

BANK OF NOVA SCOTIA  
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#### Market-Linked Step Up Notes Linked to One or More Equity Indices or Exchange Traded Funds

Market-Linked Step Up Notes (the “notes”) are unsubordinated and unsecured liability obligations of The Bank of Nova Scotia (the “Bank”). Any payments due on the notes, including any repayment of principal, will be subject to the credit risk of the Bank.

The notes do not guarantee the return of principal at maturity, and we will not pay interest on the notes. Instead, the return on the notes will be based on the performance of an underlying “Market Measure,” which will be an equity index (an “Index”), an exchange traded fund (an “Underlying Fund”), or a basket of the foregoing.

The notes provide an opportunity to receive the greater of a fixed return or a return based on the positive performance of the Market Measure. However, you will be exposed to any negative performance of the Market Measure below the Threshold Value (as defined below) on a 1-to-1 basis. If specified in the applicable term sheet, your notes may be subject to an automatic call, which will limit your return to a fixed amount if the notes are called.

If the value of the Market Measure does not change or increases from its Starting Value to its Ending Value up to and including the Step Up Value (each as defined below), you will receive at maturity a cash payment per unit (the “Redemption Amount”) that equals the principal amount plus the Step Up Payment (as defined below). If the Ending Value is greater than the Step Up Value, you will receive a return on the notes equal to the percentage increase in the value of the Market Measure from the Starting Value to the Ending Value or, if applicable, a multiple of that percentage.

If the value of the Market Measure decreases from its Starting Value to its Ending Value but not below the Threshold Value, then the Redemption Amount will equal the principal amount. However, if the Ending Value is less than the Threshold Value, you will be subject to 1-to-1 downside exposure to the decrease of the Market Measure below the Threshold Value. In such a case, you may lose all or a significant portion of the principal amount of your notes.

If specified in the applicable term sheet, your notes may be subject to an automatic call. In that case, the notes will be automatically called if the Observation Level on any Observation Date is greater than or equal to the Call Level (each as defined below). If called, you will receive a cash payment per unit (the “Call Amount”) that equals the principal amount plus the applicable Call Premium (as defined below).

This product prospectus supplement describes the general terms of the notes, the risk factors to consider before investing, the general manner in which they may be offered and sold, and other relevant information.

For each offering of the notes, we will provide you with a pricing supplement (which we refer to as a “term sheet”) that will describe the specific terms of that offering, including the specific Market Measure, the Step Up Value, the Step Up Payment, the Threshold Value, and certain related risk factors, and if the notes are subject to an automatic call, the Call Level, the Call Amount and the Call Premium for each

Observation Date. The term sheet will identify, if applicable, any additions or changes to the terms specified in this product prospectus supplement.

The notes will be issued in denominations of whole units. Unless otherwise set forth in the applicable term sheet, each unit will have a principal amount of \$10. The term sheet may also set forth a minimum number of units that you must purchase.

Unless otherwise specified in the applicable term sheet, the notes will not be listed on a securities exchange or quotation system.

Merrill Lynch, Pierce, Fenner & Smith Incorporated (“MLPF&S”) and one or more of its affiliates may act as our agents to offer the notes and MLPF&S will act in a principal capacity in such role.

The notes are unsecured and are not savings accounts or insured deposits of a bank. The notes are not insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation (the “FDIC”) or any other governmental agency of the United States, Canada, or any other jurisdiction. Potential purchasers of the notes should consider the information in “Risk Factors” beginning on page PS-7 of this product prospectus supplement, page S-2 of the accompanying prospectus supplement, and page 6 of the accompanying prospectus. You may lose all or a significant portion of your investment in the notes.

None of the Securities and Exchange Commission (the “SEC”), any state securities commission, or any other regulatory body has approved or disapproved of these securities or passed upon the adequacy or accuracy of this product prospectus supplement, the prospectus supplement, or the prospectus. Any representation to the contrary is a criminal offense.

Merrill Lynch & Co.

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SUMMARY

The information in this “Summary” section is qualified in its entirety by the more detailed explanation set forth elsewhere in this product prospectus supplement, the prospectus supplement, and the prospectus, as well as the applicable term sheet. Neither we nor MLPF&S have authorized any other person to provide you with any information different from the information set forth in these documents. If anyone provides you with different or inconsistent information about the notes, you should not rely on it.

Key Terms:

The notes are unsubordinated and unsecured liability obligations of the Bank, are not guaranteed or insured by the Canada Deposit Insurance Corporation or the FDIC, and are not, either directly or indirectly, an obligation of any third party. They rank equally with all of our other unsubordinated and unsecured liability obligations of the Bank from time to time outstanding. Any payments due on the notes, including any repayment of principal, are subject to our credit risk.

General:

The return on the notes will be based on the performance of a Market Measure and there is no guaranteed return of principal at maturity. Therefore, you may lose all or a significant portion of your investment if the notes are not automatically called prior to maturity, if applicable, and the value of the Market Measure decreases from the Starting Value to an Ending Value that is less than the Threshold Value.

Each issue of the notes will mature on the date set forth in the applicable term sheet, unless, if applicable, the notes are automatically called on an earlier date. You should be aware that if the automatic call feature applies to your notes, it may shorten the term of an investment in the notes, and you must be willing to accept that your notes may be called prior to maturity.

You will not receive any interest payments.

The Market Measure may consist of one or more of the following:

Market Measure:

- Underlying Funds;
- U.S. broad-based equity indices;
- U.S. sector or style based equity indices;
- non-U.S. or global equity indices; or
- any combination of the above.

The Market Measure may consist of a group, or “Basket,” of the foregoing. We refer to each Index or Underlying Fund included in any Basket as a “Basket Component.” If the Market Measure to which your notes are linked is a Basket, the Basket Components will be set forth in the applicable term sheet.

Market Measure Performance:

The performance of the Market Measure will be measured according to the percentage change of the Market Measure from its Starting Value to its Ending Value or, if applicable, its Observation Level.

Unless otherwise specified in the applicable term sheet:

In the case of an Index, the “Starting Value” will be the closing level of the Index on the date when the notes are priced for initial sale to the public (the “pricing date”).

In the case of an Underlying Fund, the “Starting Value” will be the Closing Market Price, as defined under “Description of the Notes— Closing Market Price for Underlying Funds”, of the Underlying Fund on the pricing date.

If the Market Measure consists of a Basket, the Starting Value will be equal to 100. See “Description of the Notes—Basket Market Measures.”

The “Threshold Value” will be a value of the Market Measure that equals a specified percentage (100% or less) of the Starting Value. The Threshold Value will be determined on the pricing date and set forth in the term sheet. If the Threshold Value is equal to 100% of the Starting Value, you will be exposed to any decrease in the value of the Market Measure from the Starting Value to the Ending Value on a 1-to-1 basis, and you may lose all of your investment in the notes.

In the case of an Index, the “Ending Value” will equal the closing level of the Index on the calculation day (as defined below).

In the case of an Underlying Fund, the “Ending Value” will equal the Closing Market Price of the Underlying Fund on the calculation day.

If the applicable term sheet specifies that the notes will be subject to an automatic call:

The “Call Level” will be a value of the Market Measure that equals a specified percentage of the Starting Value.

In the case of an Index, the “Observation Level” will equal the closing level of the Index on the applicable Observation Date. In the case of an Underlying Fund, the Observation Level will equal the Closing Market Price of the Underlying Fund on the applicable Observation Date multiplied by the Price Multiplier (as defined below) on that day. The “Observation Dates” will be set forth in the applicable term sheet, subject to postponement in the event of Market Disruption Events (as defined below). The final Observation Date will be prior to the calculation day. See “Description of the Notes—Automatic Call.”

If the Market Measure consists of a Basket, the Ending Value will be the value of the Basket on the calculation day, and if applicable, each Observation Level will be the value of the Basket on the applicable Observation Date, determined as described in “Description of the Notes—Basket Market Measures—Observation Level or Ending Value of the Basket.”

If a Market Disruption Event occurs and is continuing on the calculation day or an Observation Date, if applicable, or if certain other events occur, the calculation agent will determine the Ending Value or Observation Level as set forth in the section “Description of the Notes—Automatic Call,” “—The Starting Value, the Observation Level and the Ending Value—Ending Value,” and “—Basket Market Measures—Observation Level or Ending Value of the Basket.”

Step Up Value: A value of the Market Measure that is a specified percentage (over 100%) of the Starting Value, as set forth in the applicable term sheet.

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Step Up Payment:	A dollar amount that will be equal to a percentage of the principal amount. This percentage will equal the percentage by which the Step Up Value is greater than the Starting Value. The Step Up Payment will be determined on the pricing date and set forth in the applicable term sheet.
Price Multiplier:	<p>Unless otherwise set forth in the term sheet, the “Price Multiplier” for each Underlying Fund will be 1, and will be subject to adjustment for certain events relating to an Underlying Fund described below under “Description of the Notes—Anti-Dilution and Discontinuance Adjustments Relating to Underlying Funds.”</p> <p>Unless the notes are subject to an automatic call and are automatically called prior to the maturity date, at maturity, you will receive a Redemption Amount that is greater than the principal amount if the value of the Market Measure does not change or increases from the Starting Value to the Ending Value. If the value of the Market Measure decreases from the Starting Value to the Ending Value but not below the Threshold Value, you will receive a Redemption Amount equal to the principal amount. If the Ending Value is less than the Threshold Value, you will be subject to 1-to-1 downside exposure to the decrease in the value of the Market Measure below the Threshold Value, and will receive a Redemption Amount that is less than the principal amount and, if the Threshold Value is equal to 100% of the Starting Value, could be zero.</p>
Redemption Amount at Maturity:	<p>Any payments due on the notes, including any repayment of principal, are subject to our credit risk as issuer of the notes.</p> <p>The Redemption Amount, denominated in U.S. dollars, will be calculated as follows:</p> <p>If specified in the term sheet, your notes may provide at maturity a leveraged return if the Ending Value is greater than the Step Up Value. In this case, a Participation Rate (as defined below) will be specified in the term sheet.</p>
Participation Rate:	The Participation Rate, if applicable, will be set forth in the applicable term sheet and is the rate at which investors participate in any increase in the value of the Market Measure if the Ending Value is greater than the Step Up Value.

Automatic Call Prior to Maturity:	If specified in the applicable term sheet, your notes may be subject to an automatic call. In that case, the notes will be automatically called on an Observation Date if the Observation Level of the Market Measure on that Observation Date is greater than or equal to the Call Level. If not called, see “Redemption Amount at Maturity” above.
Call Amount:	If your notes are subject to an automatic call and are called on an Observation Date, you will receive the Call Amount applicable to that Observation Date. The Call Amount will be equal to the principal amount per unit plus the applicable “Call Premium.” Each Call Premium will be a percentage of the principal amount and will be set forth in the applicable term sheet. The Call Amount, if payable, will be payable on the applicable “Call Settlement Date” set forth in the applicable term sheet.
Principal at Risk:	You may lose all or a significant portion of the principal amount of the notes. Further, if you sell your notes prior to maturity, you may find that the market value per note is less than the price that you paid for the notes.
Calculation Agent:	The calculation agent will make all determinations associated with the notes. Unless otherwise set forth in the applicable term sheet, we will appoint MLPF&S or one of its affiliates to act as calculation agent for the notes. See the section entitled “Description of the Notes—Role of the Calculation Agent.”
Agents:	MLPF&S and one or more of its affiliates will act as our agents in connection with each offering of the notes and will receive an underwriting discount based on the number of units of the notes sold. None of the agents is your fiduciary or advisor solely as a result of the making of any offering of the notes, and you should not rely upon this product prospectus supplement, the term sheet, or the accompanying prospectus or prospectus supplement as investment advice or a recommendation to purchase the notes.
Listing:	Unless otherwise specified in the applicable term sheet, the notes will not be listed on a securities exchange or quotation system.

This product prospectus supplement relates only to the notes and does not relate to any Index or Underlying Fund that composes the Market Measure described in any term sheet. You should read carefully the entire prospectus, prospectus supplement, and product prospectus supplement, together with the applicable term sheet, to understand fully the terms of your notes, as well as the tax and other considerations important to you in making a decision about whether to invest in any notes. In particular, you should review carefully the sections in this product prospectus supplement and the accompanying prospectus supplement and prospectus entitled “Risk Factors,” which highlight 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 product prospectus supplement is inconsistent with the prospectus or prospectus supplement, this product prospectus supplement will supersede those documents. However, if information in any term sheet is inconsistent with this product prospectus supplement, that term sheet will supersede this product prospectus supplement. For example, we may offer notes in which the Step Up Payment will be paid if the Ending Value equals or exceeds the Threshold Value. You should carefully review the applicable term sheet to understand the specific terms of your notes.

Neither we nor any agent is making an offer to sell the notes in any jurisdiction where the offer or sale is not permitted.

Certain capitalized terms used and not defined in this product prospectus supplement have the meanings ascribed to them in the prospectus supplement and prospectus. Unless otherwise indicated or unless the context requires otherwise, all references in this product prospectus supplement to “we,” “us,” “our,” or similar references are to the Bank. You are urged to consult with your own attorneys and business and tax advisors before making a decision to purchase any notes.



## RISK FACTORS

Your investment in the notes is subject to investment 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, including those discussed below, in light of your particular circumstances. The notes are not an appropriate investment for you if you are not knowledgeable about the material terms of the notes or investments in equity or equity-based securities in general.

### General Risks Relating to the Notes

**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. The return on the notes will be based on the performance of the Market Measure and therefore, you may lose all or a significant portion of your investment if the notes are not automatically called, if applicable, and if the value of the Market Measure decreases from the Starting Value to an Ending Value that is less than the Threshold Value. If the Threshold Value is equal to 100% of the Starting Value, the Redemption Amount could be zero and you may lose all of your investment in the notes.

**Your return on the notes may be less than the yield on a conventional fixed or floating rate debt security of comparable maturity.** There will be no periodic interest payments on the notes as there would be on a conventional fixed-rate or floating-rate debt security having the same 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.

**Your investment return may be less than a comparable investment directly in an Underlying Fund or the securities included in the Market Measure, as applicable.** Unless otherwise set forth in the applicable term sheet, the value of the Market Measure will not reflect the value of dividends paid, or distributions made, on an Underlying Fund or the securities included in the Market Measure or any other rights associated with those securities. Thus, any return on the notes will not reflect the return you would realize if you actually owned the securities underlying the Market Measure.

Additionally, the Market Measure may consist of one or more Indices or Underlying Funds that include securities traded in a non-U.S. currency. If any such Indices are calculated in such non-U.S. currency and the value of that currency strengthens against the U.S. dollar during the term of your notes, you may not obtain the benefit of that increase, which you would have received if you had owned the securities included in those Indices.

**If the notes are subject to an automatic call and are called prior to maturity, your investment return will be limited to the return represented by the Call Premium.** If the notes are subject to an automatic call, and if the Observation Level of the Market Measure on an Observation Date is greater than or equal to the specified Call Level, we will automatically call the notes. If the notes are automatically called, your return will be limited to the applicable Call Premium, regardless of the extent of the increase in the value of the Market Measure.

**Reinvestment Risk.** If the notes are subject to an automatic call and are automatically called prior to maturity, the term of the notes will be short. There is no guarantee that you would be able to reinvest the proceeds from an investment in the notes at a comparable return for a similar level of risk in the event the notes are called prior to maturity.



**Payments on the notes are subject to our credit risk, and actual or perceived changes in our creditworthiness are expected to affect the value of the notes.** The notes are our unsubordinated and unsecured liability obligations, and are not, either directly or indirectly, an obligation of any third party. As a result, your receipt of any payment on the notes is dependent upon our ability to repay our obligations on the applicable payment date, regardless of whether the Market Measure increases from the Starting Value to the Ending Value, or the Observation Level, if applicable. No assurance can be given as to what our financial condition will be on the applicable payment date. If we become unable to meet our financial obligations as they become due, you may not receive the amount payable under the terms of the notes.

In addition, our credit ratings are an assessment by ratings agencies of our ability to pay our obligations. Consequently, our perceived creditworthiness and actual or anticipated decreases in our credit ratings or increases in the spread between the yield on our 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 to pay our obligations, such as the value of the Market Measure, an improvement in our credit ratings will not reduce the other investment risks related to the notes.

**Our initial estimated value of the notes will be lower than the public offering price of the notes.** Our initial estimated value of the notes is only an estimate. The public offering price of the notes will exceed our initial estimated value because it includes costs associated with selling and structuring the notes, as well as hedging our obligations under the notes with a third party, which may include MLPF&S or one of its affiliates. These costs include the underwriting discount and an expected hedging related charge.

**Our initial estimated value of the notes does not represent future values of the notes and may differ from others’ estimates.** Our initial estimated value of the notes is determined by reference to our internal pricing models when the terms of the notes are set. These pricing models consider certain factors, such as our internal funding rate (which is the rate we would pay to borrow funds through the issuance of market-linked notes, such as the notes) on the pricing date, the expected term of the notes, market conditions and other relevant factors existing at that time, and our assumptions about market parameters, which can include volatility, dividend rates, interest rates and other factors. Different pricing models and assumptions could provide valuations for the notes that are different from our initial estimated value. In addition, market conditions and other relevant factors in the future may change, and any of our assumptions may prove to be incorrect. On future dates, the market value of the notes could change significantly based on, among other things, the performance of the Market Measure, changes in market conditions, our creditworthiness, interest rate movements and other relevant factors. 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. Our initial estimated value does not represent a minimum price at which we or any agents would be willing to buy your notes in any secondary market (if any exists) at any time.

**Our initial estimated value is not determined by reference to credit spreads or the borrowing rate we would pay for our conventional fixed-rate debt securities.** The internal funding rate used in the determination of our initial estimated value of the notes generally represents a discount from the credit spreads for our conventional fixed-rate debt securities and the borrowing rate we would pay for our conventional fixed-rate debt securities. If we were to use the interest rate implied by the credit spreads for our conventional fixed-rate debt securities, or the borrowing rate we would pay for our conventional fixed-rate debt securities, we would expect the economic terms of the notes to be more favorable to you. Consequently,

our use of an internal funding rate for the notes would have an adverse effect on the economic terms of the notes, the initial estimated value of the notes on the pricing date, and the price at which you may be able to sell the notes in any secondary market.

**We cannot assure you that there will be a trading market for your notes.** If a secondary market exists, we cannot predict how the notes will trade, or whether that market will be liquid or illiquid. The development of a trading market for the notes will depend on various factors, including our financial performance and changes in the value of the Market Measure. The number of potential buyers of your notes in any secondary market may be limited. There is no assurance that any party will be willing to purchase your notes at any price in any secondary market.

We anticipate that one or more of the agents or their affiliates will act as a market-maker for the notes, but none of them is required to do so and may cease to do so at any time. Any price at which an agent or its affiliate may bid for, offer, purchase, or sell any of the notes may be higher or lower than the applicable public offering price, and that price 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 transactions may adversely affect the prices, if any, at which those notes might otherwise trade in the market. In addition, if at any time any entity were to cease acting as a market-maker for any issue of the notes, it is likely that there would be significantly less liquidity in that secondary market. In such a case, the price at which those notes could be sold likely would be lower than if an active market existed.

Unless otherwise stated in the term sheet, we will not list the notes on any securities exchange. Even if an application were made to list your notes, we cannot assure you that the application will be approved or that your notes will be listed and, if listed, that they will remain listed for their entire term. The listing of the notes on any securities exchange will not necessarily ensure that a trading market will develop, and if a trading market does develop, that there will be liquidity in the trading market.

**Payment on the notes will not reflect changes in the value of the Market Measure other than on the calculation day or the Observation Dates, if applicable.** Changes in the value of the Market Measure during the term of the notes other than on the calculation day, or the Observation Dates, if applicable, will not be reflected in the calculation of the Redemption Amount or the determination of whether the notes will be automatically called, if applicable. To make that calculation or determination, the calculation agent will refer only to the value of the Market Measure on the calculation day, or the Observation Dates, if applicable. No other values of the Market Measure will be taken into account. As a result, even if the value of the Market Measure has increased at certain times during the term of the notes, your notes will not be called if the Observation Level on each Observation Date is less than the Call Level, if applicable, and you will receive a Redemption Amount that is less than the principal amount if the Ending Value is less than the Threshold Value.

**If your notes are linked to a Basket, changes in the levels of one or more of the Basket Components may be offset by changes in the levels of one or more of the other Basket Components.** The Market Measure of your notes may be a Basket. In such a case, 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 values 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 Market Measure at any time, increases in the level of one Basket Component may be moderated or wholly offset by decreases or lesser increases in the levels of one or more of the other Basket Components. If the weightings of the applicable Basket Components are not equal, adverse changes in the levels of the Basket Components which are more heavily weighted would have a greater impact upon the return on your notes.

The respective publishers of the applicable Indices may adjust those Indices in a way that affects their levels, and these publishers have no obligation to consider your interests. Unless otherwise specified in the term sheet, we, the agents and our respective affiliates have no affiliation with any publisher of an Index to which your notes are linked (each, an “Index Publisher”). Consequently, we have no control of the actions of any Index Publisher. The Index Publisher can add, delete, or substitute the securities included in that Index or make other methodological changes that could change its level. A new security included in an Index may perform significantly better or worse than the replaced security, and the performance will impact the level of the applicable Index. Additionally, an Index Publisher may alter, discontinue, or suspend calculation or dissemination of an Index. Any of these actions could adversely affect the value of your notes. The Index Publishers will have no obligation to consider your interests in calculating or revising any Index.

**Exchange rate movements may impact the value of the notes.** If any security included in a Market Measure is traded in a currency other than U.S. dollars and, for purposes of an applicable Index, is converted into U.S. dollars, then the value of the Market Measure may depend in part on the relevant exchange rates. If the value of the U.S. dollar strengthens against the currencies of the applicable Market Measure, the value of the applicable Market Measure may be adversely affected and the payment on the notes may be reduced. Exchange rate movements may be particularly impacted by existing and expected rates of inflation and interest rate levels; political, civil, or military unrest; the balance of payments between countries; and the extent of governmental surpluses or deficits in the countries relevant to the applicable Index and the United States. All of these factors are in turn sensitive to the monetary, fiscal, and trade policies pursued by the governments of those countries and the United States and other countries important to international trade and finance.

**If you attempt to sell the notes prior to maturity, their market value, if any, will be affected by various factors that interrelate in complex ways, and their market value may be less than the principal amount.** The notes are not designed to be short-term trading instruments. The limited protection, if any, against the risk of losses provided by the Threshold Value will only apply if you hold the notes to maturity. You have no right to have your notes redeemed at your option prior to maturity. If you wish to liquidate your investment in the notes prior to maturity, your only option would be to sell them. At that time, there may be an illiquid market for your notes or no market at all. Even if you were able to sell your notes, there are many factors outside of our control that may affect their market value, some of which, but not all, are stated below. The impact of any one factor may be offset or magnified by the effect of another factor. The following paragraphs describe a specific factor’s expected impact on the market value of the notes, assuming all other conditions remain constant.

**Value of the Market Measure.** We anticipate that the market value of the notes prior to maturity generally will depend to a significant extent on the value of the Market Measure. In general, it is expected that the market value of the notes will decrease as the value of the Market Measure decreases, and increase as the value of the Market Measure increases. However, as the value of the Market Measure increases or decreases, the market value of the notes is not expected to increase or decrease at the same rate. If you sell your notes when the value of the Market Measure is less than, or not sufficiently above, the Starting Value, then you may receive less than the principal amount of your notes. In addition, if the notes are subject to an automatic call, because the amount payable on the notes upon an automatic call will not exceed the applicable Call Amount, we do not expect that the notes will trade in any secondary market prior to any Observation Date at a price that is greater than the applicable Call Amount.

**Volatility of the Market Measure.** Volatility is the term used to describe the size and frequency of market fluctuations. Increases or decreases in the volatility of the Market Measure may have an adverse impact on the market value of the notes. Even if the value of the Market Measure increases after the applicable pricing date, if you are able to sell your notes before their maturity date, you may receive substantially less than the amount that would be payable upon an automatic call, if applicable, or at maturity based on that value because of the anticipation that the value of the Market Measure will continue to fluctuate until the notes are automatically called, if applicable, or the calculation day.

**Economic and Other Conditions Generally.** The general economic conditions of the capital markets in the United States, as well as geopolitical conditions and other financial, political, regulatory, and judicial events and related uncertainties that affect stock markets generally, may adversely affect the value of the Market Measure and the market value of the notes. If the Market Measure includes one or more indices that have returns that are calculated based upon securities prices in one or more non-U.S. markets (a “**non-U.S. Market Measure**”), the value of your notes may also be adversely affected by similar events in the markets of the relevant foreign countries.

**Interest Rates.** We expect that changes in interest rates will affect the market value of the notes. In general, if U.S. interest rates increase, we expect that the market value of the notes will decrease, and conversely, if U.S. interest rates decrease, we expect that the market value of the notes will increase. In general, we expect that the longer the amount of time that remains until maturity, the more significant the impact of these changes will be on the value of the notes. In the case of non-U.S. Market Measures, the level of interest rates in the relevant foreign countries may also affect their economies and in turn the value of the non-U.S. Market Measure, and, thus, the market value of the notes may be adversely affected.

**Dividend Yields.** In general, if the cumulative dividend yields on the securities included in the Market Measure increase, we anticipate that the market value of the notes will decrease; conversely, if those dividend yields decrease, we anticipate that the market value of your notes will increase.

**Exchange Rate Movements and Volatility.** If the Market Measure of your notes includes any non-U.S. Market Measures, changes in, and the volatility of, the exchange rates between the U.S. dollar and the relevant non-U.S. currency or currencies could have a negative impact on the value of your notes, and the payment on the notes may depend in part on the relevant exchange rates. In addition, the correlation between the relevant exchange rate and any applicable non-U.S. Market Measure reflects the extent to which a percentage change in that exchange rate corresponds to a percentage change in the applicable non-U.S. Market Measure, and changes in these correlations may have a negative impact on the value of your notes.

**Our Financial Condition and Creditworthiness.** Our perceived creditworthiness, including any increases in our credit spreads and any actual or anticipated decreases in our credit ratings, may adversely affect the market value of the notes. In general, we expect the longer the amount of time that remains until maturity, the more significant the impact will be on the value of the notes. However, a decrease in our credit spreads or an improvement in our credit ratings will not necessarily increase the market value of the notes.

**Time to Maturity or, if Applicable, the Next Observation Date.** There may be a disparity between the market value of the notes prior to maturity, or if applicable, prior to an Observation Date, and their value at maturity or as of the next Observation Date, if applicable. This disparity is often called a time “value,” “premium,” or “discount,” and reflects expectations concerning the value of the Market Measure during the term of the

notes. As the time to maturity, or if applicable, the next Observation Date, decreases, this disparity may decrease, such that the value of the notes will approach the expected Redemption Amount to be paid at maturity, or if applicable, the Call Amount to be paid at the next Call Settlement Date.

**Trading and hedging activities by us, the agents, and our respective affiliates may affect your return on the notes and their market value.** We, the agents, and our respective affiliates may buy or sell the securities included in the Market Measure, or futures, options contracts, or exchange-traded instruments on the Market Measure or its component securities or other instruments whose value is derived from the Market Measure or its component securities. We, the agents, or our respective 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. These transactions could adversely affect the value of these securities and, in turn, the value of a Market Measure in a manner that could be adverse to your investment in the notes. On or before the applicable pricing date, any purchases or sales by us (including those for the purpose of hedging some or all of our anticipated exposure in connection with the notes), the agents, and our respective affiliates, or others on our or their behalf may increase the value of a Market Measure or its component securities. Consequently, the values of that Market Measure or the securities included in that Market Measure may decrease subsequent to the pricing date of an issue of the notes, adversely affecting the market value of the notes.

We, the agents, or one or more of our respective affiliates may also engage in hedging activities that could increase the value of the Market Measure on the applicable pricing date. In addition, these activities may decrease the market value of your notes prior to maturity, including on the calculation day, or if applicable, on each Observation Date, and may reduce the payment on the notes. We, the agents, or one or more of our respective affiliates may purchase or otherwise acquire a long or short position in the notes, and may hold or resell the notes. For example, the agents may enter into these transactions in connection with any market making activities in which they engage. We cannot assure you that these activities will not adversely affect the value of the Market Measure, the market value of your notes prior to maturity, or the payment on the notes.

**Our trading, hedging and other business activities, and those of the agents or one or more of our respective affiliates, may create conflicts of interest with you.** We, the agents, or one or more of our respective affiliates may engage in trading activities related to the Market Measure and to securities included in the Market Measure that are not for your account or on your behalf. We, the agents, or one or more of our respective affiliates also may issue or underwrite other financial instruments with returns based upon the applicable Market Measure. In addition, in the ordinary course of their business activities, the agents and their affiliates may hold and trade our or our affiliates' debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers. Certain of the agents or their affiliates may also have lending or other capital markets relationships with us. In order to hedge such exposure, the agents may enter into transactions such as the purchase of credit default swaps or the creation of short positions in our or our affiliates' securities, including potentially the notes. Any such positions could adversely affect future trading prices of the notes. These trading and other business activities may present a conflict of interest between your interest in the notes and the interests we, the agents and our respective affiliates may have in our proprietary accounts, in facilitating transactions, including block trades, for our or their other customers, and in accounts under our or their management. These trading and other business activities, if they influence the value of the Market Measure or secondary trading in your notes, could be adverse to your interests as a beneficial owner of the notes.

We, the agents, and our respective affiliates expect to enter into arrangements or adjust or close out existing transactions to hedge our obligations under the notes. We, the agents, or our respective affiliates also may enter into hedging transactions relating to other notes or instruments that we or they issue, some of which may have returns calculated in a manner related to that of a particular issue of the notes. We may enter into such hedging arrangements with one or more of our subsidiaries or affiliates, or with one or more of the agents or their affiliates. Such a party may enter into additional hedging transactions with other parties relating to the notes and the applicable Market Measure. 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, but could also result in a loss. We, the agents, and our respective affiliates will price these hedging transactions with the intent to realize a profit, regardless of whether the value of the notes increases or decreases, whether the notes will be automatically called, if applicable, or whether the Redemption Amount on the notes is more or less than the principal amount of the notes. Any profit in connection with such hedging activities will be in addition to any other compensation that we, the agents, and our respective affiliates receive for the sale of the notes, which creates an additional incentive to sell the notes to you.

**There may be potential conflicts of interest involving the calculation agent. We have the right to appoint and remove the calculation agent.** We expect to appoint MLPF&S or one of its affiliates as the calculation agent for the notes and, as such, it will determine the Starting Value, the Step Up Value, the Threshold Value, the Ending Value, the Redemption Amount, and if applicable, each Observation Level and whether the notes will be automatically called. As the calculation agent, MLPF&S or one of its affiliates will have discretion in making various determinations that affect your notes, such as when a Market Disruption Event occurs or an Index is discontinued. The exercise of this discretion by the calculation agent could adversely affect the value of your notes and may present the calculation agent with a conflict of interest of the kind described under “—Trading and hedging activities by us, the agents, and our respective affiliates may affect your return on the notes and their market value” and “—Our trading, hedging and other business activities, and those of the agents or one or more of our respective affiliates, may create conflicts of interest with you” above.

**The U.S. federal income tax consequences of an investment in the notes are uncertain, and may be adverse to a noteholder.** Significant aspects of the tax treatment of the notes are uncertain. There is no direct legal authority as to the proper U.S. federal income tax treatment of the notes, and we do not plan to request a ruling from the Internal Revenue Service (the “IRS”) or any Canadian authorities regarding the tax treatment of the notes, and the IRS, the Canada Revenue Agency or a court may not agree with the tax treatment described in this product prospectus supplement or the term sheet. If the IRS were successful in asserting an alternative treatment for the notes, the timing and/or character of income on the notes could be materially and adversely affected.

Further, there exists a risk (and in certain circumstances, a substantial risk) that an investment in notes that are linked to shares of an Underlying Fund, PFIC, REIT or other “pass-thru entity” or a basket that contains Underlying Funds, PFICs, REITs or other “pass-thru entities” could be treated as a “constructive ownership transaction”, which could result in part or all of any long-term capital gain realized by you being recharacterized as ordinary income and subject to an interest charge (or, in the case of a gold or silver Underlying Fund, subject to a maximum tax rate of 28% applicable to “collectibles”).

In addition, in 2007, the IRS released Notice 2008-2 that may affect the U.S. federal income tax treatment of “prepaid forward contracts” and similar instruments, and the IRS and the U.S. Treasury Department (the “Treasury”) are actively considering various issues relating to such instruments. Any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the notes Securities, possibly with retroactive effect. Prospective investors should



review the discussion under “Material U.S. Federal Income Tax Consequences” and the discussion in the term sheet relating to an offering of the notes for a discussion of the tax treatment and possible alternative treatments of the notes.

Both U.S. and non-U.S. holders should consult their tax advisors regarding the U.S. federal income tax consequences of an investment in the notes (including possible application of Section 1260, alternative treatments and the issues presented by Notice 2008-2), as well as any tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdiction (including that of any issuer of a Market Measure and/or any component security of a Market Measure, as applicable).

Please read carefully the sections entitled “Material U.S. Federal Income Tax Consequences” in this product prospectus supplement and the term sheet and the sections “Certain Income Tax Consequences” in the prospectus supplement and “United States Taxation” in the accompanying prospectus. For a more complete discussion of the Canadian federal income tax consequences of investing in the notes, please see “Canadian Taxation” in the accompanying prospectus, “Certain Income Tax Consequences — Certain Canadian Income Tax Considerations” in the accompanying prospectus supplement and any further Canadian tax discussions in the term sheet. You should consult your tax advisors about your own tax situation and the consequences of acquiring, holding and disposing of the notes and receiving the payments that might be due under the notes.

**Any conclusion that no portion of the interest paid or credited or deemed to be paid or credited on a note will be “Participating Debt Interest” (as defined below) subject to Canadian withholding tax is based in part on the current published administrative position of the Canada Revenue Agency (the “CRA”).** There cannot be any assurance that CRA’s current published administrative practice will not be subject to change, including potential expansion in the current administrative interpretation of Participating Debt Interest subject to Canadian withholding tax. If, at any time, the interest paid or credited or deemed to be paid or credited on a note is subject to Canadian withholding tax, you will receive an amount that is less than the Redemption Amount. **You should consult your own adviser as to the potential for such withholding and the potential for reduction or refund of part or all of such withholding, including under any bilateral Canadian tax treaty the benefits of which you may be entitled.**

#### Risks Relating to the Market Measures

**You must rely on your own evaluation of the merits of an investment linked to the applicable Market Measure.** In the ordinary course of business, we, the agents, and our respective affiliates may have expressed views on expected movements in a Market Measure or the securities included in the Market Measure, and may do so in the future. These views or reports may be communicated to our clients and clients of these entities. However, these views are subject to change from time to time. Moreover, other professionals who deal in markets relating to a Market Measure may at any time have significantly different views from our views and the views of these entities. For these reasons, you are encouraged to derive information concerning a Market Measure and its component securities from multiple sources, and you should not rely on our views or the views expressed by these entities.

**You will have no rights that a holder of an Underlying Fund or the securities represented by the Market Measure may have, you will have no rights to receive any of the securities represented by the Market Measure, and you will not be entitled to dividends or other distributions by the issuers of these securities.** The notes are our debt securities. They are not equity instruments, shares of stock, or securities of any other issuer. Investing in the notes will not make you a holder of any Underlying Fund or of the securities represented by the Market Measure. You will not have any voting rights, any rights to receive

dividends or other distributions, or any other rights with respect to those securities. As a result, the return on your notes may not reflect the return you would realize if you actually owned those securities and received the dividends paid or other distributions made in connection with them. Additionally, the levels of certain indices reflect only the prices of the securities included in that Index and do not take into consideration the value of dividends paid on those securities. Your notes will be paid in cash and you have no right to receive any of these securities.

**If the Market Measure to which your notes are linked includes equity securities traded on foreign exchanges, your return may be affected by factors affecting international securities markets.** The value of securities traded outside of the U.S. may be adversely affected by a variety of factors relating to the relevant securities markets. Factors which could affect those markets, and therefore the return on your notes, include:

**Market Liquidity and Volatility.** The relevant foreign securities markets may be less liquid and/or more volatile than U.S. or other securities markets and may be affected by market developments in different ways than U.S. or other securities markets.

**Political, Economic, and Other Factors.** The prices and performance of securities of companies in foreign countries may be affected by political, economic, financial, and social factors in those regions. Direct or indirect government intervention to stabilize a particular securities market and cross-shareholdings in companies in the relevant foreign markets may affect prices and the volume of trading in those markets. In addition, recent or future changes in government, economic, and fiscal policies in the relevant jurisdictions, the possible imposition of, or changes in, currency exchange laws, or other laws or restrictions, and possible fluctuations in the rate of exchange between currencies, are factors that could negatively affect the relevant securities markets. The relevant foreign economies may differ from the U.S. economy in economic factors such as growth of gross national product, rate of inflation, capital reinvestment, resources, and self-sufficiency.

In particular, many emerging nations are undergoing rapid change, involving the restructuring of economic, political, financial and legal systems. Regulatory and tax environments may be subject to change without review or appeal, and many emerging markets suffer from underdevelopment of capital markets and tax systems. In addition, in some of these nations, issuers of the relevant securities face the threat of expropriation of their assets, and/or nationalization of their businesses. The economic and financial data about some of these countries may be unreliable.

**Publicly Available Information.** There is generally less publicly available information about foreign companies than about U.S. companies that are subject to the reporting requirements of the SEC. In addition, accounting, auditing, and financial reporting standards and requirements in foreign countries differ from those applicable to U.S. reporting companies.

**Unless otherwise set forth in the applicable term sheet, we and the agents do not control any company included in any Market Measure and have not verified any disclosure made by any other company.** We, the agents, or our respective affiliates currently, or in the future may, engage in business with companies included in a Market Measure, and we, the agents, or our respective affiliates may from time to time own securities of companies included in a Market Measure. However, none of us, the agents, or any of our respective affiliates has the ability to control the actions of any of these companies or has undertaken any independent review of, or made any due diligence inquiry with respect to, any of these companies, unless (and only to the extent that) the securities of us, the agents, or our respective affiliates are represented by that Market Measure. In addition, unless otherwise set

forth in the applicable term sheet, none of us, the agents, or any of our respective affiliates is responsible for the calculation of any Index represented by a Market Measure, or any Index underlying an Underlying Fund (an “**Underlying Index**”). Unless otherwise specified therein, any information in the term sheet regarding the Market Measure is derived from publicly available information. You should make your own investigation into the Market Measure.

Unless otherwise set forth in the applicable term sheet, none of the Index Publishers, Underlying Fund investment advisers, publishers of an Underlying Index, their affiliates, or any companies included in the Market Measure will be involved in any offering of the notes or will have any obligation of any sort with respect to the notes. As a result, none of those companies will have any obligation to take your interests as holders of the notes into consideration for any reason, including taking any corporate actions that might adversely affect the value of the securities represented by the Market Measure or the value of the notes.

**Our business activities and those of the agents relating to the companies represented by a Market Measure or the notes may create conflicts of interest with you.** We, the agents, and our respective affiliates, at the time of any offering of the notes or in the future, may engage in business with the companies represented by the Market Measure, including making loans to, equity investments in, or providing investment banking, asset management, or other services to those companies, their affiliates, and their competitors.

In connection with these activities, any of these entities may receive information about those companies that we will not divulge to you or other third parties. We, the agents, and our respective affiliates have published, and in the future may publish, research reports on one or more of these companies. The agents may also publish research reports relating to our or our affiliates’ securities, including the notes. This research is modified from time to time without notice and may express opinions or provide recommendations that are inconsistent with purchasing or holding your notes. Any of these activities may adversely affect the value of the Market Measure and, consequently, the market value of your notes. None of us, the agents, or our respective affiliates makes any representation to any purchasers of the notes regarding any matters whatsoever relating to the issuers of the securities included in a Market Measure. Any prospective purchaser of the notes should undertake an independent investigation of the companies included in the Market Measure to a level that, in its judgment, is appropriate to make an informed decision regarding an investment in the notes. The composition of the Market Measure does not reflect any investment recommendations from us, the agents, or our respective affiliates.

#### Other Risk Factors Relating to the Applicable Market Measure

The applicable term sheet may set forth additional risk factors as to the Market Measure that you should review prior to purchasing the notes.

#### Additional Risks Relating to Underlying Funds

**There are liquidity and management risks associated with an Underlying Fund.** Although shares of any Underlying Fund to which your notes are linked will be listed for trading on a securities exchange and a number of similar products have been traded on various exchanges for varying periods of time, there is no assurance that an active trading market will continue for the shares of that Underlying Fund or that there will be liquidity in the trading market.

Underlying Funds are subject to management risk, which is the risk that the investment adviser’s investment strategy, the implementation of which is subject to a number of constraints, may not produce the intended results.

The respective sponsor, publisher, or investment adviser of an Underlying Fund or an Underlying Index (each, a “Market Measure Publisher”) may adjust the Underlying **Fund or the Underlying Index in a way that affects its value, and they have no obligation to consider your interests.** A Market Measure Publisher can change the investment policies of the applicable Underlying Fund or the policies concerning the calculation of the applicable Underlying Fund’s net asset value, or add, delete, or substitute the underlying assets held by the Underlying Fund or the components included in an Underlying Index, as the case may be, or make other methodological changes that could change the value of that Underlying Fund or Underlying Index. Additionally, a Market Measure Publisher may alter, discontinue, or suspend calculation or dissemination of the price of its Underlying Fund, the net asset value of its Underlying Fund, or the level of its Underlying Index, as the case may be. Any of these actions could adversely affect the value of your notes. This could also result in the early redemption of your notes. See “Description of the Notes—Anti-Dilution and Discontinuance Adjustments Relating to Underlying Funds—Discontinuance of or Material Change to an Underlying Fund.” The Market Measure Publishers will have no obligation to consider your interests in calculating or revising any Underlying Fund or Underlying Index.

**The performance of an Underlying Fund and the performance of its Underlying Index may vary.** If an exchange traded fund is designed to track the performance of an Underlying Index, the performance of the Underlying Fund and that of its Underlying Index generally will vary due to, for example, transaction costs, management fees, certain corporate actions, and timing variances. Moreover, it is also possible that the performance of an Underlying Fund may not fully replicate or may, in certain circumstances, diverge significantly from the performance of its Underlying Index. This could be due to, for example, the Underlying Fund not holding all or substantially all of the underlying assets included in the Underlying Index and/or holding assets that are not included in the Underlying Index, the temporary unavailability of certain securities in the secondary market, the performance of any derivative instruments held by the Underlying Fund, differences in trading hours between the Underlying Fund (or the underlying assets held by the Underlying Fund) and the Underlying Index, or due to other circumstances. This variation in performance is called the “tracking error,” and, at times, the tracking error may be significant.

In addition, because the shares of an Underlying Fund are traded on a securities exchange and are subject to market supply and investor demand, the market price of one share of the Underlying Fund may differ from its net asset value per share; shares of the Underlying Fund may trade at, above, or below its net asset value per share.

For the foregoing reasons, the performance of an Underlying Fund may not match the performance of its Underlying Index over the same period. Because of this variance, the return on the notes to the extent dependent on the performance of the Underlying Fund may not be the same as an investment directly in the underlying assets included in the Underlying Index or the same as a debt security with a return linked to the performance of the Underlying Index.

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**Risks associated with the applicable Underlying Index, or underlying assets of an Underlying Fund, will affect the value of that Underlying Fund and hence, the value of the notes.** Exchange traded funds are funds which may hold a variety of underlying assets, and which performance may be designed to track the performance of an Underlying Index. While the notes are linked to an Underlying Fund and not to its underlying assets or Underlying Index, risks associated with its underlying assets or Underlying Index will affect the share price of that Underlying Fund and hence the value of the notes. Some of the risks that relate to an Underlying Index include those discussed below in this product supplement in relation to equity based- and commodity-based Underlying Funds, which you should review before investing in the notes.

**You will have no rights as a security holder, you will have no rights to receive any shares of any Underlying Fund or any underlying assets held by any Underlying Fund, and you will not be entitled to dividends or other distributions by any Underlying Fund.** The notes are our debt securities. They are not equity instruments, shares of stock, or securities of any other issuer. Investing in the notes will not make you a holder of shares of any Underlying Fund or any of its underlying assets. You will not have any voting rights, any rights to receive dividends or other distributions, any rights against the investment advisor or manager of any Underlying Fund, or any other rights with respect to any Underlying Fund or those underlying assets. As a result, the return on your notes may not reflect the return you would realize if you actually owned shares of the Underlying Fund or its underlying assets and received the dividends paid or other distributions made in connection with them. Your notes will be paid in cash and you have no right to receive delivery of shares of any Underlying Fund or any of its underlying assets.

**If an Underlying Fund holds underlying assets traded on foreign exchanges, time zone differences may create discrepancies between the values of those underlying assets and the value of the notes.** As a result of the time zone difference, if applicable, between the cities where the underlying assets held by an Underlying Fund trade and the cities in which shares of that Underlying Fund are traded, there may be discrepancies between the values of the relevant underlying assets and the trading prices of that Underlying Fund. In addition, there may be periods when the foreign exchange markets are closed for trading (for example during holidays in a country other than the United States) that may result in the values of the relevant non-U.S. underlying assets remaining unchanged for multiple Market Measure Business Days in the locations where the notes (or any related Underlying Fund) trade. Conversely, there may be periods in which the foreign exchange markets are open, but the securities markets in which the notes (or any related Underlying Fund) trade are closed.

**The payment on the notes will not be adjusted for all events that could affect an Underlying Fund.** The Price Multiplier(s), the Observation Levels, the Ending Value, the Redemption Amount, and other terms of the notes may be adjusted for the specified events affecting any Underlying Fund, as described in the section entitled “Description of the Notes—Anti-Dilution and Discontinuance Adjustments Relating to Underlying Funds.” However, these adjustments do not cover all events that could affect the market price of an Underlying Fund. The occurrence of any event that does not require the calculation agent to adjust the applicable Price Multiplier or the amount paid to you at maturity or upon a call may adversely affect the Closing Market Price of any Underlying Fund, the Observation Levels, the Ending Value, whether the notes will be called, and the Redemption Amount, and, as a result, the market value of the notes.

#### Risks Relating to Equity-Based Underlying Funds

**If an Underlying Fund holds equity securities traded on foreign exchanges, your return may be affected by factors affecting international securities markets.** The value of securities traded outside of the U.S. may be adversely affected by a variety of factors relating to

the relevant securities markets. Factors which could affect those markets, and therefore the return on your notes, include:

**Market Volatility.** The relevant foreign securities markets may be more volatile than U.S. or other securities markets and may be affected by market developments in different ways than U.S. or other securities markets.

**Political, Economic, and Other Factors.** The prices and performance of securities of companies in foreign countries may be affected by political, economic, financial, and social factors in those regions. Direct or indirect government intervention to stabilize a particular securities market and cross-shareholdings in companies in the relevant foreign markets may affect prices and the volume of trading in those markets. In addition, recent or future changes in government, economic, and fiscal policies in the relevant jurisdictions, the possible imposition of, or changes in, currency exchange laws, or other laws or restrictions, and possible fluctuations in the rate of exchange between currencies, are factors that could negatively affect the relevant securities markets. The relevant foreign economies may differ from the U.S. economy in economic factors such as growth of gross national product, rate of inflation, capital reinvestment, resources, and self-sufficiency.

In particular, many emerging nations are undergoing rapid change, involving the restructuring of economic, political, financial and legal systems. Regulatory and tax environments may be subject to change without review or appeal, and many emerging markets suffer from underdevelopment of capital markets and tax systems. In addition, in some of these nations, issuers of the relevant securities face the threat of expropriation of their assets, and/or nationalization of their businesses. The economic and financial data about some of these countries may be unreliable.

**Publicly Available Information.** There is generally less publicly available information about foreign companies than about U.S. companies that are subject to the reporting requirements of the SEC. In addition, accounting, auditing, and financial reporting standards and requirements in foreign countries differ from those applicable to U.S. reporting companies.

**Unless otherwise set forth in the applicable term sheet, we and the agents do not control any Underlying Fund or any company whose securities are held by an Underlying Fund and have not verified any disclosure made by any Market Measure Publisher or any other company.** We, the agents, and/or our respective affiliates currently, or in the future, may engage in business with the Market Measure Publishers and companies whose securities are held by an Underlying Fund, and we, the agents, and/or our respective affiliates may from time to time own securities of those companies. However, none of us, the agents, or any of our respective affiliates has the ability to control the actions of any Market Measure Publisher or any of those companies or has undertaken any independent review of, or made any due diligence inquiry with respect to, any Market Measure Publisher or any of those companies, unless (and only to the extent that) the securities of us, the agents, and/or our respective affiliates are held by an Underlying Fund. You should make your own investigation into each Underlying Fund.

Unless otherwise set forth in the applicable term sheet, none of the money you pay us, the agents and/or our respective affiliates will go to any company whose underlying assets are included in the Market Measure. In addition, none of the Market Measure Publishers, their affiliates, or any companies included in the Market Measure will be involved in any offering of the notes or will have any obligation of any sort with respect to the notes. As a result, none of those companies will have any obligation to take your interests as holders of the notes into

consideration for any reason, including taking any corporate actions that might affect the value of the underlying assets represented by the Market Measure or the value of the notes.

**Our business activities and those of the agents relating to any companies whose securities are held by an Underlying Fund or the notes may create conflicts of interest with you.** We, the agents, and/or our respective affiliates, at the time of any offering of the notes or in the future, may engage in business with any companies whose securities are held by an Underlying Fund, including making loans to, equity investments in, or providing investment banking, asset management, or other services to those companies, their affiliates, and their competitors.

In connection with these activities, any of these entities may receive information about those companies that we will not divulge to you or other third parties. We, the agents, and/or our respective affiliates have published, and in the future may publish, research reports on one or more of these companies. The agents may also publish research reports relating to our or our affiliates' securities, including the notes. This research is modified from time to time without notice and may express opinions or provide recommendations that are inconsistent with purchasing or holding your notes. Any of these activities may affect the value of the Market Measure and, consequently, the market value of your notes. None of us, the agents, or any of our respective affiliates makes any representation to any purchasers of the notes regarding any matters whatsoever relating to any companies whose securities are held by an Underlying Fund. Any prospective purchaser of the notes should undertake an independent investigation of those companies to a level that, in its judgment, is appropriate to make an informed decision regarding an investment in the notes. The selection of an Underlying Fund does not reflect any investment recommendations from us, the agents, or our respective affiliates.

**No Market Measure Publisher will have any obligations relating to the notes.** No Market Measure Publisher will have any financial or legal obligation with respect to the notes or the amounts to be paid to you, including any obligation to take our needs or the needs of noteholders into consideration for any reason, including taking any actions that might affect the value of any Underlying Fund or the value of the notes. No Market Measure Publisher will receive any of the proceeds from any offering of the notes, and no Market Measure Publisher will be responsible for, or participate in, the offering of the notes. No Market Measure Publisher will be responsible for, or participate in, the determination or calculation of the amount receivable by holders of the notes.

Neither we nor any agent has made any independent investigation as to the completeness or accuracy of publicly available information regarding any Underlying Fund or as to the future performance of any Underlying Fund. Any prospective purchaser of the notes should undertake such independent investigation of any Underlying Fund as in its judgment is appropriate to make an informed decision with respect to an investment in the notes.

#### Risks Relating to Commodity-Based Underlying Funds

**The prices of commodities held by an Underlying Fund may change unpredictably, affecting the value of your notes in unforeseeable ways.** Trading in commodities and futures contracts is speculative and can be extremely volatile. Their market prices may fluctuate rapidly based on numerous factors, including: changes in supply and demand relationships; weather; trends in agriculture; trade, fiscal, monetary and exchange control programs; domestic and foreign political and economic events and policies; disease, pestilence and technological developments; changes in interest rates, whether through governmental action or market movements; currency exchange rates; volatility from speculative activities; the development, availability and/or decrease in price of substitutes; monetary and other

governmental policies, action and inaction; macroeconomic or geopolitical and military events, including political instability in some oil-producing countries or other countries in which the production of particular commodities may be concentrated; and natural or nuclear disasters. These factors may affect the value of an Underlying Fund in varying ways, and different factors may cause the levels and volatilities of commodity prices to move in inconsistent directions at inconsistent rates. Additionally, certain Underlying Funds may be concentrated in only a few, or even a single industry (e.g., energy). These Underlying Funds are likely to be more volatile than those that hold a broad base of commodities.

**If the liquidity of the components of any Underlying Fund is limited, the notes would likely be impaired.**

Commodities and derivatives contracts on commodities may be difficult to buy or sell, particularly during adverse market conditions. Reduced liquidity on the Observation Dates would likely have an adverse effect on the value of any such Underlying Fund and, therefore, on the return, if any, on your notes. Limited liquidity relating to the components of an Underlying Fund may also result in the Market Measure Publisher being unable to determine the value of its Underlying Fund using its normal means. The resulting discretion by the Market Measure Publisher of an Underlying Fund in determining the value could adversely affect the value of the notes.

**Suspension or disruptions of market trading in the applicable commodities and related futures contracts may adversely affect the value of your notes.** The commodity markets are subject to disruptions due to various factors, including the lack of liquidity in the markets, the participation of speculators, and government regulation and intervention. In addition, U.S. futures exchanges and some foreign exchanges have regulations that limit the amount of fluctuation in futures contract prices that may occur during a single business day. These limits are generally referred to as “daily price fluctuation limits,” and the maximum or minimum price of a contract on any given day as a result of these limits is referred to as a “limit price.” Once the limit price has been reached in a particular contract, no trades may be made at a different price. Limit prices have the effect of precluding trading in a particular contract or forcing the liquidation of contracts at disadvantageous times or prices. Any such disruption, or any other force majeure (such as an act of God, fire, flood, severe weather conditions, act of governmental authority, labor difficulty, etc.) could have an adverse effect on the value of or trading in shares of an Underlying Fund and therefore, the value of the notes.

**Legal and regulatory changes could adversely affect the return on and value of your notes.** The value of the commodities held by an Underlying Fund could be adversely affected by new laws or regulations or by the reinterpretation of existing laws or regulations (including, without limitation, those related to taxes and duties on commodities and futures contracts) by one or more governments, courts, or other official bodies.

In the U.S., the regulation of commodity transactions is subject to ongoing modification by governmental and judicial action. For example, the U.S. Commodity Futures Trading Commission (“**CFTC**”) has interpreted the Dodd-Frank Wall Street Reform and Consumer Protection Act (“**Dodd-Frank**”), which was enacted in July 2010, to require the CFTC to impose limits on the size of positions that can be held by market participants in futures contracts and OTC derivatives on certain physical commodities. The CFTC’s rules providing for such position limits have been, and may in the future be, subject to litigation challenging their validity, the potential final outcome of which cannot be known at this time. While the ultimate scope and effect of any final and implemented position limit rules are not yet known, these limits will likely restrict the ability of many market participants to trade in the commodities markets to the same extent as they have in the past, including affecting their ability to enter into or maintain hedge positions in the applicable commodity or futures contracts. These rules and various other legislative and regulatory requirements may, among other things, reduce liquidity, increase market volatility, and increase costs in these markets. These consequences could adversely affect an Underlying Fund and the value of your notes.



In addition, other governmental or regulatory bodies (such as the European Commission) have proposed or may propose in the future legislation or regulations containing restrictions similar to those contemplated by Dodd-Frank, or other legislation or regulations containing other restrictions that could adversely impact the liquidity of and increase costs of participating in the commodities markets. If such legislation or regulations are adopted or other legislation or regulations are adopted in the future, they could have an adverse effect on the value of the applicable Underlying Fund and your notes.

**The notes will not be regulated by the CFTC.** The notes will not be interests in a commodity pool nor will they be regulated by the CFTC as a commodity pool. Further, we will not be registered with the CFTC as a commodity pool operator. The notes will not constitute investments by you or by us on your behalf in futures contracts traded on regulated futures exchanges, which may only be transacted through a person registered with the CFTC as a “futures commission merchant” (“FCM”). We are not registered with the CFTC as an FCM, and you will not benefit from the CFTC’s or any other non-U.S. regulatory authority’s regulatory protections for persons who trade in futures contracts or who invest in regulated commodity pools.

**An Underlying Fund may include commodities or futures contracts traded on foreign exchanges that are less regulated than U.S. markets and may involve different and greater risks than trading on U.S. exchanges.** An Underlying Fund may own commodities or futures contracts that trade on exchanges located outside the U.S. The regulations of the CFTC do not apply to trading on foreign exchanges, and trading on foreign exchanges may involve different and greater risks than trading on U.S. exchanges. Certain foreign markets may be more susceptible to disruption than U.S. exchanges due to the lack of a government-regulated clearinghouse system. Trading on foreign exchanges also involves certain other risks that are not applicable to trading on U.S. exchanges. Those risks include: (a) exchange rate risk relative to the U.S. dollar; (b) exchange controls; (c) expropriation; (d) burdensome or confiscatory taxation; and (e) moratoriums, and political or diplomatic events. It may also be more costly and difficult for participants in those markets to enforce the laws or regulations of a foreign country or exchange, and it is possible that the foreign country or exchange may not have laws or regulations which adequately protect the rights and interests of investors in the relevant commodities or contracts. These factors could reduce the value of the applicable Underlying Fund and the value of your notes.

#### Other Risk Factors Relating to an Underlying Fund

The applicable term sheet may set forth additional risk factors as to an Underlying Fund that you should review prior to purchasing the notes.

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USE OF PROCEEDS and hedging

We will use the net proceeds we receive from each sale of the notes for the purposes described in the prospectus supplement under “Use of Proceeds.” In addition, we expect that we or our affiliates may use a portion of the net proceeds to hedge our obligations under the notes.

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## DESCRIPTION OF THE NOTES

### General

Each issue of the notes will be part of a series of medium-term notes entitled “Senior Note Program, Series A” that will be issued under the senior debt indenture, as amended and supplemented from time to time. The senior debt indenture is described more fully in the prospectus and prospectus supplement. The following description of the notes supplements and, to the extent it is inconsistent with, supersedes the description of the general terms and provisions of the notes and debt securities set forth under the headings “Description of the Notes” in the prospectus supplement and “Description of the Debt Securities We May Offer” in the prospectus. These documents should be read in connection with the applicable term sheet.

The maturity date of the notes and the aggregate principal amount of each issue of the notes will be stated in the term sheet. If the scheduled maturity date is not a business day, we will make the required payment on the next business day, and no interest will accrue as a result of such delay.

We will not pay interest on the notes. The notes do not guarantee the return of principal at maturity. The notes will be payable only in U.S. dollars.

Unless subject to an automatic call and automatically called prior to the maturity date, the notes will mature on the date set forth in the applicable term sheet. Prior to the maturity date, the notes are not redeemable at our option or repayable at the option of any holder. The notes are not subject to any sinking fund. The notes are not subject to the defeasance provisions described in the prospectus under the caption “Description of the Debt Securities We May Offer—Defeasance.”

The notes will be issued only in global form through The Depository Trust Company (“DTC”). We will issue the notes in denominations of whole units. Unless otherwise set forth in the applicable term sheet, each unit will have a principal amount of \$10. The CUSIP number for each issue of the notes will be set forth in the applicable term sheet. You may transfer the notes only in whole units.

### Payment at Maturity

If the notes are not subject to an automatic call or if the notes are subject to an automatic call but are not called, then at maturity, subject to our credit risk as issuer of the notes, you will receive a Redemption Amount, denominated in U.S. dollars. The “**Redemption Amount**” will be calculated as follows:

- If the Ending Value is greater than the Step Up Value, then the Redemption Amount will equal:

If specified in the applicable term sheet, at maturity, your notes may provide a leveraged return if the Ending Value is greater than the Step Up Value. In this case, a Participation Rate will be specified in the term sheet.

If the Ending Value is greater than or equal to the Starting Value but is equal to or less than the Step Up Value, then the Redemption Amount will equal:

Principal Amount + Step Up Payment

- If the Ending Value is less than the Starting Value, but is greater than or equal to the Threshold Value, then the Redemption Amount will equal the principal amount.
- If the Ending Value is less than the Threshold Value, then the Redemption Amount will equal:

The Redemption Amount will not be less than zero.

The “**Step Up Value**” will be a value of the Market Measure that is a specified percentage (over 100%) of the Starting Value, as set forth in the applicable term sheet.

The “**Step Up Payment**” will be a dollar amount that will be equal to a percentage of the principal amount. This percentage will equal the percentage by which the Step Up Value is greater than the Starting Value. The Step Up Payment will be determined on the pricing date and set forth in the applicable term sheet.

The “**Threshold Value**” will be a value of the Market Measure that equals a specified percentage of the Starting Value, which will be less than or equal to 100%. The Threshold Value will be determined on the pricing date and set forth in the term sheet. If the Threshold Value is equal to 100% of the Starting Value, then the Redemption Amount for the notes will be less than the principal amount if there is any decrease in the value of the Market Measure from the Starting Value to the Ending Value, and you may lose all of your investment in the notes.

The “**Participation Rate**”, if applicable, is the rate at which investors participate in any increase in the value of the Market Measure if the Ending Value is greater than the Step Up Value.

Each term sheet will provide examples of Redemption Amounts based on a range of hypothetical Ending Values.

The term sheet will set forth information as to the specific Market Measure, including information as to the historical values of the Market Measure. However, historical values of the Market Measure are not indicative of its future performance or the performance of your notes.

An investment in the notes does not entitle you to any ownership interest, including any voting rights, dividends paid, or other distributions made, in the securities of any of the companies included in a Market Measure.

#### Automatic Call

If specified in the applicable term sheet, the notes may be subject to an automatic call. In that case, the notes will be called, in whole but not in part, if the Observation Level of the

Market Measure on any Observation Date is greater than or equal to the Call Level set forth in the applicable term sheet.

The “**Call Level**” will be a value of the Market Measure that equals a specified percentage of the Starting Value.

The “**Observation Dates**” will be set forth in the applicable term sheet, subject to postponement in the event of Market Disruption Events. The final Observation Date will be prior to the calculation day.

If the notes are automatically called on an Observation Date, for each unit of the notes that you own, we will pay you the Call Amount applicable to that Observation Date. The “**Call Amount**” will be equal to the principal amount plus the applicable Call Premium. The “**Call Premium**” will be a percentage of the principal amount.

The Observation Dates and the related Call Amounts and Call Premiums will be specified in the applicable term sheet.

If the notes are automatically called on an Observation Date, we will redeem the notes and pay the applicable Call Amount on the applicable Call Settlement Date. Each “**Call Settlement Date**” will occur on approximately the fifth business day after the applicable Observation Date, subject to postponement as described below.

If a scheduled Observation Date is determined by the calculation agent not to be a Market Measure Business Day (as defined below) by reason of an extraordinary event, occurrence, declaration, or otherwise, or if there is a Market Disruption Event on that day, the applicable Observation Date will be the immediately succeeding Market Measure Business Day during which no Market Disruption Event occurs or is continuing; provided that the Observation Level will not be determined on a date later than the fifth scheduled Market Measure Business Day after the scheduled Observation Date, and if that fifth day is not a Market Measure Business Day, or if there is a Market Disruption Event on that date, the calculation agent will determine (or, if not determinable, estimate) the Observation Level in a manner which the calculation agent considers commercially reasonable under the circumstances on that fifth scheduled Market Measure Business Day.

If, due to a Market Disruption Event or otherwise, a scheduled Observation Date is postponed, the relevant Call Settlement Date will be postponed to approximately the fifth business day following the Observation Date as postponed, unless otherwise specified in the applicable term sheet.

Unless otherwise specified in the term sheet, a “**business day**” means any day, other than Saturday or Sunday, that is neither a legal holiday nor a day on which banking institutions are authorized or required by law to close in New York City or Toronto.

The Starting Value, the Observation Level and the Ending Value

Starting Value

In the case of an Index, unless otherwise specified in the term sheet, the “**Starting Value**” will be the closing level of the Index on the pricing date.

In the case of an Underlying Fund, unless otherwise specified in the term sheet, the “**Starting Value**” will be the Closing Market Price (as defined below) of the Underlying Fund on the pricing date.

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#### Observation Level

In the case of an Index, the “**Observation Level**” will equal the closing level of the Index on the applicable Observation Date.

In the case of an Underlying Fund, the Observation Level will equal the Closing Market Price of the Underlying Fund on the applicable Observation Date multiplied by the Price Multiplier (as defined below) on that day.

#### Ending Value

In the case of an Index, the “**Ending Value**” will equal the closing level of the Index on the calculation day.

In the case of an Underlying Fund, the “**Ending Value**” will equal the Closing Market Price of the Underlying Fund on the calculation day.

The “**Closing Market Price**” for one share of an Underlying Fund (or one unit of any other security for which a Closing Market Price must be determined) on any Market Measure Business Day means any of the following:

if the Underlying Fund (or such other security) is listed or admitted to trading on a national securities exchange, the last reported sale price, regular way (or, in the case of The NASDAQ Stock Market, the official closing price), of the principal trading session on that day on the principal U.S. securities exchange registered under the Securities Exchange Act of 1934, as amended, on which the Underlying Fund (or such other security) is listed or admitted to trading;

if the Underlying Fund (or such other security) is not listed or admitted to trading on any national securities exchange but is included in the OTC Bulletin Board, the last reported sale price of the principal trading session on the OTC Bulletin Board on that day;

if the closing price of the Underlying Fund (or such other security) cannot be determined as set forth in the two bullet points above, and the Underlying Fund (or such other security) is listed or admitted to trading on a non-U.S. securities exchange or market, the last reported sale price, regular way, of the principal trading session on that day on the primary non-U.S. securities exchange or market on which the Underlying Fund (or such other security) is listed or admitted to trading (converted to U.S. dollars using such exchange rate as the calculation agent, in its sole discretion, determines to be commercially reasonable); or

if the Closing Market Price cannot be determined as set forth in the prior bullets, the mean, as determined by the calculation agent, of the bid prices for the Underlying Fund (or such other security) obtained from as many dealers in that security (which may include us, MLPF&S and/or any of its affiliates), but not exceeding three, as will make the bid prices available to the calculation agent. If no such bid price can be obtained, the Closing Market Price will be determined (or, if not determinable, estimated) by the calculation agent in its sole discretion in a commercially reasonable manner.

The initial “**Price Multiplier**” for each Underlying Fund will be one, unless otherwise set forth in the applicable term sheet. The Price Multiplier for each Underlying Fund will be subject to adjustment for certain events relating to that Underlying Fund described below under “—Anti-Dilution and Discontinuance Adjustments Relating to Underlying Funds.”

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The “**calculation day**” means a Market Measure Business Day shortly before the maturity date, on which a Market Disruption Event has not occurred. The calculation day will be set forth in the term sheet.

Unless otherwise specified in the applicable term sheet, a “**Market Measure Business Day**” means a day on which (1) the New York Stock Exchange (the “**NYSE**”) and The NASDAQ Stock Market, or their successors, are open for trading and (2) in the case of an Index, the Index or any successor is calculated and published. As to any Underlying Fund, the term shall mean a day on which the securities exchange on which that Underlying Fund has its primary listing is open for trading.

If on the scheduled calculation day the calculation agent determines that there is a Market Disruption Event on that day, the calculation day will be the immediately succeeding Market Measure Business Day during which no Market Disruption Event occurs or is continuing; provided that the Ending Value will be determined (or, if not determinable, estimated) by the calculation agent in a manner which the calculation agent considers commercially reasonable under the circumstances on a date no later than the second scheduled Market Measure Business Day prior to the maturity date, regardless of the occurrence of a Market Disruption Event on that day.

If the Market Measure consists of a Basket, the Starting Value, each Observation Level, if applicable, and the Ending Value of the Basket will be determined as described in “—Basket Market Measures.”

#### Market Disruption Events

As to any Index, a “**Market Disruption Event**” means any of the following events, as determined by the calculation agent in its sole discretion:

- (A) the suspension of or material limitation on trading, in each case, for more than two consecutive hours of trading, or during the one-half hour period preceding the close of trading, on the primary exchange where the securities included in an Index trade (without taking into account any extended or after-hours trading session), in 20% or more of the securities which then compose the Index or any successor index;
- (B) the suspension of or material limitation on trading, in each case, for more than two consecutive hours of trading, or during the one-half hour period preceding the close of trading, on the primary exchange that trades options contracts or futures contracts related to the Index (without taking into account any extended or after-hours trading session), whether by reason of movements in price otherwise exceeding levels permitted by the relevant exchange or otherwise, in options contracts or futures contracts related to the Index, or any successor index; or
- (C) the determination that a scheduled Observation Date is not a Market Measure Business Day by reason of an extraordinary event, occurrence, declaration, or otherwise.

For the purpose of determining whether a Market Disruption Event has occurred:

- (1) a limitation on the hours in a Market Measure Business Day and/or number of days of trading will not constitute a Market Disruption Event if it results from an announced change in the regular business hours of the relevant exchange;
- (2) a decision to permanently discontinue trading in the relevant futures or options contracts related to the Index, or any successor index, will not constitute a Market Disruption Event;

- a suspension in trading in a futures or options contract on the Index, or any successor index, by a major securities market by reason of (a) a price change violating limits set by that securities market, (b) an imbalance of orders relating to those contracts, or (c) a disparity in bid and ask quotes relating to those contracts will constitute a suspension of or material limitation on trading in futures or options contracts related to the Index;
- (3) a suspension of or material limitation on trading on the relevant exchange will not include any time when that exchange is closed for trading under ordinary circumstances; and
- (4) if applicable to indices with component securities listed on the NYSE, for the purpose of clause (A) above, any limitations on trading during significant market fluctuations under NYSE Rule 80B, or any applicable rule or regulation enacted or promulgated by the NYSE or any other self-regulatory organization or the SEC of similar scope as determined by the calculation agent, will be considered “material.”
- (5)

As to any Underlying Fund, a Market Disruption Event means any of the following events, as determined by the calculation agent in its sole discretion:

- (A) the suspension of or material limitation on trading, in each case, for more than two consecutive hours of trading, or during the one-half hour period preceding the close of trading, of the shares of the Underlying Fund (or the successor underlying fund, as defined below) on the primary exchange where such shares trade, as determined by the calculation agent (without taking into account any extended or after-hours trading session);
- (B) the suspension of or material limitation on trading, in each case, for more than two consecutive hours of trading, or during the one-half hour period preceding the close of trading, on the primary exchange that trades options contracts or futures contracts related to the shares of the Underlying Fund (or successor underlying fund) as determined by the calculation agent (without taking into account any extended or after-hours trading session), in options contracts or futures contracts related to the shares of the Underlying Fund;
- (C) with respect to an Underlying Fund that holds equity securities, the suspension of or material limitation on trading, in each case, for more than two consecutive hours of trading, or during the one-half hour period preceding the close of trading, on the primary exchange where component stocks of the relevant Underlying Index (or the successor underlying index, as defined below) trade, as determined by the calculation agent (without taking into account any extended or after-hours trading session), in 20% or more of the stocks which then comprise the Underlying Index or any successor underlying index;
- (D) the suspension of or material limitation on trading, in each case, for more than two consecutive hours of trading, or during the one-half hour period preceding the close of trading, on the primary exchange that trades options contracts or futures contracts related to the relevant Underlying Index (or the successor underlying index) as determined by the calculation agent (without taking into account any extended or after-hours trading session), in options contracts or futures contracts related to the Underlying Index or any successor underlying index; or
- (E) the determination that a scheduled Observation Date is not a Market Measure Business Day by reason of an extraordinary event, occurrence, declaration, or otherwise.

The term sheet will identify, if applicable, any additions or changes to the Market Disruption Events for an Underlying Fund, including a commodity-based Underlying Fund.



For the purpose of determining whether a Market Disruption Event has occurred:

- a limitation on the hours in a Market Measure Business Day and/or number of days of trading will not constitute a
- (1) Market Disruption Event if it results from an announced change in the regular business hours of the relevant exchange;
  - (2) a decision to permanently discontinue trading in the shares of the Underlying Fund (or successor underlying fund) or the relevant futures or options contracts relating to such shares or the relevant Underlying Index (or any successor underlying index) will not constitute a Market Disruption Event;
  - (3) a suspension in trading in a futures or options contract on the shares of the Underlying Fund (or successor underlying fund) or the relevant Underlying Index (or any successor underlying index), by a major securities market by reason of (a) a price change violating limits set by that securities market, (b) an imbalance of orders relating to those contracts, or (c) a disparity in bid and ask quotes relating to those contracts, will each constitute a suspension of or material limitation on trading in futures or options contracts relating to the Underlying Fund;
  - (4) subject to paragraph (3) above, a suspension of or material limitation on trading on the relevant exchange will not include any time when that exchange is closed for trading under ordinary circumstances; and
  - (5) for the purpose of clauses (A) and (C) above, any limitations on trading during significant market fluctuations under NYSE Rule 80B, or any applicable rule or regulation enacted or promulgated by the NYSE or any other self-regulatory organization or the SEC of similar scope as determined by the calculation agent, will be considered “material.”

#### Adjustments to an Index

After the applicable pricing date, an Index Publisher may make a material change in the method of calculating an Index or in another way that changes the Index such that it does not, in the opinion of the calculation agent, fairly represent the level of the Index had those changes or modifications not been made. In this case, the calculation agent will, at the close of business in New York, New York, on each date that the closing level is to be calculated, make adjustments to the Index. Those adjustments will be made in good faith as necessary to arrive at a calculation of a level of the Index as if those changes or modifications had not been made, and calculate the closing level of the Index, as so adjusted.

#### Discontinuance of an Index

After the pricing date, an Index Publisher may discontinue publication of an Index to which an issue of the notes is linked. The Index Publisher or another entity may then publish a substitute index that the calculation agent determines, in its sole discretion, to be comparable to the original Index (a “**successor index**”). If this occurs, the calculation agent will substitute the successor index as calculated by the relevant Index Publisher or any other entity and calculate each Observation Level, if applicable, and/or the Ending Value as described under “—The Starting Value, the Observation Level and the Ending Value” or “—Basket Market Measure,” as applicable. If the calculation agent selects a successor index, the calculation agent will give written notice of the selection to the trustee, to us and to the holders of the notes.

If an Index Publisher discontinues publication of the Index before the calculation day and the calculation agent does not select a successor index, then on the day that would otherwise be the calculation day, or if applicable, an Observation Date, until the earlier to occur of:

the occurrence of an automatic call, if applicable;  
the determination of the Ending Value; or  
a determination by the calculation agent that a successor index is available,  
the calculation agent will compute a substitute level for the Index in accordance with the procedures last used to calculate the Index before any discontinuance. The calculation agent will make available to holders of the notes information regarding those levels by means of Bloomberg L.P., Thomson Reuters, a website, or any other means selected by the calculation agent in its reasonable discretion.

If a successor index is selected or the calculation agent calculates a level as a substitute As to any Index, the successor index or level will be used as a substitute for all purposes, including for the purpose of determining whether a Market Disruption Event exists.

Notwithstanding these alternative arrangements, any modification or discontinuance of the publication of any Index to which your notes are linked may adversely affect trading in the notes.

#### Anti-Dilution and Discontinuance Adjustments Relating to Underlying Funds

As to any Underlying Fund, the calculation agent, in its sole discretion, may adjust the Price Multiplier (and as a result, the Observation Levels and the Ending Value), and any other terms of the notes (such as the Starting Value), if an event described below occurs after the pricing date and on or before the final Observation Date and if the calculation agent determines that such an event has a diluting or concentrative effect on the theoretical value of the shares of the applicable Underlying Fund or successor underlying fund.

The Price Multiplier resulting from any of the adjustments specified below will be rounded to the eighth decimal place with five one-billionths being rounded upward. No adjustments to the Price Multiplier will be required unless the adjustment would require a change of at least 0.1% in the Price Multiplier then in effect. Any adjustment that would require a change of less than 0.1% in the Price Multiplier which is not applied at the time of the event may be reflected at the time of any subsequent adjustment that would require a change of the Price Multiplier. The required adjustments specified below do not cover all events that could affect an Underlying Fund.

No adjustments to the Price Multiplier for any Underlying Fund or any other terms of the notes will be required other than those specified below. However, the calculation agent may, at its sole discretion, make additional adjustments or adjustments that differ from those described herein to the Price Multiplier or any other terms of the notes to reflect changes to an Underlying Fund if the calculation agent determines in good faith and a commercially reasonable manner that the adjustment is appropriate to ensure an equitable result.

The calculation agent will be solely responsible for the determination of any adjustments to the Price Multiplier for any Underlying Fund or any other terms of the notes and of any related determinations with respect to any distributions of stock, other securities or other property or assets, including cash, in connection with any event described below; its determinations and calculations will be conclusive absent a determination of a manifest error.

Following an event that results in an adjustment to the Price Multiplier for any Underlying Fund or any of the other terms of the notes, the calculation agent may (but is not required to) provide holders of the notes with information about that adjustment as it deems appropriate, depending on the nature of the adjustment. Upon written request by any holder of the notes, the calculation agent will provide that holder with information about such adjustment.

#### Anti-Dilution Adjustments

The calculation agent, in its sole discretion and as it deems reasonable, may adjust the Price Multiplier for any Underlying Fund and other terms of the notes, and hence any Observation Level and the Ending Value, as a result of certain events related to an Underlying Fund, which include, but are not limited to, the following:

**Share Splits and Reverse Share Splits.** If an Underlying Fund is subject to a share split or reverse share split, then once such split has become effective, the Price Multiplier for that Underlying Fund will be adjusted such that the new Price Multiplier will equal the product of:

the prior Price Multiplier; and

the number of shares that a holder of one share of the Underlying Fund before the effective date of the share split or reverse share split would have owned immediately following the applicable effective date.

For example, a two-for-one share split would ordinarily change a Price Multiplier of one into a Price Multiplier of two. In contrast, a one-for-two reverse share split would ordinarily change a Price Multiplier of one into a Price Multiplier of one-half.

**Share Dividends.** If an Underlying Fund is subject to a share dividend (i.e., an issuance of additional shares of Underlying Fund) that is given ratably to all holders of the Underlying Fund, then, once the dividend has become effective and the Underlying Fund is trading ex-dividend, the Price Multiplier for that Underlying Fund will be adjusted on the ex-dividend date such that the new Price Multiplier will equal the prior Price Multiplier plus the product of:

the prior Price Multiplier; and

the number of additional shares issued in the share dividend with respect to one share of the Underlying Fund; provided that no adjustment will be made for a share dividend for which the number of shares of the Underlying Fund paid or distributed is based on a fixed cash equivalent value, unless such distribution is an Extraordinary Dividend (as defined below).

For example, a share dividend of one new share for each share held would ordinarily change a Price Multiplier of one into a Price Multiplier of two.

**Extraordinary Dividends.** There will be no adjustments to the Price Multiplier of an Underlying Fund to reflect any cash dividends or cash distributions paid with respect to that Underlying Fund other than Extraordinary Dividends, as described below, and distributions described under the sections entitled “—Other Distributions” and “—Reorganization Events” below.

An “**Extraordinary Dividend**” means, with respect to a cash dividend or other distribution with respect to an Underlying Fund, a dividend or other distribution that the calculation agent determines, in its sole discretion, is not declared or otherwise made according to the relevant Underlying Fund’s then existing policy or practice of paying such dividends on a

quarterly or other regular basis. If an Extraordinary Dividend occurs, the Price Multiplier for that Underlying Fund will be adjusted on the ex-dividend date so that the new Price Multiplier will equal the product of:

the prior Price Multiplier; and

a fraction, the numerator of which is the Closing Market Price per share of the Underlying Fund on the Market Measure Business Day preceding the ex-dividend date and the denominator of which is the amount by which the Closing Market Price per share of the Underlying Fund on that preceding Market Measure Business Day exceeds the Extraordinary Dividend Amount.

The “**Extraordinary Dividend Amount**” with respect to an Extraordinary Dividend will equal:

in the case of cash dividends or other distributions that are paid as regular dividends, the amount per share of the applicable Underlying Fund of that Extraordinary Dividend minus the amount per share of the immediately preceding non-Extraordinary Dividend for that share; or

in the case of cash dividends or other distributions that are not paid as regular dividends, the amount per share of the applicable Underlying Fund of that Extraordinary Dividend.

To the extent an Extraordinary Dividend is not paid in cash, the value of the non-cash component will be determined by the calculation agent, whose determination will be conclusive. A distribution on the applicable Underlying Fund described under the sections entitled “—Other Distributions” and “—Reorganization Events” below that also constitutes an Extraordinary Dividend will only cause an adjustment under those respective sections.

**Other Distributions.** If an Underlying Fund, after the pricing date, declares or makes a distribution to all holders of the shares of the applicable Underlying Fund of any class of its securities (other than shares of the applicable Underlying Fund), evidences of its indebtedness or other non-cash assets, including, but not limited to, transferable rights and warrants, then, in each of these cases, once the distribution has become effective and the shares are trading ex-dividend, the Price Multiplier for such Underlying Fund will be adjusted such that the new Price Multiplier will equal the product of:

the prior Price Multiplier; and

a fraction, the numerator of which will be the Current Market Price per share of the applicable Underlying Fund, and the denominator of which will be the Current Market Price per share of the applicable Underlying Fund, less the fair market value, as determined by the calculation agent, as of the time the adjustment is effected of the portion of the capital stock, evidences of indebtedness, rights or warrants, or other non-cash assets so distributed or issued applicable to one share of the applicable Underlying Fund.

The “**Current Market Price**” of any Underlying Fund means the arithmetic average of the Closing Market Prices of one share of such Underlying Fund for the five Market Measure Business Days prior to the Market Measure Business Day immediately preceding the ex-dividend date of the distribution requiring an adjustment to the Price Multiplier.

“**Ex-dividend date**” means the first Market Measure Business Day on which transactions in the shares of any Underlying Fund trade on the relevant exchange without the right to receive that cash dividend or other cash distribution.

The “**fair market value**” of any such distribution means the value of such distributions on the ex-dividend date for such distribution, as determined by the calculation agent. If such distribution consists of property traded on the ex-dividend date on a U.S. national securities exchange, the fair market value will equal the Closing Market Price of such distributed property on such ex-dividend date.

#### Reorganization Events

If after the pricing date and on or prior to the final Observation Date, as to any Underlying Fund, the Underlying Fund, or its successor, has been subject to a merger, combination, consolidation, or statutory exchange of securities with another exchange traded fund, and the Underlying Fund is not the surviving entity, then, on or after the date of such event, the calculation agent shall, in its sole discretion, make an adjustment to the Price Multiplier for such Underlying Fund or any other terms of the notes as the calculation agent, in its sole discretion, determines appropriate to account for the economic effect on the notes of that event (including adjustments to account for changes in volatility, expected dividends, stock loan rate, or liquidity relevant to the Underlying Fund or to the notes), and determine the effective date of that adjustment. If the calculation agent determines that no adjustment that it could make will produce a commercially reasonable result, then the calculation agent may deem the Underlying Fund to be de-listed, liquidated, discontinued, or otherwise terminated, the treatment of which is described below under “—Discontinuance of or Material Change to an Underlying Fund.”

#### Discontinuance of or Material Change to an Underlying Fund

If shares of an Underlying Fund are de-listed from its primary securities exchange (or any other relevant exchange), liquidated, or otherwise terminated, the calculation agent will substitute an exchange traded fund that the calculation agent determines, in its sole discretion, is comparable to the discontinued Underlying Fund (that exchange traded fund being referred to herein as a “**successor underlying fund**”). In that event, the calculation agent will adjust the applicable Price Multiplier, as necessary, such that the successor underlying fund closely replicates the performance of the Underlying Fund.

If an Underlying Fund (or a successor underlying fund) is de-listed, liquidated, or otherwise terminated and the calculation agent determines that no adequate substitute for the Underlying Fund (or a successor underlying fund) is available, then the calculation agent will, in its sole discretion, calculate the Closing Market Price of that Underlying Fund (or a successor underlying fund) by a computation methodology that the calculation agent determines will as closely as reasonably possible replicate that Underlying Fund (or a successor underlying fund). If the calculation agent determines that no such computation methodology will produce a commercially reasonable result, then the calculation agent, in its discretion, may cause the maturity date of the notes to be accelerated as described below.

If a successor underlying fund is selected or the calculation agent calculates the Closing Market Price by a computation methodology that the calculation agent determines will as closely as reasonably possible replicate the Underlying Fund (or a successor underlying fund), that successor underlying fund or substitute computation methodology, as applicable, will be substituted for the Underlying Fund (or that successor underlying fund) for all purposes of the notes.

If at any time:

an Underlying Index (or the underlying index related to a successor underlying fund) is discontinued or ceases to be published and (i) the Market Measure Publisher of the Underlying Index or another entity does not publish a successor or

substitute underlying index that the calculation agent determines, in its sole discretion, to be comparable to the Underlying Index (a “**successor underlying index**”) or (ii) the Market Measure Publisher of the Underlying Fund does not announce that the Underlying Fund will track the successor underlying index; or an Underlying Fund (or a successor underlying fund) in any way is modified (including, but not limited to, a material change in the investment policies, objectives or methodology of the Underlying Fund, or a material change to the related Underlying Index) so that the Underlying Fund does not, in the opinion of the calculation agent, fairly represent the price per share of that Underlying Fund (or that successor underlying fund) had those changes or modifications not been made; then, from and after that time, the calculation agent will make those calculations and adjustments that, in the good faith judgment of the calculation agent, may be necessary in order to arrive at a Closing Market Price of that Underlying Fund (or that successor underlying fund) as if those changes or modifications had not been made. The calculation agent also may determine that no adjustment is required. If the calculation agent determines that no such calculation or adjustment will produce a commercially reasonable result, then the calculation agent, in its discretion, may cause the maturity date of the notes to be accelerated as described below.

The calculation agent will be solely responsible for the method of calculating the Closing Market Price of the Underlying Fund (or any successor underlying fund) and of any related determinations and calculations, and its determinations and calculations with respect thereto will be conclusive in the absence of manifest error.

Notwithstanding these alternative arrangements, any modification or discontinuance of the Underlying Fund or the related Underlying Index may adversely affect trading in the notes.

If the calculation agent determines that no adjustment that it could make will produce a commercially reasonable result, then the calculation agent, in its discretion, may cause the notes to be accelerated to the fifth business day (the “**date of acceleration**”) following the date of that determination and the amount payable to you will be calculated as though the date of acceleration were the stated maturity date of the notes and as if the calculation day were five Market Measure Business day prior to the date of acceleration. Additionally, if the notes are accelerated, the Call Premium shall equal the Call Premium on the immediately preceding Observation Date, if any, *plus* the difference between the Call Premium for the immediately preceding Observation Date, if any, and the Call Premium for the immediately following Observation Date, pro-rated according to the period of time elapsed between the immediately preceding Observation Date and the date of acceleration.

#### Basket Market Measures

If the Market Measure to which your notes are linked is a Basket, the Basket Components and if necessary, the definition of Market Measure Business Day will be set forth in the term sheet. We will assign each Basket Component a weighting (the “**Initial Component Weight**”) so that each Basket Component represents a percentage of the Starting Value of the Basket on the pricing date. We may assign the Basket Components equal Initial Component Weights, or we may assign the Basket Components unequal Initial Component Weights. The Initial Component Weight for each Basket Component will be stated in the term sheet.

Determination of the Component Ratio for Each Basket Component

The “**Starting Value**” of the Basket will be equal to 100. We will set a fixed factor (the “**Component Ratio**”) for each Basket Component on the pricing date, based upon the weighting of that Basket Component. The Component Ratio for each Basket Component will equal:

the Initial Component Weight (expressed as a percentage) for that Basket Component, multiplied by 100; *divided by* the closing level or Closing Market Price, as applicable, of that Basket Component on the pricing date. Each Component Ratio will be rounded to eight decimal places.

The Component Ratios will be calculated in this way so that the Starting Value of the Basket will equal 100 on the pricing date. The Component Ratios will not be revised subsequent to their determination on the pricing date, except that the calculation agent may in its good faith judgment adjust the Component Ratio of any Basket Component in the event that Basket Component is materially changed or modified in a manner that does not, in the opinion of the calculation agent, fairly represent the value of that Basket Component had those material changes or modifications not been made.

The following table is for illustration purposes only, and does not reflect the actual composition, Initial Component Weights, or Component Ratios, which will be set forth in the term sheet.

Example: The **hypothetical** Basket Components are Underlying Fund ABC, Index XYZ, and Index RST, with their Initial Component Weights being 50.00%, 25.00% and 25.00%, respectively, on a **hypothetical** pricing date:

Basket Component	Initial Component Weight	Hypothetical Closing Level or Closing Market Price <sup>(1)</sup>	Hypothetical Component Ratio <sup>(2)</sup>	Initial Basket Value Contribution
Underlying Fund ABC	50.00%	500.00	0.10000000	50.00
Index XYZ	25.00%	2,420.00	0.01033058	25.00
Index RST	25.00%	1,014.00	0.02465483	25.00
Starting Value				100.00

(1) This column sets forth the **hypothetical** closing level or Closing Market Price, as applicable, of each Basket Component on the **hypothetical** pricing date.

(2) The **hypothetical** Component Ratio for each Basket Component equals its Initial Component Weight (expressed as a percentage) multiplied by 100, and then divided by the closing level or Closing Market Price, as applicable, of that Basket Component on the **hypothetical** pricing date, with the result rounded to eight decimal places.

Unless otherwise stated in the term sheet, if a Market Disruption Event occurs on the pricing date as to any Basket Component, the calculation agent will establish the closing level or Closing Market Price, as applicable, of that Basket Component (the “**Basket Component**”).

**Closing Level**”), and thus its Component Ratio, based on the closing level or Closing Market Price, as applicable, of that Basket Component on the first Market Measure Business Day following the pricing date on which no Market Disruption Event occurs for that Basket Component. In the event that a Market Disruption Event occurs for that Basket Component on the pricing date and on each day to and including the second scheduled Market Measure Business Day following the pricing date, the calculation agent (not later than the close of business in New York, New York on the second scheduled Market Measure Business Day following the pricing date) will estimate the Basket Component Closing Level, and thus the applicable Component Ratio, in a manner that the calculation agent considers commercially reasonable. The final term sheet will provide the Basket Component Closing Level, a brief statement of the facts relating to the establishment of the Basket Component Closing Level (including the applicable Market Disruption Event(s)), and the applicable Component Ratio.

For purposes of determining whether a Market Disruption Event has occurred as to any Basket Component, “Market Disruption Event” will have the meaning stated above in “—Market Disruption Events.”

#### Observation Level or Ending Value of the Basket

The calculation agent will calculate the value of the Basket by summing the products of the Closing Levels or Closing Market Prices, as applicable, of each Basket Component, on the relevant Market Measure Business Day (multiplied by its Price Multiplier on that day, if applicable) and the Component Ratio for each Basket Component. The value of the Basket will vary based on the increase or decrease in the value of each Basket Component. Any increase in the value of a Basket Component (assuming no change in the value of the other Basket Component or Basket Components) will result in an increase in the value of the Basket. Conversely, any decrease in the value of a Basket Component (assuming no change in the value of the other Basket Component or Basket Components) will result in a decrease in the value of the Basket.

The “**Observation Level**” of the Basket, if applicable, will be the value of the Basket on the relevant Observation Date.

The “**Ending Value**” of the Basket will be the value of the Basket on the calculation day.

Unless otherwise specified in the term sheet, if, for any Basket Component (an “**Affected Basket Component**”), (i) a Market Disruption Event occurs on the scheduled calculation day, or if applicable, on an Observation Date, or (ii) any such date is determined by the calculation agent not to be a Market Measure Business Day by reason of an extraordinary event, occurrence, declaration, or otherwise (any such day in either (i) or (ii) being a “**non-calculation day**”), the calculation agent will determine the closing levels or Closing Market Prices, as applicable, of the Basket Components for such non-calculation day, and as a result, the Ending Value or the relevant Observation Level, if applicable, as follows:

The closing level or Closing Market Price, as applicable, of each Basket Component that is not an Affected Basket Component will be its closing level or Closing Market Price, as applicable, on such non-calculation day.

The closing level or Closing Market Price, as applicable, of each Basket Component that is an Affected Basket Component for the applicable non-calculation day will be determined in the same manner as described in the seventh paragraph of subsection “—Automatic Call” or the fourth paragraph of subsection “—The Starting Value, the Observation Level and the Ending Value—Ending Value,” as applicable.

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### Role of the Calculation Agent

The calculation agent has the sole discretion to make all determinations regarding the notes as described in this product prospectus supplement, including determinations regarding the Starting Value, the Step Up Value, the Threshold Value, the Ending Value, the Market Measure, the Redemption Amount, any Market Disruption Events, a successor index, Market Measure Business Days, business days, the calculation day, non-calculation days, determinations related to any adjustments to, or the discontinuance of, any Index or Underlying Fund, and if applicable, the Call Level, the Observation Level of the Market Measure on each Observation Date, and whether the notes will be automatically called. Absent manifest error, all determinations of the calculation agent will be conclusive for all purposes and final and binding on you and us, without any liability on the part of the calculation agent.

We expect to appoint MLPF&S or one of its affiliates as the calculation agent for each issue of the notes. However, we may change the calculation agent at any time without notifying you. The identity of the calculation agent will be set forth in the applicable term sheet.

### Same-Day Settlement and Payment

The notes will be delivered in book-entry form only through DTC against payment by purchasers of the notes in immediately available funds. We will pay the amount payable on the notes in immediately available funds so long as the notes are maintained in book-entry form.

### Events of Default and Acceleration

Events of default are defined in the senior debt indenture. Subject to the below paragraph, if such an event occurs and is continuing, unless otherwise stated in the term sheet, the amount payable to a holder of the notes upon any acceleration permitted under the senior debt indenture will be equal to the payment described under the caption “—Payment at Maturity,” determined as if the date of acceleration were the maturity date of the notes and as if the calculation day were the fifth Market Measure Business Day prior to the date of acceleration.

If the notes are subject to an automatic call, and an event of default occurs on or prior to the final Observation Date (i.e., not during the period from the final Observation Date to the original maturity date of the notes), then the payment on the notes will be determined as described under the caption “—Automatic Call,” as if the next scheduled Observation Date were five Market Measure Business Days prior to the date of acceleration; provided that the applicable Observation Level as of that date is greater than or equal to the Call Level. In such a case, the calculation agent shall pro-rate the applicable Call Premium and Call Amount according to the period of time elapsed between the settlement date of the notes and the date of acceleration. For the avoidance of doubt, if the Observation Level of the Market Measure as of that date is less than the Call Level, the payment on the notes will be calculated as set forth in the prior paragraph.

If a bankruptcy proceeding is commenced in respect of us, your claim may be limited under applicable bankruptcy law. In case of a default in payment of the notes, whether at their maturity or upon acceleration, they will not bear a default interest rate. For additional discussion of these matters, please see the discussion in the prospectus under the headings “Description of the Debt Securities We May Offer—Modification and Waiver of the Debt Securities” beginning on page 23 and “—Events of Default” beginning on page 27.

Listing

Unless otherwise specified in the applicable term sheet, the notes will not be listed on a securities exchange or quotation system.

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## SUPPLEMENTAL PLAN OF DISTRIBUTION

MLPF&S and one or more of its affiliates may act as our agents for any offering of the notes, and MLPF&S will act in a principal capacity in such role, unless otherwise specified in the applicable term sheet. Each agent will be a party to the distribution agreement described in the “Supplemental Plan of Distribution (Conflicts of Interest)” beginning on page S-23 of the accompanying prospectus supplement.

Each agent will receive an underwriting discount that is a percentage of the aggregate principal amount of the notes sold through its efforts, which will be set forth in the applicable term sheet. You must have an account with the applicable agent in order to purchase the notes.

None of the agents is acting as your fiduciary or advisor solely as a result of the making of any offering of the notes, and you should not rely upon this product prospectus supplement, the term sheet, or the accompanying prospectus or prospectus supplement as investment advice or a recommendation to purchase any notes. You should make your own investment decision regarding the notes after consulting with your legal, tax, and other advisors.

MLPF&S and its affiliates may use this product prospectus supplement, the prospectus supplement, and the prospectus, together with the applicable term sheet, in market-making transactions for any notes after their initial sale solely for the purpose of providing investors with the description of the terms of the notes that were made available to investors in connection with the initial distribution of the notes. Secondary market investors should not, and will not be authorized to rely on these documents for information regarding the Bank or for any purpose other than that described in the immediately preceding sentence.

### Selling Restrictions

#### European Economic Area

MLPF&S has represented and agreed, and each further dealer appointed under the program will be required to represent and agree, that it has not offered, sold or otherwise made available and will not offer, sell or otherwise make available the notes to any retail investor in the European Economic Area. Consequently no key information document required by the PRIIPs Regulation for offering or selling the notes or otherwise making the notes available to retail investors in the European Economic Area has been prepared and therefore offering or selling the notes or otherwise making them available to any retail investor in the European Economic Area may be unlawful under the PRIIPs Regulation. For the purposes of this provision:

(a) the expression “**retail investor**” means a person who is one (or more) of the following:

- a. a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, “**MiFID II**”); or
- b. a customer within the meaning of Insurance Distribution Directive 2016/97/EU, as amended, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or
- c. not a qualified investor as defined in Directive 2003/71/EC, as amended;

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- the expression “**offer**” includes the communication in any form and by any means of sufficient information on the
- (b) terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe the notes; and
  - (c) the expression “**PRIIPs Regulation**” means Regulation (EU) No 1286/2014.
- United Kingdom

MLPF&S has represented and agreed, and each further dealer appointed under the program will be required to represent and agree, that:

- (d) in relation to any notes which have a maturity of less than one year, (i) it is a person whose ordinary activities involve it in acquiring, holding, managing, or disposing of investments (as principal or as agent) for the purposes of its business and (ii) it has not offered or sold and will not offer or sell any notes other than to persons whose ordinary activities involve them in acquiring, holding, managing, or disposing of investments (as principal or as agent) for the purposes of their businesses or who it is reasonable to expect will acquire, hold, manage, or dispose of investments (as principal or as agent) for the purposes of their businesses where the issue of the notes would otherwise constitute a contravention of section 19 of the Financial Services and Markets Act 2000 (the “**FSMA**”) by the Bank;
- (e) it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the meaning of section 21 of the FSMA) received by it in connection with the issue or sale of any notes in circumstances in which section 21(1) of the FSMA does not apply to the Bank; and
- (f) it has complied and will comply with all applicable provisions of the FSMA with respect to anything done by it in relation to the notes in, from or otherwise involving the United Kingdom.

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Supplemental discussion of Canadian FEDERAL INCOME tax consequences

In the opinion of Osler, Hoskin & Harcourt, LLP, Canadian counsel to the Bank, the following is a summary of the principal Canadian federal income tax considerations generally applicable to a purchaser who acquires, as a beneficial owner, the notes, including entitlement to all payments thereunder, pursuant to the initial offering by the Bank made in connection with the original issuance of the notes and who, at all relevant times, for purposes of the application of the Income Tax Act (Canada) and the Income Tax Regulations (collectively, the “**Act**”) is not, and is not deemed to be, resident in Canada, deals at arm’s length with the Bank and any transferee resident (or deemed to be resident) in Canada to whom the purchaser disposes of the notes, does not use or hold the notes in a business carried on in Canada, and is not a “specified non-resident shareholder” of the Bank for purposes of the Act or a non-resident person not dealing at arm’s length with a “specified shareholder” (as defined in subsection 18(5) of the Act) of the Bank (a “**Non-Resident Holder**”). Special rules, which are not discussed in this summary, may apply to a non-Canadian holder that is an insurer carrying on an insurance business in Canada and elsewhere.

This summary is based upon the current provisions of the Act and an understanding of the current administrative policies and assessing practices of the CRA published in writing prior to the date hereof. This summary takes into account all specific proposals to amend the Act publicly announced by or on behalf of the Minister of Finance (Canada) prior to the date hereof (the “**Proposals**”) and assumes that all Proposals will be enacted in the form proposed. However, no assurances can be given that the Proposals will be enacted as proposed, or at all. This summary does not otherwise take into account any changes in law or administrative practices or assessing policies, whether by legislative, administrative or judicial action, nor does it take into account tax legislation or considerations of any province, territory or foreign jurisdiction, which may differ from those discussed herein.

This summary assumes that no interest paid on the notes will be in respect of a debt or other obligation to pay an amount to a person with whom the Bank does not deal at arm’s length, within the meaning of the Act.

This summary is of a general nature only and is not, and is not intended to be, legal or tax advice to any particular holder. This summary is not exhaustive of all Canadian federal income tax considerations. Accordingly, prospective purchasers should consult their own tax advisors with regard to their own particular circumstances.

Interest paid or credited or deemed for purposes of the Act to be paid or credited on a note (including any amount paid at maturity in excess of the principal amount and interest deemed to be paid on the note in certain cases involving the assignment, deemed assignment or other transfer of a note to the Bank or any other resident or deemed resident of Canada) to a Non-Resident Holder will not be subject to Canadian non-resident withholding tax unless any portion of such interest is contingent or dependent on the use of or production from property in Canada or is computed by reference to revenue, profit, cash flow, commodity price or any other similar criterion or by reference to dividends paid or payable to shareholders of any class of shares of the capital stock of a corporation (“**Participating Debt Interest**”) subject to certain exceptions. Unless otherwise specified in the relevant term sheet, no portion of the interest paid or credited or deemed to be paid or credited on a note will be Participating Debt Interest. Any conclusion that interest paid or credited or deemed to be paid or credited on a note will not be Participating Debt Interest will be based in part on the published administrative position of the CRA.

No other Canadian federal taxes on income or gains will be payable by a Non-Resident Holder on interest or principal, or on proceeds received by a Non-Resident Holder on the disposition of a note, including on a redemption, payment on maturity, repurchase or purchase for cancellation.

MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES

The U.S. federal income tax consequences of your investment in the notes are uncertain. There are no statutory provisions, regulations, published rulings or judicial decisions addressing the characterization for U.S. federal income tax purposes of how the notes should be treated for U.S. federal income tax purposes and we do not plan to request a ruling from the IRS. The following is a general description of certain material U.S. federal income tax consequences of the ownership and disposition of the notes and does not purport to be a complete analysis of all tax consequences relating to the notes. This summary is based upon the Internal Revenue Code of 1986, as amended (the "Code"), final, temporary and proposed Treasury regulations, rulings and decisions, in each case, as available and in effect as of the date of this document, all of which are subject to change, possibly with retroactive effect. Tax consequences under state, local and non-U.S. laws are not addressed herein. The term sheet may contain a further discussion of the special federal income tax consequences applicable to certain notes. The summary of the federal income tax considerations contained in the term sheet supersedes the following summary to the extent it is inconsistent therewith. In addition, the discussion below assumes that an investor in the notes will be subject to a significant risk that it will lose a significant amount of its investment in the notes. If an investor in the notes is not subject to a significant risk that it will lose a significant amount of its investment in the notes, the federal income tax treatment of that note may differ substantially from that described in the discussion below and such treatment will be described in the term sheet. The discussion below also assumes that the notes will not provide for the payment of a coupon. If the notes provide for the payment of a coupon, the federal income tax treatment of the coupon will be described in the term sheet. Prospective purchasers of the notes are urged to read the discussion in the term sheet relating to the notes and to consult their tax advisors as to the consequences under the tax laws of the country of which they are resident for tax purposes and the tax laws of Canada and the U.S. of acquiring, holding and disposing of the notes and receiving payments under the notes. For additional information, see "Certain Income Tax Consequences" in the prospectus supplement and "United States Taxation" in the prospectus. The following section supplements the discussion of U.S. federal income taxation the prospectus supplement and the prospectus.

This discussion applies to you only if you acquire your notes upon initial issuance and hold your notes as capital assets for U.S. federal income tax purposes. This discussion does not apply to you if you are a member of a class of holders subject to special rules, such as:

- a dealer in securities or currencies,
- a trader in securities that elects to use a mark-to-market method of accounting for its securities holdings,
- a financial institution or a bank,
- a regulated investment company (a "RIC") or a real estate investment trust (a "REIT") or a common trust fund,
- a life insurance company,
- a tax-exempt organization or an investor holding the notes in a tax-advantaged account (such as an "Individual Retirement Account" or "Roth IRA"), as defined in Section 408 or 408A of the Code, respectively,
- a person that owns notes as part of a hedging transaction, straddle, synthetic security, conversion transaction, or other integrated transaction, or enters into a "constructive sale" with respect to the notes or a "wash sale" with respect to the notes or any Market Measure, or
- a U.S. holder (as defined below) whose functional currency for tax purposes is not the U.S. dollar.

If you are considering the purchase of a note, you should consult your tax advisor concerning the application of the U.S. federal income tax laws to your particular situation, as well as any tax consequences arising under the laws of any state, local or non-U.S. jurisdictions.

Except as otherwise noted under “Non-U.S. Holders” below, this discussion is only applicable to you if you are a U.S. holder. You are a U.S. holder if you are a beneficial owner of a note and you are: (i) an individual who is a citizen or a resident of the U.S. for U.S. federal income tax purposes, (ii) a domestic corporation or other entity that is treated as a corporation for U.S. federal income tax purposes and is created or organized in or under the laws of the U.S. or any political subdivision thereof, (iii) an estate whose income is subject to U.S. federal income tax regardless of its source, or (iv) a trust if a court within the U.S. is able to exercise primary supervision over its administration, and one or more U.S. persons for U.S. federal income tax purposes have the authority to control all substantial decisions of the trust.

An individual may, subject to certain exceptions, be deemed to be a resident of the U.S. for U.S. federal income tax purposes by reason of being present in the U.S. for at least 31 days in the calendar year and for an aggregate of at least 183 days during a three-year period ending in the current calendar year (counting for such purposes all of the days present in the current year, one-third of the days present in the immediately preceding year, and one-sixth of the days present in the second preceding year).

If a partnership, or any entity treated as a partnership for U.S. federal income tax purposes, holds the notes, the U.S. federal income tax treatment of a partner will generally depend on the status of the partner and the tax treatment of the partnership. A partner in a partnership holding the notes should consult its tax advisor with regard to the U.S. federal income tax treatment of an investment in the notes.

*Section 1297.* In addition, we will not attempt to ascertain whether the issuer of any Market Measure or of any component security of a Market Measure, as applicable, would be treated as a PFIC within the meaning of Section 1297 of the Code. If any such entity were so treated, certain adverse U.S. federal income tax consequences might apply upon the taxable disposition of a note. You should refer to information filed with the SEC or the equivalent governmental authority by such entities and consult your tax advisor regarding the possible consequences to you if any such entity is or becomes a PFIC.

Unless otherwise specified in the term sheet, we expect our counsel, Cadwalader, Wickersham & Taft LLP, based on certain factual representations received from us, would be able to opine that it would be reasonable to treat your notes as pre-paid derivative contracts with respect to the Market Measure or Basket and the terms of the notes require you and us (in the absence of a statutory or regulatory change or administrative determination or judicial ruling to the contrary) to treat the notes for all tax purposes in accordance with such characterization. If the notes are so treated, subject to the discussion below of the “constructive ownership” rules, you should generally not accrue any income with respect to the notes during the term of the notes until a taxable disposition of the notes and you should generally recognize capital gain or loss upon such taxable disposition of your notes in an amount equal to the difference between the amount you receive at such time and your tax basis in the notes. In general, your tax basis in your notes will be equal to the amount you paid for your notes. Subject to the discussion below of the “constructive ownership” rules, such recognized gain or loss should generally be long-term capital gain or loss if you have held your notes for more than one year (otherwise, such gain or loss would be short-term capital gain or loss if held for one year or less). The deductibility of capital losses is subject to limitations.

It is possible that the IRS could assert that your holding period in respect of your notes should end on the date on which the amount you are entitled to receive upon maturity of your

notes is determined, even though you will not receive any amounts from the Bank in respect of your notes prior to the maturity of your notes. In such case, you may be treated as having a holding period in respect of your notes ending prior to the maturity date for your notes, and such holding period may be treated as less than one year even if you receive cash on the maturity date of your notes at a time that is more than one year after the beginning of your holding period.

#### Notice 2008-2

In 2007, the IRS released a notice that may affect the taxation of holders of the notes. According to the notice, the IRS and the Treasury are actively considering whether a holder of an instrument such as the notes should be required to accrue ordinary income on a current basis, and they are seeking taxpayer comments on the subject. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the notes will ultimately be required to accrue income currently and this could be applied on a retroactive basis. The IRS and the Treasury are also considering other relevant 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, and whether the special "constructive ownership rules" of Section 1260 of the Code should be applied to such instruments. Both U.S. and non-U.S. holders are urged to consult their tax advisors concerning the significance, and the potential impact, of the above considerations on their investments in the notes.

#### Section 1260

If a note references an Underlying Fund or a component security of a Market Measure that is treated as equity in a RIC (or a "trust") such as certain Underlying Funds, a REIT, a passive foreign investment company (a "PFIC"), a partnership (including a master limited partnership), or other "pass-thru entity" for purposes of Section 1260 of the Code, it is possible that the "constructive ownership transaction" rules of Section 1260 of the Code may apply, in which case the tax consequences of a taxable disposition of the notes could be materially and adversely affected. Under the "constructive ownership" rules, if an investment in the notes is treated as a "constructive ownership transaction", any long-term capital gain recognized by a U.S. holder in respect of such notes will be recharacterized as ordinary income to the extent such gain exceeds the amount of "net underlying long-term capital gain" (as defined in Section 1260 of the Code) of the U.S. holder (the "Excess Gain"). In addition, an interest charge would also apply to any deemed underpayment of tax in respect of any "Excess Gain" to the extent such gain would have resulted in gross income inclusion for the U.S. holder in taxable years prior to the taxable year of the taxable disposition of the note (assuming such income accrued such that the amount in each successor year is equal to the income in the prior year increased at a constant rate equal to the applicable federal rate as of the date of the taxable disposition). In the case of notes referencing a pass-thru entity containing gold and/or silver, if Section 1260 of the Code were to apply to the notes, any long-term capital gain recognized with respect to the notes that is not recharacterized as ordinary income would be subject to tax at a special 28% maximum rate that is applicable to "collectibles". There exists a risk that an investment in notes that are linked to shares of an Underlying Fund, PFIC, REIT, RIC or other "pass-thru" entity or to a Basket or Market Measure that contains shares of an Underlying Fund, PFIC, REIT, RIC or other "pass-thru entity" could be treated as a "constructive ownership transaction". Furthermore, depending on the precise terms of a particular offering of notes that reference an Underlying Fund, PFIC, REIT or other "pass-thru entity", the risk may be substantial that an investment in such notes would be treated as a "constructive ownership transaction", and that all or a portion of any long-term capital gain recognized with respect to such notes could be recharacterized as ordinary income and subject to an interest charge (or, in the case of a pass-thru entity containing gold and/or silver, subject to a special 28% maximum rate that is applicable to "collectibles").



If such treatment applies, it is not clear to what extent any long-term capital gain recognized by a U.S. holder in respect of a note would be recharacterized as ordinary income and subject to the interest charge described above, in part because it is not clear how the “net underlying long-term capital gain” would be computed in respect of a note. Under Section 1260 of the Code, the net underlying long-term capital gain is generally the net long-term capital gain a taxpayer would have recognized by investing in the underlying “pass-thru entity” at the inception of the constructive ownership transaction and selling on the date the constructive ownership transaction is closed out (i.e. at maturity or earlier disposition). It is possible that because the U.S. holder does not share in distributions made on the Market Measure or component securities of a Market Measure, these distributions could be excluded from the calculation of the amount and character of gain, if any, that would have been realized had the U.S. holder held the Market Measure or component securities of a Market Measure directly and that the application of constructive ownership rules may not recharacterize adversely a significant portion of the long-term capital gain recognized with respect to the notes. However, it is also possible that all or a portion of the gain with respect to the notes could be treated as “Excess Gain” if, for example, where a pass-thru entity is the sole Market Measure, the “net underlying long-term capital gain” could equal the amount of long-term capital gain a U.S. holder would have recognized if on the issue date of the notes the holder had invested the principal amount of the notes in shares of the Market Measure that is treated as a “pass-thru entity” and sold those shares for their fair market value on the date of a taxable disposition of the notes. In addition, all or a portion of the gain recognized with respect to the notes could be “Excess Gain” for notes purchased for an amount that is less than the principal amount of the notes or if the return on the notes is adjusted to take into account any extraordinary dividends that are paid on the shares of the Market Measure. Furthermore, unless otherwise established by clear and convincing evidence, the “net underlying long-term capital gain” is treated as zero. Accordingly, it is possible that all or a portion of any gain on the taxable disposition of a note after one year could be treated as “Excess Gain” from a “constructive ownership transaction”, which gain would be recharacterized as ordinary income, and subject to an interest charge (or, in the case of an Underlying Fund containing gold and/or silver, subject to the tax rate applicable to “collectibles”).

Because the application of the constructive ownership rules to the notes is unclear, holders are urged to consult their tax advisors regarding the potential application of those rules to an investment in the notes.

#### Alternative Treatments

Because of the absence of authority regarding the appropriate tax characterization of your notes, it is possible that the IRS could seek to characterize your notes in a manner that results in tax consequences to you that are materially different from those described above and could materially and adversely affect the timing and/or character of income or loss with respect to the notes. The IRS has released a notice that may affect the taxation of holders of the notes. According to Notice 2008-2, the IRS and the Treasury are actively considering whether the holder of an instrument such as the notes should be required to accrue ordinary income on a current basis, and they are seeking taxpayer comments on the subject. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the notes will ultimately be required to accrue income currently and this could be applied on a retroactive basis. The IRS and the Treasury are also considering other relevant issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital, whether non-U.S. holders of such instruments should be subject to withholding tax on any deemed income accruals, and whether the special “constructive ownership rules” of Section 1260 of the Code should be applied to such instruments. Holders are urged to consult their tax advisors concerning the significance, and the potential impact, of the above considerations. Except to the extent otherwise required by law, we intend to treat your notes for U.S. federal income tax purposes in accordance with the

treatment described above unless and until such time as the IRS and the Treasury determine that some other treatment is more appropriate.

*Contingent Payment Debt Instrument.* If the notes have a term more than one year, it is possible that the notes could be treated as a debt instrument subject to the special tax rules governing contingent payment debt instruments. If the notes are so treated, you would be required to accrue interest income over the term of your notes based upon the yield at which we would issue a non-contingent fixed-rate debt instrument with other terms and conditions similar to your notes. You would recognize gain or loss upon the taxable disposition of your notes in an amount equal to the difference, if any, between the amount you receive at such time and your adjusted basis in your notes. In general, your adjusted basis in your notes would be equal to the amount you paid for your notes, increased by the amount of interest you previously accrued with respect to your notes. Any gain you recognize upon the taxable disposition of your notes would be ordinary income and any loss recognized by you at such time would be ordinary loss to the extent of interest you included in income in the current or previous taxable years in respect of your notes, and thereafter, would be capital loss.

*Contingent Short-Term Debt Instrument.* Similarly, if the notes have a term of one year or less, it is possible that the notes could be treated as a single contingent short-term debt instrument. However, there are no specific rules that govern this type of instrument, and therefore, if the Securities were characterized as a single contingent short-term debt instrument, the U.S. federal income tax treatment of the Securities would not be entirely clear.

*Other Alternative Treatments.* The IRS could also possibly assert that (i) you should be treated as owning the Market Measure, any Basket Components or the component securities of the Market Measure, (ii) any gain or loss that you recognize upon the exchange or maturity of the notes should be treated as ordinary gain or loss or short-term capital gain or loss, (iii) you should be required to accrue interest income over the term of your notes, (iv) you should be required to include in ordinary income an amount equal to any increase in the Market Measure, any Basket Components or any component securities of a Market Measure that is attributable to ordinary income that is realized in respect of the Market Measure, any Basket Components or any component securities of a Market Measure, such as interest, dividends or net-rental income or (v) you should be required to recognize taxable gain upon a rollover, rebalancing or change, if any, of any component securities of a Market Measure. You should consult your tax advisor as to the tax consequences of such characterization and any possible alternative characterizations of your notes for U.S. federal income tax purposes.

#### Medicare Tax on Net Investment Income

U.S. holders that are individuals, estates, and certain trusts are subject to an additional 3.8% tax on all or a portion of their “net investment income” or “undistributed net investment income” in the case of an estate or trust, which may include any income or gain realized with respect to the notes, to the extent of their net investment income (as the case may be) that, when added to their other modified adjusted gross income, exceeds \$200,000 for an unmarried individual, \$250,000 for a married taxpayer filing a joint return (or a surviving spouse), or \$125,000 for a married individual filing a separate return, or the dollar amount at which the highest tax bracket begins for an estate or trust. The 3.8% Medicare tax is determined in a different manner than the income tax. U.S. holders should consult their advisors with respect to their consequences with respect to the 3.8% Medicare tax.

#### Information Reporting with respect to Foreign Financial Assets

U.S. holders may be subject to reporting obligations with respect to their notes if they do not hold their notes in an account maintained by a financial institution and the aggregate value of their notes and certain other “specified foreign financial assets” (applying certain

attribution rules) exceeds an applicable threshold. Significant penalties can apply if a U.S. holder is required to disclose its notes and fails to do so.

#### Treasury Regulations Requiring Disclosure of Reportable Transactions

Treasury regulations require U.S. taxpayers to report certain transactions (“Reportable Transactions”) on IRS Form 8886. An investment in the notes or a sale of the notes generally should not be treated as a Reportable Transaction under current law, but it is possible that future legislation, regulations or administrative rulings could cause your investment in the notes or a sale of the notes to be treated as a Reportable Transaction. You should consult with your tax advisor regarding any tax filing and reporting obligations that may apply in connection with acquiring, owning or disposing of notes.

#### Backup Withholding and Information Reporting

The proceeds received from a taxable disposition of the notes will be subject to information reporting unless you are an “exempt recipient” and may also be subject to backup withholding at the rate specified in the Code if you fail to provide certain identifying information (such as an accurate taxpayer number, if you are a U.S. holder) or meet certain other conditions. If you are a non-U.S. holder and you provide a properly executed and fully completed applicable IRS Form W-8, you will generally establish an exemption from backup withholding.

Amounts withheld under the backup withholding rules are not additional taxes and may be refunded or credited against U.S. federal income tax liability, provided the required information is furnished to the IRS.

#### Non-U.S. Holders

Subject to Section 871(m) of the Code and FATCA, discussed below, we generally expect to treat payments made to a non-U.S. holder upon the taxable disposition of the notes as exempt from U.S. withholding tax and from generally applicable information reporting and backup withholding requirements with respect to payments on the notes if the non-U.S. holder complies with certain certification and identification requirements as to its non-U.S. status, including providing us (and/or the applicable withholding agent) a fully completed and validly executed applicable IRS Form W-8.

In general, gain realized on a taxable disposition of the notes by a non-U.S. holder will not be subject to federal income tax, unless:

- the gain with respect to the notes is effectively connected with a trade or business conducted by the non-U.S. holder in the U.S.;

- the non-U.S. holder is a nonresident alien individual who holds the notes as a capital asset and is present in the U.S. 183 days or more during the taxable year of such taxable disposition (including but not limited to disposition by sale, exchange, redemption, or repayment of principal at maturity ) and certain other conditions are satisfied; or
- the non-U.S. holder has certain other present or former connections with the U.S.

If the gain realized on a taxable disposition of the notes by the non-U.S. holder is described in either of the three preceding bullet points, the non-U.S. holder may be subject to U.S. federal income tax with respect to the gain except to the extent that an income tax treaty reduces or eliminates the tax and the appropriate documentation is provided.

*Section 897.* We will not attempt to ascertain whether any issuer of a Market Measure or component security of a Market Measure, as applicable, would be treated as a “United States real property holding corporation” (“USRPHC”) or whether the notes should be treated as “United States real property interests” (“USRPI”), each as defined in Section 897 of the Code. If any such issuer or the notes were so treated, certain adverse U.S. federal income tax consequences could possibly apply, including subjecting any gain to a non-U.S. holder in respect of a note upon a taxable disposition of the note to U.S. federal income tax on a net basis, and the proceeds from such a taxable disposition to a 15% withholding tax. Non-U.S. holders should consult their tax advisors regarding the potential treatment of any such entity or the Securities as USRPI.

*Section 871(m).* The Treasury has issued regulations under which a 30% withholding tax (which may be reduced by an applicable income tax treaty) is imposed on certain “dividend equivalents” paid or deemed paid to a non-U.S. holder with respect to a “specified equity-linked instrument” that references one or more U.S.-source dividend-paying equity securities or indices containing U.S.-source dividend-paying equity securities (an “871(m) Specified ELI”). The withholding tax can apply even if the 871(m) Specified ELI does not provide for payments that reference dividends. Under these regulations, the withholding tax generally will apply to 871(m) Specified ELIs (or a combination of 871(m) Specified ELIs treated as having been entered into in connection with each other) issued (or reissued, as discussed below) on or after January 1, 2019, but will also apply to certain 871(m) Specified ELIs (or a combination of 871(m) Specified ELIs treated as having been entered into in connection with each other) that have a delta of one (“Delta One Specified ELIs”) issued (or reissued, as discussed below) on or after January 1, 2017.

The 30% withholding tax may also apply if the notes are deemed to be reissued for tax purposes upon the occurrence of certain events affecting an underlying asset, any underlying constituents or the notes, and following such occurrence the notes could be treated as delta one specified equity-linked instruments that are subject to withholding on dividend equivalents. It is also possible that withholding tax or other Section 871(m) tax could apply to the notes under these rules if a non-U.S. holder enters, or has entered, into certain other transactions in respect of a Market Measure, any component securities of a Market Measure or the notes. Because of the uncertainty regarding the application of the 30% withholding tax on dividend equivalents to the notes, non-U.S. holders are urged to consult their tax advisor regarding the potential application of Section 871(m) of the Code to the notes (including in the context of their other transactions in respect of a Market Measure or the notes, if any) and the 30% withholding tax to an investment in the notes.

*U.S. Federal Estate Tax Treatment of Non-U.S. Holders.* Notes may be subject to U.S. federal estate tax if an individual non-U.S. holder holds the notes at the time of his or her death. The gross estate of a non-U.S. holder domiciled outside the U.S. includes only property situated in the U.S. Individual non-U.S. holders should consult their tax advisors regarding the U.S. federal estate tax consequences of holding the notes at death.

#### Foreign Account Tax Compliance Act

The Foreign Account Tax Compliance Act (“FATCA”) generally imposes a 30% U.S. withholding tax on “withholdable payments” (i.e., certain U.S.-source payments, including interest (and original issue discount), dividends, other fixed or determinable annual or periodical gain, profits, and income, and on the gross proceeds from a disposition of property of a type which can produce U.S. -source interest or dividends) and “passthru payments” (i.e., certain payments attributable to withholdable payments) made to certain foreign financial institutions (and certain of their affiliates) unless the payee foreign financial institution agrees (or is required), among other things, to disclose the identity of any U.S. individual with an account of the institution (or the relevant affiliate) and to annually report certain information

about such account. FATCA also requires withholding agents making withholdable payments to certain foreign entities that do not disclose the name, address, and taxpayer identification number of any substantial U.S. owners (or do not certify that they do not have any substantial U.S. owners) to withhold tax at a rate of 30%. Under certain circumstances, a holder may be eligible for refunds or credits of such taxes.

Pursuant to final and temporary Treasury regulations and other IRS guidance, the withholding and reporting requirements under FATCA generally apply to certain “withholdable payments”, and will generally apply to certain gross proceeds on a sale or disposition occurring after December 31, 2018, and certain foreign passthru payments made after December 31, 2018 (or, if later, the date that final regulations defining the term “foreign passthru payment” are published). If withholding is required, we (or the applicable paying agent) will not be required to pay additional amounts with respect to the amounts so withheld. Foreign financial institutions and non-financial foreign entities located in jurisdictions that have an intergovernmental agreement with the U.S. governing FATCA may be subject to different rules.

Investors should consult their tax advisors about the application of FATCA, in particular if they may be classified as financial institutions (or if they hold their notes through a non-U.S. entity) under the FATCA rules.

#### Proposed Legislation

Furthermore, in 2007, legislation was introduced in Congress that, if it had been enacted, would have required holders of an instrument similar to the notes that is purchased after the bill was enacted to accrue interest income over the term of such notes even if such Securities provide that there will be no interest payments over their term.

Additionally, in 2013, the House Ways and Means Committee released in draft form certain proposed legislation relating to financial instruments. If it had been enacted, the effect of this legislation generally would have been to require instruments such as the notes to be marked to market on an annual basis with all gains and losses to be treated as ordinary, subject to certain exceptions.

It is not possible to predict whether any similar or identical bills will be enacted in the future, or whether any such bill would affect the tax treatment of your notes. Holders are urged to consult their tax advisors regarding the possible changes in law and their possible impact on an investment in such Securities.

**Both U.S. and non-U.S. holders should consult their tax advisors regarding the U.S. federal income tax consequences of an investment in the notes (including possible application of Section 1260 of the Code and alternative treatments and the issues presented by Notice 2008-2), as well as any tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdiction (including that of any issuer of a Market Measure and/or any component security of a Market Measure, as applicable).**

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## ERISA CONSIDERATIONS

Each fiduciary of a pension, profit-sharing, or other employee benefit plan subject to the Employee Retirement Income Security Act of 1974, as amended (“**ERISA**”) (a “**Plan**”), should consider the fiduciary standards of ERISA in the context of the Plan’s particular circumstances before authorizing an investment in the notes. Accordingly, among other factors, the fiduciary should consider whether the investment would satisfy the prudence and diversification requirements of ERISA and would be consistent with the documents and instruments governing the Plan.

In addition, we, the agents, and certain of our respective subsidiaries and affiliates may be each considered a party in interest within the meaning of ERISA, or a disqualified person (within the meaning of Section 4975 of the Code), with respect to many Plans, as well as many individual retirement accounts and Keogh plans (also “**Plans**”). Prohibited transactions within the meaning of ERISA or the Code would likely arise, for example, if the notes are acquired by or with the assets of a Plan with respect to which we or any of our affiliates is a party in interest or a disqualified person, unless the notes are acquired under an exemption from the prohibited transaction rules. A violation of these prohibited transaction rules could result in an excise tax or other liabilities under ERISA and/or Section 4975 of the Code for such persons, unless exemptive relief is available under an applicable statutory or administrative exemption.

Under ERISA and various prohibited transaction class exemptions (“**PTCEs**”) issued by the U.S. Department of Labor, exemptive relief may be available for direct or indirect prohibited transactions resulting from the purchase, holding, or disposition of the notes. Those exemptions include PTCE 96-23 (for certain transactions determined by in-house asset managers), PTCE 95-60 (for certain transactions involving insurance company general accounts), PTCE 91-38 (for certain transactions involving bank collective investment funds), PTCE 90-1 (for certain transactions involving insurance company separate accounts), PTCE 84-14 (for certain transactions determined by independent qualified asset managers), and the exemption under Section 408(b)(17) of ERISA and Section 4975(d)(20) of the Code for certain transactions with a person that is a party in interest or disqualified person solely by reason of providing services to Plans or being an affiliate of such a service provider and in connection with which the Plan receives no less, nor pays no more, than adequate consideration (the “**Service Provider Exemption**”).

Because we and the Bank each may be considered a party in interest or disqualified person with respect to many Plans, the notes may not be purchased, held, or disposed of by any Plan, any entity whose underlying assets include plan assets by reason of any Plan’s investment in the entity (a “**Plan Asset Entity**”) or any person investing plan assets of any Plan, unless such purchase, holding, or disposition is eligible for exemptive relief, including relief available under PTCE 96-23, 95-60, 91-38, 90-1, or 84-14 or the Service Provider Exemption, or such purchase, holding, or disposition is otherwise not prohibited. Any purchaser, including any fiduciary purchasing on behalf of a Plan, transferee or holder of the notes will be deemed to have represented, in its corporate and its fiduciary capacity, by its purchase and holding of the notes that either (a) it is not and will not be a Plan or a Plan Asset Entity and is not purchasing such notes on behalf of or with plan assets of any Plan or any plan subject to similar laws or (b) its purchase, holding, and disposition will not constitute or result in a non-exempt prohibited transaction due to the application of a statutory or administrative exemption or such purchase, holding, and disposition will not otherwise be prohibited under ERISA or Section 4975 of the Code or a violation of any similar laws.

Further, any person acquiring or holding the notes on behalf of any plan or with any plan assets shall be deemed to represent on behalf of itself and such plan that (x) the plan is paying no more than, and is receiving no less than, adequate consideration within the meaning

of Section 408(b)(17) of ERISA and/or Section 4975(f)(10) of the Code in connection with the transaction or any redemption of the notes, (y) none of us, MLPF&S or any other agent directly or indirectly exercises any discretionary authority or control or renders investment advice or otherwise acts in a fiduciary capacity with respect to the assets of the plan within the meaning of ERISA and/or Section 4975 of the Code (z) in making the foregoing representations and warranties, such person has applied sound business principles in determining whether fair market value will be paid, and has made such determination acting in good faith.

The fiduciary investment considerations summarized above generally apply to employee benefit plans maintained by private-sector employers and to individual retirement accounts and other arrangements subject to Section 4975 of the Code, but generally do not apply to governmental plans (as defined in Section 3(32) of ERISA), certain church plans (as defined in Section 3(33) of ERISA), and foreign plans (as described in Section 4(b)(4) of ERISA). However, these other plans may be subject to similar provisions under applicable federal, state, local, foreign, or other regulations, rules, or laws (“**similar laws**”). The fiduciaries of plans subject to similar laws should also consider the foregoing issues in general terms as well as any further issues arising under the applicable similar laws.

In addition, any purchaser, that is a Plan or a Plan Asset Entity or that is acquiring the notes on behalf of a Plan or a Plan Asset Entity, including any fiduciary purchasing on behalf of a Plan or Plan Asset entity, will be deemed to have represented, in its corporate and its fiduciary capacity, by its purchase and holding of the notes that (a) none of us, MLPF&S, or any of our respective affiliates is a “**fiduciary**” (under Section 3(21) of ERISA, or under any final or proposed regulations thereunder, or with respect to a governmental, church, or foreign plan under any similar laws) with respect to the acquisition, holding or disposition of the notes, or as a result of any exercise by us or our affiliates of any rights in connection with the notes, (b) no advice provided by us or any of our affiliates has formed a primary basis for any investment decision by or on behalf of such purchaser in connection with the notes and the transactions contemplated with respect to the notes, and (c) such purchaser recognizes and agrees that any communication from us or any of our affiliates to the purchaser with respect to the notes is not intended by us or any of our affiliates to be impartial investment advice and is rendered in its capacity as a seller of such notes and not a fiduciary to such purchaser. Purchasers of the notes have exclusive responsibility for ensuring that their purchase, holding, and disposition of the notes do not violate the prohibited transaction rules of ERISA or the Code or any similar regulations applicable to governmental or church plans, as described above.

This discussion is a general summary of some of the rules which apply to benefit plans and their related investment vehicles. This summary does not include all of the investment considerations relevant to Plans and other benefit plan investors such as governmental, church, and foreign plans and should not be construed as legal advice or a legal opinion. Due to the complexity of these rules and the penalties that may be imposed upon persons involved in non-exempt prohibited transactions, it is particularly important that fiduciaries or other persons considering purchasing the notes on behalf of or with “plan assets” of any Plan or other benefit plan investor consult with their legal counsel prior to directing any such purchase.