



BofA Finance LLC \$---- Capped Trigger GEARS
Linked to an Unequally Weighted Basket of Six Indices Due November 30, 2022
Fully and Unconditionally Guaranteed by Bank of America Corporation

Investment Description

The Capped Trigger GEARS (the "Notes") linked to an unequally weighted basket of six indices due November 30, 2022 are senior unsecured obligations issued by BofA Finance LLC ("BofA Finance"), a direct, wholly-owned subsidiary of Bank of America Corporation ("BAC" or the "Guarantor"), which are fully and unconditionally guaranteed by the Guarantor. The return on the Notes is linked to the performance of an unequally weighted basket of six indices (the "Basket") comprised of the EURO STOXX 50[®] Index, the FTSE[®] 100 Index, the Nikkei Stock Average Index, the S&P[®]/ASX 200 Index, the Swiss Market Index[®] and the Hang Seng[®] Index (each, a "Basket Component"). If the Basket Return is positive, BofA Finance will repay the Stated Principal Amount of the Notes at maturity plus a return equal to the Basket Return multiplied by the Upside Gearing of 5.0, but no more than the Maximum Gain of between [34.25% and 38.25%] (to be set on the Trade Date). If the Basket Return is zero or negative and the Final Basket Value is greater than or equal to the Downside Threshold of 75% of the Initial Basket Value, BofA Finance will repay the Stated Principal Amount of the Notes at maturity. However, if the Basket Return is negative and the Final Basket Value is less than the Downside Threshold, you will be fully exposed to the negative Basket Return and you will receive less than the Stated Principal Amount at maturity, resulting in a loss that is proportionate to the decline in the value of the Basket. In this case, you will have full downside exposure to the Basket from the Initial Basket Value to the Final Basket Value, and you could lose all of your initial investment.

Investing in the Notes involves significant risks. You will not receive coupon payments during the 3-year term of the Notes. You may lose a substantial portion or all of your initial investment. You will not receive dividends or other distributions paid on any stocks included in the Basket Components. The contingent repayment of the Stated Principal Amount applies only if you hold the Notes to maturity. Any payment on the Notes, including any repayment of the Stated Principal Amount, is subject to the creditworthiness of BofA Finance and the Guarantor and is not, either directly or indirectly, an obligation of any third party.

Features

- Enhanced Growth Potential, Subject to Maximum Gain** — If the Basket Return is positive, BofA Finance will repay the Stated Principal Amount of the Notes at maturity plus a return equal to the Basket Return multiplied by the Upside Gearing, but no more than the Maximum Gain. The Upside Gearing feature will provide leveraged exposure to a limited range of positive performance of the Basket.
- Downside Exposure with Contingent Repayment of Principal at Maturity** — If the Basket Return is zero or negative and the Final Basket Value of the Basket is greater than or equal to the Downside Threshold, you will receive the Stated Principal Amount at maturity. However, if the Basket Return is negative and the Final Basket Value of the Basket is less than the Downside Threshold, you will receive less than the Stated Principal Amount of your Notes at maturity, resulting in a loss that is proportionate to the decline in the value of the Basket from the Trade Date to the Valuation Date, up to a 100% loss of your investment.

Any payment on the Notes is subject to the creditworthiness of BofA Finance and the Guarantor.

NOTICE TO INVESTORS: THE NOTES ARE SIGNIFICANTLY RISKIER THAN CONVENTIONAL DEBT INSTRUMENTS. BOFA FINANCE IS NOT NECESSARILY OBLIGATED TO REPAY THE STATED PRINCIPAL AMOUNT AT MATURITY, AND THE NOTES CAN HAVE DOWNSIDE MARKET RISK SIMILAR TO THE BASKET. THIS MARKET RISK IS IN ADDITION TO THE CREDIT RISK INHERENT IN PURCHASING A DEBT OBLIGATION OF BOFA FINANCE THAT IS GUARANTEED BY BAC. YOU SHOULD NOT PURCHASE THE NOTES IF YOU DO NOT UNDERSTAND OR ARE NOT COMFORTABLE WITH THE SIGNIFICANT RISKS INVOLVED IN INVESTING IN THE NOTES.

YOU SHOULD CAREFULLY CONSIDER THE RISKS DESCRIBED UNDER "RISK FACTORS" BEGINNING ON PAGE PS-6 OF THIS PRICING SUPPLEMENT, PAGE PS-5 OF THE ACCOMPANYING PRODUCT SUPPLEMENT, PAGE S-4 OF THE ACCOMPANYING PROSPECTUS SUPPLEMENT AND PAGE 7 OF THE ACCOMPANYING PROSPECTUS BEFORE PURCHASING ANY NOTES. EVENTS RELATING TO ANY OF THOSE RISKS, OR OTHER RISKS AND UNCERTAINTIES, COULD ADVERSELY AFFECT THE MARKET VALUE OF, AND THE RETURN ON, YOUR NOTES. YOU MAY LOSE SOME OR ALL OF YOUR INITIAL INVESTMENT IN THE NOTES. THE NOTES WILL NOT BE LISTED ON ANY SECURITIES EXCHANGE AND MAY HAVE LIMITED OR NO LIQUIDITY.

Notes Offering

We are offering Capped Trigger GEARS linked to an unequally weighted basket of six indices due November 30, 2022. The Basket Components are listed below and described in more detail beginning on page PS-12 of this pricing supplement. Any payment on the Notes will be based on the performance of the Basket. The Maximum Gain and the Initial Index Value of each Basket Component will be determined on the Trade Date. The Notes are our senior unsecured obligations, guaranteed by BAC, and are offered for a minimum investment of 100 Notes (each Note corresponding to \$10.00 in Stated Principal Amount) at the Public Offering Price described below.

Basket Components	Basket Weighting	Initial Index Value	Initial Basket Value	Upside Gearing	Maximum Gain	Downside Threshold	CUSIP / ISIN
EURO STOXX 50 [®] Index (Bloomberg ticker: SX5E)	40.00%						
FTSE [®] 100 Index (Bloomberg ticker: UKX)	20.00%						
Nikkei Stock Average Index (Bloomberg ticker: NKY)	20.00%		100.00	5.0	[34.25% to 38.25%]	75.00, which is 75% of the Initial Basket Value	05591G207 / US05591G2075
S&P [®] /ASX 200 Index (Bloomberg ticker: AS51)	7.50%						
Swiss Market Index [®] (Bloomberg ticker: SMI)	7.50%						
Hang Seng [®] Index (Bloomberg ticker: HSI)	5.00%						

See "Summary" in this pricing supplement. The Notes will have the terms specified in the accompanying product supplement, prospectus supplement and prospectus, as supplemented by this pricing supplement.

None of the Securities and Exchange Commission (the "SEC"), any state securities commission, or any other regulatory body has approved or disapproved of these Notes or the guarantee, or passed upon the adequacy or accuracy of this pricing supplement, or the accompanying product supplement, prospectus supplement or prospectus. Any representation to the contrary is a criminal offense. The Notes and the related guarantee of the Notes by the Guarantor are unsecured and are not savings accounts, deposits, or other obligations of a bank. The Notes are not guaranteed by Bank of America, N.A. or any other bank, are not insured by the Federal Deposit Insurance Corporation or any other governmental agency and involve investment risks.

	Public Offering Price	Underwriting Discount ⁽¹⁾	Proceeds (before expenses) to BofA Finance
Per Note	\$10.00	\$0.25	\$9.75
Total	\$	\$	\$

⁽¹⁾ The underwriting discount is \$0.25 per Note. BofA Securities, Inc. ("BofAS"), acting as principal, expects to purchase from BofA Finance, and BofA Finance expects to sell to BofAS, the aggregate principal amount of the Notes set forth above for \$9.75 per Note. UBS Financial Services Inc. ("UBS"), acting as a selling agent for sales of the Notes, expects to purchase from BofAS, and BofAS expects to sell to UBS, all of the Notes for \$9.75 per Note. UBS will receive an underwriting discount of \$0.25 per Note for each Note it sells in this offering. UBS proposes to offer the Notes to the public at a price of \$10.00 per Note. For additional information on the distribution of the Notes, see "Supplement to the Plan of Distribution; Role of BofAS and Conflicts of Interest" in this pricing supplement.

The initial estimated value of the Notes will be less than the public offering price. The initial estimated value of the Notes as of the Trade Date is expected to be between \$9.55 and \$9.75 per \$10 in Stated Principal Amount. See "Summary" on page PS-4 of this pricing supplement, "Risk Factors" beginning on page PS-6 of this pricing supplement and "Structuring the Notes" on page PS-30 of this pricing supplement for additional information. The actual value of your Notes at any time will reflect many factors and cannot be predicted with accuracy.

You should read carefully this entire pricing supplement and the accompanying product supplement, prospectus supplement and prospectus to understand fully the terms of the Notes, as well as the tax and other considerations important to you in making a decision about whether to invest in the Notes. In particular, you should review carefully the section in this pricing supplement entitled "Risk Factors," which highlights a number of risks of an investment in the Notes, to determine whether an investment in the Notes is appropriate for you. If information in this pricing supplement is inconsistent with the product supplement, prospectus supplement or prospectus, this pricing supplement will supersede those documents. You are urged to consult with your own attorneys and business and tax advisors before making a decision to purchase any of the Notes.

The information in the "Summary" section is qualified in its entirety by the more detailed explanation set forth elsewhere in this pricing supplement and the accompanying product supplement, prospectus supplement and prospectus. You should rely only on the information contained in this pricing supplement and the accompanying product supplement, prospectus supplement and prospectus. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. None of us, the Guarantor, BofAS or UBS is making an offer to sell these Notes in any jurisdiction where the offer or sale is not permitted. You should assume that the information in this pricing supplement and the accompanying product supplement, prospectus supplement, and prospectus is accurate only as of the date on their respective front covers.

Capitalized terms used but not defined in this pricing supplement have the meanings set forth in the accompanying product supplement, prospectus supplement and prospectus. Unless otherwise indicated or unless the context requires otherwise, all references in this pricing supplement to "we," "us," "our," or similar references are to BofA Finance, and not to BAC (or any other affiliate of BofA Finance).

As a result of the completion of the reorganization of Bank of America's U.S broker-dealer business, references to Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") in the accompanying product supplement EQUITY-1, prospectus supplement and prospectus, as such references relate to MLPF&S's institutional services, should now be read as references to BofAS.

The above-referenced accompanying documents may be accessed at the following links:

- Product supplement EQUITY-1 dated January 24, 2017:
<https://www.sec.gov/Archives/edgar/data/70858/000119312517016445/d331325d424b5.htm>
- Series A MTN prospectus supplement dated November 4, 2016 and prospectus dated November 4, 2016:
<https://www.sec.gov/Archives/edgar/data/70858/000119312516760144/d266649d424b3.htm>

The Notes are our senior debt securities. Any payments on the Notes are fully and unconditionally guaranteed by BAC. The Notes and the related guarantee are not insured by the Federal Deposit Insurance Corporation or secured by collateral. The Notes will rank equally in right of payment with all of our other unsecured and unsubordinated obligations, and the related guarantee will rank equally in right of payment with all of BAC's other unsecured and unsubordinated obligations, except obligations that are subject to any priorities or preferences by law. Any payments due on the Notes, including any repayment of the principal amount, will be subject to the credit risk of BofA Finance, as issuer, and BAC, as guarantor.

The Notes may be suitable for you if, among other considerations:

- .. You fully understand the risks inherent in an investment in the Notes, including the risk of loss of your entire investment.
- .. You do not seek current income from your investment and are willing to forgo dividends or any other distributions paid on the stocks included in the Basket Components.
- .. You can tolerate a loss of all or a substantial portion of your investment and are willing to make an investment that will have the full downside market risk of an investment in the Basket.
- .. You understand and accept the risks associated with the Basket Components.
- .. You believe that the value of the Basket will increase over the term of the Notes and that the Final Basket Value is likely to close above the Initial Basket Value, and you are willing to give up any appreciation in excess of the Maximum Gain (the actual Maximum Gain will be determined on the Trade Date).
- .. You understand and accept that your potential return is limited by the Maximum Gain and you would be willing to invest in the Notes if the Maximum Gain was set equal to the lower end of the range indicated on the cover page of this pricing supplement (the actual Maximum Gain will be determined on the Trade Date).
- .. You can tolerate fluctuations in the value of the Notes prior to maturity that may be similar to or exceed the downside fluctuations in the value of the Basket.
- .. You are willing and able to hold the Notes to maturity, and accept that there may be little or no secondary market for the Notes.
- .. You are willing to assume the credit risk of BofA Finance and BAC for all payments under the Notes, and understand that if BofA Finance and BAC default on their obligations, you might not receive any amounts due to you, including any repayment of the Stated Principal Amount.

The Notes may *not* be suitable for you if, among other considerations:

- .. You do not fully understand the risks inherent in an investment in the Notes, including the risk of loss of your entire investment.
- .. You seek current income from this investment or prefer to receive the dividends and any other distributions paid on the stocks included in the Basket Components.
- .. You cannot tolerate the loss of all or a substantial portion of your initial investment, or you are not willing to make an investment that will have the full downside market risk of an investment in the Basket.
- .. You require an investment designed to guarantee a full return of the Stated Principal Amount at maturity.
- .. You do not understand or are not willing to accept the risks associated with the Basket Components.
- .. You believe that the value of the Basket will decline during the term of the Notes and the Final Basket Value is likely to close below the Downside Threshold on the Valuation Date, exposing you to full downside performance of the Basket, or you believe the Basket will appreciate over the term of the Notes by more than the Maximum Gain (the actual Maximum Gain will be determined on the Trade Date).
- .. You seek an investment that participates in the full appreciation in the value of the Basket or that has unlimited return potential, or you would be unwilling to invest in the Notes if the Maximum Gain was set equal to the bottom of the range indicated on the cover page of this pricing supplement (the actual Maximum Gain will be determined on the Trade Date).
- .. You cannot tolerate fluctuations in the value of the Notes prior to maturity that may be similar to or exceed the downside fluctuations in the value of the Basket.
- .. You seek an investment for which there will be an active secondary market.
- .. You prefer the lower risk of conventional fixed income investments with comparable maturities and credit ratings.
- .. You are not willing to assume the credit risk of BofA Finance and BAC for all payments under the Notes, including any repayment of the Stated Principal Amount.

The suitability considerations identified above are not exhaustive. Whether or not the Notes are a suitable investment for you will depend on your individual circumstances and you should reach an investment decision only after you and your investment, legal, tax, accounting and other advisors have carefully considered the suitability of an investment in the Notes in light of your particular circumstances. You should review "The Basket and the Basket Components" herein for more information on the Basket Components. You should also review carefully the "Risk Factors" section herein for risks related to an investment in the Notes.

Summary													
Issuer	BofA Finance												
Guarantor:	BAC												
Public Offering Price	100% of the Stated Principal Amount												
Stated Principal Amount	\$10.00 per Note												
Minimum Investment	\$1,000 (100 Notes)												
Term	Approximately three years												
Trade Date ^{1,2}	November 26, 2019												
Issue Date ^{1,2}	November 29, 2019												
Valuation Date ¹	November 25, 2022, subject to postponement as set forth in “Description of the Notes—Certain Terms of the Notes—Events Relating to Calculation Days” on page PS-19 of the accompanying product supplement. Additionally, if the Valuation Date is not a business day, the Valuation Date will be postponed to the next business day.												
Maturity Date ¹	November 30, 2022												
Basket	<p>The Notes are linked to an unequally weighted basket consisting of the following indices and their respective weightings:</p> <table border="1"> <tbody> <tr> <td>EURO STOXX 50[®] Index</td> <td>40.00%</td> </tr> <tr> <td>FTSE[®] 100 Index</td> <td>20.00%</td> </tr> <tr> <td>Nikkei Stock Average Index</td> <td>20.00%</td> </tr> <tr> <td>S&P[®]/ASX 200 Index</td> <td>7.50%</td> </tr> <tr> <td>Swiss Market Index[®]</td> <td>7.50%</td> </tr> <tr> <td>Hang Seng[®] Index</td> <td>5.00%</td> </tr> </tbody> </table> <p>If the Basket Return is positive, we will repay the Stated Principal Amount of the Notes at maturity plus a return equal to the Basket Return multiplied by the Upside Gearing, but no more than the Maximum Gain, calculated as follows:</p> $\$10.00 \times (1 + \text{the lesser of (i) Basket Return} \times \text{Upside Gearing and (ii) Maximum Gain})$ <p>If the Basket Return is zero or negative and the Final Basket Value is greater than or equal to the Downside Threshold, we will repay the Stated Principal Amount of the Notes at maturity.</p> <p>If the Basket Return is negative and the Final Basket Value is less than the Downside Threshold, we will repay less than the Stated Principal Amount of your Notes at maturity, resulting in a loss that is proportionate to the decline in the value of the Basket from the Trade Date to the Valuation Date, calculated as follows:</p> $\$10.00 \times (1 + \text{Basket Return})$ <p>Accordingly, you may lose all or a substantial portion of your Stated Principal Amount at maturity, depending on how significantly the Basket declines.</p>	EURO STOXX 50 [®] Index	40.00%	FTSE [®] 100 Index	20.00%	Nikkei Stock Average Index	20.00%	S&P [®] /ASX 200 Index	7.50%	Swiss Market Index [®]	7.50%	Hang Seng [®] Index	5.00%
EURO STOXX 50 [®] Index	40.00%												
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Hang Seng [®] Index	5.00%												
Payment At Maturity (per \$10.00 Stated Principal Amount)													
Basket Return	$\frac{\text{Final Basket Value} - \text{Initial Basket Value}}{\text{Initial Basket Value}}$												
Downside Threshold	75.00, which is 75% of the Initial Basket Value, as specified on the cover page of this pricing supplement.												
Upside Gearing	5.0												

Maximum Gain	[34.25% to 38.25%], which corresponds to a maximum Payment at Maturity of between [\$13.425 to \$13.825]. The actual Maximum Gain will be determined on the Trade Date.
Initial Basket Value	100.00
Final Basket Value	$100.00 \times (1 + \text{the sum of the Weighted Basket Component Returns})$
Weighted Basket Component Return	For each Basket Component, its weighting multiplied by its Basket Component Return
Basket Component Return	For each Basket Component, $\frac{\text{Final Index Value} - \text{Initial Index Value}}{\text{Initial Index Value}}$
Initial Index Value	For each Basket Component, the closing level of that Basket Component on the Trade Date, as specified on the cover page of this pricing supplement.
Final Index Value	For each Basket Component, the closing level of that Basket Component on the Valuation Date.
Trading Day	With respect to the EURO STOXX 50 [®] Index, a day on which the EURO STOXX 50 [®] Index is scheduled to be calculated and published by its underlying sponsor and (ii) with respect to each other Basket Component, a day on which (a) the respective principal securities markets for all of the stocks that comprise such Basket Component are open for trading, (b) the underlying sponsor for such Basket Component is open for business and (c) such Basket Component is calculated and published by the applicable underlying sponsor.
Calculation Agent	BofAS, an affiliate of BofA Finance.
Selling Agents	BofAS and UBS.
Events of Default and Acceleration:	If an Event of Default, as defined in the senior indenture and in the section entitled “Events of Default and Rights of Acceleration” beginning on page 35 of the accompanying prospectus, with respect to the Notes occurs and is continuing, the amount payable to a holder of the Notes upon any acceleration permitted under the senior indenture will be equal to the amount described under the caption “—Payment at Maturity” above, calculated as though the date of acceleration were the Maturity Date of the Notes and as though the Valuation Date were the third trading day prior to the date of acceleration. In case of a default in the payment of the Notes, whether at their maturity or upon acceleration, the Notes will not bear a default interest rate.

¹ Subject to change and will be set forth in the final pricing supplement relating to the Notes.

² See “Supplement to the Plan of Distribution; Role of BofAS and Conflicts of Interest” in this pricing supplement for additional information.

Investment Timeline

Trade Date

The closing level of each Basket Component (its Initial Index Value) is observed and the Maximum Gain is set.



Maturity Date

The Final Basket Value is determined on the Valuation Date and the Basket Return is calculated.

If the Basket Return is positive, we will repay the Stated Principal Amount of the Notes at maturity plus a return equal to the Basket Return multiplied by the Upside Gearing, but no more than the Maximum Gain, calculated as follows:

$$\$10.00 \times (1 + \text{the lesser of (i) Basket Return} \times \text{Upside Gearing and (ii) Maximum Gain})$$

If the Basket Return is zero or negative and the Final Basket Value is greater than or equal to the Downside Threshold, we will repay the Stated Principal Amount of the Notes at maturity.

If the Basket Return is negative and the Final Basket Value is less than the Downside Threshold, we will repay less than the Stated Principal Amount of your Notes at maturity, resulting in a loss that is proportionate to the decline in the value of the Basket from the Trade Date to the Valuation Date, calculated as follows:

$$\$10.00 \times (1 + \text{Basket Return})$$

Accordingly, you may lose all or a substantial portion of your Stated Principal Amount at maturity, depending on how significantly the Basket declines.

INVESTING IN THE NOTES INVOLVES SIGNIFICANT RISKS. YOU MAY LOSE A SUBSTANTIAL PORTION OR ALL OF YOUR INITIAL INVESTMENT. YOU WILL BE EXPOSED TO THE MARKET RISK OF THE BASKET COMPONENTS. THE CONTINGENT REPAYMENT OF THE STATED PRINCIPAL AMOUNT APPLIES ONLY IF YOU HOLD THE NOTES TO MATURITY. ANY PAYMENT ON THE NOTES IS SUBJECT TO THE CREDITWORTHINESS OF BOFA FINANCE AND THE GUARANTOR.

Risk Factors

Your investment in the Notes entails significant risks, many of which differ from those of a conventional debt security. Your decision to purchase the Notes should be made only after carefully considering the risks of an investment in the Notes, including those discussed below, with your advisors in light of your particular circumstances. The Notes are not an appropriate investment for you if you are not knowledgeable about significant elements of the Notes or financial matters in general. You should carefully review the more detailed explanation of risks relating to the Notes in the "Risk Factors" sections beginning on page PS-5 of the accompanying product supplement, page S-4 of the accompanying prospectus supplement and page 7 of the accompanying prospectus identified on page PS-3 above.

- **Your investment may result in a loss; there is no guaranteed return of principal.** There is no fixed principal repayment amount on the Notes at maturity. If the Final Basket Value is less than the Downside Threshold, at maturity, you will lose 1% of the Stated Principal Amount for each 1% that the Final Basket Value is less than the Initial Basket Value. In that case, you will lose a significant portion or all of your investment in the Notes.
- **The return on the Notes will be limited to the Maximum Gain.** The return on the Notes will not exceed the Maximum Gain, regardless of the performance of the Basket. Your return on the Notes may be less than the return that you could have realized if you invested directly in the securities held by or included in the Basket Components, and you will not receive the full benefit of any appreciation in the value of the Basket beyond that Maximum Gain.
- **The Notes do not bear interest.** Unlike a conventional debt security, no interest payments will be paid over the term of the Notes, regardless of the extent to which the Final Basket Value exceeds the Initial Basket Value.
- **The limited downside protection provided by the Downside Threshold applies only at maturity.** You should be willing to hold your Notes to maturity. If you are able to sell your Notes in the secondary market prior to maturity, you may have to sell them at a loss relative to your initial investment even if the value of the Basket at that time is equal to or greater than the Downside Threshold. Any payment on the Notes is subject to the credit risk of BofA Finance, as issuer, and BAC, as guarantor.
- **The Upside Gearing applies only at maturity.** You should be willing to hold your Notes to maturity. If you are able to sell your Notes in the secondary market prior to maturity, the price you receive will likely not reflect the full economic value of the Upside Gearing, and the return you realize may be less than the then-current basket return multiplied by the Upside Gearing, even if such return is positive. You can receive the full benefit of the Upside Gearing only if you hold your Notes to maturity. Any payment on the Notes is subject to the credit risk of BofA Finance, as issuer, and BAC, as guarantor.
- **Your return on the Notes may be less than the yield on a conventional debt security of comparable maturity.** Any return that you receive on the Notes may be less than the return you would earn if you purchased a conventional debt security with the same Maturity Date. As a result, your investment in the Notes may not reflect the full opportunity cost to you when you consider factors, such as inflation, that affect the time value of money.
- **Any payment on the Notes is subject to our credit risk and the credit risk of the Guarantor, and actual or perceived changes in our or the Guarantor's creditworthiness are expected to affect the value of the Notes.** The Notes are our senior unsecured debt securities. Any payment on the Notes will be fully and unconditionally guaranteed by the Guarantor. The Notes are not guaranteed by any entity other than the Guarantor. As a result, your receipt of any payment on the Notes will be dependent upon our ability and the ability of the Guarantor to repay our respective obligations under the Notes on the Maturity Date, regardless of the Final Basket Value as compared to the Downside Threshold or Initial Basket Value, as applicable. No assurance can be given as to what our financial condition or the financial condition of the Guarantor will be on the Maturity Date. If we and the Guarantor become unable to meet our respective financial obligations as they become due, you may not receive the amount payable under the terms of the Notes and you could lose all of your initial investment.

In addition, our credit ratings and the credit ratings of the Guarantor are assessments by ratings agencies of our respective abilities to pay our obligations. Consequently, our or the Guarantor's perceived creditworthiness and actual or anticipated decreases in our or the Guarantor's credit ratings or increases in the spread between the yield on our respective securities and the yield on U.S. Treasury securities (the "credit spread") prior to the Maturity Date may adversely affect the market value of the Notes. However, because your return on the Notes depends upon factors in addition to our ability and the ability of the Guarantor to pay our respective obligations, such as the values of the Basket Components, an improvement in our or the Guarantor's credit ratings will not reduce the other investment risks related to the Notes.
- **The Notes are subject to the market risk of the Basket Components.** The return on the Notes, which may be negative, is directly linked to the performance of the Basket Components and indirectly linked to the value of the securities included in the Basket Components. The levels of the Basket Components can rise or fall sharply due to factors specific to the Basket Components and the securities included in the Basket Components and the issuers of such securities, such as stock price volatility, earnings and financial conditions, corporate, industry and regulatory developments, management changes and decisions and other events, as well as general market factors, such as general stock market or commodity market volatility and levels, interest rates and economic and political conditions.
- **We are a finance subsidiary and, as such, will have limited assets and operations.** We are a finance subsidiary of BAC and will have no assets, operations or revenues other than those related to the issuance, administration and repayment of our debt securities that are guaranteed by the Guarantor. As a finance subsidiary, to meet our obligations under the Notes, we are dependent upon payment or contribution of funds and/or repayment of outstanding loans from the Guarantor and/or its other subsidiaries. Therefore, our ability to make payments on the Notes may be limited.

- “ **The public offering price you pay for the Notes will exceed their initial estimated value.** The range of initial estimated values of the Notes that is provided on the cover page of this preliminary pricing supplement, and the initial estimated value as of the Trade Date that will be provided in the final pricing supplement, are each estimates only, determined as of a particular point in time by reference to our and our affiliates' pricing models. These pricing models consider certain assumptions and variables, including our credit spreads and those of the Guarantor, the Guarantor's internal funding rate, mid-market terms on hedging transactions, expectations on interest rates, dividends and volatility, price-sensitivity analysis, and the expected term of the Notes. These pricing models rely in part on certain forecasts about future events, which may prove to be incorrect. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and lower than their initial estimated value. This is due to, among other things, changes in the levels of the Basket Components, the Guarantor's internal funding rate, and the inclusion in the public offering price of the underwriting discount and the hedging related charges, all as further described in "Structuring the Notes" below. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell the Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways.
- “ **The initial estimated value does not represent a minimum or maximum price at which we, BAC, BofAS or any of our other affiliates would be willing to purchase your Notes in any secondary market (if any exists) at any time.** The value of your Notes at any time after issuance will vary based on many factors that cannot be predicted with accuracy, including the performance of the Basket Components, our and BAC's creditworthiness and changes in market conditions.
- “ **The price of the Notes that may be paid by BofAS in any secondary market (if BofAS makes a market, which it is not required to do), as well as the price which may be reflected on customer account statements, will be higher than the then-current estimated value of the Notes for a limited time period after the Trade Date.** As agreed by BofAS and UBS, for approximately a nine-month period after the Trade Date, to the extent BofAS offers to buy the Notes in the secondary market, it will do so at a price that will exceed the estimated value of the Notes at that time. The amount of this excess, which represents a portion of the hedging-related charges expected to be realized by BofAS and UBS over the term of the Notes, will decline to zero on a straight line basis over that nine-month period. Accordingly, the estimated value of your Notes during this initial nine-month period may be lower than the value shown on your customer account statements. Thereafter, if BofAS buys or sells your Notes, it will do so at prices that reflect the estimated value determined by reference to its pricing models at that time. Any price at any time after the Trade Date will be based on then-prevailing market conditions and other considerations, including the performances of the Basket Components and the remaining term of the Notes. However, none of us, the Guarantor, BofAS or any other party is obligated to purchase your Notes at any price or at any time, and we cannot assure you that any party will purchase your Notes at a price that equals or exceeds the initial estimated value of the Notes.
- “ **We cannot assure you that a trading market for your Notes will ever develop or be maintained.** We will not list the Notes on any securities exchange. We cannot predict how the Notes will trade in any secondary market or whether that market will be liquid or illiquid.

The development of a trading market for the Notes will depend on the Guarantor's financial performance and other factors, including changes in the levels of the Basket Components. The number of potential buyers of your Notes in any secondary market may be limited. We anticipate that BofAS will act as a market-maker for the Notes, but none of us, the Guarantor or BofAS is required to do so. There is no assurance that any party will be willing to purchase your Notes at any price in any secondary market. BofAS may discontinue its market-making activities as to the Notes at any time. To the extent that BofAS engages in any market-making activities, it may bid for or offer the Notes. Any price at which BofAS may bid for, offer, purchase, or sell any Notes may differ from the values determined by pricing models that it may use, whether as a result of dealer discounts, mark-ups, or other transaction costs. These bids, offers, or completed transactions may affect the prices, if any, at which the Notes might otherwise trade in the market. In addition, if at any time BofAS were to cease acting as a market-maker as to the Notes, it is likely that there would be significantly less liquidity in the secondary market. In such a case, the price at which the Notes could be sold likely would be lower than if an active market existed.
- “ **Economic and market factors have affected the terms of the Notes and may affect the market value of the Notes prior to maturity.** Because market-linked notes, including the Notes, can be thought of as having a debt component and a derivative component, factors that influence the values of debt instruments and options and other derivatives will also affect the terms and features of the Notes at issuance and the market price of the Notes prior to maturity. These factors include the levels of the Basket Components and the values of the securities included in the Basket Components; the volatility of the Basket Components and the securities included in the Basket Components; the dividend rate paid on the securities included in the Basket Components, if applicable; the time remaining to the maturity of the Notes; interest rates in the markets; geopolitical conditions and economic, financial, political, force majeure and regulatory or judicial events; whether the value of the Basket is currently or has been less than the Downside Threshold; the availability of comparable instruments; the creditworthiness of BofA Finance, as issuer, and BAC, as guarantor; and the then current bid-ask spread for the Notes and the factors discussed under “— Trading and hedging activities by us, the Guarantor and any of our other affiliates, and UBS and its affiliates, may create conflicts of interest with you and may affect your return on the Notes and their market value” below. These factors are unpredictable and interrelated and may offset or magnify each other.
- “ **The Payment at Maturity will not reflect the value of the Basket other than on the Valuation Date.** The value of the Basket during the term of the Notes other than on the Valuation Date will not affect payment on the Notes. Notwithstanding the foregoing, investors should generally be aware of the performance of the Basket and the Basket Components while holding the Notes, as the performance of the Basket and the Basket Components may influence the market value of the Notes. The calculation agent will calculate the Payment at Maturity by comparing only the Initial Basket Value or the Downside Threshold, as applicable, to the Final Basket Value for the Basket. No other value of the Basket will be taken into account. As a result, if the Final Basket Value of the Basket is less than the Downside Threshold, you will receive less than the Stated Principal Amount at maturity, even if the value of the Basket was always above the Downside Threshold prior to the Valuation Date.

- “ **Changes in the level of one of the Basket Components may be offset by changes in the level of the other Basket Components.** The Notes are linked to a Basket. Changes in the levels of one or more of the Basket Components may not correlate with changes in the levels of one or more of the other Basket Components. The levels of one or more Basket Components may increase, while the levels of one or more of the other Basket Components may decrease or not increase as much. Therefore, in calculating the value of the Basket, increases in the level of one Basket Component may be moderated or wholly offset by decreases or lesser increases in the level of one or more of the other Basket Components. Due to the different weightings of the Basket Components, adverse changes in the level of the Basket Components which are more heavily weighted will have a greater impact upon the value of your Notes at any time or the Payment at Maturity than changes in the level of lower weighted Basket Components.
- “ **Your return on the Notes and the value of the Notes may be affected by exchange rate movements and factors affecting the international securities markets, specifically changes in the countries represented by the Basket Components.** The Basket Components include certain foreign equity securities. You should be aware that investments in securities linked to the value of foreign equity securities involve particular risks. The foreign securities markets comprising the Basket Components may have less liquidity and may be more volatile than U.S. or other securities markets and market developments may affect foreign markets differently from U.S. or other securities markets. Direct or indirect government intervention to stabilize these foreign securities markets, as well as cross-shareholdings in foreign companies, may affect trading prices and volumes in these markets. Also, there is generally less publicly available information about foreign companies than about those U.S. companies that are subject to the reporting requirements of the U.S. Securities and Exchange Commission, and foreign companies are subject to accounting, auditing and financial reporting standards and requirements that differ from those applicable to U.S. reporting companies. Prices of securities in foreign countries are subject to political, economic, financial and social factors that apply in those geographical regions. These factors, which could negatively affect those securities markets, include the possibility of recent or future changes in a foreign government’s economic and fiscal policies, the possible imposition of, or changes in, currency exchange laws or other laws or restrictions applicable to foreign companies or investments in foreign equity securities and the possibility of fluctuations in the rate of exchange between currencies, the possibility of outbreaks of hostility and political instability and the possibility of natural disaster or adverse public health developments in the region. Moreover, foreign economies may differ favorably or unfavorably from the U.S. economy in important respects such as growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency. In addition, you will not obtain the benefit of any increase in the value of the currencies in which the securities included in the Basket Components trade against the U.S. dollar, which you would have received if you had owned the securities represented by the Basket Components during the term of your Notes, although the level of the Basket Components may be adversely affected by general exchange rate movements in the market.
- “ **The publisher of each Basket Component may adjust the applicable Basket Component in a way that affects its level, and the publisher has no obligation to consider your interests.** The publisher of each Basket Component can add, delete, or substitute the components included in the applicable Basket Component or make other methodological changes that could change its level. Any of these actions could adversely affect the value of your Notes.
- “ **Greater expected volatility generally indicates an increased risk of loss at maturity.** Volatility is a measure of the degree of variation in the level of the Basket Components over a period of time. The greater the expected volatility of the Basket Components at the time the terms of the Notes are set, the greater the expectation is at that time that you may lose a significant portion or all of the Stated Principal Amount at maturity. However, the Basket Components’ volatility can change significantly over the term of the Notes, and a relatively lower Downside Threshold may not necessarily indicate that the Notes have a greater likelihood of a return of principal at maturity. You should be willing to accept the downside market risk of each Basket Component and the potential to lose a significant portion or all of your initial investment.
- “ **Trading and hedging activities by us, the Guarantor and any of our other affiliates, and UBS and its affiliates, may create conflicts of interest with you and may affect your return on the Notes and their market value.** We, the Guarantor or one or more of our other affiliates, including BofAS, and UBS and its affiliates, may buy or sell the securities held by or included in the Basket Components, or futures or options contracts on the Basket Components or those securities, or other listed or over-the-counter derivative instruments linked to the Basket Components or those securities. We, the Guarantor or one or more of our other affiliates, including BofAS, and UBS and its affiliates also may issue or underwrite other financial instruments with returns based upon the Basket Components and the securities held by or included in the Basket Components. We expect to enter into arrangements or adjust or close out existing transactions to hedge our obligations under the Notes. We, the Guarantor or our other affiliates, including BofAS, and UBS and its affiliates also may enter into hedging transactions relating to other Notes or instruments, some of which may have returns calculated in a manner related to that of the Notes offered hereby. We or UBS may enter into such hedging arrangements with one of our or their affiliates. Our affiliates or their affiliates may enter into additional hedging transactions with other parties relating to the Notes and the Basket Components. This hedging activity is expected to result in a profit to those engaging in the hedging activity, which could be more or less than initially expected, or the hedging activity could also result in a loss. We and our affiliates and UBS and its affiliates will price these hedging transactions with the intent to realize a profit, regardless of whether the value of the Notes increases or decreases. Any profit in connection with such hedging activities will be in addition to any other compensation that we, the Guarantor and our other affiliates, including BofAS, and UBS and its affiliates receive for the sale of the Notes, which creates an additional incentive to sell the Notes to you. While we, the Guarantor or one or more of our other affiliates, including BofAS, and UBS and its affiliates may from time to time own securities represented by the Basket Components, except to the extent that BAC’s or UBS Group AG’s common stock may be included in the Basket Components, as applicable, we, the Guarantor and our other affiliates, including BofAS, and UBS and its affiliates do not control any company included in the Basket Components, and have not verified any disclosure made by any other company. We, the Guarantor or one or more of our other affiliates, including BofAS, and UBS and its affiliates may execute such purchases or sales for our own or their own accounts, for business reasons, or in connection with hedging our obligations under the Notes. The transactions described above may present a conflict of interest between your interest in the Notes and the interests we, the Guarantor and our other affiliates, including BofAS, and UBS and its affiliates may have in our or their proprietary accounts, in facilitating transactions, including block trades, for our or their other customers, and in accounts under our or their management.

The transactions described above may affect the value of the Basket Components in a manner that could be adverse to your investment in the Notes. On or before the Trade Date, any purchases or sales by us, the Guarantor or our other affiliates, including BofAS or others on its behalf, and UBS and its affiliates (including for the purpose of hedging anticipated exposures) may affect the value of the Basket Components. Consequently, the value of the Basket Components may change subsequent to the Trade Date, adversely affecting the market value of the Notes. In addition, these activities may decrease the market value of your Notes prior to maturity, and may affect the amounts to be paid on the Notes. We, the Guarantor or one or more of our other affiliates, including BofAS, and UBS and its affiliates may purchase or otherwise acquire a long or short position in the Notes and may hold or resell the Notes. For example, BofAS may enter into these transactions in connection with any market making activities in which it engages. We cannot assure you that these activities will not adversely affect the value of the Basket Components, the market value of your Notes prior to maturity or the amounts payable on the Notes.

- ◆ **There may be potential conflicts of interest involving the calculation agent, which is an affiliate of ours.** We have the right to appoint and remove the calculation agent. One of our affiliates will be the calculation agent for the Notes and, as such, will make a variety of determinations relating to the Notes, including the amounts that will be paid on the Notes. Under some circumstances, these duties could result in a conflict of interest between its status as our affiliate and its responsibilities as calculation agent.
- ◆ **The U.S. federal income tax consequences of an investment in the Notes are uncertain, and may be adverse to a holder of the Notes.** No statutory, judicial, or administrative authority directly addresses the characterization of the Notes or securities similar to the Notes for U.S. federal income tax purposes. As a result, significant aspects of the U.S. federal income tax consequences of an investment in the Notes are not certain. Under the terms of the Notes, you will have agreed with us to treat the Notes as single financial contracts, as described below under “U.S. Federal Income Tax Summary—General.” If the Internal Revenue Service (the “IRS”) were successful in asserting an alternative characterization for the Notes, the timing and character of income, gain or loss with respect to the Notes may differ. No ruling will be requested from the IRS with respect to the Notes and no assurance can be given that the IRS will agree with the statements made in the section entitled “U.S. Federal Income Tax Summary.” **You are urged to consult with your own tax advisor regarding all aspects of the U.S. federal income tax consequences of investing in the Notes.**

Hypothetical Examples

Hypothetical terms only. Actual terms may vary. See the cover page for actual offering terms.

The examples below illustrate the hypothetical Payment at Maturity for a \$10.00 Stated Principal Amount Note for a hypothetical range of Basket Returns for the Basket with the following assumptions* (the actual terms of the Notes will be determined on the Trade Date; amounts may have been rounded for ease of reference and do not take into account any tax consequences from investing in the Notes):

- ◆ Stated Principal Amount: \$10
- ◆ Term: 3 years
- ◆ Initial Basket Value: 100.00
- ◆ Upside Gearing: 5.0
- ◆ Hypothetical Maximum Gain: 34.25% (the lower end of the range for the Maximum Gain)
- ◆ Downside Threshold: 75.00

*The hypothetical Maximum Gain may not represent the actual Maximum Gain. The actual Maximum Gain will be determined on the Trade Date. Any payment on the Notes is subject to issuer and guarantor credit risk.

Final Basket Value	Basket Return	Payment at Maturity	Return on the Notes
160.00	60.00%	\$13.425	34.25%
150.00	50.00%	\$13.425	34.25%
140.00	40.00%	\$13.425	34.25%
130.00	30.00%	\$13.425	34.25%
120.00	20.00%	\$13.425	34.25%
106.85	6.85%	\$13.425	34.25% ⁽¹⁾
105.00	5.00%	\$12.500	25.00%
102.00	2.00%	\$11.000	10.00%
100.00 ⁽²⁾	0.00%	\$10.000	0.00%
90.00	-10.00%	\$10.000	0.00%
80.00	-20.00%	\$10.000	0.00%
75.00 ⁽³⁾	-25.00%	\$10.000	0.00%
74.99	-25.01%	\$7.499	-25.01%
60.00	-40.00%	\$6.000	-40.00%
50.00	-50.00%	\$5.000	-50.00%
0.00	-100.00%	\$0.000	-100.00%

(1) The "Return on the Notes" cannot exceed the Maximum Gain and is calculated based on the Public Offering Price of \$10 per Note.

(2) This is the Initial Basket Value.

(3) This is the Downside Threshold.

Example 1 — The Final Basket Value of 150.00 is greater than the Initial Basket Value of 100.00, resulting in a Basket Return of 50.00%.

Since the Basket Return is positive, we will repay the Stated Principal Amount of the Notes at maturity plus a return equal to the Basket Return multiplied by the Upside Gearing, but no more than the Maximum Gain, calculated as follows:

$$\$10.00 \times (1 + \text{the lesser of (i) } 50.00\% \times 5.0 \text{ and (ii) } 34.25\%) = \$13.425.$$

In this example, an investment in the Notes would underperform a direct investment in the securities held by or included in the Basket Components.

Example 2 — The Final Basket Value of 105.00 is greater than the Initial Basket Value of 100.00, resulting in a Basket Return of 5.00%.

Since the Basket Return is positive, we will repay the Stated Principal Amount of the Notes at maturity plus a return equal to the Basket Return multiplied by the Upside Gearing, but no more than the Maximum Gain, calculated as follows:

$$\$10.00 \times (1 + \text{the lesser of (i) } 5.00\% \times 5.0 \text{ and (ii) } 34.25\%) = \$12.50.$$

Example 3 — The Final Basket Value of 90.00 is less than the Initial Basket Value of 100.00 (resulting in a Basket Return of -10.00%) but greater than the Downside Threshold of 75.00.

Since the Basket Return is negative and the Final Basket Value is greater than or equal to the Downside Threshold, we will repay the Stated Principal Amount of the Notes at maturity.

Example 4 — The Final Basket Value of 50.00 is less than the Initial Basket Value of 100.00 (resulting in a Basket Return of -50.00%) and less than the Downside Threshold of 75.00.

Since the Basket Return is negative and the Final Basket Value is less than the Downside Threshold, we will repay less than the Stated Principal Amount of your Notes at maturity, resulting in a loss that is proportionate to the decline in the value of the Basket from the Trade Date to the Valuation Date, calculated as follows:

$$\$10.00 \times (1 + -50.00\%) = \$5.00$$

The Basket and the Basket Components

Because the Basket exists solely for purposes of these Notes, historical information on the performance of the Basket does not exist for dates prior to the Trade Date for these Notes. The graph below sets forth the hypothetical historical daily levels of the Basket for the period from January 1, 2008 to November 1, 2019, assuming that the Basket was created on January 1, 2008 with the same Basket Components and corresponding weights in the Basket and with an Initial Basket Value of 100 on that date. The hypothetical performance of the Basket is based on the actual closing levels of the Basket Components on the applicable dates. We obtained these closing levels from Bloomberg L.P., without independent verification. Any historical trend in the level of the Basket during the period shown below is not an indication of the performance of the Basket during the term of the Notes. The horizontal line in the graph represents the Basket's Downside Threshold of 75.00, which is 75% of the Basket's Initial Value of 100.00.



All disclosures contained in this pricing supplement regarding the Basket Components, including, without limitation, their make-up, method of calculation, and changes in their components, have been derived from publicly available sources. The information reflects the policies of, and is subject to change by, each of STOXX Limited ("STOXX") with respect to the EURO STOXX 50[®] Index (the "SX5E"), FTSE International Limited ("FTSE") with respect to the FTSE[®] 100 Index (the "UKX"), Nikkei Inc. ("Nikkei") with respect to Nikkei Stock Average Index (the "NKY"), the Geneva, Zurich, SIX Group Ltd., certain of its subsidiaries, and the Management Committee of the SIX Swiss Exchange (collectively, the "SIX Exchange"), with respect to the Swiss Market Index (the "SMI"), S&P Dow Jones Indices LLC ("S&P") with respect to the S&P[®]/ASX 200 Index (the "AS51"), and HSI Services Limited ("HSIL") with respect to the Hang Seng[®] Index (the "HSI") (STOXX, FTSE, Nikkei, S&P, Six Exchange and HSIL together, the "Underlying Sponsors") The Underlying Sponsors, which license the copyright and all other rights to the Basket Components, have no obligation to continue to publish, and may discontinue publication of, any Basket Component. The consequences of an Underlying Sponsor discontinuing publication of the applicable Basket Component are discussed in "Description of the Notes—Discontinuance of an Index" in the accompanying product supplement. None of us, the Guarantor, the calculation agent, or either Selling Agent accepts any responsibility for the calculation, maintenance or publication of any Basket Component or any successor index.

None of us, the Guarantor, the Selling Agents or any of our or their respective affiliates makes any representation to you as to the future performance of any Basket Component.

You should make your own investigation into the Basket Components.

The EURO STOXX 50[®] Index

The SX5E is composed of 50 stocks from 11 Eurozone countries (Austria, Belgium, Finland, France, Germany, Ireland, Italy, Luxembourg, the Netherlands, Portugal and Spain) of the STOXX Europe 600 Supersector indices. The STOXX 600 Supersector indices contain the 600 largest stocks traded on the major exchanges of 18 European countries and are organized into the following 19 Supersectors: automobiles & parts; banks; basic resources; chemicals; construction & materials; financial services; food & beverage; health care; industrial goods & services; insurance; media; oil & gas; personal & household goods; real estate; retail; technology; telecommunications; travel & leisure and utilities.

The SX5E was created by STOXX, which is part of the Deutsche Börse Group. Publication of the SX5E began in February 1998, based on an initial SX5E level of 1,000 at December 31, 1991. On March 1, 2010, STOXX announced the removal of the "Dow Jones" prefix from all of its indices, including the SX5E.

SX5E Composition and Maintenance

For each of the 19 EURO STOXX regional supersector indices, the stocks are ranked in terms of free-float market capitalization. The largest stocks are added to the selection list until the coverage is close to, but still less than, 60% of the free-float market capitalization of the corresponding supersector index. If the next highest-ranked stock brings the coverage closer to 60% in absolute terms, then it is also added to the selection list. All current stocks in the SX5E are then added to the selection list. All of the stocks on the selection list are then ranked in terms of free-float market capitalization to produce the final index selection list. The largest 40 stocks on the selection list are selected; the remaining 10 stocks are selected

from the largest remaining current stocks ranked between 41 and 60; if the number of stocks selected is still below 50, then the largest remaining stocks are selected until there are 50 stocks. In exceptional cases, STOXX's management board can add stocks to and remove them from the selection list.

The SX5E components are subject to a capped maximum index weight of 10%, which is applied on a quarterly basis.

The composition of the SX5E is reviewed annually, based on the closing stock data on the last trading day in August. Changes in the composition of the SX5E are made to ensure that the SX5E includes the 50 market sector leaders from within the SX5E.

The free float factors for each component stock used to calculate the SX5E, as described below, are reviewed, calculated, and implemented on a quarterly basis and are fixed until the next quarterly review.

The SX5E is subject to a "fast exit rule." The SX5E components are monitored for any changes based on the monthly selection list ranking. A stock is deleted from the SX5E if: (a) it ranks 75 or below on the monthly selection list and (b) it has been ranked 75 or below for a consecutive period of two months in the monthly selection list. The highest-ranked stock that is not an index component will replace it. Changes will be implemented on the close of the fifth trading day of the month, and are effective the next trading day.

The SX5E is also subject to a "fast entry rule." All stocks on the latest selection lists and initial public offering (IPO) stocks are reviewed for a fast-track addition on a quarterly basis. A stock is added, if (a) it qualifies for the latest STOXX blue-chip selection list generated end of February, May, August or November and (b) it ranks within the "lower buffer" on this selection list.

The SX5E is also reviewed on an ongoing monthly basis. Corporate actions (including initial public offerings, mergers and takeovers, spin-offs, delistings, and bankruptcy) that affect the SX5E composition are announced immediately, implemented two trading days later and become effective on the next trading day after implementation.

Sx5E Calculation

The SX5E is calculated with the "Laspeyres formula," which measures the aggregate price changes in the component stocks against a fixed base quantity weight. The formula for calculating the SX5E value can be expressed as follows:

$$\text{Index} = \frac{\text{Free float market capitalization of the Index}}{\text{Adjusted base date market capitalization of the Index}} \times 1,000$$

The "free float market capitalization of the SX5E" is equal to the sum of the product of the price, the number of shares and the free float factor and the weighting cap factor for each component stock as of the time the SX5E is being calculated.

The SX5E is also subject to a divisor, which is adjusted to maintain the continuity of the SX5E values across changes due to corporate actions, such as the deletion and addition of stocks, the substitution of stocks, stock dividends, and stock splits.

Neither we nor any of our affiliates, including the selling agent, accepts any responsibility for the calculation, maintenance, or publication of, or for any error, omission, or disruption in, the SX5E or any successor to the SX5E. STOXX does not guarantee the accuracy or the completeness of the SX5E or any data included in the SX5E. STOXX assumes no liability for any errors, omissions, or disruption in the calculation and dissemination of the SX5E. STOXX disclaims all responsibility for any errors or omissions in the calculation and dissemination of the SX5E or the manner in which the SX5E is applied in determining the amount payable on the notes at maturity.

Historical Performance of the SX5E

The following graph sets forth the daily historical performance of the SX5E in the period from January 1, 2008 through November 1, 2019. We obtained this historical data from Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P. On November 1, 2019 the closing level of the SX5E was 3,623.74.



This historical data on the SX5E is not necessarily indicative of the future performance of the SX5E or what the value of the Notes may be. Any historical upward or downward trend in the level of the SX5E during any period set forth above is not an indication that the level of the SX5E is more or less likely to increase or decrease at any time over the term of the Notes.

Before investing in the Notes, you should consult publicly available sources for the levels of the SX5E.

License Agreement

One of our affiliates has entered into a non-exclusive license agreement with STOXX providing for the license to it and certain of its affiliated companies, including us, in exchange for a fee, of the right to use indices owned and published by STOXX (including the SX5E) in connection with certain securities, including the notes offered hereby.

The license agreement requires that the following language be stated in this document:

STOXX and its licensors (the "Licensors") have no relationship to us, other than the licensing of the SX5E and the related trademarks for use in connection with the notes. STOXX and its Licensors do not:

- sponsor, endorse, sell, or promote the notes;
- recommend that any person invest in the notes offered hereby or any other securities;
- have any responsibility or liability for or make any decisions about the timing, amount, or pricing of the notes;
- have any responsibility or liability for the administration, management, or marketing of the notes; or
- consider the needs of the notes or the holders of the notes in determining, composing, or calculating the SX5E, or have any obligation to do so.

STOXX and its Licensors will not have any liability in connection with the notes. Specifically:

- **STOXX and its Licensors do not make any warranty, express or implied, and disclaims any and all warranty concerning:**
- **the results to be obtained by the notes, the holders of the notes or any other person in connection with the use of the SX5E and the data included in the SX5E;**
- **the accuracy or completeness of the SX5E and its data;**
- **the merchantability and the fitness for a particular purpose or use of the SX5E and its data;**
- **STOXX and its Licensors will have no liability for any errors, omissions, or interruptions in the SX5E or its data; and**
- **Under no circumstances will STOXX be liable for any lost profits or indirect, punitive, special, or consequential damages or losses, even if STOXX or its Licensors know that they might occur.**

The licensing agreement discussed above is solely for our benefit and that of STOXX, and not for the benefit of the holders of the notes or any other third parties.

The FTSE® 100 Index

The UKX is a market capitalization-weighted index of the 100 most highly capitalized U.K.-listed blue chip companies traded on the London Stock Exchange. The UKX was developed with a base level of 1,000 as of December 30, 1983. It is calculated, published and disseminated by FTSE, a company owned by The London Stock Exchange Plc.

Additional information on the UKX is available from the following website: ftse.com/uk. We are not incorporating by reference that website or any material it includes in this document.

Index Composition and Selection Criteria

The UKX consists of the 100 largest U.K.-listed blue chip companies, based on full market capitalization, that pass screening tests for price and liquidity. The UKX is reviewed on a quarterly basis in March, June, September and December based on data from the close of business on the Tuesday before the first Friday of the review month. The FTSE Europe, Middle East & Africa Regional Advisory Committee (the "Committee"), meets quarterly to approve the constituents of the UKX. These meetings are held on the Wednesday before the first Friday in March, June, September and December. Any constituent changes are implemented after the close of business on the third Friday of the review month (i.e., effective Monday), following the expiration of the London International Financial Futures and Options Exchange futures and options contracts.

Eligibility Standards

Only "premium listed" equity shares, as defined by the Financial Conduct Authority in its Listing Rules Sourcebook, are eligible for inclusion in the UKX. Eligible stocks must pass price and liquidity screens before being included in the UKX. Additionally, a stock must have a free float (as described below) of greater than 5%.

Price Screen — With regard to the price screen, the Committee must be satisfied that an accurate and reliable price exists for purposes of determining the market value of a company. To be eligible for inclusion in the UKX, a stock must have a full listing on the London Stock Exchange with a Sterling-denominated price on SETS (the London Stock Exchange's trading service for UK blue chip securities).

Minimum Voting Rights Screen — Companies are required to have greater than 5% of the company's voting rights (aggregated across all of its equity securities, including, where identifiable, those that are not listed or trading) in the hands of unrestricted shareholders in order to be eligible for index

inclusion. Current constituents who do not meet this requirement will have until the September 2022 review to meet the requirement or they will be removed from the index.

Liquidity Screen — With regard to liquidity, each eligible stock is tested for liquidity annually in June by calculating its median daily trading per month. When calculating the median of daily trades per month of any security, a minimum of five trading days in each month must exist, otherwise the month is excluded from the test. Liquidity is tested from the first business day in May of the previous year to the last business day of April. The median trade is calculated by ranking each daily trade total and selecting the middle-ranking day. Any period of suspension is not included in the test. The liquidity test is applied on a pro-rata basis where the testing period is less than 12 months. A stock not presently included in the UKX that does not turnover at least 0.025% of its shares in issue (after application of any investability weightings) based on its median daily trade per month in at least ten of the 12 months prior to the annual index review in June will not be eligible for inclusion until the next annual review. An existing constituent failing to trade at least 0.015% of its shares in issue (after the application of any investability weightings) based on its median daily trade per month for at least eight of the 12 months prior to the annual index review will be removed from the UKX and will not be eligible for inclusion until the next annual review. New issues will become eligible for inclusion in the UKX at the quarterly review following their issuance provided that they have a minimum trading record of at least 20 trading days prior to the review date and that they have turned over at least 0.025% of their shares in issue (after the application of any investability weightings) based on their median daily trade per month since listing.

Market Capitalization Ranking — Eligible stocks that pass the price and liquidity screens are ranked by the Committee according to their market capitalization before the application of any adjustments based on the extent to which the shares are publicly traded. Only the quoted equity capital of a constituent company will be included in the calculation of its market capitalization. Where a company has two or more classes of equity, secondary lines will be included in the calculation of the market capitalization of the company only if those lines are significant and liquid. The Committee will add a stock to the UKX at the quarterly review if it has risen to 90th place or above on the full market capitalization rankings and will delete a stock at the quarterly review if it has fallen to 111th place or below on these rankings. Market capitalization rankings are calculated using data as of the close of business on the day before the review.

100 Constituent Limitation — The UKX always contains 100 constituents. If a greater number of companies qualify to be inserted in the UKX than qualify to be removed, the lowest ranking constituents of the UKX will be removed so that the total number of stocks remains at 100 following inclusion of those that qualify to be inserted. Likewise, if a greater number of companies qualify to be removed than to be inserted at the quarterly review, securities of the highest ranking companies that are then not included in the UKX will be inserted to match the number of companies being removed, in order to maintain the total at 100.

Index Calculation

The UKX is a market capitalization weighted index. This means that the price movement of a larger company (that is, one representing larger percentage of the UKX) will have a greater effect on the level of the UKX than will the price movement of a smaller company (that is, one representing a smaller percentage of the UKX).

The value of the UKX is represented by a fraction, (a) the numerator of which is the sum of the product of (i) the price of each component stock, (ii) the number of shares issued for each such component and (iii) a free float factor for each such component (described more fully below), and (b) the denominator of which is a divisor. The divisor represents the total issued share capital of the UKX on the base date; the divisor may be adjusted as necessary to allow for changes in issued share capital of individual securities without distorting the UKX.

As noted above, a free float factor is applied to each index component. By employing this approach, FTSE uses the investable market capitalization, not the total market capitalization, of each constituent to determine the value of the UKX. Investable market capitalization depends on free float. The following are excluded from free float: shares directly owned by state, regional, municipal and local governments (excluding shares held by independently managed pension schemes for governments); shares held by sovereign wealth funds where each holding is 10% or greater of the total number of shares in issue (if the holding subsequently decreases below 10%, the shares will be excluded from free float until the holding falls below 7%); shares held by directors, senior executives and managers of the company, and by their family and direct relations, and by companies with which they are affiliated; shares held within employee share plans; shares held by public companies or by non-listed subsidiaries of public companies; shares held by founders, promoters, former directors, founding venture capital and private equity firms, private companies and individuals (including employees) where the holding is 10% or greater of the total number of shares in issue (if the holding subsequently decreases below 10%, the shares will be excluded from free float until the holding falls below 7%); all shares where the holder is subject to a lock-in clause (for the duration of that clause, after which free float changes resulting from the expiration of a lock-in clause will be implemented at the next quarterly review subsequent to there being a minimum of 20 business days between the expiration date of such lock-in clause and the index review date); shares held for publicly announced strategic reasons, including shares held by several holders acting in concert; and shares that are subject to ongoing contractual agreements (such as swaps) where they would ordinarily be treated as restricted.

The UKX is recalculated whenever errors or distortions occur that are deemed to be significant. Users of the UKX are notified through appropriate media.

Index Maintenance

The UKX is reviewed quarterly for changes in free float. A stock's free float is also reviewed and adjusted if necessary following certain corporate events. Following a takeover or merger involving one or more index constituents, the free float restrictions will be based on restricted holdings in the successor company and will be implemented when the offer has completed (or lapsed) unless it directly reflects a corporate action independent of and not conditional on the takeover or merger completing or lapsing. If the corporate event includes another corporate action that affects the UKX, a change in free float is implemented at the same time as the corporate action. If there is no corporate action, the change in free float will be applied at the next quarterly review. Following the application of an initial free float restriction, a stock's free float will only be changed if its rounded free float moves more than three percentage points above or below the existing rounded free float. Companies with a free float of above 99% and of 15% or below will not be subject to the three percentage points threshold.

At each quarterly review, the Committee publishes a Reserve List containing the six highest ranking non-constituents of the UKX. The Reserve List will be used in the event that one or more constituents are deleted from the UKX during the period up to the next quarterly review. If a merger or

takeover results in one index constituent being absorbed by another constituent, the resulting company will remain a constituent and a vacancy will be created. This vacancy will be filled by selecting the highest ranking security in the Reserve List as at the close of the index calculation two days prior to the deletion and related index adjustment. If an index constituent is taken over by a non-constituent company, the original constituent will be removed and replaced by the highest ranking non-constituent on the Reserve List. Any eligible company resulting from the takeover will be eligible to become the replacement company if it is ranked higher than any other company on the Reserve List. If a constituent company is split to form two or more companies, then the resulting companies will be eligible for inclusion as index constituents, based on their respective full market capitalizations (before the application of any investability weightings), provided that they qualify in all other respects. Any eligible company resulting from a split that has no available market price after 20 business days will be removed. If a split results in the inclusion of an ineligible non-equity security, such security will remain in the UKX for two trading days and then be removed. If a constituent is delisted or ceases to have a firm quotation, it will be removed from the list of constituents and be replaced by the highest ranking eligible company from the Reserve List as at the close of the index calculation two days prior to the deletion.

Capitalization Adjustments

A premium listed secondary line of a company will be considered for index inclusion if its total market capitalization before the application of any adjustments based on the extent to which the shares are publicly traded, is greater than 25% of the total market capitalization of the company's principal line and the secondary line is eligible, in its own right. Should the total market capitalization of a secondary line fall below 20% of the total market capitalization of the company's principal line at an annual review, the secondary line will be deleted from the UKX unless its total market capitalization remains above the qualification level for continued inclusion as a constituent of the UKX at that review. Where a company has partly paid shares, these shares, together with the outstanding call(s), are both included in the UKX. Warrants to purchase ordinary shares and convertible securities are not included in the UKX until they are exercised or converted.

Share Weighting Changes — For the purposes of computing the UKX, the number of shares in issue for each constituent security is expressed to the nearest share and, to prevent a large number of insignificant weighting changes, the number of shares in issue for each constituent security is amended only when the total shares in issue held within the index system changes by more than 1% on a cumulative basis. Changes will be made quarterly after the close of business on the third Friday of March, June, September and December. The data for these changes will be taken from the close of business on the third Wednesday of the month prior to the review month.

If a corporate action is applied to a constituent, which involves a change in the number of shares in issue, the change in shares will be applied simultaneously with the corporate action. If accumulated changes in the number of shares in issue add up to 10% or more or when an accumulated share change represents \$2 billion of a company's total market capitalization, they are implemented between quarters. If an adjustment is made, it will be applied for the first time at the next review in March of the following year. All adjustments are made before the start of the index calculation on the day concerned, unless market conditions prevent this.

Shares in Issue Increase — When a company increases the number of shares it has in issue, the market capitalization of that company increases and the total market capitalization will rise accordingly. The index divisor is adjusted to maintain a constant index value.

Weighting Amendments — The market capitalization of a company is adjusted to take account of various corporate actions, in accordance with the rules of the UKX. To prevent the value of the UKX from changing due to such an event, all corporate actions which affect the market capitalization of the UKX require an offsetting divisor adjustment. By adjusting the divisor, the value of the UKX remains constant before and after the event. Below is a summary of the more frequent corporate actions and their resulting adjustment.

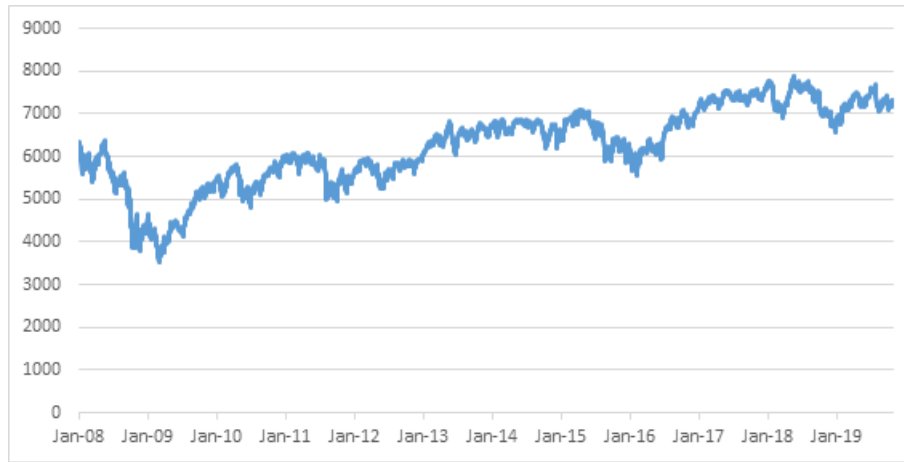
Market Disruption

If there is a system problem or situation in the market that is judged by FTSE to affect the quality of the constituent prices at any time when the UKX is being calculated, the UKX will be declared indicative (e.g., normally where a "fast market" exists in the equity market). The message "IND" will be displayed against the index value calculated by FTSE. The Committee must be satisfied that an accurate and reliable price for the purposes of determining the market value of a company exists. The Committee may exclude a security from the UKX should it consider that an "accurate and reliable" price is not available.

If any event leads to an error in the value of the UKX that is greater than three basis points at the local country index level, then the UKX will generally be recalculated, subject to discovery, within one month of the event. Where an alternative approach is available, FTSE may, at its sole discretion, choose not to recalculate.

Historical Performance of the UKX

The following graph sets forth the daily historical performance of the UKX in the period from January 1, 2008 through November 1, 2019. We obtained this historical data from Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P. On November 1, 2019 the closing level of the UKX was 7,302.42.



This historical data on the UKX is not necessarily indicative of the future performance of the UKX or what the value of the Notes may be. Any historical upward or downward trend in the level of the UKX during any period set forth above is not an indication that the level of the UKX is more or less likely to increase or decrease at any time over the term of the Notes.

Before investing in the Notes, you should consult publicly available sources for the levels of the UKX.

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The Nikkei Stock Average Index

The NKY, also known as the Nikkei 225 Index, is an equity index calculated, published, and disseminated by Nikkei Inc. The NKY measures the composite price performance of selected Japanese stocks. The NKY is currently based on 225 stocks (each, an "Index Stock") trading on the Tokyo Stock Exchange ("TSE") and represents a broad cross-section of Japanese industry. All 225 of the Index Stocks are listed in the First Section of the TSE. Index Stocks listed in the First Section are among the most actively traded stocks on the TSE. The NKY started on September 7, 1950. However, it was retroactively calculated back to May 16, 1949, when the TSE reopened for the first time after World War II.

Calculation of the NKY

The NKY is a modified, price-weighted index. Each Index Stock's weight is based on its price per share rather than the total market capitalization of the issuer. Nikkei Inc. calculates the NKY by multiplying the per share price of each Index Stock by the corresponding weighting factor for that Index Stock (a "Weight Factor"), calculating the sum of all these products and dividing that sum by a divisor. The divisor is subject to periodic adjustments as set forth below. Each Weight Factor is computed by dividing ¥50 by the presumed par value of the relevant Index Stock, so that the share price of each Index Stock when multiplied by its Weight Factor corresponds to a share price based on a uniform par value of ¥50. Each Weight Factor represents the number of shares of the related Index Stock which are included in one trading unit of the NKY. The stock prices used in the calculation of the NKY are those reported by a primary market for the Index Stocks, currently the TSE. The level of the NKY is currently calculated once per 15 seconds during TSE trading hours.

In order to maintain continuity in the level of the NKY in the event of certain changes due to non-market factors affecting the Index Stocks, such as the addition or deletion of stocks, stock splits, or increase in paid-in capital, the divisor used in calculating the NKY is adjusted in a manner designed to prevent any instantaneous change or discontinuity in the level of the NKY. The divisor remains at the new value until a further adjustment is necessary as the result of another change. In the event of a change affecting any Index Stock, the divisor is adjusted in such a way that the sum of all share prices immediately after the change multiplied by the applicable Weight Factor and divided by the new divisor, i.e., the level of the NKY immediately after the change, will equal the level of the NKY immediately prior to the change.

Index Maintenance

The NKY is reviewed annually at the beginning of October. The purpose of the review is to maintain the representative nature of the Index Stocks. Stocks with high market liquidity are added and those with low liquidity are deleted. At the same time, to take changes in industry structure into account, the balance of the sectors, in terms of the number of constituents, is considered. Liquidity of a stock is assessed by the two measures: "trading value" and "magnitude of price fluctuation by volume," which is calculated as (high price/low price) / volume. Among stocks on the TSE

First Section, the top 450 stocks in terms of liquidity are selected to form the "high liquidity group". Those constituents that are not in the high liquidity group are deleted. Those non-constituent stocks which are in the top 75 of the high liquidity group are added.

After the liquidity deletions and additions, constituents are deleted and added to balance the number of constituents among sectors, and to make the total number of the constituents equal 225. Among the 450 "high liquidity" stocks, half of those that belong to a sector are designated as the "appropriate number of stocks" for that sector. The actual number of constituents in a sector is then compared with its "appropriate number," and if the actual number is larger or smaller than the "appropriate number," then components are deleted or added, as necessary. Stocks to be deleted are selected from stocks with lower liquidity and stocks to be added are selected from stocks with higher liquidity. Stocks selected according to the foregoing procedures are candidates for addition or deletion, as applicable, and the final determinations will be made by Nikkei Inc.

The NKY is also reviewed on an ongoing basis in response to extraordinary developments, such as bankruptcies or mergers. Any stock becoming ineligible for listing in the TSE First Section due to any of the following reasons will be removed from the NKY: (i) bankruptcy and liquidation events; (ii) corporate restructurings, such as mergers, share exchanges or share transfers; (iii) excess debt or other reasons; or (iv) transfer to the TSE Second Section. In addition, a component stock designated as "security under supervision" becomes a deletion candidate. However, the decision to delete such a candidate will be made by examining the sustainability and the probability of delisting for each individual case. Upon deletion of a stock from the NKY, Nikkei Inc. will generally select as a replacement the most liquid stock that is both in the "high liquidity group" and in the same sector as the deleted stock. When deletions are known in advance, replacements may be selected as part of the periodic review process or by using similar procedures.

The Tokyo Stock Exchange

The TSE is one of the world's largest securities exchanges in terms of market capitalization. Trading hours for most products listed on the TSE are currently from 9:00 A.M. to 11:00 A.M. and from 12:30 P.M. to 3:00 P.M., Tokyo time, Monday through Friday.

Due to the time zone difference, on any normal trading day, the TSE will close prior to the opening of business in New York City on the same calendar day. Therefore, the closing level of the NKY on a trading day will generally be available in the U.S. by the opening of business on the same calendar day.

The TSE has adopted certain measures, including daily price floors and ceilings on individual stocks, intended to prevent any extreme short-term price fluctuations resulting from order imbalances. In general, any stock listed on the TSE cannot be traded at a price lower than the applicable price floor or higher than the applicable price ceiling. These price floors and ceilings are expressed in absolute Japanese yen, rather than percentage limits based on the closing price of the stock on the previous trading day. In addition, when there is a major order imbalance in a listed stock, the TSE posts a "special bid quote" or a "special asked quote" for that stock at a specified higher or lower price level than the stock's last sale price in order to solicit counter-orders and balance supply and demand for the stock. The TSE may also suspend the trading of individual stocks in certain limited and extraordinary circumstances, including, for example, unusual trading activity in that stock. As a result, changes in the NKY may be limited by price limitations or special quotes, or by suspension of trading, on individual stocks that make up the NKY, and these limitations, in turn, may adversely affect the market value of the notes.

Historical Performance of the NKY

The following graph sets forth the daily historical performance of the NKY in the period from January 1, 2008 through November 1, 2019. We obtained this historical data from Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P. On November 1, 2019 the closing level of the NKY was 22,850.77.



This historical data on the NKY is not necessarily indicative of the future performance of the NKY or what the value of the Notes may be. Any historical upward or downward trend in the level of the NKY during any period set forth above is not an indication that the level of the NKY is more or less likely to increase or decrease at any time over the term of the Notes.

Before investing in the Notes, you should consult publicly available sources for the levels of the NKY.

License Agreement

We have entered into an agreement with Nikkei Inc. providing us with a non-exclusive license with the right to use the NKY in exchange for a fee. The NKY is the intellectual property of Nikkei Inc. (the "index sponsor"), formerly known as Nihon Keizai Shimbun, Inc. "Nikkei", "Nikkei Stock Average", and "Nikkei 225" are the service marks of Nikkei Inc. Nikkei Inc. reserves all the rights, including copyright, to the NKY.

The Notes are not in any way sponsored, endorsed or promoted by the index sponsor. The index sponsor does not make any warranty or representation whatsoever, express or implied, either as to the results to be obtained as to the use of the NKY or the figure at which the NKY stands at any particular day or otherwise. The NKY is compiled and calculated solely by the index sponsor. However, the index sponsor shall not be liable to any person for any error in the NKY and the index sponsor shall not be under any obligation to advise any person, including a purchaser or seller of the Notes, of any error therein.

In addition, the index sponsor gives no assurance regarding any modification or change in any methodology used in calculating the NKY and is under no obligation to continue the calculation, publication and dissemination of the NKY.

The Swiss Market Index

The SMI:

- was first launched with a base level of 1,500 as of June 30, 1988; and
- is sponsored, calculated, published and disseminated by SIX Group Ltd., certain of its subsidiaries, and the Management Committee of the SIX Swiss Exchange.

The SMI is a price return float-adjusted market capitalization-weighted index of the 20 largest stocks traded on the SIX Swiss Exchange. The Management Committee of SIX Swiss Exchange is supported by an Index Commission (advisory board) in all index-related matters, notably in connection with changes to the index rules and adjustments, additions and exclusions outside of the established review and acceptance period. The Index Commission meets at least twice annually.

Information regarding the SMI may be found on the SIX Swiss Exchange's website. Please note that information included in that website is not included or incorporated by reference in this document.

Index Composition and Selection Criteria

The SMI is comprised of the 20 highest ranked stocks traded on the SIX Swiss Exchange that have a free float of 20% or more and that are not investment companies. The equity universe is largely Swiss domestic companies; however, in some cases, foreign issuers with a primary listing on the SIX Swiss Exchange or investment companies that do not hold any shares of any other eligible company and that have a primary listing on the SIX Swiss Exchange may be included.

The ranking of each security is determined by a combination of the following criteria:

- average free-float market capitalization (compared to the capitalization of the entire SIX Swiss Exchange index family), and
- cumulative on order book turnover (compared to the total turnover of the SIX Swiss Exchange index family).

Each of these two factors is assigned a 50% weighting in ranking the stocks eligible for the SMI.

The SMI is reconstituted annually after prior notice of at least two months on the third Friday in September after the close of trading.

The reconstitution is based on data from the previous July 1 through June 30. Provisional interim selection (ranking) lists are also published following the end of the third, fourth and first financial quarters.

In order to reduce turnover, an index constituent will not be replaced unless it is ranked below 23 or, if it is ranked 21 or 22, if another share ranks 18 or higher. If a company has primary listings on several exchanges and less than 50% of that company's total turnover is generated on the SIX Swiss Exchange, it will not be included in the SMI unless it ranks at least 18 or better on the selection list on the basis of its turnover alone (i.e., without considering its free float).

Maintenance of the Index

Constituent Changes. In the case of major market changes as a result of capital events such as mergers or new listings, the Management Committee of the SIX Swiss Exchange can decide at the request of the Index Commission that a security should be admitted to the SMI outside the annual review period as long as it clearly fulfills the criteria for inclusion. For the same reasons, a security can also be excluded if the requirements for admission to the SMI are no longer fulfilled. As a general rule, extraordinary acceptances into the SMI take place after a three-month period on a quarterly basis after the close of trading on the third Friday of March, June, September and December (for example, a security listed on or before the fifth trading day prior to the end of November cannot be included until the following March). An announced insolvency is deemed to be an extraordinary event and the security will be removed from the SMI with five trading days' prior notice if the circumstances permit such notice.

Capped Weightings and Intra-Quarter Breaches. The weight of any index constituent that exceeds a weight of 18% within the index is reduced to that value at each quarterly index review by applying a capping factor to the calculation of such constituent's free float market capitalization. A constituent's number of shares and free float market capitalization are used to determine its capping factor. The excess weight (the difference of the original weight minus the capped weight) is distributed proportionally across the other index constituents. The constituents are also capped to 18% as soon as two index constituents exceed a weight of 20% (an "intra-quarter breach"). If an intra-quarter breach is observed after the close of the markets, a new calculation of the capping factors is executed immediately and communicated to the market in order to ensure that the maximum weight per constituent is capped at 18% for the opening on the next day. In order to achieve a capped weighting of the index without causing market distortion, a stepwise reduction is conducted based on the quarterly index reviews to ensure that no change in the weight (as a result of capping) from one review to the next exceeds 3%. The transition period is in effect until no component has a weight larger than 18%. In the case of an intra-quarter breach, the weights are limited to the last defined weights as of the prior review.

Number of Shares and Free Float. The securities included in the SMI are weighted according to their free float. This means that shares deemed to be in firm hands are subtracted from the total market capitalization of that company. The free float is calculated on the basis of outstanding shares. Issued and outstanding equity capital is, as a rule, the total amount of equity capital that has been fully subscribed and wholly or partially paid in and documented in the Commercial Register. Not counting as issued and outstanding equity capital are the approved capital and the conditional capital of a company. The free float is calculated on the basis of listed shares only. If a company offers several different categories of listed participation rights, each is treated separately for purposes of index calculation.

Shares held deemed to be in firm hands are shareholdings that have been acquired by one person or a group of persons in companies domiciled in Switzerland and which, upon exceeding 5%, have been reported to the SIX Swiss Exchange. Shares of persons and groups of persons who are subject to a shareholder agreement which is binding for more than 5% of the listed shares or who, according to publicly known facts, have a long-term interest in a company, are also deemed to be in firm hands.

For the calculation of the number of shares in firm hands, the SIX Swiss Exchange may also use other sources than the reports submitted to it. In particular, the SIX Swiss Exchange may use data gained from issuer surveys that it conducts itself.

In general, shares held by custodian nominees, trustee companies, investment funds, pension funds and investment companies are deemed free-floating regardless whether a report has been made to the SIX Swiss Exchange. The SIX Swiss Exchange classifies at its own discretion persons and groups of persons who, because of their area of activity or the absence of important information, cannot be clearly assigned.

The free-float rule applies only to bearer shares and registered shares. Capital issued in the form of participation certificates and bonus certificates is taken into full account in calculating the SMI because it does not confer voting rights.

The number of securities in the SMI and the free-float factors are adjusted after the close of trading on four adjustment dates per year, the third Friday of March, June, September and December. Such changes are pre-announced at least one month before the adjustment date, although the SIX Exchange reserves the right to take account of recent changes before the adjustment date in the actual adjustment, so the definite new securities are announced five trading days before the adjustment date.

In order to avoid frequent slight changes to the weighting and to maintain the stability of the SMI, any extraordinary change of the total number of outstanding securities or the free float will only result in an extraordinary adjustment if it exceeds 10% and 5% respectively and is in conjunction with a corporate action.

After a takeover, the SIX Swiss Exchange may, in exceptional cases, adjust the free float of a company upon publication of the end results after a five-day notification period or may exclude the security from the relevant index family. When an insolvency has been announced, an extraordinary adjustment will be made and the affected security will be removed from the SMI after five trading days' notice.

The SIX Exchange reserves the right to make an extraordinary adjustment, in exceptional cases, without observing the notification period.

Calculation of the Index

The SIX Exchange calculates the SMI using the "Laspeyres formula," with a weighted arithmetic mean of a defined number of securities issues. The formula for calculating the index value can be expressed as follows:

$$\text{Index} = \frac{\text{Free Float Market Capitalization of the index}}{\text{Divisor}}$$

The "free float market capitalization of the index" is equal to the sum of the product of the last-paid price, the number of shares, the free-float factor, the capping factor and, if a foreign stock is included, the current CHF exchange rate as of the time the index value is being calculated. The index value is calculated in real time and is updated whenever a trade is made in a component stock. Where any index component stock price is unavailable on any trading day, the SIX Swiss Exchange will use the last reported price for such component stock. Only prices from the SIX Swiss Exchange's electronic order book are used in calculating the SMI.

Divisor Value and Adjustments

The divisor is a technical number used to calculate the SMI and is adjusted to reflect changes in market capitalization due to corporate events, and is adjusted by SIX Swiss Exchange to reflect corporate events, as described in the index rules.

Historical Performance of the SMI

The following graph sets forth the daily historical performance of the SMI in the period from January 1, 2008 through November 1, 2019. We obtained this historical data from Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P. On November 1, 2019 the closing level of the SMI was 10,252.24.



This historical data on the SMI is not necessarily indicative of the future performance of the SMI or what the value of the Notes may be. Any historical upward or downward trend in the level of the SMI during any period set forth above is not an indication that the level of the SMI is more or less likely to increase or decrease at any time over the term of the Notes.

Before investing in the Notes, you should consult publicly available sources for the levels of the SMI.

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The Notes are not in any way sponsored, endorsed, sold or promoted by the SIX Swiss Exchange and the SIX Swiss Exchange makes no warranty or representation whatsoever, express or implied, either as to the results to be obtained from the use of the SMI and/or the level at which the SMI stands at any particular time on any particular day. However, the SIX Swiss Exchange shall not be liable (whether through negligence or otherwise) to any person for any error in the index and the SIX Swiss Exchange shall not be under any obligation to disclose such errors.

SIX[®], SIX Swiss Exchange[®], SPI[®], Swiss Performance Index (SPI)[®], SPI EXTRA[®], SMI[®], Swiss Market Index[®] (SMI)[®], SMIM[®], SMI MID (SMIM)[®], SMI Expanded[®], SXI[®], SXI LIFE SCIENCES[®], SXI Bio+Medtech[®], SBI[®], SBI Swiss Bond Index[®], VSMI[®], SIX Immobilienfonds Index[®] and SIX Quotematch[®] are trademarks that have been registered in Switzerland and/or abroad by the SIX Swiss Exchange. Their use is subject to a license.

The S&P[®]/ASX 200 Index

The AS51:

- was first launched in 1979 by the Australian Securities Exchange and was acquired and re-launched by S&P on April 3, 2000; and
- is sponsored, calculated, published and disseminated by S&P Dow Jones Indices LLC, a part of McGraw Hill Financial.

The AS51 includes 200 companies and covers approximately 80% of the Australian equity market by market capitalization. As discussed below, the AS51 is not limited solely to companies having their primary operations or headquarters in Australia or to companies having their primary listing on the Australian Securities Exchange (the "ASX"). All ordinary and preferred shares (if such preferred shares are not of a fixed income nature) listed on the ASX, including secondary listings, are eligible for the AS51. Hybrid stocks, bonds, warrants, preferred stock that provides a guaranteed fixed return and listed investment companies are not eligible for inclusion.

The AS51 is intended to provide exposure to the largest 200 eligible securities that are listed on the ASX by float-adjusted market capitalization. Constituent companies for the AS51 are chosen based on market capitalization, public float and liquidity. All index-eligible securities that have their primary or secondary listing on the ASX are included in the initial selection of stocks from which the 200 index stocks may be selected.

The float-adjusted market capitalization of companies is determined based on the daily average market capitalization over the last six months. The security's price history over the last six months, the latest available shares on issue and the investable weight factor (the "IWF"), are the factors relevant to the calculation of daily average market capitalization. The IWF is a variable that is primarily used to determine the available float of a security for ASX listed securities.

Information regarding the S&P[®]/ASX 200 Index may be found on S&P's website. That information is updated from time to time on that website. Please note that information included in that website is not included or incorporated by reference in this document.

Number of Shares

When considering the index eligibility of securities for inclusion or promotion into S&P/ASX indices, the number of index securities under consideration is based upon the latest available ASX quoted securities. For domestic securities (companies incorporated in Australia and traded on the ASX, companies incorporated overseas but exclusively listed on the ASX and companies incorporated overseas and traded on other markets but most of its trading activity is on the ASX), this figure is purely based upon the latest available data from the ASX.

Foreign-domiciled securities may quote the total number of securities on the ASX that is representative of their global equity capital; whereas other foreign-domiciled securities may quote securities on the ASX on a partial basis that represents their Australian equity capital. In order to overcome this inconsistency, S&P will quote the number of index securities that are represented by CHESS Depository Interests ("CDIs") for a foreign entity. When CDIs are not issued, S&P will use the total securities held on the Australian register (CHESS and, where supplied, the issuer sponsored register). This quoted number for a foreign entity is representative of the Australian equity capital, thereby allowing the AS51 to be increasingly reflective of the Australian market.

The number of CDIs or shares of a foreign entity quoted on the ASX can experience more volatility than is typically the case for ordinary shares on issue. Therefore, an average number on issue will be applied over a six-month period.

Where CDI information is not supplied to the ASX by the company or the company's share register, estimates for Australian equity capital will be drawn from CHESS data and, ultimately, registry-sourced data.

IWF

The IWF represents the float-adjusted portion of a stock's equity capital. Therefore any strategic holdings that are classified as either corporate, private or government holdings reduce the IWF which, in turn, results in a reduction in the float-adjusted market capital.

The IWF ranges between 0 and 1, is calculated as $1 - \text{Sum of the \% held by strategic shareholders who possess 5\% or more of issued shares}$, and is an adjustment factor that accounts for the publicly available shares of a company. A company must have a minimum IWF of 0.3 to be eligible for index inclusion.

S&P identifies the following shareholders whose holdings are considered to be control blocks and are subject to float adjustment:

1. Government and government agencies;

2. Controlling and strategic shareholders/partners;
3. Any other entities or individuals which hold more than 5%, excluding insurance companies, securities companies and investment funds; and

Other restricted portions such as treasury stocks.

Liquidity Test

Only stocks that are regularly traded are eligible for inclusion. Eligible stocks are considered for index inclusion based on their stock median liquidity (median daily value traded divided by its average float-adjusted market capitalization for the last six months relative to the market capitalization weighted average of the stock median liquidities of the 500 constituents of the All Ordinaries index, another member of the S&P/ASX index family).

Index Maintenance

S&P rebalances constituents quarterly to ensure adequate market capitalization and liquidity using the previous six months' data to determine index eligibility. Quarterly review changes take effect the third Friday of March, June, September and December. Eligible stocks are considered for index inclusion based on their float-adjusted market capitalization rank relative to the stated quota of 200 securities. For example, a stock that is currently in the S&P/ASX 300 and is ranked at 175, based on float-adjusted market capitalization, within the universe of eligible securities may be considered for inclusion into the AS51, provided that liquidity hurdles are met.

In order to limit the level of index turnover, eligible securities will only be considered for index inclusion once another stock is excluded due to a sufficiently low rank and/or liquidity, based on the float-adjusted market capitalization. Potential index inclusions and exclusions need to satisfy buffer requirements in terms of the rank of the stock relative to a given index. The buffers are established to limit the level of index turnover that may take place at each quarterly rebalancing.

Between rebalancing dates, an index addition is generally made only if a vacancy is created by an index deletion. Index additions are made according to float-adjusted market capitalization and liquidity. An initial public offering is added to the AS51 only when an appropriate vacancy occurs and is subject to proven liquidity for at least two months. An exception may be made for extraordinary large offerings where sizeable trading volumes justify index inclusion.

Deletions can occur between index rebalancing dates due to acquisitions, mergers and spin-offs or due to suspension or bankruptcies. The decision to remove a stock from the AS51 will be made once there is sufficient evidence that the transaction will be completed. Stocks that are removed due to mergers and acquisitions are removed from the AS51 at the cash offer price for cash-only offers. Otherwise, the best available price in the market is used.

Share numbers for all index constituents are updated quarterly and are rounded to the nearest thousand. The update to the number of issued shares will be considered if the change is at least 5% of the float adjusted shares or \$100 million in value.

Share updates for foreign-domiciled securities will take place annually at the March rebalancing. The update to the number of index shares will only take place when the six-month average of CDIs or the Total Securities held in the Australian branch of issuer sponsored register (where supplied) and in CHESSE, as of the March rebalancing, differs from the current index shares by either 5% or a market-cap dollar amount greater than A\$100 million. Where CDI information is not supplied to the ASX by the company or the company's share register, estimates for Australian equity capital will be drawn from CHESSE data and, ultimately, registry-sourced data.

Intra-quarter share changes are implemented at the effective date or as soon as reliable information is available; however, they will only take place in the following circumstances:

- changes in a company's float-adjusted shares of 5% or more due to market-wide shares issuance;
- rights issues, bonus issues and other major corporate actions; and
- share issues resulting from index companies merging and major off-market buy-backs.

Share changes due to mergers or acquisitions are implemented when the transaction occurs, even if both of the companies are not in the same index and regardless of the size of the change.

IWFs are reviewed annually as part of the September quarterly review. However, any event that alters the float of a security in excess of 5% will be implemented as soon as practicable by an adjustment to the IWF.

The function of the IWF is also to manage the index weight of foreign-domiciled securities that quote shares on the basis of CDIs. Due to the volatility that is displayed by CDIs, unusually large changes in the number of CDIs on issue could result. Where this is the case, the IWF may be used to limit the effect of unusually large changes in the average number of CDIs (and, thereby, limit the potential to manipulate this figure). Where the Australian Index Committee sees fit to apply the IWF in this manner, the rationale for the decision will be announced to the market. This will be reviewed annually at the March-quarter index rebalancing date.

Calculation of the AS51

The AS51 is calculated using a base-weighted aggregate methodology. The value of the AS51 on any day for which an index value is published is determined by a fraction, the numerator of which is the aggregate of the price of each stock in the AS51 times the number of shares of such stock included in the AS51 times that stock's IWF, and the denominator of which is the divisor, which is described more fully below.

In order to prevent the value of the AS51 from changing due to corporate actions, all corporate actions may require S&P to make an index or divisor adjustment, as described in S&P's rules. This helps maintain the value of the AS51 and ensures that the movement of the AS51 does not reflect the corporate actions of the individual companies that comprise the AS51.

In situations where an exchange is forced to close early due to unforeseen events, such as computer or electric power failures, weather conditions or other events, S&P will calculate the closing price of the indices based on (1) the closing prices published by the exchange or (2) if no closing price is

available, the last regular trade reported for each security before the exchange closed. If the exchange fails to open due to unforeseen circumstances, S&P treats this closure as a standard market holiday. The AS51 will use the prior day's closing prices and shifts any corporate actions to the following business day. If all exchanges fail to open or in other extreme circumstances, S&P may determine not to publish the AS51 for that day.

S&P reserves the right to recalculate the AS51 under certain limited circumstances.

Historical Performance of the AS51

The following graph sets forth the daily historical performance of the AS51 in the period from January 1, 2008 through November 1, 2019. We obtained this historical data from Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P. On November 1, 2019 the closing level of the AS51 was 6,669.095.



This historical data on the AS51 is not necessarily indicative of the future performance of the AS51 or what the value of the Notes may be. Any historical upward or downward trend in the level of the AS51 during any period set forth above is not an indication that the level of the AS51 is more or less likely to increase or decrease at any time over the term of the Notes.

Before investing in the Notes, you should consult publicly available sources for the levels of the AS51.

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The Notes are not sponsored, endorsed, sold or promoted by Standard & Poor's, a division of The McGraw-Hill Companies, Inc. ("S&P"). Neither S&P nor the Australia Stock Exchange make any representation or warranty, express or implied, to the owners of the Notes or any member of the public regarding the advisability of investing in securities generally or in the Notes particularly or the ability of the S&P[®]/ASX 200 Index to track general stock market performance. S&P's and the Australia Stock Exchange's only relationship to MLPF&S is the licensing of certain trademarks and trade names of S&P and the Australia Stock Exchange and of the S&P[®]/ASX 200 Index, which index is determined, composed and calculated by S&P without regard to us, MLPF&S or the Notes. S&P and the Australia Stock Exchange have no obligation to take our needs or the needs of MLPF&S or the owners of the Notes into consideration in determining, composing or calculating the S&P[®]/ASX 200 Index. S&P and the Australia Stock Exchange are not responsible for and have not participated in the determination of the timing of, prices at, or quantities of the Notes to be issued or in the determination or calculation of the equation by which the Notes are to be converted into cash. S&P and the Australia Stock Exchange have no obligation or liability in connection with the administration, marketing or trading of the Notes.

S&P AND THE AUSTRALIA STOCK EXCHANGE DO NOT GUARANTEE THE ACCURACY AND/OR THE COMPLETENESS OF THE S&P[®]/ASX 200 INDEX OR ANY DATA INCLUDED THEREIN AND S&P AND THE AUSTRALIA STOCK EXCHANGE SHALL HAVE NO LIABILITY FOR ANY ERRORS, OMISSIONS, OR INTERRUPTIONS THEREIN. S&P AND THE AUSTRALIA STOCK EXCHANGE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO RESULTS TO BE OBTAINED BY US, MLPF&S, OWNERS OF THE NOTES OR ANY OTHER PERSON OR ENTITY FROM THE USE OF THE S&P[®]/ASX 200 INDEX OR ANY DATA INCLUDED THEREIN. S&P AND THE AUSTRALIA STOCK EXCHANGE MAKE NO EXPRESS OR IMPLIED WARRANTIES, AND EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE WITH RESPECT TO THE S&P[®]/ASX 200 INDEX OR ANY DATA INCLUDED THEREIN. WITHOUT LIMITING ANY OF THE FOREGOING, IN NO EVENT SHALL S&P OR THE AUSTRALIA STOCK EXCHANGE HAVE ANY LIABILITY FOR ANY SPECIAL, PUNITIVE, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS), EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES.

The Hang Seng® Index

The HSI is calculated, maintained and published by HSIL, a wholly owned subsidiary of Hang Seng® Bank, in concert with the HSI Advisory Committee and was first developed, calculated and published on November 24, 1969. The HSI is a free float-adjusted market capitalization weighted stock market index that is designed to reflect the performance of the Hong Kong stock market.

Only companies with a primary listing on the main board of the Stock Exchange of Hong Kong ("SEHK") are eligible as constituents of the HSI. Mainland China enterprises that have an H-share listing in Hong Kong will not be eligible for inclusion in the HSI unless the company has no unlisted share capital. In addition, to be eligible for selection, a company: (1) must be among those that constitute the top 90% of the total market value of all primary listed shares on the SEHK (the market value of a company refers to the average of its month-end market capitalizations for the past 12 months); (2) must be among those that constitute the top 90% of the total turnover of all primary listed shares on the SEHK in a sufficient number of measurement sub-periods (turnover is assessed over the last eight quarterly sub-periods: if a company was in the top 90% in any of the most recent four sub-periods, it receives two points; if it was in the top 90% in any of the latter four sub-periods, it receives one point. A company must attain a "score" of eight points to meet the turnover requirement); and (3) should normally have a listing history of 24 months (there are exceptions for companies that have shorter listing histories but large market values and/or high turnover scores). From the many eligible candidates, final selections are based on the following: (1) the market value and turnover rankings of the companies; (2) the representation of the sub-sectors within the HSI directly reflecting that of the market; and (3) the financial performance of the companies.

Calculation of the HSI

The calculation methodology of the HSI is a free float-adjusted market capitalization weighting with a 10% cap on individual stocks. Under this calculation methodology, shares held by any entities (excluding custodians, trustees, mutual funds and investment companies) which control more than 5% of shares are excluded for index calculation:

- *Strategic holdings* (governments and affiliated entities or any other entities which hold substantial shares in the company would be considered as non-freefloat unless otherwise proved);
- *Directors' and management holdings* (directors, members of the board committee, principal officers or founding members);
- *Corporate cross holdings* (publicly traded companies or private firms / institutions); and
- *Lock-up shares* (shareholdings with a publicly disclosed lock-up arrangement).

A free float-adjusted factor representing the proportion of shares that is free floated as a percentage of the issued shares, is rounded up to the nearest multiple of 5% for the calculation of the HSI and is updated quarterly.

A cap of 10% on individual stock weightings is applied. A cap factor is calculated quarterly to coincide with the regular update of the free float-adjusted factor. Additional re-capping is performed upon constituent changes.

The formula for the index calculation is as follows:

$$\text{Current Index} = \frac{\sum (P_t \times IS \times FAF \times CF)}{\sum (P_{t-1} \times IS \times FAF \times CF)} \times \text{Yesterday's Closing Index}$$

where:

P_t : current price at day t ;

P_{t-1} : closing price at day $t-1$;

IS : number of issued shares;

FAF : free float-adjusted factor, which is between 0 and 1; and

CF : capping factor, which is between 0 and 1.

Historical Performance of the HSI

The following graph sets forth the daily historical performance of the HSI in the period from January 1, 2008 through November 1, 2019. We obtained this historical data from Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P. On November 1, 2019 the closing level of the HSI was 27,100.76.



This historical data on the HSI is not necessarily indicative of the future performance of the HSI or what the value of the Notes may be. Any historical upward or downward trend in the level of the HSI during any period set forth above is not an indication that the level of the HSI is more or less likely to increase or decrease at any time over the term of the Notes.

Before investing in the Notes, you should consult publicly available sources for the levels of the HSI.

License Agreement

We or one of our affiliates has entered into a non-exclusive license agreement with HSIL and Hang Seng Data Services Limited whereby we or one of our affiliates, in exchange for a fee, is permitted to use the HSI in connection with certain securities, including the Notes. We are not affiliated with HSIL; the only relationship between HSIL and us is any licensing of the use of HSIL's indices and trademarks related to us.

THE HSI IS PUBLISHED AND COMPILED BY HANG SENG INDEXES COMPANY LIMITED PURSUANT TO A LICENSE FROM HANG SENG DATA SERVICES LIMITED. THE MARK AND NAME HANG SENG CHINA ENTERPRISES INDEX ARE PROPRIETARY TO HANG SENG DATA SERVICES LIMITED. HANG SENG INDEXES COMPANY LIMITED AND HANG SENG DATA SERVICES LIMITED HAVE AGREED TO THE USE OF, AND REFERENCE TO, THE HSI BY US IN CONNECTION WITH THE NOTES, BUT NEITHER HANG SENG INDEXES COMPANY LIMITED NOR HANG SENG DATA SERVICES LIMITED WARRANTS OR REPRESENTS OR GUARANTEES TO ANY BROKER OR HOLDER OF THE NOTES OR ANY OTHER PERSON (I) THE ACCURACY OR COMPLETENESS OF THE HSI AND ITS COMPUTATION OR ANY INFORMATION RELATED THERETO; OR (II) THE FITNESS OR SUITABILITY FOR ANY PURPOSE OF THE HSI OR ANY COMPONENT OR DATA COMPRISED IN IT; OR (III) THE RESULTS WHICH MAY BE OBTAINED BY ANY PERSON FROM THE USE OF THE HSI OR ANY COMPONENT OR DATA COMPRISED IN IT FOR ANY PURPOSE, AND NO WARRANTY OR REPRESENTATION OR GUARANTEE OF ANY KIND WHATSOEVER RELATING TO THE HSI IS GIVEN OR MAY BE IMPLIED. THE PROCESS AND BASIS OF COMPUTATION AND COMPILATION OF THE HSI AND ANY OF THE RELATED FORMULA OR FORMULAE, CONSTITUENT STOCKS AND FACTORS MAY AT ANY TIME BE CHANGED OR ALTERED BY HANG SENG INDEXES COMPANY LIMITED WITHOUT NOTICE. TO THE EXTENT PERMITTED BY APPLICABLE LAW, NO RESPONSIBILITY OR LIABILITY IS ACCEPTED BY HANG SENG INDEXES COMPANY LIMITED OR HANG SENG DATA SERVICES LIMITED (I) IN RESPECT OF THE USE OF AND/OR REFERENCE TO THE HSI BY US IN CONNECTION WITH THE NOTES; OR (II) FOR ANY INACCURACIES, OMISSIONS, MISTAKES OR ERRORS OF HANG SENG INDEXES COMPANY LIMITED IN THE COMPUTATION OF THE HSI; OR (III) FOR ANY INACCURACIES, OMISSIONS, MISTAKES, ERRORS OR INCOMPLETENESS OF ANY INFORMATION USED IN CONNECTION WITH THE COMPUTATION OF THE HSI WHICH IS SUPPLIED BY ANY OTHER PERSON; OR (IV) FOR ANY ECONOMIC OR OTHER LOSS WHICH MAY BE DIRECTLY OR INDIRECTLY SUSTAINED BY ANY BROKER OR HOLDER OF THE PRODUCT OR ANY OTHER PERSON DEALING WITH THE NOTES AS A RESULT OF ANY OF THE AFORESAID, AND NO CLAIMS, ACTIONS OR LEGAL PROCEEDINGS MAY BE BROUGHT AGAINST HANG SENG INDEXES COMPANY LIMITED AND/OR HANG SENG DATA SERVICES LIMITED IN CONNECTION WITH THE NOTES IN ANY MANNER WHATSOEVER BY ANY BROKER, HOLDER OR OTHER PERSON DEALING WITH THE NOTES. ANY BROKER, HOLDER OR OTHER PERSON DEALING WITH THE NOTES DOES SO THEREFORE IN FULL KNOWLEDGE OF THIS DISCLAIMER AND CAN PLACE NO RELIANCE WHATSOEVER ON HANG SENG INDEXES COMPANY LIMITED AND HANG SENG DATA SERVICES LIMITED. FOR THE AVOIDANCE OF DOUBT, THIS DISCLAIMER DOES NOT CREATE ANY CONTRACTUAL OR QUASI-CONTRACTUAL RELATIONSHIP BETWEEN ANY BROKER, HOLDER OR OTHER PERSON AND HANG SENG INDEXES COMPANY LIMITED AND/OR HANG SENG DATA SERVICES LIMITED AND MUST NOT BE CONSTRUED TO HAVE CREATED SUCH RELATIONSHIP.

Supplement to the Plan of Distribution; Role of BofAS and Conflicts of Interest

BofAS, an affiliate of BofA Finance and the lead selling agent for the sale of the Notes, will receive an underwriting discount of \$0.25 for any Note sold in this offering. UBS, as selling agent for sales of the Notes, expects to purchase from BofAS, and BofAS expects to sell to UBS, all of the Notes sold in this offering for \$9.75 per Note. UBS proposes to offer the Notes to the public at a price of \$10.00 per Note. UBS will receive an underwriting discount of \$0.25 for each Note it sells to the public. The underwriting discount will be received by UBS and its financial advisors collectively. If all of the Notes are not sold at the initial offering price, BofAS may change the public offering price and other selling terms.

BofAS, a broker-dealer affiliate of ours, is a member of the Financial Industry Regulatory Authority, Inc. ("FINRA") and will participate as lead selling agent in the distribution of the Notes. Accordingly, the offering of the Notes will conform to the requirements of FINRA Rule 5121. BofAS may not make sales in this offering to any of its discretionary accounts without the prior written approval of the account holder.

BofAS and any of our other broker-dealer affiliates may use this pricing supplement, and the accompanying product supplement, prospectus supplement and prospectus, for offers and sales in secondary market transactions and market-making transactions in the Notes. However, they are not obligated to engage in such secondary market transactions and/or market-making transactions. BofAS may act as principal or agent in these transactions, and any such sales will be made at prices related to prevailing market conditions at the time of the sale.

As agreed by BofAS and UBS, for approximately a nine-month period after the Trade Date, to the extent BofAS offers to buy the Notes in the secondary market, it will do so at a price that will exceed the estimated value of the Notes at that time. The amount of this excess will decline on a straight line basis over that period. Thereafter, if BofAS buys or sells your Notes, it will do so at prices that reflect the estimated value determined by reference to its pricing models at that time. Any price at any time after the Trade Date will be based on then-prevailing market conditions and other considerations, including the performance of the Basket Components and the remaining term of the Notes. However, none of us, the Guarantor, BofAS, UBS or any other party is obligated to purchase your Notes at any price or at any time, and we cannot assure you that any party will purchase your Notes at a price that equals or exceeds the initial estimated value of the Notes.

Any price that BofAS may pay to repurchase the Notes will depend upon then prevailing market conditions, the creditworthiness of us and the Guarantor, and transaction costs. At certain times, this price may be higher than or lower than the initial estimated value of the Notes.

Sales Outside of the United States

The Notes have not been approved for public sale in any jurisdiction outside of the United States. There has been no registration or filing as to the Notes with any regulatory, securities, banking, or local authority outside of the United States and no action has been taken by BofA Finance, BAC, BofAS or any other affiliate of BAC, or by UBS or any of its affiliates, to offer the Notes in any jurisdiction other than the United States. As such, these Notes are made available to investors outside of the United States only in jurisdictions where it is lawful to make such offer or sale and only under circumstances that will result in compliance with applicable laws and regulations, including private placement requirements.

Further, no offer or sale of the Notes is being made to residents of:

- Belize
- Aruba
- Botswana
- Belgium
- Malaysia
- Kazakhstan
- India
- Russia

You are urged to carefully review the Selling Restrictions that may be applicable to your jurisdiction beginning on page S-18 of the accompanying prospectus supplement.

European Economic Area

None of this pricing supplement, the accompanying product supplement, the accompanying prospectus or the accompanying prospectus supplement is a prospectus for the purposes of the Prospectus Regulation (as defined below). This pricing supplement, the accompanying product supplement, the accompanying prospectus and the accompanying prospectus supplement have been prepared on the basis that any offer of Notes in any Member State of the European Economic Area (the "EEA") which has implemented the Prospectus Regulation (each, a "Relevant Member State") will only be made to a legal entity which is a qualified investor under the Prospectus Regulation ("Qualified Investors"). Accordingly any person making or intending to make an offer in that Relevant Member State of Notes which are the subject of the offering contemplated in this pricing supplement, the accompanying product supplement, the accompanying prospectus and the accompanying prospectus supplement may only do so with respect to Qualified Investors. Neither BofA Finance nor BAC have authorized, nor do they authorize, the making of any offer of Notes other than to Qualified Investors. The expression "Prospectus Regulation" means Regulation (EU) 2017/1129.

PROHIBITION OF SALES TO EEA RETAIL INVESTORS – The Notes are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the EEA. For these purposes: (a) a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU, as amended (“MiFID II”); or (ii) a customer within the meaning of Directive (EU) 2016/97 (the Insurance Distribution Directive), as amended or superseded, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in the Prospectus Regulation; and (b) the expression “offer” includes the communication in any form and by any means of sufficient information on the terms of the offer and the Notes to be offered so as to enable an investor to decide to purchase or subscribe for the Notes. Consequently no key information document required by Regulation (EU) No 1286/2014, as amended (the “PRIIPs Regulation”) for offering or selling the Notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the Notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

The communication of this pricing supplement, the accompanying product supplement, the accompanying prospectus supplement, the accompanying prospectus and any other document or materials relating to the issue of the Notes offered hereby is not being made, and such documents and/or materials have not been approved, by an authorized person for the purposes of section 21 of the United Kingdom’s Financial Services and Markets Act 2000, as amended (the “FSMA”). Accordingly, such documents and/or materials are not being distributed to, and must not be passed on to, the general public in the United Kingdom. The communication of such documents and/or materials as a financial promotion is only being made to those persons in the United Kingdom who have professional experience in matters relating to investments and who fall within the definition of investment professionals (as defined in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the “Financial Promotion Order”)), or who fall within Article 49(2)(a) to (d) of the Financial Promotion Order, or who are any other persons to whom it may otherwise lawfully be made under the Financial Promotion Order (all such persons together being referred to as “relevant persons”). In the United Kingdom, the Notes offered hereby are only available to, and any investment or investment activity to which this pricing supplement, the accompanying product supplement, the accompanying prospectus supplement and the accompanying prospectus relates will be engaged in only with, relevant persons. Any person in the United Kingdom that is not a relevant person should not act or rely on this pricing supplement, the accompanying product supplement, the accompanying prospectus supplement or the accompanying prospectus or any of their contents.

Any invitation or inducement to engage in investment activity (within the meaning of Section 21 of the FSMA) in connection with the issue or sale of the Notes may only be communicated or caused to be communicated in circumstances in which Section 21(1) of the FSMA does not apply to the issuer or the guarantor.

All applicable provisions of the FSMA must be complied with in respect to anything done by any person in relation to the Notes in, from or otherwise involving the United Kingdom.

Structuring the Notes

Any payments on the Notes depend on the credit risk of BofA Finance and BAC and on the performance of the Basket. The economic terms of the Notes are based on BAC's internal funding rate, which is the rate it would pay to borrow funds through the issuance of market-linked Notes, and the economic terms of certain related hedging arrangements it enters into. BAC's internal funding rate is typically lower than the rate it would pay when it issues conventional fixed or floating rate debt securities. This difference in funding rate, as well as the underwriting discount and the hedging related charges described below, will reduce the economic terms of the Notes to you and the initial estimated value of the Notes. Due to these factors, the public offering price you pay to purchase the Notes will be greater than the initial estimated value of the Notes as of the Trade Date.

On the cover page of this preliminary pricing supplement, we have provided the initial estimated value range for the Notes. The final pricing supplement will set forth the initial estimated value of the Notes as of the Trade Date.

The Notes are our debt securities, the return on which is linked to the performance of the Basket. The related guarantees are BAC's obligations. As is the case for all of our and BAC's respective debt securities, including our market-linked notes, the economic terms of the Notes reflect our and BAC's actual or perceived creditworthiness at the time of pricing. In addition, because market-linked notes result in increased operational, funding and liability management costs to us and BAC, BAC typically borrows the funds under these types of notes at a rate, which we refer to in this pricing supplement as BAC's internal funding rate, that is more favorable to BAC than the rate that it might pay for a conventional fixed or floating rate debt security. This generally relatively lower internal funding rate, which is reflected in the economic terms of the Notes, along with the fees and charges associated with market-linked notes, typically results in the initial estimated value of the Notes on the Trade Date being less than their public offering price.

In order to meet our payment obligations on the Notes, at the time we issue the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) with BofAS or one of our other affiliates. The terms of these hedging arrangements are determined based upon terms provided by BofAS and its affiliates, and take into account a number of factors, including our and BAC's creditworthiness, interest rate movements, the volatility of the Basket Components, the tenor of the Notes and the hedging arrangements. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

BofAS has advised us that the hedging arrangements will include hedging related charges, reflecting the costs associated with, and our affiliates' profit earned from, these hedging arrangements. Since hedging entails risk and may be influenced by unpredictable market forces, actual profits or losses from these hedging transactions may be more or less than any expected amounts.

For further information, see "Risk Factors" beginning on page PS-6 above and "Supplemental Use of Proceeds" on page PS-16 of the accompanying product supplement.

U.S. Federal Income Tax Summary

The following summary of the material U.S. federal income tax considerations of the acquisition, ownership, and disposition of the Notes supplements, and to the extent inconsistent supersedes, the discussions under “U.S. Federal Income Tax Considerations” in the accompanying prospectus and under “U.S. Federal Income Tax Considerations” in the accompanying prospectus supplement and is not exhaustive of all possible tax considerations. In addition, any reference to “Morrison & Foerster LLP” in the aforementioned tax discussions in the accompanying prospectus and prospectus supplement should be read as a reference to “Sidley Austin LLP.” This summary is based upon the Internal Revenue Code of 1986, as amended (the “Code”), regulations promulgated under the Code by the U.S. Treasury Department (“Treasury”) (including proposed and temporary regulations), rulings, current administrative interpretations and official pronouncements of the IRS, and judicial decisions, all as currently in effect and all of which are subject to differing interpretations or to change, possibly with retroactive effect. No assurance can be given that the IRS would not assert, or that a court would not sustain, a position contrary to any of the tax consequences described below. This summary does not include any description of the tax laws of any state or local governments, or of any foreign government, that may be applicable to a particular holder.

Although the Notes are issued by us, they will be treated as if they were issued by Bank of America Corporation for U.S. federal income tax purposes. Accordingly throughout this tax discussion, references to “we,” “our” or “us” are generally to Bank of America Corporation unless the context requires otherwise.

This summary is directed solely to U.S. Holders and Non-U.S. Holders that, except as otherwise specifically noted, will purchase the Notes upon original issuance and will hold the Notes as capital assets within the meaning of Section 1221 of the Code, which generally means property held for investment, and that are not excluded from the discussion under “U.S. Federal Income Tax Considerations” in the accompanying prospectus.

You should consult your own tax advisor concerning the U.S. federal income tax consequences to you of acquiring, owning, and disposing of the Notes, as well as any tax consequences arising under the laws of any state, local, foreign, or other tax jurisdiction and the possible effects of changes in U.S. federal or other tax laws.

General

Although there is no statutory, judicial, or administrative authority directly addressing the characterization of the Notes, in the opinion of our counsel, Sidley Austin LLP, and based on certain factual representations received from us, the Notes should be treated as single financial contracts with respect to the Basket Components and under the terms of the Notes, we and every investor in the Notes agree, in the absence of an administrative determination or judicial ruling to the contrary, to treat the Notes in accordance with such characterization. This discussion assumes that the Notes constitute single financial contracts with respect to the Basket Components for U.S. federal income tax purposes. If the Notes did not constitute single financial contracts, the tax consequences described below would be materially different.

This characterization of the Notes is not binding on the IRS or the courts. No statutory, judicial, or administrative authority directly addresses the characterization of the Notes or any similar instruments for U.S. federal income tax purposes, and no ruling is being requested from the IRS with respect to their proper characterization and treatment. Due to the absence of authorities on point, significant aspects of the U.S. federal income tax consequences of an investment in the Notes are not certain, and no assurance can be given that the IRS or any court will agree with the characterization and tax treatment described in this pricing supplement. Accordingly, you are urged to consult your tax advisor regarding all aspects of the U.S. federal income tax consequences of an investment in the Notes, including possible alternative characterizations.

Unless otherwise stated, the following discussion is based on the characterization described above. The discussion in this section assumes that there is a significant possibility of a significant loss of principal on an investment in the Notes.

We will not attempt to ascertain whether the issuer of any component stocks included in a Basket Component would be treated as a “passive foreign investment company” (“PFIC”), within the meaning of Section 1297 of the Code, or a United States real property holding corporation, within the meaning of Section 897(c) of the Code. If the issuer of one or more stocks included in a Basket Component were so treated, certain adverse U.S. federal income tax consequences could possibly apply to a holder of the Notes. You should refer to information filed with the SEC by the issuers of the component stocks included in each Basket Component and consult your tax advisor regarding the possible consequences to you, if any, if any issuer of a component stock included in a Basket Component is or becomes a PFIC or is or becomes a United States real property holding corporation.

U.S. Holders

Upon receipt of a cash payment at maturity or upon a sale or exchange of the Notes prior to maturity, a U.S. Holder generally will recognize capital gain or loss equal to the difference between the amount realized and the U.S. Holder’s tax basis in the Notes. A U.S. Holder’s tax basis in the Notes will equal the amount paid by that holder to acquire them. This capital gain or loss generally will be long-term capital gain or loss if the U.S. Holder held the Notes for more than one year. The deductibility of capital losses is subject to limitations.

Alternative Tax Treatments. Due to the absence of authorities that directly address the proper tax treatment of the Notes, prospective investors are urged to consult their tax advisors regarding all possible alternative tax treatments of an investment in the Notes. In particular, the IRS could seek to subject the Notes to the Treasury regulations governing contingent payment debt instruments. If the IRS were successful in that regard, the

timing and character of income on the Notes would be affected significantly. Among other things, a U.S. Holder would be required to accrue original issue discount every year at a "comparable yield" determined at the time of issuance. In addition, any gain realized by a U.S. Holder at maturity or upon a sale or exchange of the Notes generally would be treated as ordinary income, and any loss realized at maturity or upon a sale or exchange of the Notes generally would be treated as ordinary loss to the extent of the U.S. Holder's prior accruals of original issue discount, and as capital loss thereafter.

The IRS released Notice 2008-2 (the "Notice"), which sought comments from the public on the taxation of financial instruments currently taxed as "prepaid forward contracts." This Notice addresses instruments such as the Notes. According to the Notice, the IRS and Treasury are considering whether a holder of an instrument such as the Notes should be required to accrue ordinary income on a current basis, regardless of whether any payments are made prior to maturity. It is not possible to determine what guidance the IRS and Treasury will ultimately issue, if any. Any such future guidance may affect the amount, timing and character of income, gain, or loss in respect of the Notes, possibly with retroactive effect.

The IRS and Treasury are also considering additional issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital, whether foreign holders of such instruments should be subject to withholding tax on any deemed income accruals, whether Section 1260 of the Code, concerning certain "constructive ownership transactions," generally applies or should generally apply to such instruments, and whether any of these determinations depend on the nature of the underlying asset.

In addition, proposed Treasury regulations require the accrual of income on a current basis for contingent payments made under certain notional principal contracts. The preamble to the regulations states that the "wait and see" method of accounting does not properly reflect the economic accrual of income on those contracts, and requires current accrual of income for some contracts already in existence. While the proposed regulations do not apply to prepaid forward contracts, the preamble to the proposed regulations expresses the view that similar timing issues exist in the case of prepaid forward contracts. If the IRS or Treasury publishes future guidance requiring current economic accrual for contingent payments on prepaid forward contracts, it is possible that you could be required to accrue income over the term of the Notes.

Because of the absence of authority regarding the appropriate tax characterization of the Notes, it is also possible that the IRS could seek to characterize the Notes in a manner that results in tax consequences that are different from those described above. For example, the IRS could possibly assert that any gain or loss that a holder may recognize at maturity or upon the sale or exchange of the Notes should be treated as ordinary gain or loss.

Because each Basket Component is an index that periodically rebalances, it is possible that the Notes could be treated as a series of single financial contracts, each of which matures on the next rebalancing date. If the Notes were properly characterized in such a manner, a U.S. Holder would be treated as disposing of the Notes on each rebalancing date in return for new Notes that mature on the next rebalancing date, and a U.S. Holder would accordingly likely recognize capital gain or loss on each rebalancing date equal to the difference between the holder's tax basis in the Notes (which would be adjusted to take into account any prior recognition of gain or loss) and the fair market value of the Notes on such date.

Non-U.S. Holders

Except as discussed below, a Non-U.S. Holder generally will not be subject to U.S. federal income or withholding tax for amounts paid in respect of the Notes provided that the Non-U.S. Holder complies with applicable certification requirements and that the payment is not effectively connected with the conduct by the Non-U.S. Holder of a U.S. trade or business. Notwithstanding the foregoing, gain from the sale or exchange of the Notes or their settlement at maturity may be subject to U.S. federal income tax if that Non-U.S. Holder is a non-resident alien individual and is present in the U.S. for 183 days or more during the taxable year of the sale, exchange, or settlement and certain other conditions are satisfied.

If a Non-U.S. Holder of the Notes is engaged in the conduct of a trade or business within the U.S. and if gain realized on the settlement at maturity, or upon sale or exchange of the Notes, is effectively connected with the conduct of such trade or business (and, if certain tax treaties apply, is attributable to a permanent establishment maintained by the Non-U.S. Holder in the U.S.), the Non-U.S. Holder, although exempt from U.S. federal withholding tax, generally will be subject to U.S. federal income tax on such gain on a net income basis in the same manner as if it were a U.S. Holder. Such Non-U.S. Holders should read the material under the heading "—U.S. Holders," for a description of the U.S. federal income tax consequences of acquiring, owning, and disposing of the Notes. In addition, if such Non-U.S. Holder is a foreign corporation, it may also be subject to a branch profits tax equal to 30% (or such lower rate provided by any applicable tax treaty) of a portion of its earnings and profits for the taxable year that are effectively connected with its conduct of a trade or business in the U.S., subject to certain adjustments.

A "dividend equivalent" payment is treated as a dividend from sources within the United States and such payments generally would be subject to a 30% U.S. withholding tax if paid to a Non-U.S. Holder. Under Treasury regulations, payments (including deemed payments) with respect to equity-linked instruments ("ELIs") that are "specified ELIs" may be treated as dividend equivalents if such specified ELIs reference an interest in an "underlying security," which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, IRS guidance provides that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2021. Based on our determination that the Notes are not delta-one instruments, Non-U.S. Holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Basket Component or the Notes, and following such occurrence the Notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. Holders that enter, or have entered, into other transactions in respect of the Basket Components or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes and their other

transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable paying agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

As discussed above, alternative characterizations of the Notes for U.S. federal income tax purposes are possible. Should an alternative characterization, by reason of change or clarification of the law, by regulation or otherwise, cause payments as to the Notes to become subject to withholding tax, tax will be withheld at the applicable statutory rate. As discussed above, the IRS has indicated in the Notice that it is considering whether income in respect of instruments such as the Notes should be subject to withholding tax. Prospective Non-U.S. Holders should consult their own tax advisors regarding the tax consequences of such alternative characterizations.

U.S. Federal Estate Tax. Under current law, while the matter is not entirely clear, individual Non-U.S. Holders, and entities whose property 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 own tax advisors regarding the U.S. federal estate tax consequences of investing in a Note.

Backup Withholding and Information Reporting

Please see the discussion under "U.S. Federal Income Tax Considerations — Taxation of Debt Securities — Backup Withholding and Information Reporting" in the accompanying prospectus for a description of the applicability of the backup withholding and information reporting rules to payments made on the Notes.

Foreign Account Tax Compliance Act ("FATCA")

The discussion in the accompanying prospectus under "U.S. Federal Income Tax Considerations – Foreign Account Tax Compliance Act" is hereby modified to reflect regulations proposed by Treasury indicating its intent to eliminate the requirements under FATCA of withholding on gross proceeds from the sale, exchange, settlement at maturity, or other disposition of relevant financial instruments. Treasury has indicated that taxpayers may rely on these proposed regulations pending their finalization.