the relevant terms supplement specifies that the notes include an optional redemption feature, the Issuer will have the right, at its election, to redeem the notes in whole but not in part on any of the dates specified in the relevant terms supplement for a cash payment that will be determined as set forth in the relevant terms supplement. If the Issuer intends to redeem your notes, the Issuer will deliver notice to DTC, as holder of the notes, at least such number of business days specified in the relevant terms supplement prior to the date on which the notes are to be redeemed.

*Automatic Redemption.* If the relevant terms supplement specifies that the notes include an automatic redemption feature, the notes will be automatically redeemed under the circumstances set forth in the relevant terms supplement for a cash payment that will be determined as set forth in the relevant terms supplement on a Payment Date specified in the relevant terms supplement.

*Acceleration.* If the relevant terms supplement specifies that the notes include an acceleration feature, the maturity date and the determination of the payment at maturity will be accelerated under the circumstances set forth in the relevant terms supplement and in the manner set forth in the relevant terms supplement.

*Early Repurchase.* If the relevant terms supplement specifies that the notes include an early repurchase feature, you may submit a request to have the Issuer repurchase your notes, subject to the procedures and terms set forth below. **Any repurchase request that the Issuer accepts in accordance with the procedures and terms set forth below will be irrevocable.**

Unless otherwise specified in the relevant terms supplement, to request that the Issuer repurchase your notes, you must instruct your broker or other person through which you hold your notes to take the following steps:

- Send a notice of repurchase, substantially in the form attached as Annex A to the relevant terms supplement (a “**Repurchase Notice**”), to the Issuer via email at [dl\\_n\\_repurchase@jpmchase.com](mailto:dl_n_repurchase@jpmchase.com) by no later than 4:00 p.m., New York City time, on the business day prior to the relevant Determination Date. The subject line of the email should include the title of the notes and the CUSIP for those notes. The Issuer or its affiliate must acknowledge receipt of the Repurchase Notice on the same business day for it to be effective, which acknowledgment will be deemed to evidence its acceptance of your repurchase request;
- Instruct your DTC custodian to book a delivery versus payment trade with respect to your notes on the relevant Determination Date at a price equal to the amount payable upon early repurchase of the notes; and
- Cause your DTC custodian to deliver the trade as booked for settlement via DTC at or prior to 10:00 a.m., New York City time, on the day on which the notes will be repurchased.

Different brokerage firms may have different deadlines for accepting instructions from their customers. Accordingly, you should consult the brokerage firm through which you own your interest in the notes in respect of those deadlines. Unless otherwise specified in the relevant terms supplement, if the Issuer does not receive your Repurchase Notice by 4:00 p.m. on the business day prior to the relevant Determination Date OR the Issuer (or its affiliates) does not acknowledge receipt of the Repurchase Notice on the same day, your Repurchase Notice will not be effective, and the Issuer will not repurchase your notes. Once given, a Repurchase Notice may not be revoked.

The calculation agent will, in its sole discretion, resolve any questions that may arise as to the validity of a Repurchase Notice and the timing of receipt of a Repurchase Notice or as to whether and when the required deliveries have been made. Questions about the repurchase requirements should be directed to [dl\\_n\\_repurchase@jpmchase.com](mailto:dl_n_repurchase@jpmchase.com).

### ***Payment at Maturity***

The relevant terms supplement will specify the manner in which any payment at maturity will be determined. **You may lose some or all of your principal amount at maturity.**

## ESTIMATED VALUE AND SECONDARY MARKET PRICES OF THE NOTES

### The Estimated Value of the Notes

Unless otherwise specified in the relevant terms supplement, the estimated value of the notes when the terms of the notes are set, which is referred to as the estimated value of the notes, will be set forth on the cover of the relevant terms supplement and will be equal to the sum of the values of the following hypothetical components: (1) a fixed-income debt component with the same maturity as the notes, valued using the internal funding rate described below, and (2) the derivative or derivatives underlying the economic terms of the notes. The estimated value of the notes will not represent a minimum price at which JPMS would be willing to buy your notes in any secondary market (if any exists) at any time.

For notes issued by JPMorgan Chase & Co. or JPMorgan Financial, the internal funding rate used in the determination of the estimated value of the notes will be the Issuer's internal funding rate for structured debt, which will generally represent a discount from the credit spreads for JPMorgan Chase & Co.'s conventional fixed-rate debt. This internal funding rate may differ from the market-implied funding rate for vanilla fixed income instruments of a similar maturity issued by JPMorgan Chase & Co. or its affiliates. Any difference may be based on, among other things, the Issuer's and its affiliates' view of the funding value of the notes as well as the higher issuance, operational and ongoing liability management costs of the notes in comparison to those costs for the conventional fixed income instruments of JPMorgan Chase & Co. This internal funding rate is based on certain market inputs and assumptions, which may prove to be incorrect, and is intended to approximate the prevailing market replacement funding rate for the notes. The use of an internal funding rate and any potential changes to that rate may have an adverse effect on the terms of the notes and any secondary market prices of the notes. For additional information, see "Risk Factors — Risks Relating to the Estimated Value and Secondary Market Prices of the Notes — The estimated value of the notes will be derived by reference to an internal funding rate and will not be determined by reference to credit spreads for JPMorgan Chase & Co.'s conventional fixed income instruments" below in this product supplement.

The value of the derivative or derivatives underlying the economic terms of the notes will be derived from internal pricing models of the Issuer's affiliates. These models are dependent on inputs such as the traded market prices of comparable derivative instruments and on various other inputs, some of which are market-observable, and which can include volatility, correlation, dividend rates, interest rates and other factors, as well as assumptions about future market events and/or environments. Accordingly, the estimated value of the notes will be determined when the terms of the notes are set based on market conditions and other relevant factors and assumptions existing at that time. See "Risk Factors — Risks Relating to the Estimated Value and Secondary Market Prices of the Notes — The estimated value of the notes will not represent future values of the notes and may differ from others' estimates" below in this product supplement.

Unless otherwise specified in the relevant terms supplement, the estimated value of the notes will be lower than the original issue price of the notes because costs associated with selling, structuring and hedging the notes will be included in the original issue price of the notes. These costs include the selling commissions, referral fees, if any, and structuring fees, if any, paid to JPMS and/or other affiliated or unaffiliated dealers, the projected profits, if any, that the Issuer's affiliates expect to realize for assuming risks inherent in hedging its obligations under the notes and the estimated cost of hedging its obligations under the notes. Because hedging the Issuer's obligations entails risk and may be influenced by market forces beyond its control, this hedging may result in a profit that is more or less than expected, or it may result in a loss. The Issuer or one or more of its affiliates will retain any profits realized in hedging the Issuer's obligations under the notes unless a portion of the hedging profits is allowed to other affiliated or unaffiliated dealers. Under those circumstances, the Issuer or one or more of its affiliates will retain any remaining hedging profits. See "Risk Factors — Risks Relating to the Estimated Value and Secondary Market Prices of the Notes — The estimated value of the notes will be lower than the original issue price (price to public) of the notes" below in this product supplement.

## **Secondary Market Prices of the Notes**

For information about factors that will impact any secondary market prices of the notes, see “Risk Factors — Risks Relating to the Estimated Value and Secondary Market Prices of the Notes — Secondary market prices of the notes will be impacted by many economic and market factors” below in this product supplement. In addition, the relevant terms supplement may specify that the Issuer will generally expect some of the costs included in the original issue price of the notes to be partially paid back to you in connection with any repurchases of your notes by JPMS in an amount that will decline to zero over an initial predetermined period that will be specified in the relevant terms supplement. The length of any such initial period will reflect the structure of the notes, whether the Issuer’s affiliates expect to earn a profit in connection with the Issuer’s hedging activities, the estimated costs of hedging the notes and when these costs are incurred, all as determined by JPMS. See “Risk Factors — Risks Relating to the Estimated Value and Secondary Market Prices of the Notes — The value of the notes as published by JPMS (and which may be reflected on customer account statements) may be higher than the then-current estimated value of the notes for a limited time period” below in this product supplement.

## RISK FACTORS

*Your investment in the notes will involve certain risks. Unless otherwise specified in the relevant terms supplement, the notes do not pay interest and do not guarantee any return of principal at, or prior to, maturity. Investing in the notes is not equivalent to investing (or taking a short position) directly in any Index or Underlying Currency (relative to the U.S. dollar) or any of the securities underlying any Index. In addition, your investment in the notes entails other risks not associated with an investment in conventional debt securities. **You should consider carefully the following discussion of risks, as well as the discussion of risks included in the relevant terms supplement and any accompanying underlying supplement, before you decide that an investment in the notes is appropriate for you.***

### **Risks Relating to the Notes Generally**

**The notes differ from conventional debt securities and may not pay interest or return any of your principal amount.**

Any amount payable on the notes will be determined pursuant to the terms set forth in the relevant terms supplement. The notes will not pay interest unless specified in the relevant terms supplement. You may lose some or all of your principal amount at maturity.

**The notes issued by JPMorgan Chase & Co. are subject to the credit risk of JPMorgan Chase & Co.**

The notes issued by JPMorgan Chase & Co. are subject to the credit risk of JPMorgan Chase & Co., and its credit ratings and credit spreads may adversely affect the market value of the notes. Investors in notes issued by JPMorgan Chase & Co. are dependent on its ability to pay all amounts due on the notes. Any actual or potential change in JPMorgan Chase & Co.'s creditworthiness or the credit spreads, as determined by the market for taking JPMorgan Chase & Co.'s credit risk, is likely to affect adversely the value of the notes. Any payment on the notes issued by JPMorgan Chase & Co. is subject to its creditworthiness. If JPMorgan Chase & Co. were to default on its payment obligations, you may not receive any amounts owed to you under the notes and you could lose your entire investment.

**The notes issued by JPMorgan Financial are subject to the credit risks of JPMorgan Financial and the Guarantor.**

The notes issued by JPMorgan Financial are subject to the credit risk of JPMorgan Financial, as issuer of the notes, and the credit risk of JPMorgan Chase & Co., as guarantor of the notes. JPMorgan Financial's and the Guarantor's credit ratings and credit spreads may adversely affect the market value of the notes. Investors in notes issued by JPMorgan Financial are dependent on its ability and on the ability of the Guarantor to pay all amounts due on the notes. Any actual or potential change in JPMorgan Financial's or the Guarantor's creditworthiness or the credit spreads, as determined by the market for taking that credit risk, is likely to affect adversely the value of the notes. Any payment on the notes issued by JPMorgan Financial is subject to its creditworthiness and the creditworthiness of the Guarantor. If JPMorgan Financial and the Guarantor were to default on their payment obligations, you may not receive any amounts owed to you under the notes and you could lose your entire investment.

**As a finance subsidiary, JPMorgan Financial has no independent operations and has limited assets.**

As a finance subsidiary of JPMorgan Chase & Co., JPMorgan Financial has no independent operations beyond the issuance and administration of its securities. Aside from the initial capital contribution from JPMorgan Chase & Co., substantially all of the assets of JPMorgan Financial are expected to relate to obligations of one or more of its affiliates to make payments under loans made by JPMorgan Financial or under other intercompany agreements with JPMorgan Financial. As a result, JPMorgan Financial's ability to make payments in respect of the notes is limited. JPMorgan Financial is

dependent upon payments from one or more of its affiliates under intercompany loans and other intercompany agreements to meet its obligations under the notes it issues. If these affiliates do not make payments to JPMorgan Financial and JPMorgan Financial fails to make payments on the notes, holders of the notes may have to seek payment under the related guarantee by JPMorgan Chase & Co. and that guarantee will rank *pari passu* with all other unsecured and unsubordinated obligations of JPMorgan Chase & Co.

**Notes issued by JPMorgan Financial will not have the benefit of any cross-default or cross-acceleration with other indebtedness of JPMorgan Financial or the Guarantor; a covenant default or bankruptcy, insolvency or reorganization event with respect to the Guarantor does not constitute an event of default with respect to notes issued by JPMorgan Financial.**

Unless otherwise stated in the applicable terms supplement, the notes issued by JPMorgan Financial will not have the benefit of any cross-default or cross-acceleration with other indebtedness of JPMorgan Financial or the Guarantor. In addition, a covenant default by the Guarantor, or an event of bankruptcy, insolvency or reorganization of the Guarantor, does not constitute an event of default with respect to any notes issued by JPMorgan Financial.

**The appreciation potential of the notes may be limited.**

The relevant terms supplement may specify that the return or payment at maturity on the notes in excess of the principal amount will not exceed a specified value. Under these circumstances, the appreciation potential of the notes will be limited to that specified value, regardless of the performance of the Underlying(s). In addition, if the relevant terms supplement specifies that the notes will or may pay interest, the appreciation potential of the notes may be limited to any interest payments, regardless of the performance of the Underlying(s).

**The Issuer, the Guarantor (if applicable) or their affiliates may have interests that are adverse to those of the holders of the notes.**

The Issuer, the Guarantor (if applicable) or their affiliates may have interests that are adverse to those of the holders of the notes. See “— Risks Relating to Conflicts of Interest” below.

**If the notes are redeemed early or accelerated, you will be exposed to reinvestment risk.**

The term of the notes may be limited by any optional or automatic redemption or acceleration feature set forth in the relevant terms supplement. No further payments will be made on the notes after they have been redeemed early or accelerated. If the notes are redeemed early or accelerated, the term of your investment in the notes will be limited to a period that is shorter than the original term of the notes. There is no guarantee that you would be able to reinvest the proceeds from an investment in the notes at a comparable return for a similar level of risk in the event that the notes are redeemed early or accelerated.

**The payment upon an early redemption or acceleration may be substantially less than the market value of the notes.**

If the notes include an optional or automatic redemption or acceleration feature, the notes may be redeemed early or accelerated at a time when prevailing interest rates are relatively low or at a time when the performance of the Underlying(s) has caused the value of the notes to increase substantially since issuance. Accordingly, any payment upon early redemption or acceleration determined in the manner set forth in the relevant terms supplement may be substantially less than the market value of the notes.

**If the relevant terms supplement provides for early repurchases at the option of the holders, there will be restrictions on your ability to request that the Issuer repurchase your notes.**

Unless otherwise specified in the relevant terms supplement, if you elect to request that the Issuer repurchase your notes, your request will be valid only if the Issuer receives your Repurchase Notice by

4:00 p.m., New York City time, on the business day prior to the relevant Determination Date and the Issuer (or its affiliates) acknowledges receipt of the Repurchase Notice that same day (which will evidence its acceptance of your repurchase request). If the Issuer does not receive that notice or the Issuer (or its affiliates) does not acknowledge receipt of that notice (which means that the Issuer has declined to accept your repurchase request), your repurchase request will not be effective and the Issuer will not repurchase your notes.

Because of the timing requirements of the Repurchase Notice (and the Issuer's acknowledgment of receipt), settlement of the repurchase will be prolonged when compared to a sale and settlement in the secondary market. As your request that the Issuer repurchase your notes is irrevocable, this will subject you to market risk in the event that the market fluctuates after the Issuer receives your request. Furthermore, if the Issuer accepts your repurchase request, its obligation to repurchase the notes prior to maturity may be postponed upon the occurrence of a market disruption event.

**If the relevant terms supplement provides for early repurchases at the option of the holders, you will not know the amount you will receive upon an early repurchase at the time you elect to request that the Issuer repurchase your notes.**

You will not know the amount payable upon early repurchase at the time you elect to request that the Issuer repurchase your notes. As a result, you will be exposed to market risk in the event that the market fluctuates after the Issuer accepts your repurchase request and prior to the date on which the payment you will receive upon repurchase is determined.

**The values of the Underlying(s) will be referenced only on the Determination Date(s) for purposes of determining any payment on the notes.**

The relevant terms supplement will specify each Determination Date on which the value of any Underlying is to be referenced in the determination of any payment on the notes. The value of the notes and any payment on the notes may be adversely affected by referencing the values of the Underlying(s) only on Determination Dates. For example, for notes that provide for a single payment at maturity based on the long (or bullish) performance of an Underlying, as measured from the pricing date to a single Determination Date near the end of the term of the notes, if the value of that Underlying increases or remains relatively constant during the initial term of the notes and then decreases below the initial value of that Underlying, the final value of that Underlying may be significantly less than if it were calculated on a date earlier than the Determination Date. Under these circumstances, you may receive a lower return on the notes than you would have received if you had invested directly in any Index or Underlying Currency (relative to the U.S. dollar), the securities underlying any Index or any exchange-traded or over-the-counter instruments based on any of the foregoing.

**The estimated value of the notes will be lower than the original issue price (price to public) of the notes, and secondary market prices of the notes will be impacted by many economic and market factors.**

The estimated value of the notes will be lower than the original issue price (price to public) of the notes, and secondary market prices of the notes will be impacted by many economic and market factors. See “— Risks Relating to the Estimated Value and Secondary Market Prices of the Notes” below.

**The notes are designed to be held to maturity.**

The notes are not designed to be short-term trading instruments. The price at which you will be able to sell your notes to the Issuer or its affiliates prior to maturity, if at all, may be at a substantial discount from the principal amount of the notes, even in cases where any Underlying to which the notes provide long (or bullish) exposure has appreciated from its initial value (or its strike value, if applicable) and/or any Underlying to which the notes provide short (or bearish) exposure has depreciated from its initial value (or its strike value, if applicable). The potential returns described in the relevant terms supplement assume that your notes are held to maturity unless redeemed or repurchased early or accelerated, if applicable.



**Secondary trading may be limited.**

Unless otherwise specified in the relevant terms supplement, the notes will not be listed on any securities exchange. There may be little or no secondary market for the notes. Even if there is a secondary market for the notes, it may not provide enough liquidity to allow you to trade or sell the notes easily.

JPMS may act as a market-maker for the notes, but is not required to do so. Because the Issuer does not expect that other market-makers will participate significantly in the secondary market for the notes, the price at which you may be able to trade your notes is likely to depend on the price, if any, at which JPMS is willing to buy the notes. If at any time JPMS or another agent does not act as a market-maker, it is likely that there would be little or no secondary market for the notes.

**If the value of an Underlying changes, the market value of your notes may not change proportionately.**

Owning the notes is not the same as investing (or taking a short position) directly in any Index or Underlying Currency (relative to the U.S. dollar) or any of the securities underlying any Index. Accordingly, changes in the value of an Underlying may not result in a proportionate change in the market value of the notes. For example, for notes that provide long (or bullish) exposure to an Underlying, if the value of that Underlying on any day has increased, the value of the notes may not increase comparably, if at all. It is possible for the value of that Underlying to increase moderately while the value of those notes declines.

**You will have no ownership rights in any Index or Underlying Currency or any of the securities underlying any Index.**

Investing in the notes is not equivalent to investing (or taking a short position) directly in any Index or Underlying Currency (relative to the U.S. dollar) or any of the securities underlying any Index or exchange-traded or over-the-counter instruments based on any of the foregoing. As an investor in the notes, you will not have any ownership interests or rights in any of the foregoing.

**Concentration risks may adversely affect the value of the notes.**

If any payment on the notes will be based on the performance of a single Index, converted into U.S. dollars, or on a small number of Indices, converted into U.S. dollars, that are concentrated in a single or a limited number of industry sectors or geographical regions, you will not benefit, with respect to the notes, from the advantages of a diversified investment, and you will bear the risks of a concentrated investment, including the risk of greater volatility than may be experienced in connection with a diversified investment. You should be aware that other investments may be more diversified than the notes in terms of the number and variety of industry sectors or geographical regions.

**If a change-in-law event occurs, the Issuer may accelerate your notes and adjust the amount of their final payment.**

Upon the announcement or occurrence of legal or regulatory changes that the calculation agent determines are likely to interfere with the ability of the Issuer or holders of the notes to transact in or hold the notes, the ability of the Issuer to perform its obligations under the notes or the ability of the Issuer or any entity acting on its behalf to enter into or maintain hedge positions it deems necessary to hedge the Issuer's obligations under the notes, the Issuer may, in its sole and absolute discretion, accelerate the payment on your notes and pay you an amount determined in good faith and in a commercially reasonable manner by the calculation agent. If a change-in-law event occurs and the Issuer decides to exercise its right to accelerate the payment on your notes, your investment may result in a loss and you may not be able to reinvest the proceeds in a comparable investment. See "General Terms of Notes — Consequences of a Change-in-Law Event" and "— Governmental legislative and regulatory actions,

including sanctions, could adversely affect your investment in the notes and could lead to the early acceleration of your notes” below.

**Regulatory developments and investigations may result in changes to the rules or methodology used to determine the value of an Underlying, which may adversely affect any payment on the notes.**

The methodologies used to determine the value of certain “benchmarks,” which may include one or more Underlyings, are the subject of recent national, international and other regulatory guidance, proposals for reform and investigations. These reforms or changes made in response to these investigations may cause those benchmarks to perform differently than in the past and may have other consequences that cannot be predicted. In addition, market participants may elect not to continue to participate in the administration of certain benchmarks if these reforms and investigations increase the costs and risks associated with those activities, which could cause changes in the rules or methodologies used in certain benchmarks or lead to the disappearance of certain benchmarks. Any of these changes could adversely affect the value of the notes and any payment on the notes.

**Governmental legislative and regulatory actions, including sanctions, could adversely affect your investment in the notes and could lead to the early acceleration of your notes.**

Governmental legislative and regulatory actions, including, without limitation, sanctions-related actions by the U.S. or a foreign government, could prohibit or otherwise restrict persons from holding the notes, any of the securities underlying any Index, or engaging in transactions in them, and any such action could adversely affect the value of the notes. These legislative and regulatory actions could result in restrictions on the notes. You may lose a significant portion or all of your initial investment in the notes, including if you are forced to divest the notes due to the government mandates, especially if such divestment must be made at a time when the value of the notes has declined.

Upon the announcement or occurrence of legal or regulatory changes that the calculation agent determines are likely to interfere with the ability of the Issuer or holders of the notes to transact in or hold the notes, the ability of the Issuer to perform its obligations under the notes or the ability of the Issuer or any entity acting on its behalf to enter into or maintain hedge positions that it deems necessary to hedge the Issuer’s obligations under the notes, the Issuer may, in its sole and absolute discretion, accelerate your notes. See “— If a change-in-law event occurs, the Issuer may accelerate your notes and adjust the amount of their final payment” above.

**Market disruptions may adversely affect your return.**

The calculation agent may, in its sole discretion, determine that the markets have been affected in a manner that prevents it from determining the value of any Underlying on any Determination Date and the amount of any payment on the notes. These events may include disruptions or suspensions of trading in the markets as a whole. If the calculation agent, in its sole discretion, determines that any of these events prevents the Issuer or any of its affiliates from properly hedging the Issuer’s obligations under the notes, it is possible that one or more Determination Dates and Payment Dates will be postponed and that your return will be adversely affected. Market disruption events are defined in the relevant sections of “The Underlyings” below. In addition, if any Determination Date is postponed to the last possible day and the value of any Underlying is not available on that day because of a market disruption event or because that date is not a trading day or a currency business day, the calculation agent will nevertheless determine the value of that Underlying on that last possible day. See “General Terms of Notes — Postponement of a Determination Date” and “General Terms of Notes — Postponement of a Payment Date” for more information.

**The tax consequences of an investment in the notes are uncertain.**

There is no direct legal authority as to the proper U.S. federal income tax treatment of the notes, and the Issuers do not intend to request a ruling from the Internal Revenue Service (the “IRS”) regarding the

notes. The IRS might not accept, and a court might not uphold, the Issuer's treatment of the notes, in which case the timing and/or character of income on the notes could be affected materially and adversely. The relevant terms supplement will describe the tax treatment of a particular offering of notes. You should review carefully the section entitled "Material U.S. Federal Income Tax Consequences" in this product supplement and consult your tax adviser regarding the U.S. federal income tax consequences of an investment in the notes, including possible alternative treatments.

**Historical performance of any Underlying should not be taken as an indication of the future performance of that Underlying during the term of the notes.**

The actual performance of any Underlying over the term of the notes, as well as any payment on the notes, may bear little relation to the historical performance of that Underlying. The future performance of any Underlying may differ significantly from its historical performance, and no assurance can be given as to the value of any Underlying during the term of the notes, including on any Determination Date. It is impossible to predict whether the value of any Underlying will rise or fall. There is no assurance that the performance of the Underlying(s) will not adversely affect any payment on the notes.

**Employees of JPMorgan Chase & Co. or one of its affiliates, including JPMorgan Financial, holding the notes must comply with policies that limit their ability to purchase or sell the notes.**

If you are an employee of JPMorgan Chase & Co. or one of its affiliates, including JPMorgan Financial, you may acquire the notes only for investment purposes, and you must comply with all of JPMorgan Chase & Co.'s internal policies and procedures. Because these policies and procedures limit the dates and times that you may transact in the notes, you may not be able to purchase the notes from the Issuer, and your ability to trade or sell the notes in the secondary market may be limited.

**Risks Relating to Conflicts of Interest**

**The Issuer's offering of the notes does not constitute an expression of its views (or the Guarantor's views, if applicable) about, or a recommendation of, any Index or Underlying Currency (relative to the U.S. dollar) or the securities underlying any Index.**

You should not take the Issuer's offering of the notes as an expression of its views (or the Guarantor's views, if applicable) about how any Index or Underlying Currency (relative to the U.S. dollar) or the securities underlying any Index will perform in the future or as a recommendation to invest (directly or indirectly, by taking a long or short position) in any of the foregoing, including through an investment in the notes. As a global financial institution, the Issuer, the Guarantor (if applicable) and their affiliates may, and often do, have positions (long, short or both) in one or more of the foregoing that conflict with an investment in the notes. See "— The Issuer, the Guarantor (if applicable) or their affiliates may have economic interests that are adverse to those of the holders of the notes as a result of their hedging and other trading activities" below and "Use of Proceeds and Hedging" in this product supplement for some examples of potential conflicting positions the Issuer may have. You should undertake an independent determination of whether an investment in the notes is appropriate for you in light of your specific investment objectives, risk tolerance and financial resources.

**The Issuer, the Guarantor (if applicable) or their affiliates may have economic interests that are adverse to those of the holders of the notes as a result of their hedging and other trading activities.**

In anticipation of the sale of the notes, the Issuer expects to hedge its obligations under the notes through certain affiliates or unaffiliated counterparties by taking positions in one or more Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices or instruments the value of which is derived from one or more Indices or Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices. The Issuer may also adjust its hedge by, among other things, purchasing or selling any of the foregoing at any time and from time to time and close out or unwind its hedge by selling any of the foregoing on or before any Determination Date. In addition, JPMS

and other affiliates of the Issuer or the Guarantor (if applicable) also trade the foregoing on a regular basis (taking long or short positions or both), for their accounts, for other accounts under their management and to facilitate transactions, including block transactions, on behalf of customers. While the Issuer cannot predict an outcome, any of these hedging or other trading activities could potentially affect the value of the Underlying(s) and may adversely affect the value of the notes or any payment on the notes. See “Use of Proceeds and Hedging” below for additional information about the Issuer’s hedging activities.

This hedging and trading activity may present a conflict of interest between your interests as a holder of the notes and the interests of the Issuer’s affiliates in hedging and other trading activities. These hedging and trading activities could also affect the price at which JPMS is willing to purchase your notes in the secondary market. In addition, the Issuer’s hedging counterparties expect to make a profit. Because hedging the Issuer’s obligations entails risk and may be influenced by market forces beyond its control, this hedging may result in a profit that is more or less than expected, or it may result in a loss. It is possible that these hedging or trading activities could result in substantial returns for the Issuer or its affiliates while the value of the notes declines.

**The Issuer, the Guarantor (if applicable) or their affiliates may have economic interests that are adverse to those of the holders of the notes as a result of their business activities.**

The Issuer, the Guarantor (if applicable) or their affiliates may currently or from time to time engage in business with the companies the securities of which are included in an Index (the “**underlying companies**”), including extending loans to, making equity investments in or providing advisory services to the underlying companies, including merger and acquisition advisory services. The Issuer and the Guarantor (if applicable) do not make any representation or warranty to any purchaser of notes with respect to any matters whatsoever relating to its business with the underlying companies.

In addition, in the course of the Issuer’s or the Guarantor’s (if applicable) business, it or its affiliates may acquire nonpublic information about one or more Indices Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices, and the Issuer will not disclose any such information to you.

Furthermore, the Issuer, the Guarantor (if applicable) or one of their affiliates may serve as issuer, agent or underwriter for issuances of other securities or financial instruments with returns linked or related to changes in the value of an Index or Underlying Currency (relative to the U.S. dollar) or the securities underlying an Index. To the extent that the Issuer, the Guarantor (if applicable) or one of their affiliates serves as issuer, agent or underwriter for these securities or financial instruments, the Issuer, the Guarantor (if applicable) or their affiliate’s interests with respect to these securities or financial instruments may be adverse to those of the holders of the notes. By introducing competing products into the marketplace in this manner, the Issuer, the Guarantor (if applicable) or one or more of their affiliates could adversely affect the value of the notes.

The value of one or more Underlyings may be determined in whole or in part by reference to the value of a benchmark that is established based on quotes, prices, values or other data provided by market participants, including, in some cases, the Issuer, the Guarantor (if applicable) or their affiliates. In addition, the Issuer, the Guarantor (if applicable) or their affiliates may take part in, or have a supervisory role in connection with, the administration of certain benchmarks. The Issuer, the Guarantor (if applicable) and their affiliates will have no obligation to consider your interests as a holder of the notes in taking any actions that might affect the value of any Underlying or the notes.

**The Issuer, the Guarantor (if applicable) or their affiliates may have economic interests that are adverse to those of the holders of the notes due to JPMS’s role as calculation agent.**

JPMS, one of the Issuer’s and the Guarantor’s (if applicable) affiliates, will act as the calculation agent. The calculation agent makes all necessary calculations and determinations in connection with the notes, including with respect to any payments on the notes and the assumptions used to determine the pricing and estimated value of the notes. In performing these duties, JPMS may have interests adverse

to the interests of the holders of the notes, which may affect your return on the notes, particularly where JPMS, as the calculation agent, is entitled to exercise discretion. See “General Terms of Notes — Postponement of a Determination Date” and “The Underlyings” in this product supplement.

**JPMS and its affiliates may have published research, expressed opinions or provided recommendations that are inconsistent with investing in or holding the notes or that may adversely affect the value of the notes, and may do so in the future.**

JPMS and its affiliates may publish research reports, express opinions or provide recommendations from time to time that relate to one or more Indices or Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices. These research reports, opinions or recommendations may be inconsistent with purchasing or holding the notes and could adversely affect the value of the notes. Any research, opinions or recommendations expressed by JPMS or its affiliates may not be consistent with each other and may be modified from time to time without notice. Investors should make their own independent investigation of the merits of investing in the notes and any Underlying to which the notes are linked.

### **Risks Relating to the Estimated Value and Secondary Market Prices of the Notes**

**The estimated value of the notes will be lower than the original issue price (price to public) of the notes.**

The estimated value of the notes is only an estimate determined by reference to several factors. Unless otherwise specified in the relevant terms supplement, the original issue price of the notes will exceed the estimated value of the notes because costs associated with selling, structuring and hedging the notes are included in the original issue price of the notes. These costs include the selling commissions, referral fees, if any, structuring fees, if any, the projected profits, if any, that the Issuer's affiliates expect to realize for assuming risks inherent in hedging its obligations under the notes and the estimated cost of hedging its obligations under the notes. See “Estimated Value and Secondary Market Prices of the Notes — The Estimated Value of the Notes” above in this product supplement.

**The estimated value of the notes will not represent future values of the notes and may differ from others' estimates.**

The estimated value of the notes will be determined by reference to the internal pricing models of one or more of the Issuer's affiliates when the terms of the notes are set. This estimated value of the notes will be based on market conditions and other relevant factors existing at that time and assumptions about market parameters, which can include volatility, correlation, dividend rates, interest rates and other factors. Different pricing models and assumptions could provide valuations for notes that are greater than or less than the estimated value of the notes. In addition, market conditions and other relevant factors may change after the estimated value of the notes has been determined, and any assumptions may prove to be incorrect. The value of the notes could change significantly after the estimated value of the notes has been determined based on, among other things, changes in market conditions, the Issuer's or the Guarantor's (if applicable) creditworthiness, interest rate movements and other relevant factors, which may impact the price, if any, at which JPMS would be willing to buy notes from you in secondary market transactions. See “Estimated Value and Secondary Market Prices of the Notes — The Estimated Value of the Notes” above in this product supplement.

**The estimated value of the notes will be derived by reference to an internal funding rate and will not be determined by reference to credit spreads for JPMorgan Chase & Co.'s conventional fixed income instruments.**

The internal funding rate used in the determination of the estimated value of the notes will generally represent a discount from the credit spreads for JPMorgan Chase & Co.'s conventional fixed income instruments. This internal funding rate may differ from the market-implied funding rate for vanilla fixed income instruments of a similar maturity issued by JPMorgan Chase & Co. or its affiliates. Any difference



may be based on, among other things, the Issuer's and its affiliates' view of the funding value of the notes as well as the higher issuance, operational and ongoing liability management costs of the notes in comparison to those costs for the conventional fixed income instruments of JPMorgan Chase & Co. This internal funding rate is based on certain market inputs and assumptions, which may prove to be incorrect, and is intended to approximate the prevailing market replacement funding rate for the notes. If the interest rate implied by JPMorgan Chase & Co.'s conventional fixed income credit spreads were used, the Issuer would expect the economic terms of the notes to be more favorable to you. In addition, the estimated value of the notes might be lower if it were based on the interest rate implied by JPMorgan Chase & Co.'s conventional fixed income credit spreads. Consequently, the use of an internal funding rate and any potential changes to that rate may have an adverse effect on the terms of the notes and any secondary market prices of the notes. See "Estimated Value and Secondary Market Prices of the Notes — The Estimated Value of the Notes" above in this product supplement.

**The value of the notes as published by JPMS (and which may be reflected on customer account statements) may be higher than the then-current estimated value of the notes for a limited time period.**

The relevant terms supplement may specify that the Issuer will generally expect that some of the costs included in the original issue price of the notes will be partially paid back to you in connection with any repurchases of your notes by JPMS in an amount that will decline to zero over an initial predetermined period. These costs can include selling commissions and structuring fees, if any, projected hedging profits, if any, and, in some circumstances, estimated hedging costs and the Issuer's internal secondary market funding rates for structured debt issuances. See "Estimated Value and Secondary Market Prices of the Notes — Secondary Market Prices of the Notes" above in this product supplement. Accordingly, the estimated value of your notes during this initial period may be lower than the value of the notes as published by JPMS (and which may be shown on your customer account statements).

**Secondary market prices of the notes will likely be lower than the original issue price of the notes.**

Any secondary market prices of the notes will likely be lower than the original issue price of the notes because, among other things, secondary market prices take into account the Issuer's internal secondary market funding rates for structured debt issuances, and, also, because secondary market prices (a) exclude referral fees, if any, and structuring fees, if any, and (b) may exclude selling commissions, projected hedging profits, if any, and estimated hedging costs that are included in the original issue price of the notes. As a result, the price, if any, at which JPMS will be willing to buy notes from you in secondary market transactions, if at all, is likely to be lower than the original issue price. Any sale by you prior to the maturity date could result in a substantial loss to you. See the immediately following risk factor for information about additional factors that will impact any secondary market prices of the notes.

**Secondary market prices of the notes will be impacted by many economic and market factors.**

The secondary market price of the notes during their term will be impacted by a number of economic and market factors, which may either offset or magnify each other, aside from the selling commissions, referral fees, if any, and structuring fees, if any, projected hedging profits, if any, estimated hedging costs and the value of the Underlying(s), including:

- any actual or potential change in the Issuer's creditworthiness or credit spreads and, for notes issued by JPMorgan Financial, the Guarantor's creditworthiness or credit spreads;
- customary bid-ask spreads for similarly sized trades;
- the Issuer's internal secondary market funding rates for structured debt issuances;
- the actual and expected value of any Index or Underlying Currency (relative to the U.S. dollar);



- the actual and expected frequency and magnitude of changes in the value of any Index or Underlying Currency (relative to the U.S. dollar) (*i.e.*, volatility);
- prevailing market prices, volatility and liquidity of any option or futures contracts relating to any Index or Underlying Currency (relative to the U.S. dollar);
- the time to maturity of the notes;
- the dividend rates on the equity securities underlying an Index (while not paid to holders of the notes, dividend payments on any equity securities underlying an Index may influence the value of the Underlying(s) and the market value of options on the Underlying(s) and therefore affect the market value of the notes);
- interest and yield rates in the market generally, as well as in the markets of the securities underlying an Index, the markets in the originating countries or economic regions of any Underlying Currency and the markets in the United States;
- economic, financial, political, regulatory and judicial events that affect the securities underlying an Index, the original countries or economic regions of any Underlying Currency or stock markets or currency markets generally;
- changes in correlation between the value of any Index and the Underlying Currency of that Index (relative to the U.S. dollar); and
- for notes linked to two or more Underlyings, changes in correlation (the extent to which the values of the Underlyings increase or decrease to the same degree at the same time) between the Underlyings.

Additionally, independent pricing vendors and/or third party broker-dealers may publish a price for the notes, which may also be reflected on customer account statements. This price may be different (higher or lower) than the price of the notes, if any, at which JPMS may be willing to purchase your notes in the secondary market.

Some or all of these factors will influence the price you will receive if you choose to sell your notes prior to maturity. The impact of any of the factors set forth above may enhance or offset some or all of any change resulting from another factor or factors. You may have to sell your notes at a substantial discount from the principal amount.

### **Risks Relating to Basket Notes**

#### **The Underlyings included in a Basket may not be equally weighted.**

If so specified in the relevant terms supplement, the Underlyings included in a Basket may have different weights in determining the value of the Basket. For example, the relevant terms supplement may specify that the Basket consists of five Underlyings and that the weights of the Underlyings are 25%, 30%, 15%, 20% and 10%. One consequence of an unequal weighting of the Underlyings is that the same percentage change in two of the Underlyings may have different effects on the value of the Basket. For example, if the weight for Underlying A is greater than the weight for Underlying B, a 5% decrease in the value of Underlying A will have a greater effect on the value of the Basket than a 5% decrease in the value of Underlying B.

#### **The weights of the Underlyings included in a Basket may be determined on a date other than the pricing date.**

If so specified in the relevant terms supplement, the weights of the Underlyings included in a Basket may be determined on a date or dates other than the pricing date. For example, the relevant terms supplement may specify that the weights of the Underlyings will be determined based on the relative

magnitude of the return of each Underlying as of the final Determination Date. As a result, if the relevant terms supplement so specifies, you will not know the weight assigned to each Underlying until a date later than the pricing date, and you may not know the weight assigned to each Underlying in the Basket prior to the final Determination Date.

**Changes in the values of the Underlyings included in a Basket may not be correlated and may offset each other, or changes in value may be correlated in a manner that adversely affects any payment on the notes.**

Movements in the values of the Underlyings included in a Basket may not be correlated with each other. For notes that provide long (or bullish) exposure to the Basket, at a time when the value of one or more of the Underlyings increases, the value of the other Underlyings may not increase as much or may even decline. Therefore, in calculating the performance of the Basket, increases in the value of one or more of the Underlyings may be moderated, or more than offset, by lesser increases or declines in the value of the other Underlying or Underlyings, particularly if the Underlying or Underlyings that appreciate are of relatively low weight in the Basket. In addition, high correlation of movements in the values of the Underlyings during periods of negative returns among the Underlyings could have an adverse effect on any payment on the notes.

Similarly, for notes that provide short (or bearish) exposure to the Basket, at a time when the value of one or more of the Underlyings decreases, the value of the other Underlyings may not decrease as much or may even increase. Therefore, in calculating the performance of the Basket, declines in the value of one or more of the Underlyings may be moderated, or more than offset, by lesser declines or increases in the value of the other Underlying or Underlyings, particularly if the Underlying or Underlyings that depreciate are of relatively low weight in the Basket. In addition, high correlation of movements in the values of the Underlyings during periods of positive returns among the Underlyings could have an adverse effect on any payment on the notes.

### **Risks Relating to Least Performing Underlying Notes and Greatest Performing Underlying Notes**

**You are exposed to the risks associated with each Underlying.**

The return on Least Performing Underlying Notes or Greatest Performing Underlying Notes is contingent upon the individual performance of each Underlying and not the performance of a basket of the Underlyings. Unlike an instrument with a return linked to a basket of underlying assets, in which risk is diversified among all the components of the basket, you will be exposed equally to the risks related to any of the Underlyings. The performance of the Underlyings may not be correlated, and the performance of any one of the Underlyings over the term of the notes may negatively affect any payment on the notes and will not be offset by the performance of any or all of the other Underlyings. Accordingly, your investment is subject to the risks associated with each Underlying.

**Any payment on the notes may be determined by reference to the performance of the Underlying that will result in the worst performance of the notes.**

Any payment on the notes may be determined by reference to the performance of the Underlying that will result in the worst performance of the notes, and you will not benefit from the performance of any other Underlying. For example, for Least Performing Underlying Notes, which provide long (or bullish) exposure, any payment on the notes may be determined solely by reference to the Underlying with the lowest return. Similarly, for Greatest Performing Underlying Notes, which provide short (or bearish) exposure, any payment on the notes may be determined solely by reference to the Underlying with the highest return. Accordingly, the performance of a single Underlying can adversely affect the value of the notes and any payment on the notes, regardless of the performance of any other Underlying.

## **Risks Relating to Relative Performance Notes**

### **The return on the notes is based on the relative performance of the Underlyings.**

You may receive a lower return on the notes than you could receive by taking directly a long position in the Long Underlying(s) or a short position in the Short Underlying(s). Unlike a long position in the Long Underlying(s) or a short position in the Short Underlying(s), you may not earn a positive return even if each Long Underlying appreciates or each Short Underlying depreciates over the term of the notes. Unless otherwise specified in the relevant terms supplement, it is possible that you will not earn a positive return when all the Underlyings appreciate or when all the Underlyings depreciate, if, in either case, the return of the Long Underlying(s) is less than the return of the Short Underlying(s). The notes will be linked to the performance of the Long Underlying(s) as compared to the performance of the Short Underlying(s) and thus are affected by the relative, not absolute, performance of the Underlyings. Unless otherwise specified in the relevant terms supplement, in order to receive a positive return on the notes, the return of the Long Underlying(s) must be greater than the return of the Short Underlying(s), in each case calculated as set forth in the relevant terms supplement.

### **Changes in the value of any Long Underlying may be partially offset or entirely negated by changes in the value of any Short Underlying.**

Changes in the value of any Long Underlying may be partially offset or entirely negated by changes in the value of any Short Underlying. If the returns of the Underlyings are strongly correlated, you may not receive a positive return on the notes, unless otherwise specified in the relevant terms supplement. Conversely, if the returns of the Underlyings are not correlated, your investment will be exposed to the return of the Long Underlying(s) relative to the return of the Short Underlying(s), in each case calculated as set forth in the relevant terms supplement. Your notes may not generate a positive return even if the return of the Long Underlying is positive or the return of the Short Underlying is negative.

### **You are exposed to the risks associated with each Underlying.**

The return on Relative Performance Notes is contingent upon the individual performance of each Underlying and not the performance of a basket of the Underlyings. Unlike an instrument with a return linked to a basket of underlying assets, in which risk is diversified among all the components of the basket, you will be exposed equally to the risks related to all of the Underlyings. Poor performance by the Long Underlying(s) or strong performance by the Short Underlying(s) over the term of the notes may negatively affect your return on the notes. Accordingly, your investment is subject to the risks associated with each Underlying.

## **Risks Relating to an Underlying**

### **The performance of an Underlying may be adversely affected by the performance of the relevant Index or its Underlying Currency (relative to the U.S. dollar) or both.**

The performance of an Underlying is based on the performance of the relevant Index and its Underlying Currency. The adjusted closing level of an Index is the closing level of that Index, converted into U.S. dollars based on the applicable Exchange Rate. Accordingly, for notes that provide long exposure to the Underlying(s), any return on the notes may be adversely affected by any decline in the value of a relevant Index or its Underlying Currency (relative to the U.S. dollar) or both. Similarly, for notes that provide short exposure to the Underlying(s), any return on the notes may be adversely affected by any increase in the value of a relevant Index or its Underlying Currency (relative to the U.S. dollar) or both.

**Changes in the values of an Index and its Underlying Currency may not be correlated and may offset each other, or changes in value may be correlated in a manner that adversely affects any payment on the notes.**

Movements in the values of an Index and its Underlying Currency may not be correlated with each other. For notes that provide long (or bullish) exposure to the Underlying(s), at a time when the value of a relevant Index increases, the value of its Underlying Currency (relative to the U.S. dollar) may not increase as much or may even decline. Therefore, in calculating the performance of an Underlying, increases in the value of the relevant Index may be moderated, or more than offset, by lesser increases or declines in the value of its Underlying Currency (relative to the U.S. dollar). In addition, high correlation of movements in the values of an Index and its Underlying Currency during periods of negative returns among that Index and Underlying Currency could have an adverse effect on any payment on the notes.

Similarly, for notes that provide short (or bearish) exposure to the Underlying(s), at a time when the value of a relevant Index decreases, the value of its Underlying Currency (relative to the U.S. dollar) may not decrease as much or may even increase. Therefore, in calculating the performance of an Underlying, declines in the value of the relevant Index may be moderated, or more than offset, by lesser declines or increases in the value of its Underlying Currency (relative to the U.S. dollar). In addition, high correlation of movements in the values of an Index and its Underlying Currency during periods of positive returns among that Index and Underlying Currency could have an adverse effect on any payment on the notes.

### **Risks Relating to an Index**

**The sponsor of an Index (an “Index Sponsor”) may adjust that Index in a way that affects its level, and the Index Sponsor has no obligation to consider your interests.**

The applicable Index Sponsor is responsible for maintaining an Index. The Index Sponsor can add, delete or substitute the securities underlying the applicable Index or make other methodological changes that could change the level of that Index. You should realize that the changing of securities included in an Index may affect that Index, as a newly added security may perform significantly better or worse than the asset or assets it replaces. Additionally, the Index Sponsor may alter, discontinue or suspend calculation or dissemination of the applicable Index. Any of these actions could adversely affect the value of the notes. The Index Sponsor of an Index has no obligation to consider your interests in calculating or revising that Index. See the relevant index description section in any accompanying underlying supplement or the relevant terms supplement for additional information.

**The reported level of an Index may include the deduction of index fees or other adjustments.**

Any accompanying underlying supplement or the relevant terms supplement may specify that the reported levels of an Index may include a deduction from the aggregate performance of the relevant securities underlying that Index of index fees or other adjustments. Under these circumstances, as a result of these deductions, the value of that Index will trail the value of a hypothetical identically constituted synthetic portfolio that is not subject to those index fees or other adjustments.

**Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, to the Issuer’s and the Guarantor’s (if applicable) knowledge, their securities are not currently included in an Index.**

As a general matter, none of the issuers the securities of which are included in an Index will be involved in the offering of the notes in any way. As a result, the Issuer and the Guarantor (if applicable) will have no ability to control the actions of the issuers of those securities, including actions that could affect the value of the securities underlying an Index or your notes. None of those issuers will have any obligation to consider your interests as a holder of the notes in taking any actions that might affect the value of your notes. See any accompanying underlying supplement or the relevant terms supplement for additional information about whether the Issuer or the Guarantor (if applicable) is one of the companies included in an Index.

In the event that the Issuer's or the Guarantor's (if applicable) securities are included in an Index, the Issuer and the Guarantor (if applicable) will have no obligation to consider your interests as a holder of the notes in taking any action that might affect the level of that Index or the value of your notes.

**For notes that provide long (or bullish) exposure to an Index that is not a total return index, your return on the notes will not reflect dividends, interest payments or other distributions on the securities underlying that Index.**

For notes that provide long (or bullish) exposure to an Index that is not a total return index, your return on the notes will not reflect the return you would realize if you actually owned the securities underlying that Index and received the dividends, interest payments or other distributions paid on those securities. This is because the calculation agent will calculate any payment on the notes, in whole or in part, by reference to the values of that Index. The values of that Index will reflect the prices of the securities underlying that Index on the relevant Determination Date(s) without taking into consideration the value of dividends, interest payments or other distributions paid on those securities.

**For notes that provide short (or bearish) exposure to an Index that is a total return index, your return on the notes will be adversely affected by dividends, interest payments or other distributions on the securities underlying that Index.**

The level of a total return index reflects the prices of the securities included in that index, as well as the value of dividends, interest payments or other distributions on the securities underlying that Index on those securities. Accordingly, if the notes are linked to a total return index, any dividends, interest payments or other distributions on the securities underlying that Index will have a positive effect on the level of that index, which will adversely affect the value of the short (or bearish) notes.

**An investment in the notes is subject to risks associated with non-U.S. securities markets.**

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, the securities that compose an Index have been issued by non-U.S. companies. Investments in securities linked to the value of securities of non-U.S. issuers involve risks associated with the securities markets in those countries where the relevant non-U.S. securities are traded, including risks of volatility in those markets, governmental intervention in those markets and cross shareholdings in companies in certain countries. Also, there is generally less publicly available information about companies in some of these jurisdictions than about U.S. companies that are subject to the reporting requirements of the SEC, and generally non-U.S. companies are subject to accounting, auditing and financial reporting standards and requirements and securities trading rules different from those applicable to U.S. reporting companies.

The prices of securities in non-U.S. markets may be affected by political, economic, financial and social factors in those markets, including changes in a country's government, economic and fiscal policies, currency exchange laws or other laws or restrictions. Moreover, the economies of these countries may differ favorably or unfavorably from the economy of the United States in such respects as growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency. These countries may be subjected to different and, in some cases, more adverse economic environments.

The economies of emerging market countries in particular face several concerns, including relatively unstable governments that may present the risks of nationalization of businesses, restrictions on foreign ownership and prohibitions on the repatriation of assets, and which may have less protection of property rights than more developed countries. These economies may also be based on only a few industries, be highly vulnerable to changes in local and global trade conditions and may suffer from extreme and volatile debt burdens or inflation rates. In addition, local securities markets may trade a small number of securities and may be unable to respond effectively to increases in trading volume, potentially making prompt liquidation of holdings difficult or impossible at times. The risks of the economies of emerging

market countries are relevant for notes linked to an Index composed of securities traded in one or more emerging market countries.

Some or all of these factors may influence the closing level of an Index. The impact of any of the factors set forth above may enhance or offset some or all of any change resulting from another factor or factors. You cannot predict the future performance of an Index based on its historical performance. The level of an Index may change in a manner that would adversely affect any payment on the notes.

### **Risks Relating to an Underlying Currency Relative to U.S. Dollars**

#### **The notes are subject to currency exchange risk.**

Foreign currency exchange rates vary over time, and may vary considerably during the term of the notes. The value of an Underlying Currency or the U.S. dollar is at any moment a result of the supply and demand for that Underlying Currency or the U.S. dollar, as applicable. Changes in foreign currency exchange rates over time result from the interaction of many factors directly or indirectly affecting economic and political conditions in the country or economic region the lawful currency of which is that Underlying Currency (each, an “**Underlying Currency Country**” and each Underlying Currency Country and the United States, a “**Relevant Country**”), the United States and other relevant countries or regions.

Of particular importance to potential currency exchange risk are:

- existing and expected rates of inflation;
- existing and expected interest rate levels;
- the balance of payments in any Relevant Country and between each country and its major trading partners;
- political, civil or military unrest in any Relevant Country; and
- the extent of governmental surplus or deficit in any Relevant Country.

All of these factors are, in turn, sensitive to the monetary, fiscal and trade policies pursued by any Relevant Country and those of other countries important to international trade and finance.

#### **The liquidity, trading value and amounts payable, if any, under the notes could be affected by the actions of the governments of any Relevant Country.**

Foreign exchange rates can be fixed by a sovereign government, allowed to float within a range of exchange rates set by that government or left to float freely. Exchange rates of most economically developed nations are permitted to fluctuate in value relative to the value of other currencies. However, governments do not always allow their currencies to float freely in response to economic forces. Governments use a variety of techniques, such as intervention by their central bank or imposition of regulatory controls or taxes, to affect the exchange rates of their respective currencies. They may also issue a new currency to replace an existing currency, fix the exchange rate or alter the exchange rate or relative exchange characteristics by devaluation or revaluation of a currency. Thus, a special risk in purchasing the notes is that their trading value and any amount payable on the notes could be affected by the actions of sovereign governments, fluctuations in response to other market forces and the movement of currencies across borders. Unless that event constitutes a market disruption event or a Currency Succession Event, there will be no adjustment or change in the terms of the notes in the event that exchange rates should become fixed, or in the event of any devaluation or revaluation or imposition of exchange or other regulatory controls or taxes or in the event of other developments affecting any Underlying Currency, the U.S. dollar or any other currency. See “The Underlyings — Currencies — Market Disruption Events for an Underlying Currency Relative to the U.S. Dollar” and “The Underlyings — Currencies — Currency Succession Events.”



**If an Underlying Currency is an emerging markets currency, the value of the notes will be subject to an increased risk of significant adverse fluctuations.**

Emerging markets currencies may be subject to higher volatility than major currencies, especially in environments of risk aversion and deleveraging. With respect to any emerging or developing nation, there is a greater possibility of nationalization, expropriation or confiscation, political changes, government regulation and social instability. Currencies of emerging economies are often subject to more frequent and larger central bank interventions than the currencies of developed countries and are also more likely to be affected by drastic changes in monetary or exchange rate policies of the relevant countries, which may negatively affect the value of the notes. Global events, even if not directly applicable to an emerging markets country or its currency, may increase volatility or adversely affect the value of your notes.

**Even though any Underlying Currency and the U.S. dollar are traded around-the-clock, if a secondary market for the notes develops, the notes may trade only during regular hours in the United States.**

The interbank market for any Underlying Currency and the U.S. dollar is a global, around-the-clock market and the value of any Underlying Currency and the U.S. dollar are quoted 24 hours a day. Therefore, the hours of trading for the notes, if any, will not conform to the hours during which any Underlying Currency or the U.S. dollar is traded. Consequently, significant price and rate movements may take place in the underlying foreign exchange markets, and thus in the relevant Exchange Rate, that will not be reflected immediately in the market price, if any, of the notes.

**The absence of last-sale and other information about any Underlying Currency or the U.S. dollar may affect the price of the notes.**

There is no systematic reporting of last-sale information for foreign currencies. Reasonably current bid and offer information is available in certain brokers' offices, in bank foreign currency trading offices and to others who wish to subscribe for this information, but this information will not necessarily be reflected in any Exchange Rate, and therefore any payment on the notes. There is no regulatory requirement that those quotations be firm or revised on a timely basis. The absence of last-sale information and the limited availability of quotations to individual investors may make it difficult for many investors to obtain timely, accurate data about the state of the underlying foreign exchange markets.

In addition, certain relevant information relating to any Relevant Country may not be as well-known or as rapidly or thoroughly reported in the United States as comparable United States developments. Prospective purchasers of the notes should be aware of the possible lack of availability of important information that can affect the value of any Underlying Currency or the U.S. dollar and must be prepared to make special efforts to obtain that information on a timely basis.

**Currency exchange risks can be expected to heighten in periods of financial turmoil.**

In periods of financial turmoil, capital can move quickly out of regions that are perceived to be more vulnerable to the effects of the crisis than others, with sudden and severely adverse consequences to the currencies of those regions. In addition, governments around the world, including the United States government and governments of other major world currencies, have recently made, and may be expected to continue to make, very significant interventions in their economies, and sometimes directly in their currencies. Those interventions affect currency exchange rates globally and, in particular, the value of any Underlying Currency relative to the U.S. dollar. Further interventions, other government actions or suspensions of actions, as well as other changes in government economic policy or other financial or economic events affecting the currency markets, may cause currency exchange rates to fluctuate sharply in the future, which could have a material adverse effect on the value of the notes and any return on your investment in the notes.

**Changes in interest rates may affect the trading value of the notes.**

Changes in interest rates are expected to affect the trading value of the notes. In general, if interest rates in the United States increase or interest rates in an Underlying Currency Country decrease, the U.S. dollar is expected to appreciate relative to the applicable Underlying Currency. Conversely, if the interest rates in the United States decrease or interest rates in an Underlying Currency Country increase, the applicable Underlying Currency is expected to appreciate relative to the U.S. dollar.

Interest rates may affect the economies of a Relevant Country, and, in turn, the exchange rates and therefore the value of an Underlying Currency relative to the U.S. dollar. The impact of changes in interest rates in any Relevant Country may either offset or magnify changes in interest rates in any other Relevant Country.

**Suspensions or disruptions of market trading in the currency markets may adversely affect any amount payable on the notes and/or the market value of the notes.**

The currency markets are subject to temporary distortions or other disruptions due to various factors, including the participation of speculators and government regulation and intervention. These circumstances could affect the value of any Underlying Currency relative to the U.S. dollar and, therefore, the amount of any payment on the notes and/or the market value of the notes.

**Any Underlying Currency or the U.S. dollar may be replaced by another currency following a Currency Succession Event.**

If an Underlying Currency or the U.S. dollar is lawfully eliminated and replaced with, converted into, redenominated as, or exchanged for, another currency; or any Relevant Country divides into two or more countries or economic regions, each with a different lawful currency immediately after that event (each such event, a “Currency Succession Event”), that Underlying Currency or the U.S. dollar will be replaced with another currency (a “Successor Currency”). In the event of a Currency Succession Event, you will become subject to the performance of the Successor Currency instead of the Underlying Currency or the U.S. dollar, as applicable. In addition, for notes linked to multiple Underlying Currencies, if any Underlying Currency is replaced with a Successor Currency that is the same as another Underlying Currency, your exposure to that Underlying Currency may be effectively increased. You should read “The Underlyings — Currencies — Currency Succession Events” in order to understand these and other adjustments that may be made to your notes. The occurrence of a Currency Succession Event and the consequent adjustments may materially and adversely affect the value of the notes.

**A separate underlying supplement or the relevant terms supplement may provide additional risk factors relating to any Index or Underlying Currency to which the notes are linked.**

## USE OF PROCEEDS AND HEDGING

Unless otherwise specified in the relevant terms supplement, JPMorgan Chase & Co. will contribute the net proceeds that it receives from the sale of the notes it issues to its “intermediate holding company” subsidiary, JPMorgan Chase Holdings LLC, which will use those net proceeds for general corporate purposes, in connection with hedging JPMorgan Chase & Co.’s obligations under its notes or for any other purpose described in the relevant terms supplement. General corporate purposes may include investments in JPMorgan Chase & Co.’s subsidiaries, payments of dividends to JPMorgan Chase & Co., extensions of credit to JPMorgan Chase & Co. or its subsidiaries or the financing of possible acquisitions or business expansion. Net proceeds may be temporarily invested pending application for their stated purpose. Interest on JPMorgan Chase & Co.’s debt securities and dividends on its equity securities, as well as redemptions or repurchases of its outstanding securities, will be made using amounts it receives as dividends or extensions of credit from JPMorgan Chase Holdings LLC or as dividends from JPMorgan Chase Bank, N.A. Unless otherwise specified in the relevant terms supplement, JPMorgan Financial intends to lend the net proceeds from the sale of the notes it issues to the Guarantor and/or its affiliates. The Guarantor expects that it and/or its affiliates will use the proceeds from these loans to provide additional funds for its and/or their operations and for other general corporate purposes. The notes will be offered to meet investor demand for products that reflect the risk-return profile and market exposure provided by the notes as set forth in the relevant terms supplement.

Unless otherwise specified in the relevant terms supplement, the original issue price of the notes will be equal to the estimated value of the notes plus the selling commissions, referral fees, if any, and structuring fees, if any, paid to each agent and/or other affiliated or unaffiliated dealers (as shown on the cover page of the relevant terms supplement), plus (minus) the projected profits (losses) that the Issuer’s affiliates expect to realize for assuming risks inherent in hedging its obligations under the notes, plus the estimated cost of hedging its obligations under the notes. See “Estimated Value and Secondary Market Prices of the Notes — The Estimated Value of the Notes” and the relevant terms supplement for additional information about the estimated value of the notes. See also “Use of Proceeds” in the prospectus.

On or prior to the date of the relevant terms supplement, the Issuer, through its affiliates or others, expects to hedge some or all of its anticipated exposure in connection with the notes. In addition, from time to time after the notes are issued, the Issuer, through its affiliates or others, may enter into additional hedging transactions and close out or unwind those the Issuer has entered into, in connection with the notes and possibly in connection with its or its affiliates’ exposure to one or more Indices or Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices. To accomplish this, the Issuer, through its affiliates or others, may take positions in one or more Indices or Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices or instruments the value of which is derived from one or more Indices or Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices. From time to time, prior to maturity of the notes, the Issuer may pursue a dynamic hedging strategy that may involve taking long or short positions in the instruments described above.

While the Issuer cannot predict an outcome, any of these hedging activities or other trading activities of the Issuer could potentially affect the value of the Underlying(s) in a manner that adversely affects the value of the notes or any payment on the notes. Because hedging the Issuer’s obligations entails risk and may be influenced by market forces beyond its control, this hedging may result in a profit that is more or less than expected, or it may result in a loss. It is possible that these hedging or trading activities could result in substantial returns for the Issuer or its affiliates while the value of the notes declines. See “Risk Factors — Risks Relating to Conflicts of Interest — The Issuer, the Guarantor (if applicable) or their affiliates may have economic interests that are adverse to those of the holders of the notes as a result of their hedging and other trading activities” above.

The Issuer has no obligation to engage in any manner of hedging activity and will do so solely at its discretion and for its own account. The Issuer may hedge its exposure on the notes directly or it may

aggregate this exposure with other positions taken by it and its affiliates with respect to its exposure to one or more Indices or Underlying Currencies (relative to the U.S. dollar) or the securities underlying one or more Indices. No note holder will have any rights or interest in the Issuer's hedging activity or any positions that the Issuer, any of its affiliates or any unaffiliated counterparties may take in connection with the Issuer's hedging activity.

## GENERAL TERMS OF NOTES

### Calculation Agent

Unless otherwise specified in the relevant terms supplement, J.P. Morgan Securities LLC, one of the Issuer's and the Guarantor's (if applicable) affiliates, will act as the calculation agent. The Issuer and the Guarantor (if applicable) may appoint a different calculation agent from time to time after the date of the relevant terms supplement without your consent and without notifying you.

The calculation agent will make all necessary calculations and determinations in connection with the notes, including calculations and determinations relating to any payments on the notes and the assumptions used to determine the pricing and estimated value of the notes. All determinations made by the calculation agent will be at the sole discretion of the calculation agent and will, in the absence of manifest error, be conclusive for all purposes and binding on you and on the Issuer and the Guarantor (if applicable).

The calculation agent will provide written notice to the trustee at its New York office, on which notice the trustee may conclusively rely, of any amount payable on the notes at or prior to 11:00 a.m., New York City time, on the date on which payment is to be made.

Unless otherwise specified in the relevant terms supplement, all values with respect to calculations in connection with the notes will be rounded to the nearest one hundred-thousandth, with five one-millionths rounded upward (e.g., 0.876545 would be rounded to 0.87655). Notwithstanding the foregoing, all calculations with respect to any Exchange Rate will be rounded to five significant figures, with fives rounded up (e.g., 0.00876545 would be rounded to 0.0087655, and 87.6545 would be rounded to 87.655), all dollar amounts related to determination of any payment on the notes per note will be rounded to the nearest ten-thousandth, with five one hundred-thousandths rounded upward (e.g., 0.76545 would be rounded up to 0.7655), and all dollar amounts payable, if any, on the aggregate principal amount of notes per holder will be rounded to the nearest cent, with one-half cent rounded upward unless otherwise specified in the relevant terms supplement.

### Postponement of a Payment Date

If any scheduled Payment Date is not a business day, then that Payment Date will be the next succeeding business day following the scheduled Payment Date. If, due to a market disruption event or otherwise, any Determination Date referenced in the determination of a payment on the notes that will or may be payable on any Payment Date is postponed so that it falls less than two business days prior to that scheduled Payment Date, that Payment Date will be the second business day following the latest such Determination Date, as postponed, unless otherwise specified in the relevant terms supplement. If any Payment Date is adjusted as the result of a non-business day, a market disruption event or otherwise, any payment of interest due on that Payment Date will be made on that Payment Date as adjusted, with the same force and effect as if that Payment Date had not been adjusted, but no interest will accrue or be payable as a result of the delayed payment.

A **"business day"** is, unless otherwise specified in the relevant terms supplement, any day other than a day on which banking institutions in the City of New York are authorized or required by law, regulation or executive order to close or a day on which transactions in U.S. dollars are not conducted.

### Postponement of a Determination Date

The relevant terms supplement or an accompanying underlying supplement may provide a formulation of the postponement provisions that will apply to the notes instead of the relevant provisions set forth below.

### ***Notes Linked to a Single Underlying***

For notes linked to a single Underlying, if a Determination Date is a Market Disrupted Day (as defined below) or a Currency Disrupted Day (as defined below), the applicable Determination Date will be postponed to the earliest day on which the closing level and the Exchange Rate of the Index have been established, as described below:

- (a) if the applicable Determination Date is being postponed due to a Market Disrupted Day, the calculation agent will use the closing level and the Exchange Rate on the immediately succeeding scheduled trading day that is not a Market Disrupted Day to calculate the adjusted closing level for that Determination Date, *provided* that if that scheduled trading day is a Currency Disrupted Day, the calculation agent will use the Exchange Rate on the immediately succeeding business day that is not a Currency Disrupted Day instead; and
- (b) if the applicable Determination Date is being postponed due to a Currency Disrupted Day (but not a Market Disrupted Day), the calculation agent will use the closing level on the originally scheduled Determination Date and the Exchange Rate on the immediately succeeding business day that is not a Currency Disrupted Day to calculate the adjusted closing level for that Determination Date.

For example, assume that:

- (a) Scheduled Trading Day 1, a scheduled Determination Date, is a Market Disrupted Day but not a Currency Disrupted Day;
- (b) Scheduled Trading Day 2 is not a Market Disrupted Day but is a Currency Disrupted Day; and
- (c) the business day immediately following Scheduled Trading Day 2 is not a Currency Disrupted Day.

Under these circumstances, the Determination Date originally scheduled to occur on Scheduled Trading Day 1 would be postponed to the business day immediately following Scheduled Trading Day 2 and, with respect to that Determination Date, as postponed, the adjusted closing level would be deemed to be an adjusted closing level calculated using the closing level on Scheduled Trading Day 2 and the Exchange Rate on the immediately following business day.

In no event, however, will any Determination Date be postponed to a date that is after the applicable Final Disrupted Determination Date (as defined below). If a Determination Date has been postponed to the applicable Final Disrupted Determination Date and on that day, the closing level of the Index has not been established in accordance with the first paragraph of this “— Notes Linked to a Single Underlying” section, the calculation agent will determine the closing level of the Index for that Determination Date on that Final Disrupted Determination Date unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, in accordance with the formula for and method of calculating the closing level last in effect prior to the commencement of the market disruption event (or prior to the non-trading day), using the closing price (or, if trading in the relevant securities has been materially suspended or materially limited, the calculation agent’s good faith estimate of the closing price that would have prevailed but for that suspension or limitation or non-trading day) on that Final Disrupted Determination Date of each security most recently constituting the Index.

If a Determination Date has been postponed to the applicable Final Disrupted Determination Date and that day is a Currency Disrupted Day, the calculation agent will determine the Exchange Rate of the Index for that Determination Date on that Final Disrupted Determination Date in good faith and in a commercially reasonable manner, taking into account the latest available quotation for the exchange rate of the relevant Underlying Currency relative to the U.S. dollar and any other information that it deems relevant.



For purposes of this “— Notes Linked to a Single Underlying” section, with respect to a Determination Date, unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, the “**Final Disrupted Determination Date**” means the tenth scheduled trading day after that Determination Date, as originally scheduled.

### ***Notes Linked to Multiple Underlyings***

For notes linked to multiple Underlyings, if a Determination Date is a Market Disrupted Day or a Currency Disrupted Day for any Index (any Index affected by a Market Disrupted Day or a Currency Disrupted Day, a “**Disrupted Index**”), the applicable Determination Date will be postponed to the earliest day on which the closing level and the Exchange Rate of each Index have been established, as described below:

- (a) for each Index that is not a Disrupted Index (an “**Unaffected Index**”), the closing level and the Exchange Rate of that Index on the postponed Determination Date will be deemed to be the closing level and the Exchange Rate of that Index on the originally scheduled Determination Date;
- (b) for each Disrupted Index that is affected by a Market Disrupted Day, the calculation agent will use the closing level and the Exchange Rate on the immediately succeeding scheduled trading day that is not a Market Disrupted Day to calculate the adjusted closing level of that Index for that Determination Date, *provided* that if that scheduled trading day is a Currency Disrupted Day, the calculation agent will use the Exchange Rate on the immediately succeeding business day that is not a Currency Disrupted Day instead; and
- (c) for each Disrupted Index that is affected by a Currency Disrupted Day (but not a Market Disrupted Day), the calculation agent will use the closing level on the originally scheduled Determination Date and the Exchange Rate on the immediately succeeding business day that is not a Currency Disrupted Day to calculate the adjusted closing level of that Index for that Determination Date.

Accordingly, if a Determination Date is postponed as described above, the calculation agent may reference the closing levels and Exchange Rates of the Indices from different days when making any determinations with respect to that Determination Date, as postponed.

For example, assume that the notes are linked to two Indices, Index A and Index B, and that:

- (a) Scheduled Trading Day 1, a scheduled Determination Date, is not a Market Disrupted Day for Index A but is a Market Disrupted Day for Index B;
- (b) Scheduled Trading Day 2 is not a Market Disrupted Day for Index B but is a Currency Disrupted Day for Index B; and
- (c) the business day immediately following Scheduled Trading Day 2 is not a Currency Disrupted Day for Index B.

Under these circumstances, the Determination Date originally scheduled to occur on Scheduled Trading Day 1 would be postponed to the business day immediately following Scheduled Trading Day 2 and, with respect to that Determination Date, as postponed, the adjusted closing levels would be deemed to be (a) for Index A, the adjusted closing level on Scheduled Trading Day 1; and (b) for Index B, an adjusted closing level calculated using the closing level on Scheduled Trading Day 2 and the Exchange Rate on the immediately following business day.

In no event, however, will any Determination Date be postponed to a date that is after the applicable Final Disrupted Determination Date. If a Determination Date has been postponed to the applicable Final Disrupted Determination Date and on that day, the closing level or the Exchange Rate for any Disrupted Index has not been established in accordance with the first paragraph of this “— Notes Linked to Multiple

Underlyings” section, the closing level and the Exchange Rate for that Determination Date will be determined by the calculation agent on that Final Disrupted Determination Date and will be deemed to be:

- (a) for each Unaffected Index, the closing level and the Exchange Rate on the originally scheduled Determination Date; and
- (b) for each Disrupted Index, the closing level and/or the Exchange Rate determined in the manner described in the first paragraph of this “— Notes Linked to Multiple Underlyings” section; *provided* that:
  - (i) if, on that Final Disrupted Determination Date, the closing level of that Index has not been established in accordance with the first paragraph of this “— Notes Linked to Multiple Underlyings” section, the calculation agent will determine the closing level of that Index for that Determination Date on that Final Disrupted Determination Date, unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, in accordance with the formula for and method of calculating the closing level last in effect prior to the commencement of the market disruption event (or prior to the non-trading day), using the closing price (or, if trading in the relevant securities has been materially suspended or materially limited, the calculation agent’s good faith estimate of the closing price that would have prevailed but for that suspension or limitation or non-trading day) on that Final Disrupted Determination Date of each security most recently constituting the Index; and/or
  - (ii) if, on that Final Disrupted Determination Date, the Exchange Rate of that Index has not been established in accordance with the first paragraph of this “— Notes Linked to Multiple Underlyings” section, the calculation agent will determine the Exchange Rate of that Index for that Determination Date on that Final Disrupted Determination Date in good faith and in a commercially reasonable manner, taking into account the latest available quotation for the exchange rate of the relevant Underlying Currency relative to the U.S. dollar and any other information that it deems relevant.

For purposes of this “— Notes Linked to Multiple Underlyings” section, with respect to a Determination Date, unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, the “**Final Disrupted Determination Date**” means the tenth scheduled trading day after that Determination Date, as originally scheduled, for each of the Indices (or, if that tenth scheduled trading day is not the same day for each of the Indices, the latest of those tenth scheduled trading days).

#### ***Additional Defined Terms***

Unless otherwise specified in the relevant terms supplement, a “**Market Disrupted Day**” means, with respect to an Index, a day that is not a trading day with respect to that Index or a day on which a market disruption event occurs or is continuing with respect to that Index.

Unless otherwise specified in the relevant terms supplement, a “**Currency Disrupted Day**” means, with respect to an Index, a day that is not a currency business day with respect to the Underlying Currency of that Index or a day on which a market disruption event occurs or is continuing with respect to the Underlying Currency of that Index.

For additional information about market disruption events, see “The Underlyings” section below.

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, a “**scheduled trading day**” is, with respect to an Index or any relevant successor index, a day, as determined by the calculation agent, on which each of the following exchanges is scheduled to be open for trading for their respective regular trading sessions: (a) the relevant exchanges for securities underlying that Index or successor index, as applicable, and (b) the exchanges on which futures or options contracts related to that Index or successor index, as applicable, are traded.

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, a **“trading day”** is, with respect to an Index or any relevant successor index, a day, as determined by the calculation agent, on which trading is generally conducted on (a) the relevant exchanges for securities underlying that Index or successor index, as applicable, and (b) the exchanges on which futures or options contracts related to that Index or successor index, as applicable, are traded.

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, **“relevant exchange”** means, with respect to an Index or any relevant successor index, the primary exchange or market of trading for any security then included in that Index or successor index, as applicable.

Unless otherwise specified in the relevant terms supplement, a **“currency business day”** is, with respect to an Underlying Currency, a day, as determined by the calculation agent, on which (a) dealings in foreign currency in accordance with the practice of the foreign exchange market occur in the City of New York and the principal financial center for the applicable Underlying Currency, as specified in the relevant terms supplement, (b) banking institutions in the City of New York and those principal financial centers are not otherwise authorized or required by law, regulation or executive order to close and (c) if specified in the relevant terms supplement, the Trans-European Automated Real-time Gross Settlement Express Transfer System (“TARGET2”) is open.

### **Consequences of a Change-in-Law Event**

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, if a change-in-law event occurs, the Issuer will have the right, but not the obligation, to accelerate the payment on the notes. If a change-in-law event occurs and the Issuer chooses to exercise this right, (a) the Issuer will provide, or cause the calculation agent to provide, written notice of the Issuer’s election to exercise this right to the trustee at its New York office, on which notice the trustee may conclusively rely, and to DTC, as holder of the notes, (b) the amount due and payable per note upon early acceleration will be determined by the calculation agent in good faith and in a commercially reasonable manner on the date on which the Issuer (or the calculation agent) delivers notice of acceleration and (c) that amount will be payable on the fifth business day following the date on which the Issuer (or the calculation agent) delivers notice of acceleration, and the maturity date will be accelerated to that fifth business day.

The Issuer will provide, or will cause the calculation agent to provide, written notice to the trustee at its New York office, on which notice the trustee may conclusively rely, and to DTC of the cash amount due with respect to the notes as promptly as possible and in no event later than two business days prior to the date on which payment is due.

A **“change-in-law event,”** unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, means that:

- (a) due to (i) the announcement, adoption of, or any change in, any applicable law, regulation, rule, sanction, directive or order (including, without limitation, relating to any tax law or any financial sanction or embargo program); or (ii) the promulgation of, any change in, or public announcement of, the formal or informal interpretation, application, exercise or operation by any court, tribunal, regulatory authority, exchange or trading facility or any other relevant entity with competent jurisdiction of any applicable law, rule, regulation, order, decision or determination (including any action taken by a taxing or sanctioning authority), in each case occurring on or after the pricing date, the calculation agent determines in good faith that it is likely to be contrary (or upon adoption, it is likely to be contrary) to that law, rule, regulation, order, decision or determination (1) for the Issuer or the holders of the notes to purchase, sell, enter into, maintain, hold, acquire or dispose of the notes or any underlying component to which the notes are linked, (2) for the Issuer to perform its obligations under the terms of the notes or (3) for any Hedging Entity to purchase, sell, enter into, maintain, hold, acquire or dispose of its or its affiliates’ hedge positions; or

- (b) for any reason set forth in (a) above, any Hedging Entity is unable, after using commercially reasonable efforts, to (i) acquire, establish, re-establish, substitute, maintain, unwind or dispose of any transaction(s) or asset(s) that the Hedging Entity deems necessary to hedge the risk (including, but not limited to, stock price and volatility risk) of entering into and performing the Issuer's obligations with respect to the notes, or (ii) realize, recover or remit the proceeds of any of those transaction(s) or asset(s).

**"Hedging Entity"** means the Issuer or any affiliate(s) of the Issuer or any entity (or entities) acting on behalf of the Issuer engaged in any hedging transactions relating to the notes or any Underlying to which the notes are linked in respect of the Issuer's obligations under the notes.

**"Hedge positions"** means one or more (A) positions or contracts in securities, options, futures, derivatives or foreign exchange, (B) stock loan transactions or (C) other instruments or arrangements, in each case, in order to hedge the Issuer's obligations under the notes (in the aggregate on a portfolio basis or incrementally on a trade by trade basis).

Please see "Risk Factors — Risks Relating to the Notes Generally — Governmental legislative and regulatory actions, including sanctions, could adversely affect your investment in the notes and could lead to the early acceleration of your notes" for more information.

## **Events of Default**

Under the heading "Description of Debt Securities — Events of Default and Waivers" in the prospectus is a description of events of default relating to debt securities including the notes.

## **Payment upon an Event of Default**

Unless otherwise specified in the relevant terms supplement, in case an event of default with respect to the notes shall have occurred and be continuing, if the notes do not include an automatic redemption feature, the amount declared due and payable per note upon any acceleration of the notes will be determined by the calculation agent and will be an amount in cash equal to the amount payable at maturity per note calculated in the manner described in the relevant terms supplement and calculated as if the date of acceleration were (a) the final Determination Date and (b) the Final Disrupted Determination Date for the final Determination Date (if the date of acceleration is a Disrupted Day).

Unless otherwise specified in the relevant terms supplement, in case an event of default with respect to the notes shall have occurred and be continuing, if the notes include an automatic redemption feature, the amount declared due and payable per note upon any acceleration of the notes will be determined by the calculation agent and will be (1) if (a) the date of acceleration is a Determination Date for the automatic redemption feature and the conditions for an automatic redemption would have been satisfied on the date of acceleration or (b) the date of acceleration is not a Determination Date for the automatic redemption feature, but the conditions for an automatic redemption would have been satisfied on the date of acceleration if the date of acceleration were the next succeeding Determination Date for the automatic redemption feature, an amount in cash equal to the amount payable upon an automatic redemption per note calculated in the manner described in the relevant terms supplement and calculated as if the date of acceleration were (i) that Determination Date and (ii) the Final Disrupted Determination Date for that Determination Date, or (2) in all other circumstances, an amount in cash equal to the amount payable at maturity per note calculated in the manner described in the relevant terms supplement and calculated as if the date of acceleration were (a) the final Determination Date and (b) the Final Disrupted Determination Date for the final Determination Date (if the date of acceleration is a Disrupted Day).

Unless otherwise specified in the relevant terms supplement, any amount payable as described in the two immediately preceding paragraphs will include any accrued and unpaid interest on the notes; *provided* that any interest payable will be prorated based on the ratio of the actual number of days from and including the previous interest payment date to but excluding the date of acceleration over the

number of days from and including the previous interest payment date to but excluding the next scheduled interest payment date.

If the final value of an Underlying is determined on more than one Determination Date, then, for each Determination Date scheduled to occur after the date of acceleration, the trading days immediately preceding the date of acceleration (in such number equal to the number of the Determination Dates in excess of one) will be the corresponding Determination Dates, unless otherwise specified in the relevant terms supplement.

The amount determined as described above will constitute the final payment on the notes, and no additional amounts will accrue with respect to the notes following the date of acceleration, regardless of any performance of the Underlying(s) following the date of acceleration.

If the maturity of the notes is accelerated because of an event of default as described above, the Issuer will, or will cause the calculation agent to, provide written notice to the trustee at its New York office, on which notice the trustee may conclusively rely, and to DTC, as holder of the notes, of the cash amount due with respect to the notes as promptly as possible and in no event later than two business days after the date of acceleration.

### **Modification**

Under the heading “Description of Debt Securities — Modification of the Indenture” in the prospectus is a description of when the consent of each affected holder of debt securities is required to modify the indenture.

### **Defeasance**

The provisions described in the prospectus under the heading “Description of Debt Securities — Discharge, Defeasance and Covenant Defeasance” are not applicable to the notes, unless otherwise specified in the relevant terms supplement.

### **Listing**

The notes will not be listed on any securities exchange, unless otherwise specified in the relevant terms supplement.

### **Book-Entry Only Issuance — The Depository Trust Company**

DTC will act as securities depository for the notes. The notes will be issued only as fully registered securities registered in the name of Cede & Co. (DTC’s nominee). One or more fully registered global note certificates, representing the total aggregate principal amount of the notes, will be issued and will be deposited with DTC. See the descriptions contained in the prospectus supplement under the heading “Description of Notes — Forms of Notes” and in the prospectus under the heading “Forms of Securities — Book-Entry System.”

### **Registrar, Transfer Agent and Paying Agent**

Payment of amounts due at maturity on the notes will be payable and the transfer of the notes will be registrable at the principal corporate trust office of The Bank of New York Mellon in the City of New York.

The Bank of New York Mellon or one of its affiliates will act as registrar and transfer agent for the notes. The Bank of New York Mellon will also act as paying agent for the notes and may designate additional paying agents.

Registration of transfers of the notes will be effected without charge by or on behalf of The Bank of New York Mellon but upon payment (with the giving of such indemnity as The Bank of New York Mellon may require) in respect of any tax or other governmental charges that may be imposed in relation to it.

## **Governing Law**

The notes will be governed by and interpreted in accordance with the laws of the State of New York.

## **Reopening Issuances**

The Issuer may, in its sole discretion, “reopen” the notes based upon market conditions and the value of the Underlying(s) at that time. The Issuer intends to issue the notes initially in an amount having the aggregate offering price specified on the cover of the relevant terms supplement. However, the Issuer may issue additional notes in amounts that exceed the amount on the cover at any time, without your consent and without notifying you. The notes do not limit the Issuer’s ability to incur other indebtedness or to issue other securities. Also, the Issuer is not subject to financial or similar restrictions by the terms of the notes. These further issuances, if any, will be consolidated to form a single sub-series with the originally issued notes, will have the same CUSIP number and will trade interchangeably with the notes immediately upon settlement. Any notes bearing the same CUSIP number that are issued pursuant to any future additional issuances of notes bearing the same CUSIP number will increase the aggregate principal amount of the outstanding notes of this series. The price of any additional offering will be determined at the time of pricing of that offering.

***The Issuer has no obligation to take your interests into account when deciding whether to issue additional notes. In addition, the Issuer is under no obligation to reopen any series of notes or to issue any additional notes.***



## THE UNDERLYINGS

A separate underlying supplement or the relevant terms supplement will provide additional information relating to any Index. Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, all information regarding any Index, including, without limitation, its make-up, method of calculation and changes in its components, will be derived from publicly available information, without independent verification.

### Adjusted Closing Level of an Index

Unless otherwise specified in the relevant terms supplement, the “**adjusted closing level**” of an Index or any relevant successor index (as defined under “— Discontinuation of an Index; Alteration of Method of Calculation” below) on any relevant day will equal the closing level of that Index or successor index, as applicable, on that day *multiplied* by the Exchange Rate of that Index or successor index, as applicable, on that day.

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, the “**closing level**” of an Index or any relevant successor index on any relevant day will equal the closing level of that Index or successor index, as applicable, as on the applicable page (or any successor page) of Bloomberg Professional® service (“**Bloomberg**”) or any successor service, for that Index or successor index, as applicable. In certain circumstances, the closing level of an Index or any relevant successor index will be based on the alternative calculation of that Index described under “General Terms of Notes — Postponement of a Determination Date” above or “— Discontinuation of an Index; Alteration of Method of Calculation” below.

The closing level and intraday level of an Index as published by Bloomberg or any successor service may be published to greater or fewer decimal places than the official closing level or intraday level of that Index as published by its sponsor. Accordingly, the closing level and intraday level of an Index as published by Bloomberg may be slightly different from the official closing level or intraday level of that Index as published by its sponsor.

Unless otherwise specified in the relevant terms supplement, the “**Exchange Rate**” of an Index or any relevant successor index on any relevant day will be an exchange rate expressed as the amount of U.S. dollars per one unit of the Underlying Currency of that Index or successor index, as applicable, and will be equal to either:

- the number of U.S. dollars per one unit of the Underlying Currency of that Index or successor index, as applicable; or
- one *divided* by the amount of Underlying Currency of that Index or successor index, as applicable, per U.S. dollar,

in each case as reported by Reuters Group PLC (“**Reuters**”) or Bloomberg or any successor service on the relevant page, as specified in the relevant terms supplement, or any substitute Reuters or Bloomberg page; *provided* that if the Underlying Currency of that Index or successor index, as applicable, is U.S. dollars, the Exchange Rate will be equal to 1.0.

The relevant terms supplement will specify the specific Reuters or Bloomberg page to be used and the approximate time of day at which the relevant page will be consulted to determine the Exchange Rate. If a market disruption event or non-currency business day with respect to an Underlying Currency has occurred or is continuing, or a Currency Succession Event with respect to an Underlying Currency or the U.S. dollar has occurred, the method of determining the relevant Exchange Rates may be modified as described under “General Terms of Notes — Postponement of a Determination Date” above and “— Currency Succession Events” below.

## Market Disruption Events for an Index

With respect to an Index (or any relevant successor index), a “**market disruption event**,” unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, means:

- the occurrence or existence of a suspension, absence or material limitation of trading of equity securities then constituting 20% or more of the level of that Index (or that successor index) on the relevant exchanges for those securities for more than two hours of trading during, or during the one-hour period preceding the close of, the principal trading session on that relevant exchange;
- a breakdown or failure in the price and trade reporting systems of any relevant exchange as a result of which the reported trading prices for equity securities then constituting 20% or more of the level of that Index (or that successor index) during the one-hour period preceding the close of the principal trading session on that relevant exchange are materially inaccurate;
- the occurrence or existence of a suspension, absence or material limitation of trading on the primary exchange or market for trading in futures or options contracts related to that Index (or that successor index), if available, for more than two hours of trading during, or during the one-hour period preceding the close of, the principal trading session on that exchange or market; or
- a decision to permanently discontinue trading in those related futures or options contracts,

in each case, as determined by the calculation agent in its sole discretion; and

- a determination by the calculation agent in its sole discretion that the applicable event described above materially interfered with the Issuer’s ability or the ability of any of its affiliates to adjust or unwind all or a material portion of any hedge with respect to the notes.

For purposes of determining whether a market disruption event with respect to an Index (or any relevant successor index) exists at any time, if trading in a security included in that Index (or that successor index) is materially suspended or materially limited at that time, then the relevant percentage contribution of that security to the level of that Index (or that successor index) will be based on a comparison of:

- the portion of the level of that Index (or that successor index) attributable to that security relative to
- the overall level of that Index (or that successor index),

in each case immediately before that suspension or limitation.

For purposes of determining whether a market disruption event with respect to an Index (or any relevant successor index) has occurred, unless otherwise specified in the relevant terms supplement:

- a limitation on the hours or number of days of trading will not constitute a market disruption event if it results from an announced change in the regular business hours of the relevant exchange or the primary exchange or market for trading in futures or options contracts related to that Index (or that successor index);
- limitations pursuant to the rules of any relevant exchange similar to New York Stock Exchange (“NYSE”) Rule 80B (or any applicable rule or regulation enacted or promulgated by any other self-regulatory organization or any government agency of scope similar to NYSE Rule 80B as determined by the calculation agent) on trading during significant market fluctuations will constitute a suspension, absence or material limitation of trading;

- a suspension of trading in futures or options contracts on that Index (or that successor index) by the primary exchange or market for trading in those contracts, if available, by reason of:
  - a price change exceeding limits set by that exchange or market,
  - an imbalance of orders relating to those contracts or
  - a disparity in bid and ask quotes relating to those contracts

will, in each case, constitute a suspension, absence or material limitation of trading in futures or options contracts related to that Index (or that successor index); and

- a “suspension, absence or material limitation of trading” on any relevant exchange or on the primary exchange or market on which futures or options contracts related to that Index (or that successor index) are traded will not include any time when that exchange or market is itself closed for trading under ordinary circumstances.

### **Discontinuation of an Index; Alteration of Method of Calculation**

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, if the sponsor of an Index (an “**Index Sponsor**”) discontinues publication of that Index and that Index Sponsor or another entity publishes a successor or substitute index that the calculation agent determines, in its sole discretion, to be comparable to the discontinued Index (such index being referred to in this product supplement as a “**successor index**”), then from and including an effective date determined by the calculation agent in good faith (with respect to that Index, the “**Successor Date**”):

- the closing level of that Index on any Determination Date, or any other relevant date on which the closing level of that Index is to be determined, will be determined by reference to the level of that successor index published with respect to that day and an adjustment factor determined by the calculation agent in good faith as of the applicable Successor Date, taking into account the closing level of that Index on the trading day immediately preceding the applicable Successor Date; and
- the intraday level, if applicable, of that Index at any time on any Determination Date, or any other relevant date on which the intraday level of that Index is to be determined, will be determined by reference to the level of that successor index as most recently reported by Bloomberg at that time and the adjustment factor.

Upon any selection by the calculation agent of a successor index, the calculation agent will cause written notice thereof to be promptly furnished to the trustee, the Issuer, the Guarantor (if applicable) and DTC, as holder of the notes.

Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, if the Index Sponsor for an Index discontinues publication of that Index prior to, and that discontinuation is continuing on, a Determination Date or any other relevant date on which the closing level of that Index is to be determined, and the calculation agent determines, in its sole discretion, that no successor index for that Index is available at that time, or the calculation agent has previously selected a successor index for that Index and publication of that successor index is discontinued prior to, and that discontinuation is continuing on, that Determination Date or other relevant date, then the calculation agent will determine the closing level of that Index for that Determination Date or that other relevant date on that date. Unless otherwise specified in the relevant terms supplement or any accompanying underlying supplement, the closing level of that Index will be computed by the calculation agent in accordance with the formula for and method of calculating that Index or successor index, as applicable, last in effect prior to that discontinuation using the closing price (or, if trading in the relevant securities has been materially suspended or materially limited, the calculation agent’s good faith estimate of the closing price that would have prevailed but for that suspension or limitation) at the close of the principal trading session on that

date of each security most recently composing that Index or successor index, as applicable. Notwithstanding these alternative arrangements, discontinuation of the publication of an Index or its successor index, as applicable, may adversely affect the value of the notes.

If at any time the method of calculating an Index or a successor index, or the level thereof, is changed in a material respect, or if an Index or a successor index is in any other way modified so that it does not, in the opinion of the calculation agent, fairly represent the level of that Index or successor index, as applicable, had those changes or modifications not been made, then the calculation agent will, at the close of business in the City of New York on each date on which the closing level of that Index or successor index, as applicable, is to be determined, make such calculations and adjustments as, in the good faith judgment of the calculation agent, may be necessary in order to arrive at a level of an index comparable to that Index or successor index, as the case may be, as if those changes or modifications had not been made, and the calculation agent will calculate the closing level of that Index or successor index, as applicable, with reference to that Index or successor index, as adjusted. Accordingly, if the method of calculating an Index or a successor index is modified so that the level of that Index or successor index is a fraction of what it would have been if there had been no such modification (e.g., due to a split in that Index or successor index), then the calculation agent will adjust its calculation of that Index or successor index, as applicable, in order to arrive at a level of that Index or successor index, as applicable, as if there had been no modification (e.g., as if the split had not occurred).

#### **Market Disruption Events for an Underlying Currency Relative to the U.S. Dollar**

Unless otherwise specified in the relevant terms supplement, a “**market disruption event**,” with respect to an Underlying Currency relative to the U.S. dollar, means the occurrence of any of the following with respect to that Underlying Currency relative to the U.S. dollar:

- (a) a Convertibility Event;
- (b) a Deliverability Event (*provided* that a Deliverability Event will not constitute a market disruption event if that Underlying Currency is a Non-Deliverable Currency);
- (c) a Liquidity Event;
- (d) a Taxation Event;
- (e) a Discontinuity Event; or
- (f) a Price Source Disruption Event,

in each case as determined by the calculation agent in its sole discretion and in the case of an event described in clause (a), (b), (c), (d) or (e) above, a determination by the calculation agent in its sole discretion that such event materially interferes with the Issuer’s ability or the ability of any of its affiliates to adjust or unwind all or a material portion of any hedge with respect to the notes.

Unless otherwise specified in the relevant terms supplement, each of the following is a “**Non-Deliverable Currency**”: the Argentine peso, the Brazilian real, the Chilean peso, the Colombian peso, the Indian rupee, the Indonesian rupiah, the Korean won, the Malaysian ringgit, the New Taiwan dollar, the Peruvian nuevo sol and the Philippine peso.

Unless otherwise specified in the relevant terms supplement, a “**Convertibility Event**” with respect to an Underlying Currency relative to the U.S. dollar means an event that, in effect, prevents, restricts or delays (or, in the case of a Non-Deliverable Currency, an event that results in a material change since the pricing date in) a market participant’s ability to:

- convert that Underlying Currency into U.S. dollars or convert U.S. dollars into that Underlying Currency through customary legal channels; or

- convert that Underlying Currency into U.S. dollars at a rate at least as favorable as the rate for domestic institutions located in the Underlying Currency Country or convert U.S. dollars into that Underlying Currency at a rate at least as favorable as the rate for domestic institutions located in the United States.

Unless otherwise specified in the relevant terms supplement, a “**Deliverability Event**” with respect to an Underlying Currency relative to the U.S. dollar means an event that has the effect of preventing, restricting or delaying a market participant from:

- delivering that Underlying Currency from accounts inside the Underlying Currency Country to accounts outside the Underlying Currency Country or delivering U.S. dollars from accounts inside the United States to accounts outside the United States; or
- delivering that Underlying Currency between accounts inside the Underlying Currency Country or to a party that is a non-resident of the Underlying Currency Country or delivering U.S. dollars between accounts inside the United States or to a party that is a non-resident of the United States.

Unless otherwise specified in the relevant terms supplement, a “**Liquidity Event**” with respect to an Underlying Currency relative to the U.S. dollar means the imposition by any Relevant Country (or any political subdivision or regulatory authority thereof) of any capital or currency controls (such as a restriction placed on the holding of assets in or transactions through any account in the Relevant Country by a non-resident of that Relevant Country) (or, in the case of a Non-Deliverable Currency, an event that results in a material change since the pricing date in any capital or currency controls imposed by a Relevant Country), or the publication of any notice of an intention to do so, that the calculation agent determines in good faith and in a commercially reasonable manner is likely to materially affect an investment in that Underlying Currency or U.S. dollars.

Unless otherwise specified in the relevant terms supplement, a “**Taxation Event**” with respect to an Underlying Currency relative to the U.S. dollar means the implementation by a Relevant Country (or any political subdivision or regulatory authority thereof), or the publication of any notice of an intention to implement, any changes to the laws or regulations relating to foreign investment in that Relevant Country, as applicable (including, but not limited to, changes in tax laws and/or laws relating to capital markets and corporate ownership), that the calculation agent determines in good faith in a commercially reasonable manner are likely to materially affect an investment in that Underlying Currency or U.S. dollars.

Unless otherwise specified in the relevant terms supplement, a “**Discontinuity Event**” with respect to an Underlying Currency relative to the U.S. dollar means the pegging or de-pegging of that Underlying Currency relative to the U.S. dollar (or of U.S. dollars relative to that Underlying Currency) or the controlled appreciation or devaluation by the Relevant Country (or any political subdivision or regulatory authority thereof) of that Underlying Currency relative to the U.S. dollar (or U.S. dollars relative to that Underlying Currency), as determined by the calculation agent in good faith and in a commercially reasonable manner.

Unless otherwise specified in the relevant terms supplement, a “**Price Source Disruption Event**” with respect to an Underlying Currency relative to the U.S. dollar means the non-publication or unavailability of the applicable spot rate for that Underlying Currency relative to the U.S. dollar on the applicable Reuters or Bloomberg page (or any substitute page) specified in the relevant terms supplement and at the applicable time specified in the relevant terms supplement for the determination of the Exchange Rate for that Underlying Currency on any date of determination.

## Currency Succession Events

A “**Currency Succession Event**” with respect to an Underlying Currency or the U.S. dollar means the occurrence of either of the following events:

- (a) that Underlying Currency or the U.S. dollar is lawfully eliminated and replaced with, converted into, redenominated as, or exchanged for, another currency; or
- (b) the Relevant Country for that Underlying Currency or the U.S. dollar divides into two or more countries or economic regions, as applicable, each with a different lawful currency immediately after that event.

That Underlying Currency or the U.S. dollar with respect to which a Currency Succession Event has occurred is referred to in this product supplement as the “**Former Currency.**”

On and after the effective date of a Currency Succession Event, the Former Currency will be deemed to be replaced with:

- in the case of clause (a) above, the currency that lawfully replaces the Former Currency, into which the Former Currency is converted or redenominated, or for which the Former Currency is exchanged, as applicable, or
- in the case of clause (b) above, a currency selected by the calculation agent from among the lawful currencies resulting from the division that the calculation agent determines in good faith and in a commercially reasonable manner is most comparable to the Former Currency, taking into account the latest available quotation for the spot rate of the Former Currency relative to the U.S. dollar or the relevant Underlying Currency relative to the Former Currency, as applicable, and any other information that it deems relevant.

The replacement currency determined as described in the bullets above is referred to in this product supplement as the “**Successor Currency.**”

Upon the occurrence of a Currency Succession Event, the Exchange Rate for any Underlying Currency affected by the Currency Succession Event (either because the Currency Succession Event has occurred with respect to that Underlying Currency or because the Currency Succession Event has occurred with respect to the U.S. dollar) on any day prior to the relevant Currency Succession Event will be adjusted so that the new Exchange Rate for that prior day will equal the product of:

- the original Exchange Rate for that prior day; and
- a ratio of the Successor Currency to the Former Currency, which ratio will be calculated on the basis of the exchange rate set forth by the relevant country or economic region of the Former Currency for converting the Former Currency into the Successor Currency on the effective date of the Currency Succession Event, as determined by the calculation agent.

In the event that the exchange rate is not publicly announced by the relevant country or economic region, the Exchange Rate for that prior day will be adjusted by the calculation agent in good faith and in a commercially reasonable manner.

For example, assuming an Underlying Currency is the European Union euro, but a Currency Succession Event occurs and the European Union euro is replaced with the Deutsche mark, if the Exchange Rate for the European Union euro on a relevant day prior to a Currency Succession Event was equal to 1.30 U.S. dollars per European Union euro, the original Exchange Rate for that prior day will be adjusted so that it is expressed in terms of Deutsche marks and U.S. dollars. If the exchange rate set forth by the European Union for converting European Union euros into Deutsche marks on the effective date of the Currency Succession Event is 2.00 Deutsche marks for each European Union euro, the new Exchange Rate for that prior day will be equal to 0.65 U.S. dollars per Deutsche mark (or 1.30 multiplied by the ratio of 1 over 2.00). On and after the effective date of a Currency Succession Event, the Exchange Rate for that Underlying Currency will refer to the Deutsche mark relative to the U.S. dollar.



Notwithstanding the foregoing, if, as a result of a Currency Succession Event, (a) in the case of a Former Currency that is an Underlying Currency, the Successor Currency is the U.S. dollar or (b) in the case of a Former Currency that is the U.S. dollar, a Successor Currency is the same as the relevant Underlying Currency, in lieu of the adjustments to the relevant Exchange Rates described above, the Exchange Rate for the affected Underlying Currency on each relevant day occurring on and after the effective date of that Currency Succession Event will be based on the exchange rate on the date of the Currency Succession Event as announced by the relevant country or economic region (or if that country or economic region has not announced an exchange rate, an exchange rate as determined by the calculation agent in good faith and in a commercially reasonable manner).

Upon the occurrence of a Currency Succession Event, the calculation agent will select in good faith and in a commercially reasonable manner a substitute Reuters or Bloomberg page for purposes of determining the Exchange Rate of any affected Underlying Currencies. To the extent the market convention for quoting the exchange rate for the Successor Currency relative to the U.S. dollar or the Underlying Currency relative to the Successor Currency, as applicable, is different from the market convention for the Underlying Currency relative to the U.S. dollar, the calculation agent will apply all calculations in a manner consistent with the original market convention in accounting for any adjustments resulting from a Currency Succession Event.

## MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES

The following is a discussion of the material U.S. federal income and certain estate tax consequences of owning and disposing of notes. It applies to you only if you are an initial investor who purchases a note at its issue price for cash and holds it as a capital asset within the meaning of Section 1221 of the Internal Revenue Code of 1986, as amended (the “**Code**”).

For U.S. federal income tax purposes, notes issued by JPMorgan Financial will be treated as if they were issued by JPMorgan Chase & Co. Accordingly, throughout this discussion, references to the Issuer are generally to JPMorgan Chase & Co., unless the context otherwise requires.

This discussion does not address all aspects of U.S. federal income and estate taxation that may be relevant to you in light of your particular circumstances, including alternative minimum tax consequences, the consequences to taxpayers subject to special tax accounting rules under Section 451(b) of the Code, the potential application of the provision of the Code known as the Medicare contribution tax and the different consequences that may apply if you are an investor subject to special treatment under the U.S. federal income tax laws, such as:

- a financial institution;
- a “regulated investment company” as defined in Code Section 851;
- a tax-exempt entity, including an “individual retirement account” or “Roth IRA” as defined in Code Section 408 or 408A, respectively;
- a dealer in securities;
- a person holding a note as part of a “straddle,” conversion transaction or integrated transaction, or who has entered into a “constructive sale” with respect to a note;
- a U.S. Holder (as defined below) whose functional currency is not the U.S. dollar;
- a trader in securities who elects to apply a mark-to-market method of tax accounting; or
- a partnership or other entity classified as a partnership for U.S. federal income tax purposes.

If you are a partnership for U.S. federal income tax purposes, the U.S. federal income tax treatment of a partner will generally depend on the status of the partner and your activities.

The Issuer will not attempt to ascertain whether any issuer of a share or other ownership interest underlying an Index (each, an “**Underlying Issuer**”) should be treated as a “United States real property holding corporation” (a “**USRPHC**”) within the meaning of Section 897 of the Code or a “passive foreign investment company” (a “**PFIC**”) within the meaning of Section 1297 of the Code. If any Underlying Issuer were so treated, certain adverse U.S. federal income tax consequences might apply to you, in the case of a USRPHC if you are a Non-U.S. Holder (as defined below), and in the case of a PFIC if you are a U.S. Holder, upon a sale, exchange or other disposition of your notes.

This discussion is based on the Code, administrative pronouncements, judicial decisions and final, temporary and proposed Treasury regulations as of the date of this product supplement, changes to any of which, subsequent to the date hereof, may affect the tax consequences described herein. The effects of any applicable state, local or non-U.S. tax laws are not discussed. **You should consult your tax adviser concerning the application of U.S. federal income and estate tax laws to your particular situation (including the possibility of alternative treatments of the notes), as well as any tax consequences arising under the laws of any state, local or non-U.S. jurisdiction.**

## Tax Treatment of the Notes

The tax consequences of an investment in the notes are unclear. There is no direct legal authority as to the proper U.S. federal income tax treatment of the notes, and the Issuer does not intend to request a ruling from the IRS regarding the notes. The tax treatment of the notes for U.S. federal income tax purposes will depend upon the facts at the time of the relevant offering. At the time of the relevant offering, the Issuer may seek an opinion of counsel regarding the tax consequences of owning and disposing of the notes. In this event, whether or not counsel is able to opine regarding the correctness of the treatment the Issuer intends to apply to a particular offering of notes, the Issuer generally expects that counsel will be able to opine that the tax consequences described in the applicable sections below are the material tax consequences of owning and disposing of the notes if that treatment is respected, as well as material tax consequences that may apply if it is not respected.

The following discussion assumes the treatment described in an applicable section below is respected, except where otherwise indicated. The relevant terms supplement may indicate consequences different from those described herein and also may identify other issues applicable to a particular offering of notes.

## Tax Consequences to U.S. Holders

You are a “**U.S. Holder**” if for U.S. federal income tax purposes you are a beneficial owner of a note that is:

- a citizen or individual resident of the United States;
- a corporation, created or organized in or under the laws of the United States, any state therein or the District of Columbia; or
- an estate or trust the income of which is subject to U.S. federal income taxation regardless of its source.

### ***Notes Treated as Open Transactions That Are Not Debt Instruments***

The following describes the material U.S. federal income tax consequences of the ownership and disposition of notes that the Issuer treats as “open transactions” that are not debt instruments for U.S. federal income tax purposes. The relevant terms supplement will indicate whether the Issuer intends to treat the notes as open transactions that are not debt instruments for U.S. federal income tax purposes.

***Tax Treatment as Open Transactions That Are Not Debt Instruments.*** Under this treatment, you should not recognize taxable income or loss other than pursuant to a sale or exchange (including acceleration, early redemption or repurchase, “deemed” taxable exchange, as described below, or maturity). Upon a sale or exchange of a note, you should recognize gain or loss equal to the difference between the amount realized on the sale or exchange and your tax basis in the note, which should equal the amount you paid to acquire it. Subject to the discussion below concerning the potential application of the “constructive ownership” rules under Section 1260 of the Code, this gain or loss should be long-term capital gain or loss if you have held the note for more than one year at that time. The deductibility of capital losses is subject to limitations. Depending on the nature of the Underlying, the IRS might assert that a “deemed” taxable exchange has occurred under certain circumstances. The relevant terms supplement may contain additional disclosure regarding this risk.

***Potential Application of the Constructive Ownership Rules.*** If a “pass-thru entity” (as defined in the Code) is a component of an Underlying, the notes could be treated as “constructive ownership transactions” within the meaning of Section 1260 of the Code, in which case the tax consequences of a sale or exchange of the notes could be affected materially and adversely. If a note were treated in whole or in part as a constructive ownership transaction, all or a portion of any long-term capital gain you would otherwise recognize on a sale or exchange of the note would be recharacterized as ordinary income to

the extent such gain exceeded the “net underlying long-term capital gain.” Under Section 1260, the net underlying long-term capital gain is generally the net long-term capital gain a taxpayer would have recognized by investing in the underlying pass-thru entity at the inception of the constructive ownership transaction and selling that investment on the date the constructive ownership transaction is closed (*i.e.*, at maturity or earlier disposition). If Section 1260 were to apply to a note, it is uncertain how the net underlying long-term capital gain would be computed. It is possible, for instance, if an Underlying is an Index that consists solely of interests in pass-thru entities, that the net underlying long-term capital gain could equal the amount of long-term capital gain you would have recognized if on the issue date you had invested the amount you paid to acquire the note in interests in the relevant pass-thru entities and sold those interests for their fair market value on the date your note is sold or exchanged. Unless otherwise established by clear and convincing evidence, the amount of net underlying long-term capital gain is treated as zero. Any long-term capital gain recharacterized as ordinary income under Section 1260 would be treated as accruing at a constant rate over the period you held the note, and you would be subject to a notional interest charge in respect of the deemed tax liability on the income treated as accruing in prior tax years. In addition, if you are an individual or other non-corporate taxpayer, and if a pass-thru entity that is a component of an Underlying holds one of certain commodities and other conditions are met, it is possible that the long-term capital gain that you would otherwise recognize, up to the amount of the net underlying long-term capital gain, could be subject to tax at the higher rate applicable to “collectibles” rather than the rate applicable to long-term capital gain. Unless otherwise indicated in the relevant terms supplement, if a pass-thru entity is an Underlying, due to the lack of governing authority and the fact-sensitive nature of the analysis under Section 1260, the Issuer does not expect that counsel will be able to opine as to whether or how these rules would apply to your notes. You should consult your tax adviser regarding the potential application of the constructive ownership rules.

*Uncertainties Regarding Tax Treatment as Open Transactions That Are Not Debt Instruments.* If the notes are treated as open transactions that are not debt instruments, due to the lack of controlling authority there remain significant additional uncertainties regarding the tax consequences of owning and disposing of them. For instance, you might be required to include amounts in income during the term of your notes and/or to treat all or a portion of the gain or loss on the sale or exchange of your notes as ordinary income or loss or as short-term capital gain or loss, without regard to how long you have held them. In addition, in 2007 Treasury and the IRS released a notice requesting comments on the U.S. federal income tax treatment of “prepaid forward contracts” and similar instruments. The notice focuses in particular on whether to require investors in these instruments to accrue income over the term of their investment. It also asks for comments on a number of related topics, including the character of income or loss with respect to these instruments; the relevance of factors such as the nature of the underlying property to which the instruments are linked; and whether these instruments are or should be subject to the “constructive ownership” regime described above. While the notice requests comments on appropriate transition rules and effective dates, any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect.

*Tax Consequences if Treated as Debt Instruments.* If the notes are treated as debt instruments, your tax consequences are expected to be governed by Treasury regulations relating to the taxation of “contingent payment debt instruments” if the term of the notes from issue to maturity (excluding the issue date, but including the last possible date that the notes could be outstanding) is more than one year. In this event, regardless of whether you are an accrual-method or cash-method taxpayer, (i) in each year that you hold your notes, you will be required to accrue into income original issue discount (“OID”) on your notes at the Issuer’s “comparable yield” for similar noncontingent debt, determined at the time of the issuance of the notes (even though you will not receive any cash with respect to the notes prior to maturity) and (ii) any income recognized upon a sale or exchange of your notes generally will be treated as interest income. Additionally, if you recognize a loss above certain thresholds, you might be required to file a disclosure statement with the IRS.

### *Possible Taxable Event*

It is possible that a material change to the terms of a series of notes (which might include a reorganization event, a change in the components of an Index, the designation of a successor equity index, or other similar circumstances) could result in the notes being treated as terminated and reissued for U.S. federal income tax purposes (a **“taxable event”**). In that event, you might be required to recognize gain or loss (subject to the possible application of the wash sale rules) with respect to your notes, and your holding period for your notes could be affected. Moreover, depending on the facts at the time of the taxable event, the reissued notes could be characterized for U.S. federal income tax purposes in a manner different from their original treatment, which could have material and potentially adverse consequences with respect to the timing and character of income that you recognize with respect to your notes following the taxable event. You should consult your tax adviser regarding the consequences of a taxable event with respect to the notes.

### *Notes Treated as Units Each Comprising a Put Option and a Deposit*

The following describes the material U.S. federal income tax consequences of the ownership and disposition of notes that are treated as units comprising a put option and a deposit for U.S. federal income tax purposes. The relevant terms supplement will indicate whether the Issuer intends to treat the notes as units each comprising a put option and a deposit for U.S. federal income tax purposes. Unless otherwise indicated in the relevant terms supplement, insofar as the Issuer has tax reporting responsibilities with respect to these notes, the Issuer expects (in the absence of an administrative determination or judicial ruling to the contrary) to treat them for U.S. federal income tax purposes as units each comprising (i) a put option written by you (a **“Put Option”**) that is terminated if an early redemption occurs and that, if not terminated, in circumstances where the payment due at maturity is less than \$1,000 (excluding amounts attributable to accrued but unpaid interest), requires you to receive the cash value of the Underlying in exchange for \$1,000 and (ii) a deposit of \$1,000 per \$1,000 principal amount note to secure your potential obligation under the Put Option (the **“Deposit”**). Under this approach, a portion of each interest payment (including at maturity) made with respect to the notes will be treated as interest on the Deposit, and the remainder as premium paid to you in consideration of your entry into the Put Option (a **“Put Premium”**). The Issuer will specify in the relevant terms supplement the portion of each interest payment that the Issuer will allocate to interest on the Deposit and to Put Premium, respectively.

### *Notes with a Term of Not More than One Year*

If the term of the notes (including either the issue date or the last possible date that the notes could be outstanding, but not both) is not more than one year, the following discussion applies.

**Tax Treatment of Interest Payments.** Because the term of the notes is not more than one year, the Deposit will be treated as a short-term obligation for U.S. federal income tax purposes. Under the applicable Treasury regulations, the Deposit will be treated as being issued at a discount equal to the sum of all interest payments to be made with respect to the Deposit. Accordingly, accrual-method holders, and cash-method holders who so elect, will be required to include the discount in income as it accrues on a straight-line basis, unless they elect to accrue the discount using a constant-yield method based on daily compounding. Cash-method holders who do not elect to accrue the discount in income currently will be required to include interest paid on the Deposit upon its receipt. Additionally, cash-method holders who do not elect to accrue the discount in income currently will be required to defer deductions for interest paid on any indebtedness incurred to purchase or carry their notes in amounts not exceeding accrued discount that has not been included in income.

Put Premium will be taken into account as described below.

**Sale or Exchange of a Note.** Upon sale or exchange of a note prior to maturity (including upon acceleration, early redemption or repurchase), subject to the discussion below regarding non-electing cash-method taxpayers, you generally will be required to recognize an amount of short-term capital gain

or loss equal to the difference between (i) the proceeds received and (ii) the purchase price you paid for the note plus accrued but unpaid discount included in income minus the total Put Premium you have received from the Issuer. This amount represents the net of the gain or loss attributable to the termination of the Put Option and the gain or loss attributable to the sale of the Deposit. Notwithstanding the above, if you are a cash-method taxpayer who has not elected to accrue the discount in income currently, you will recognize an amount of ordinary income equal to the lesser of the accrued but unpaid discount on the Deposit and your gain on the Deposit (generally, the proceeds attributable to the Deposit minus the amount you paid to acquire it), and this amount will reduce your short-term capital gain or increase your short-term capital loss, as described above. You should consult your tax adviser regarding the separate determination of gain or loss with respect to the Put Option and the Deposit.

***Tax Treatment at Maturity or Early Redemption.*** If a note is redeemed early or held to maturity and the Put Option expires unexercised (*i.e.*, you receive a cash payment at maturity equal to the amount of the Deposit plus the final interest payment, which will be treated as described above), you will recognize short-term capital gain equal to the sum of all Put Premium payments received.

If a note is held to maturity and the Put Option is exercised (*i.e.*, you receive a cash payment at maturity that is less than the amount of the Deposit (the “**Settlement Payment**”) excluding the final interest payment, which should be treated as described above), you will be deemed to have applied a portion of the Deposit toward the cash settlement of the Put Option. In that case, you will recognize short-term capital gain or loss in an amount equal to the difference between (i) the Settlement Payment plus the total Put Premium received and (ii) the Deposit.

***Other Possible Tax Treatments.*** The IRS might treat the notes as indivisible debt instruments, despite the uncertainty as to what you will receive at maturity. In this event, while they would be subject to the general rules applicable to the Deposit that are described above, a number of aspects of this treatment would be uncertain because the amount due at maturity is not fixed. In addition, you could be subject to special reporting requirements if any loss exceeded certain thresholds.

Alternatively, the notice described above in “— Notes Treated as Open Transactions That Are Not Debt Instruments — Uncertainties Regarding Tax Treatment as Open Transactions That Are Not Debt Instruments” may apply to your notes. While it is not entirely clear whether the notes would be viewed as similar to the typical prepaid forward contract described in the notice, or whether the scope of the notice extends to short-term instruments such as the notes, it is possible that any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect. The notice focuses on a number of issues, the most relevant of which for U.S. Holders of short-term notes are the timing and character of income or loss (including whether the Put Premium might be currently included as ordinary income). You should consult your tax adviser regarding the U.S. federal income tax consequences of an investment in the notes, including possible alternative treatments and the issues presented by this notice.

***Possible Taxable Event.*** It is possible that a material change to the terms of a series of notes could result in a taxable event, as defined and described above in “— Notes Treated as Open Transactions That Are Not Debt Instruments — Possible Taxable Event.”

#### ***Notes with a Term of More than One Year***

If the term of the notes (including either the issue date or the last possible date that the notes could be outstanding, but not both) is more than one year, the following discussion applies.

***Tax Treatment of Interest Payments.*** Interest paid with respect to the Deposit will be taxable to you as ordinary income at the time it accrues or is received, in accordance with your method of accounting for U.S. federal income tax purposes.

Put Premium will be taken into account as described below.



***Sale or Exchange of a Note.*** Upon sale or exchange of a note prior to maturity, you will be treated as receiving a payment of interest equal to any accrued but unpaid interest on the Deposit, which will be treated as described above. The Deposit will be treated as sold for its fair market value, excluding any accrued but unpaid interest. The amount of capital gain or loss on the Deposit will equal the amount realized that is attributable to the Deposit, minus your tax basis in the Deposit. That gain or loss will be long-term capital gain or loss if the note was held for more than one year.

If the value of the Deposit on the date of sale or exchange of a note is less than the amount realized on the sale or exchange of the note, any amount realized that is attributable to the Put Option, together with the total Put Premium received over the term of the notes, will be treated as short-term capital gain or loss.

If the value of the Deposit on the date of sale or exchange exceeds the amount realized on the sale or exchange of the note, you will be treated as having (i) sold or exchanged the Deposit for an amount equal to its value on that date and (ii) made a payment to the purchaser of the note equal to the amount of this excess, in exchange for the purchaser's assumption of the Put Option. In this case, you will be required to recognize short-term capital gain or loss in respect of the Put Option equal to the total Put Premium received over the term of the note minus the amount deemed to be paid by you in exchange for the purchaser's assumption of the Put Option.

***Tax Treatment at Maturity or Early Redemption.*** If a note is redeemed early or held to maturity and the Put Option expires unexercised (*i.e.*, you receive a cash payment at maturity equal to the amount of the Deposit plus the final interest payment, which will be treated as described above), you will recognize short-term capital gain equal to the sum of all Put Premium payments received.

If you receive the Settlement Payment (plus the final interest payment, which will be treated as interest as described above), you will be deemed to have applied a portion of the Deposit toward the cash settlement of the Put Option. In that case, you will recognize short-term capital gain or loss in an amount equal to the difference between (i) the Settlement Payment plus the total Put Premium received and (ii) the Deposit.

***Other Possible Tax Treatments.*** The IRS might treat the notes as "contingent payment debt instruments." In that event, regardless of whether you are an accrual-method or cash-method taxpayer, (i) in each year that you hold your notes, you will be required to accrue into income original issue discount on your notes at the Issuer's "comparable yield" for similar noncontingent debt, determined at the time of the issuance of the notes and (ii) any income recognized at maturity or upon sale or exchange of your notes generally will be treated as interest income. In addition, you could be subject to special reporting requirements if any loss exceeded certain thresholds.

Alternatively, the notice described above in "— Notes with a Term of Not More than One Year — Other Possible Tax Treatments" may apply to your notes. While it is not entirely clear whether the notes would be viewed as similar to the typical prepaid forward contract described in the notice, it is possible that any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect. The notice focuses on a number of issues, the most relevant of which for U.S. Holders of the notes are the timing and character of income or loss (including whether the Put Premium might be currently included as ordinary income). You should consult your tax adviser regarding the U.S. federal income tax consequences of an investment in the notes, including possible alternative treatments and the issues presented by this notice.

*Possible Taxable Event.* It is possible that a material change to the terms of a series of notes could result in a taxable event, as defined and described above in “— Notes Treated as Open Transactions That Are Not Debt Instruments — Possible Taxable Event.”

### ***Notes Treated as Prepaid Forward Contracts with Associated Contingent Coupons***

The following describes the material U.S. federal income tax consequences of owning and disposing of notes that the Issuer treats as prepaid forward contracts with associated contingent coupons for U.S. federal income tax purposes (“**Contingent Interest Notes**”). The relevant terms supplement will indicate whether the Issuer intends to treat an offering of notes as Contingent Interest Notes. Unless otherwise indicated in the relevant terms supplement, insofar as the Issuer has tax reporting responsibilities with respect to these notes, the Issuer intends to treat them as prepaid forward contracts with associated contingent coupons for U.S. federal income tax purposes.

*Tax Treatment of Contingent Interest Payments.* Although the U.S. federal income tax treatment of contingent interest payments (including any contingent interest payment made in connection with an acceleration, early redemption or repurchase or at maturity) is uncertain, the Issuer expects (in the absence of an administrative determination or judicial ruling to the contrary) to treat any contingent interest payments with respect to the notes as ordinary income, unless otherwise indicated in the relevant terms supplement.

*Sale or Exchange of a Note.* Upon a sale or exchange of a note (including an acceleration, early redemption or repurchase or at maturity), you should recognize capital gain or loss equal to the difference between the amount realized on the sale or exchange and your tax basis in the note, which should equal the amount you paid to acquire the note (assuming contingent interest payments are properly treated as ordinary income, consistent with the position described above). This gain or loss should be long-term capital gain or loss if you have held the note for more than one year at that time. The deductibility of capital losses is subject to limitations. If you sell your note between the time your right to a contingent interest payment is fixed and the time it is paid, it is likely that you will be treated as receiving ordinary income equal to the contingent interest payment. Although uncertain, it is possible that proceeds received from the sale or exchange of your note prior to a Determination Date but that can be attributed to an expected contingent interest payment could be treated as ordinary income. You should consult your tax adviser regarding this issue.

*Uncertainties Regarding Tax Treatment as Prepaid Forward Contracts with Associated Contingent Coupons.* If the notes are treated as prepaid forward contracts with associated contingent coupons, due to the lack of controlling authority there remain significant uncertainties regarding the tax consequences of owning and disposing of them. For instance, you might be required to include amounts in income during the term of your notes in addition to the contingent interest payments you receive, and/or to treat all or a portion of the gain or loss on the sale or exchange of your notes (in addition to any amounts attributable to an unpaid contingent interest payment, as discussed above) as ordinary income or loss or as short-term capital gain or loss, without regard to how long you have held them.

Alternatively, the notice described above in “— Notes Treated as Open Transactions That Are Not Debt Instruments — Uncertainties Regarding Tax Treatment as Open Transactions That Are Not Debt Instruments” may apply to your notes. While it is not entirely clear whether the notes would be viewed as similar to the typical prepaid forward contract described in the notice, it is possible that any Treasury regulations or other guidance promulgated after consideration of these issues could materially affect the tax consequences of an investment in the notes, possibly with retroactive effect. You should consult your tax adviser regarding the U.S. federal income tax consequences of an investment in the notes, including possible alternative treatments and the issues presented by this notice.

*Tax Consequences if Treated as Debt Instruments.* If the notes are treated as debt instruments, your tax consequences are expected to be governed by Treasury regulations relating to the taxation of “contingent payment debt instruments” if the term of the notes from issuance to maturity (excluding the issue date, but including the last possible date that the notes could be outstanding) is more than one

year. In this event, regardless of whether you are an accrual-method or cash-method taxpayer, in each year that you hold your notes, you will be required to accrue into income original issue discount on your notes at the Issuer's "comparable yield" for similar noncontingent debt, determined at the time of the issuance of the notes, subject to certain adjustments, with the result that your taxable income in any year could differ significantly from the contingent interest payments (if any) you receive in that year. In addition, any gain recognized upon a sale or exchange of your notes generally will be treated as interest income, and if you recognize a loss above certain thresholds, you might be required to file a disclosure statement with the IRS.

*Possible Taxable Event.* It is possible that a material change to the terms of a series of notes could result in a taxable event, as defined and described above in "— Notes Treated as Open Transactions That Are Not Debt Instruments — Possible Taxable Event."

### **Tax Consequences to Non-U.S. Holders**

You are a "**Non-U.S. Holder**" if for U.S. federal income tax purposes you are a beneficial owner of a note that is:

- a nonresident alien individual;
- a foreign corporation; or
- a foreign estate or trust.

You are not a Non-U.S. Holder for purposes of this discussion if you are an individual present in the United States for 183 days or more in the taxable year of disposition of a note. In this case, you should consult your tax adviser regarding the U.S. federal income tax consequences of the sale or exchange of a note (including upon acceleration, early redemption or repurchase or at maturity).

Subject to the discussions below, any income or gain from a note that the Issuer treats as (i) an open transaction that is not a debt instrument or (ii) a unit comprising a Put Option and a Deposit should not be subject to U.S. federal income tax (including withholding tax) if you provide a properly completed applicable IRS Form W-8 and these amounts are not effectively connected with your conduct of a U.S. trade or business.

However, among the issues addressed in the notice described above in "— Tax Consequences to U.S. Holders — Notes Treated as Open Transactions That Are Not Debt Instruments — Uncertainties Regarding Tax Treatment as Open Transactions That Are Not Debt Instruments" is the degree, if any, to which income with respect to instruments described therein should be subject to U.S. withholding tax. It is possible that any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the withholding tax consequences of an investment in a note that is treated as an open transaction that is not a debt instrument or as a Put Option and Deposit, possibly with retroactive effect.

The U.S. federal income tax treatment of Contingent Interest Notes is uncertain, and although we believe it is reasonable to take a position that Contingent Interest Payments are not subject to U.S. withholding tax (at least if an applicable Form W-8 is provided), it is expected that withholding agents will (and we, if we are the withholding agent, intend to) withhold on any Contingent Interest Payment paid to a Non-U.S. Holder generally at a rate of 30% or at a reduced rate specified by an applicable income tax treaty under an "other income" or similar provision. We will not be required to pay any additional amounts with respect to amounts withheld. In order to claim an exemption from, or a reduction in, the 30% withholding tax, a Non-U.S. Holder of the notes must comply with certification requirements to establish that it is not a U.S. person and is eligible for such an exemption or reduction under an applicable tax treaty. If you are a Non-U.S. Holder, you should consult your tax adviser regarding the tax treatment of the notes, including the possibility of obtaining a refund of any withholding tax and the certification requirement described above.

If you are engaged in a U.S. trade or business, and if income or gain from a note is effectively connected with your conduct of that trade or business (and, if an applicable income tax treaty so requires, is attributable to a permanent establishment in the United States), although exempt from the withholding tax discussed above, you generally will be taxed in the same manner as a U.S. Holder with respect to that income. You will not be subject to withholding in this case if you provide a properly completed IRS Form W-8ECI. If this paragraph applies to you, you should consult your tax adviser with respect to other U.S. tax consequences of owning and disposing of notes, including the possible imposition of a 30% branch profits tax if you are a corporation.

Regulations under Section 871(m) impose a 30% withholding tax on certain “dividend equivalents” paid or deemed paid with respect to derivatives linked to U.S. stocks or indices that include U.S. stocks under certain circumstances, even in cases where the derivatives do not provide for payments explicitly linked to dividends. In general, this withholding regime applies to derivatives that substantially replicate the economic performance of one or more underlying U.S. stocks, as determined on the derivatives’ issue date, based on one of two tests set forth in the regulations. The regulations provide certain exceptions to the withholding requirements, for example for derivatives linked to certain broad-based indices. Additionally, an IRS notice excludes from the scope of Section 871(m) instruments issued prior to January 1, 2025 that do not have a delta of one with respect to underlying securities that could pay U.S.-source dividends for U.S. federal income tax purposes.

The Issuer will disclose further information regarding the application of Section 871(m) in the relevant terms supplement. The Issuer’s determination as to whether Section 871(m) applies to a series of notes is binding on Non-U.S. Holders, but it is not binding on the IRS. The Section 871(m) regulations require complex calculations to be made with respect to derivatives linked to U.S. stocks, and their application to a specific series of notes may be uncertain. Accordingly, even if the Issuer determines that Section 871(m) does not apply to a series of notes, the IRS could challenge the Issuer’s determination and assert that withholding is required in respect of those notes. Additionally, the application of Section 871(m) may be affected by a Non-U.S. Holder’s particular circumstances (for example, where a Non-U.S. Holder enters into two or more transactions that reference the same underlying security and the transactions were entered into in connection with each other). You should consult your tax adviser regarding the potential application of Section 871(m) to a series of notes.

The Issuer will not pay additional amounts with respect to any withholding taxes.

### ***Federal Estate Tax***

Individual Non-U.S. Holders, and entities the property of which is potentially includible in those individuals’ gross estates for U.S. federal estate tax purposes (for example, a trust funded by such an individual and with respect to which the individual has retained certain interests or powers), should note that, absent an applicable treaty benefit, a note is likely to be treated as U.S.-situs property, subject to U.S. federal estate tax. These individuals and entities should consult their tax advisers regarding the U.S. federal estate tax consequences of investing in a note.

### **Backup Withholding and Information Reporting**

You may be subject to information reporting. You may also be subject to backup withholding on payments in respect of your notes unless you provide proof of an applicable exemption or a correct taxpayer identification number and otherwise comply with applicable requirements of the backup withholding rules. If you are a Non-U.S. Holder, you will not be subject to backup withholding if you provide a properly completed IRS Form W-8 appropriate to your circumstances. Amounts withheld under the backup withholding rules are not additional taxes, and may be refunded or credited against your U.S. federal income tax liability, provided the required information is furnished to the IRS.

## FATCA

Legislation commonly referred to as “FATCA,” and regulations promulgated thereunder, generally impose a 30% withholding tax on payments to certain non-U.S. entities (including financial intermediaries) unless various U.S. information reporting and due diligence requirements have been satisfied. An intergovernmental agreement between the United States and the non-U.S. entity’s jurisdiction may modify these requirements. This regime may apply to amounts properly treated as interest or other “fixed or determinable annual or periodical” income (“**FDAP Income**”) for U.S. federal income tax purposes paid with respect to a note including “dividend equivalents” (as described above). If a note is treated in whole or in part as indebtedness or if it gives rise to “dividend equivalents,” withholding could also apply to payments of gross proceeds of a taxable disposition, including early redemption or repurchase, acceleration or redemption at maturity. However, under regulations proposed in 2018 (the preamble to which specifies that taxpayers are permitted to rely on them pending finalization), no withholding will apply to payments of gross proceeds (other than any amount treated as FDAP Income). You should consult your tax adviser regarding the potential application of FATCA to the notes.

The Issuer will not pay any additional amounts with respect to any withholding tax.

**THE TAX CONSEQUENCES TO YOU OF OWNING AND DISPOSING OF NOTES ARE UNCERTAIN. YOU SHOULD CONSULT YOUR TAX ADVISER REGARDING THE TAX CONSEQUENCES OF OWNING AND DISPOSING OF NOTES, INCLUDING THE TAX CONSEQUENCES UNDER STATE, LOCAL AND NON-U.S. TAX LAWS AND THE POSSIBLE EFFECTS OF CHANGES IN U.S. FEDERAL OR OTHER TAX LAWS.**

## PLAN OF DISTRIBUTION (CONFLICTS OF INTEREST)

Under (a) the terms and subject to the conditions contained in the Master Agency Agreement entered into between JPMorgan Chase & Co., as issuer, and J.P. Morgan Securities LLC, as agent (with respect to notes issued by JPMorgan Chase & Co., an “**Agent**” or “**JPMS**”), and certain other agents that are or may become party to that Master Agency Agreement, as amended or supplemented, from time to time (with respect to notes issued by JPMorgan Chase & Co., each an “**Agent**” and collectively with JPMS, the “**Agents**”) and (b) the terms and subject to the conditions contained in the Master Agency Agreement entered into among JPMorgan Financial, as issuer, JPMorgan Chase & Co., as guarantor, and J.P. Morgan Securities LLC, as agent (with respect to notes issued by JPMorgan Financial, an “**Agent**” or “**JPMS**”), and certain other agents that are or may become party to that Master Agency Agreement, as amended or supplemented, from time to time (with respect to notes issued by JPMorgan Financial, each an “**Agent**” and collectively with JPMS, the “**Agents**”), JPMS has agreed and any additional Agents will agree to use reasonable efforts to solicit offers to purchase the principal amount of notes set forth in the cover page of the relevant terms supplement.

The Issuer will have the sole right to accept offers to purchase the notes and may reject any offer in whole or in part. Each Agent may reject, in whole or in part, any offer it solicited to purchase notes. The Issuer will pay an Agent, in connection with sales of these notes resulting from a solicitation that Agent made or an offer to purchase that Agent received, a commission as set forth in the relevant terms supplement. An Agent will allow a concession to other dealers, or the Issuer may pay other fees, in the amount set forth on the cover page of the relevant terms supplement.

The Issuer may also sell notes to an Agent as principal for its own account at discounts to be agreed upon at the time of sale as disclosed in the relevant terms supplement. That Agent may resell notes to investors and other purchasers at a fixed offering price or at prevailing market prices, or prices related thereto at the time of resale or otherwise, as that Agent determines and as the Issuer will specify in the relevant terms supplement. An Agent may offer the notes it has purchased as principal to other dealers. That Agent may sell the notes to any dealer at a discount and, unless otherwise specified in the relevant terms supplement, the discount allowed to any dealer will not be in excess of the discount that Agent will receive from the Issuer. After the initial public offering of notes that the Agent is to resell on a fixed public offering price basis, the Agent may change the public offering price, concession and discount.

The Issuer’s and the Guarantor’s (if applicable) affiliates, including JPMS, may use this product supplement, any accompanying underlying supplement and the prospectus supplement, prospectus or terms supplement in connection with offers and sales of the notes in the secondary market. JPMS or another Agent may act as principal or agent in connection with offers and sales of the notes in the secondary market. Secondary market offers and sales will be made at prices related to market prices at the time of that offer or sale; accordingly, the Agents or a dealer may change the public offering price, concession and discount after the offering has been completed.

Unless otherwise specified in the relevant terms supplement, there is currently no public trading market for the notes. In addition, unless otherwise specified in the relevant terms supplement, the Issuer has not applied and does not intend to apply to list the notes on any securities exchange or to have the notes quoted on a quotation system. JPMS may act as a market-maker for the notes. However, JPMS is not obligated to do so and may discontinue any market-making in the notes at any time in its sole discretion. Therefore, there are no assurances that a liquid trading market for the notes will develop, that you will be able to sell your notes at a particular time or that the price you receive if you sell your notes will be favorable.

In connection with an offering of the notes, JPMS may engage in overallotment, stabilizing transactions and syndicate covering transactions in accordance with Regulation M under the Securities Exchange Act of 1934. Overallotment involves sales in excess of the offering size, which create a short position for JPMS. Stabilizing transactions involve bids to purchase the notes in the open market for the purpose of pegging, fixing or maintaining the price of the notes. Syndicate covering transactions involve purchases of the notes in the open market after the distribution has been completed in order to cover



short positions. Stabilizing transactions and syndicate covering transactions may cause the price of the notes to be higher than it would otherwise be in the absence of those transactions. If JPMS engages in stabilizing or syndicate covering transactions, it may discontinue them at any time.

Certain of the Agents engage in transactions with and perform services for the Issuer, the Guarantor (if applicable) and their affiliates in the ordinary course of business.

No action has been or will be taken by the Issuer, the Guarantor (if applicable), JPMS or any dealer that would permit a public offering of the notes or possession or distribution of this product supplement, any accompanying underlying supplement or the prospectus supplement, prospectus or terms supplement, other than in the United States, where action for that purpose is required. No offers, sales or deliveries of the notes, or distribution of the relevant terms supplement, this product supplement, any underlying supplement, the prospectus supplement or the prospectus or any other offering material relating to the notes, may be made in or from any jurisdiction except in circumstances which will result in compliance with any applicable laws and regulations and will not impose any obligations on the Issuer, the Guarantor (if applicable), the Agents or any dealer.

Each Agent has represented and agreed that it will not offer or sell the notes in any non-U.S. jurisdiction (i) if that offer or sale would not be in compliance with any applicable law or regulation or (ii) if any consent, approval or permission is needed for that offer or sale by that Agent or for or on the Issuer's or the Guarantor's (if applicable) behalf, unless the consent, approval or permission has been previously obtained. The Issuer and the Guarantor (if applicable) will have no responsibility for, and the applicable Agent will obtain, any consent, approval or permission required by that Agent for the subscription, offer, sale or delivery by that Agent of the notes, or the distribution of any offering materials, under the laws and regulations in force in any non-U.S. jurisdiction to which that Agent is subject or in or from which that Agent makes any subscription, offer, sale or delivery. For additional information regarding selling restrictions, please see "Notice to Investors; Selling Restrictions" in the accompanying prospectus supplement.

Under Rule 15c6-1 of the Exchange Act, trades in the secondary market generally are required to settle in two business days, unless the parties to that trade expressly agree otherwise. Effective on May 28, 2024 (the "**settlement cycle effective date**"), the standard settlement cycle under Rule 15c6-1 will be shortened from two business days to one business day. The Issuer expects that delivery of the notes will be made against payment for the notes on the settlement date specified in the relevant terms supplement, which may be more than two business days (or, on or after the settlement cycle effective date, one business day) following the pricing date specified in the relevant terms supplement. Accordingly, if the initial settlement of the notes occurs more than two business days (or, on or after the settlement cycle effective date, one business day) after the pricing date, purchasers who wish to trade the notes on any date prior to two business days (or, on or after the settlement cycle effective date, one business day) before delivery will be required to specify an alternate settlement cycle at the time of any such trade to prevent a failed settlement and should consult their own advisors.

### **Conflicts of Interest**

JPMS has a "conflict of interest" within the meaning of FINRA Rule 5121 in any offering of the notes in which it participates because JPMorgan Chase & Co. owns, directly or indirectly, all of the outstanding equity securities of JPMS, because JPMS and JPMorgan Financial are under common control by JPMorgan Chase & Co. and because the net proceeds received from the sale of the notes will be used, in part, by JPMS or its affiliates in connection with hedging the Issuer's obligations under the notes. The offer and sale of the notes by JPMS will comply with the requirements of FINRA Rule 5121 regarding a FINRA member firm's participation in a public offering of notes of an affiliate. In accordance with FINRA Rule 5121, neither JPMS nor any other affiliated underwriter, agent or dealer of the Issuer may sell the notes to any of its discretionary accounts without the specific written approval of the customer.

## BENEFIT PLAN INVESTOR CONSIDERATIONS

A fiduciary of a pension, profit-sharing or other employee benefit plan subject to Title I of the Employee Retirement Income Security Act of 1974, as amended (“**ERISA**”), including entities such as collective investment funds, partnerships and separate accounts whose underlying assets include the assets of such plans (collectively, “**ERISA Plans**”), should consider the fiduciary standards of ERISA in the context of the ERISA Plan’s particular circumstances before authorizing an investment in the notes. Among other factors, the fiduciary should consider whether the investment would satisfy the prudence and diversification requirements of ERISA and would be consistent with the documents and instruments governing the ERISA Plan.

Section 406 of ERISA and Section 4975 of the Code prohibit ERISA Plans, as well as plans (including individual retirement accounts and Keogh plans) subject to Section 4975 of the Code (together with ERISA Plans, “**Plans**”), from engaging in certain transactions involving the “plan assets” with persons who are “parties in interest” under ERISA or “disqualified persons” under Section 4975 of the Code (in either case, referred to herein as “**Parties in Interest**”) with respect to such Plans. As a result of their businesses, JPMorgan Chase & Co. and its current and future affiliates (including JPMorgan Financial), as well as the other unaffiliated dealers, may be Parties in Interest with respect to many Plans; where any of them is a Party in Interest with respect to a Plan (either directly or by reason of such entity’s ownership interests in its directly or indirectly owned subsidiaries), the purchase and holding of the notes by or on behalf of the Plan could be a prohibited transaction under Section 406 of ERISA and/or Section 4975 of the Code, unless statutory or administrative exemptive relief were available.

In this regard, certain prohibited transaction class exemptions (“**PTCEs**”) issued by the U.S. Department of Labor may provide exemptive relief for direct or indirect prohibited transactions resulting from the purchase or holding of the notes. Those class exemptions are PTCE 96-23 (for certain transactions determined by in-house asset managers), PTCE 95-60 (for certain transactions involving insurance company general accounts), PTCE 91-38 (for certain transactions involving bank collective investment funds), PTCE 90-1 (for certain transactions involving insurance company separate accounts) and PTCE 84-14 (for certain transactions determined by independent qualified asset managers). In addition, ERISA Section 408(b)(17) and Section 4975(d)(20) of the Code may provide a limited exemption for the purchase and sale of the notes and related lending transactions, *provided* that neither the issuer of the notes nor any of its affiliates have or exercise any discretionary authority or control or render any investment advice with respect to the assets of the Plan involved in the transaction and provided further that the Plan pays no more, and receives no less, than adequate consideration in connection with the transaction (the so-called “service provider exemption”). There can be no assurance that any of these statutory or class exemptions will be available with respect to transactions involving the notes.

Accordingly, the notes may not be purchased or held by any Plan, any entity whose underlying assets include “plan assets” by reason of any Plan’s investment in the entity (a “**Plan Asset Entity**”) or any person investing “plan assets” of any Plan, unless such purchaser or holder is eligible for the exemptive relief available under PTCE 96-23, 95-60, 91-38, 90-1 or 84-14 or the service-provider exemption or there is some other basis on which the purchase and holding of the notes will not constitute or result in a non-exempt prohibited transaction under ERISA or Section 4975 of the Code. Each purchaser or holder of the notes or any interest therein will be deemed to have represented by its purchase or holding of the notes that (a) it is not a Plan or a Plan Asset Entity and its purchase and holding of the notes is not made on behalf of or with “plan assets” of any Plan or a Plan Asset Entity or (b) its purchase, holding and subsequent disposition of the notes will not constitute or result in a non-exempt prohibited transaction under Section 406 of ERISA or Section 4975 of the Code.

In this regard, certain governmental plans (as defined in Section 3(32) of ERISA), church plans (as defined in Section 3(33) of ERISA) and non-U.S. plans (as described in Section 4(b)(4) of ERISA) (collectively, “**Non-ERISA Arrangements**”) are not subject to the fiduciary responsibility or prohibited transaction rules of ERISA or Section 4975 of the Code, but may be subject to similar rules under other applicable laws or regulations (“**Similar Laws**”). Accordingly, each such purchaser or holder of the notes

will be required to represent, and be deemed to have represented by its purchase or holding of the notes, that its purchase, holding and subsequent disposition of the notes will not constitute or result in a violation of any applicable Similar Laws.

Due to the complexity of these rules, it is particularly important that fiduciaries or other persons considering purchasing the notes on behalf of or with “plan assets” of any Plan, Plan Asset Entity or Non-ERISA Arrangement consult with their counsel regarding the relevant provisions of ERISA, the Code or applicable Similar Laws and the availability of exemptive relief under PTCE 96-23, 95-60, 91-38, 90-1, 84-14, the service provider exemption or some other basis on which the acquisition and holding of the notes will not constitute or result in a non-exempt prohibited transaction under ERISA or Section 4975 of the Code or a violation of any applicable Similar Laws.

The notes are contractual financial instruments. The financial exposure provided by the notes is not a substitute or proxy for, and is not intended as a substitute or proxy for, individualized investment management or advice for the benefit of any purchaser or holder of the notes. The notes have not been designed and will not be administered in a manner intended to reflect the individualized needs and objectives of any purchaser or holder of the notes.

Each purchaser or holder of any notes acknowledges and agrees that:

- (i) the purchaser or holder or its fiduciary has made and will make all investment decisions for the purchaser or holder and the purchaser or holder has not relied and will not rely in any way upon the Issuer, the Guarantor (if applicable) or any of their affiliates to act as a fiduciary or adviser of the purchaser or holder with respect to (A) the design and terms of the notes, (B) the purchaser or holder’s investment in the notes, or (C) the exercise of or failure to exercise any rights the purchaser or holder, or the Issuer, the Guarantor (if applicable) or any of their affiliates, has under or with respect to the notes;
- (ii) the Issuer and its affiliates have acted and will act solely for the Issuer’s own accounts in connection with (A) all transactions relating to the notes and (B) all hedging transactions in connection with its or its affiliates’ obligations under the notes;
- (iii) any and all assets and positions relating to hedging transactions by the Issuer or its affiliates are assets and positions of those entities and are not assets and positions held for the benefit of the purchaser or holder;
- (iv) the Issuer’s and the Guarantor’s (if applicable) interests are adverse to the interests of the purchaser or holder; and
- (v) none of the Issuer, the Guarantor (if applicable) and any of their affiliates is a fiduciary or adviser of the purchaser or holder in connection with any such assets, positions or transactions, and any information that the Issuer, the Guarantor (if applicable) or any of their affiliates may provide is not intended to be impartial investment advice.

Each purchaser and holder of the notes has exclusive responsibility for ensuring that its purchase, holding and subsequent disposition of the notes does not violate the fiduciary or prohibited transaction rules of ERISA, the Code or any applicable Similar Laws. The sale of any notes to any Plan, Plan Asset Entity or Non-ERISA Arrangement is in no respect a representation or advice by the Issuer, the Guarantor (if applicable) or any of their affiliates or representatives as to whether such an investment is appropriate for, or meets all relevant legal requirements with respect to investments by, Plans, Plan Asset Entities or Non-ERISA Arrangements generally or any particular Plan, Plan Asset Entity or Non-ERISA Arrangement. Neither this discussion nor anything in this product supplement is or is intended to be investment advice directed at any potential Plan, Plan Asset Entity or Non-ERISA Arrangement purchaser or at such purchasers generally.