The data and information (the “Information”) presented in this MSPM Indices Manual reflect the methodology (the “MSPM Indices Methodology”) for calculating and determining the level of each of the MSPM Indices (the “MSPM Indices” or individually, an “MSPM Index”). Upon launch in 2013, this MSPM Indices Manual and the MSPM Indices Methodology were created, compiled, and published, by the Morgan Stanley Institutional Research Department. As of April 10, 2017, the Morgan Stanley Fixed Income Sales and Trading Department took the role of index sponsor (the “Index Sponsor”) and Morgan Stanley India Financial Services Private Limited took the role of compiling and publishing all the MSPM Indices. This MSPM Indices Manual and the MSPM Indices Methodology are the exclusive property of Morgan Stanley & Co. LLC (“Morgan Stanley”).

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This edition of the MSPM Indices Manual reflects the methodology that will be utilized with respect to the determination and calculation of the MSPM Indices as of April 10, 2017, unless amended in accordance with the provisions herein. After April 10, 2017, the methodology shall remain in effect until amended or replaced by an updated version. However, the MSPM Methodology is subject to revision and adjustment by the Index Sponsor, as described herein.
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I. Introduction

I.1 Overview of the MSPM Indices

The MSPM Indices suite consists of tradable indices relating to four different Precious Metals (each, an “MSPM Precious Metal”) with Currency Hedges (each, an “MSPM Currency”) for investors based in a number of different currencies. The MSPM Indices were designed as benchmarks for long investments in a wide range of precious metals with an FX overlay. Each index consists of a position in metal and a position in an FX forward. The FX forwards are settled daily in metal quantities. Hence, the index values are always expressed in metal quantities. The FX overlay aims to hedge the dollar exposure in the Precious Metal for an investor based in another Currency.

The MSPM Indices were created, and are calculated and disseminated daily on a real time basis (though delayed), by or for the Index Sponsor using an objective and systematic methodology that uses publicly available data sources that reflect actual quotes or trades by market participants.

The indices are total return long indices.

The Index Sponsor first began publishing certain of the MSPM indices in August 2012 and will continue to roll out publication and calculation of new MSPM Indices in its sole discretion. In addition, the Index Sponsor has calculated historical levels for each of the MSPM Indices being published using the methodology contained herein; provided however, that historical levels published may have been calculated using generic Bloomberg mid level data sources rather than the actual reference sources set forth under “The MSPM Indices Methodologies” herein. Each of the MSPM Indices will be set to a value of 10000 as of the date of its initial calculation. Levels for the MSPM Indices may be affected by modifications to the relevant MSPM Index in accordance with this MSPM Indices Manual.

Levels for each of the MSPM Indices will be published daily, by or for the Index Sponsor, between 8:00 a.m. (London Time) and 3:45 p.m. (New York Time) on each day which constitutes a business day for the related MSPM Currency, with such levels being updated on a “delayed” basis approximately every 15 seconds based on the related reference sources set forth herein. An official closing level will be published for each of the MSPM Indices on any day which constitutes an Index Good Day for that index (see methodology herein for description of Index Good Day).

I.2 The MSPM Indices Manual

This MSPM Indices Manual describes the current MSPM Indices Methodology used by the Index Sponsor in determining and calculating the MSPM Indices levels on any given day. The Index Sponsor is committed to using commercially reasonable efforts to maintain the MSPM Indices as liquid, tradable indices that serve as benchmarks for a currency hedged investment in the MSPM Precious Metals. As a result, modifications or refinements to the MSPM Indices Methodology, and consequently this MSPM Indices Manual, may be necessary from time to time. The Index Sponsor reserves the right to make such modifications or refinements, after consultation with the MSPM Indices Committee, as it believes necessary in order to preserve and enhance the utility and tradability of the MSPM Indices as benchmarks for currency hedged investing in the MSPM Precious Metals.

Neither this MSPM Indices Manual nor any set of procedures, however, are capable of anticipating all possible circumstances and events that may affect the MSPM Indices and their respective calculation methodologies. The detailed rules-based approach contained in this MSPM Indices Manual may not at all times be able to
reflect the underlying liquidity and condition of a specific market, particularly in periods of extraordinary market volatility or rapid technological change. Accordingly, the Index Sponsor, after consultation with the MSPM Indices Committee, may make certain determinations that cannot be adequately reflected in this MSPM Indices Manual with regard to a currency used for the hedge, the underlying precious metals, the related exchange rate or the related MSPM Index, should conditions exist (as described herein) or upon the occurrence of certain extraordinary market events and market emergencies, that in the discretion of the Index Sponsor and Index Committee, would undermine the effectiveness of the relevant MSPM Index as a measure for the related currency hedged precious metal investment performance or as a tradable index.

All questions of interpretation with respect to the application of the provisions of this MSPM Indices Manual, including any determinations that need to be made in the event of the occurrence of an adjustment event, market disruption, discontinuance or other circumstances or events that affect the MSPM Indices, will be resolved in a commercially reasonable manner by the Index Sponsor after consultation with the MSPM Indices Committee (as discussed below). The compositions of the MSPM Indices, and the value of the MSPM Indices on any given day, as determined and published by the Index Sponsor, are dispositive.

Wherever practicable, any modifications, adjustments or actions with respect to the MSPM Indices will be publicly announced by the Index Sponsor prior to their effective date.
I.3 Currency Conventions

As defined in Annex I which may, as required from time to time, be amended or updated.

I.4 Metal Conventions

<table>
<thead>
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<th>Metal (vs. USD)</th>
<th>Standard Quotation</th>
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<tbody>
<tr>
<td>Gold</td>
<td>USD per 1 Gold oz.</td>
</tr>
<tr>
<td>Platinum</td>
<td>USD per 1 Platinum oz.</td>
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<td>Silver</td>
<td>USD per 1 Silver oz.</td>
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MSM Indices and Related Bloomberg Index Tickers

A list of all of the MSM Indices is contained in Annex II, as amended or updated from time to time, and can also be accessed on Bloomberg Page “ALLX MSCE” and each MSM Index can be found using its respective Bloomberg Index Ticker.

I.5 Certain Basic Foreign Exchange Market and Metals Concepts and Definitions

Currency Investment

The FX overlay are done in “deliverable currencies”, which means that a “spot transaction” will result in an actual exchange of currencies.

In order to avoid physical delivery of the MSM Currency, the related MSM Indices will be rebalanced daily on each Index-Good Day (as defined herein) via a “Spot Next” or “Tom Next” transaction (as described below). For some currencies, the appropriate forward tenors may be different from Spot Next or Tom Next.

Spot Transaction

In a Spot currency transaction, a counterparty agrees to exchange some amount “A” of currency “X” against another currency “Y” at a certain rate. Generally, the actual exchange occurs T+2 from the transaction date (with the exception of CAD, which settles T+1).

Spot Next Transaction

In a Spot Next transaction, a counterparty agrees to exchange some amount “A” of currency “X” against another currency “Y” at a certain rate two business days from the transaction date and receive back the same amount “A” of currency “Y” against currency “X” at the same rate plus a spread three business days from the transaction date. The spread is generally quoted in the market.

Tom Next Transaction

In a Tom Next transaction, a counterparty agrees to exchange some amount “A” of currency “X” against another currency “Y” at a certain rate one business day from the transaction date and receive back the same amount “A” of currency “Y” against currency “X” at the same rate plus a spread two business days from the transaction date. This spread is quoted in the market.

Physical (Spot Price); Future and EFPs

In order to close our index daily we need a Spot reference price for the metal in order to convert the proceeds from the FX forward in quantities of metals. Metal Spot prices can be computed as the sum of a Metal Future Price plus an EFP. The EFP is the adjustment that allows an investor to translate a future price into the current spot price.
Exchange For Physical

An EFP transaction involves a privately negotiated and simultaneous exchange of a futures position for a corresponding position in the underlying physical commodity. For metals contracts, the acceptable corresponding position component for an EFP is limited to the specific underlying commodity (e.g. Gold for Gold Futures).

I.6 The MSPM Indices Committee

Morgan Stanley has established an Indices Committee (the “MSPM Indices Committee”) to oversee activities relating to the MSPM Methodology and the calculation and publication of the MSPM Indices. The MSPM Indices Committee will meet with the Index Sponsor on an annual basis and at other times during the year at the request of the Index Sponsor as issues or market events arise that warrant the MSPM Indices Committee’s consideration.

The principal purpose of the MSPM Indices Committee is to advise the Index Sponsor with respect to, among other things, the methodology and calculation of the MSPM Indices, the effectiveness of the MSPM Indices as a measure of the related currency hedged precious metals investment performance and the need for changes in the composition or calculation methodology of the MSPM Indices. The MSPM Indices Committee, currently comprised of senior employees of the Index Sponsor and representatives from Sales and Trading, Strats, Legal and Compliance, reviews any significant market events or conditions that may affect the MSPM Indices. In addition, the MSPM Indices Committee may suggest that the Index Sponsor revise the MSPM Methodology and make any changes to the MSPM Indices as it reasonably deems necessary in response to such events or conditions. Decisions with respect to the composition, calculation and operation of the MSPM Indices in the ordinary daily course of business will be made by the Index Sponsor after consultation with the MSPM Indices Committee. Morgan Stanley considers information about any changes to the MSPM Indices and related matters to be potentially market moving and material. Therefore, all MSPM Indices Committee discussions are deemed to be confidential.

I.7 Morgan Stanley Conflicts of Interest

Morgan Stanley may from time to time engage in transactions involving the underlying components of the MSPM Indices to facilitate client business or in response to a direct client instruction and may act as market-maker in such underlying components of the MSPM Indices. Such activities may not be for the benefit of the holders of financial products linked to the Index and may have a positive or negative effect on the levels for the MSPM Indices and consequently on the value and performance of any financial products linked to the MSPM Indices. In addition, Morgan Stanley may from time to time have other roles in relation to the Index such as acting as the issuer of, or counterparty to, financial products linked to the MSPM Indices and acting as calculation agent for such products. Morgan Stanley may also issue derivative instruments in respect of the underlying components of the MSPM Indices and the use of such derivatives may affect the value of the underlying components of the MSPM Indices.

The MSPM Indices reflect the performance of the underlying components of the MSPM Indices but there is no requirement that the Index Sponsor purchase or sell the underlying components of the MSPM Indices in order to calculate the MSPM Indices. However, in its role in relation to financial products linked to the MSPM Indices, Morgan Stanley may enter into hedging transactions in respect of the underlying components of the MSPM Indices which may or may not affect the value of the underlying components of the MSPM Indices and/or the MSPM Indices. In addition, the unwinding of such hedging transactions may also affect the value of such underlying components of the MSPM Indices, which may in turn affect the value of the MSPM Indices and any financial products linked to the MSPM Indices.
These and other activities carried out by Morgan Stanley may present conflicts of interest and may affect the levels for the MSPM Indices in ways detrimental to investors in financial products linked to the MSPM Indices.
II. Index Rules

II.1 Calculation and Publication of the MSPM Indices

The Index Sponsor will itself or through its calculation agent (if any) use commercially reasonable efforts to calculate and publish (a) delayed levels for the MSPM Indices from 8:00 a.m. London Time to 3:45 p.m. New York time and (b) closing levels for the MSPM Indices at 3:45 p.m. New York time on any Index Good Day (being a day on which CME Official Metal Settlement Prices are computed at 1:30pm New York time and which is also a day on which commercial banks and foreign exchange markets settle payments and are open for general business (including dealings in foreign exchange and foreign currency deposits) in London

Published levels for the MSPM Indices will be rounded to three (3) decimals. Closing levels for the MSPM Indices for purposes of the Index Methodology calculations will be rounded to seven (7) decimals.

II.2 Data Sources

Reuters will be the primary source used to obtain the relevant spot foreign exchange rates used in the calculation of the MSPM Indices. The Chicago Mercantile Exchange (CME) will be the primary source used to obtain the relevant Precious Metal Futures prices. WM will be the primary source used to obtain the relevant fixings for the relevant foreign exchange market. To the extent possible, the underlying rates represent those sources that are commonly used by market participants when executing foreign investment transactions. Where available, multi-contributor rate sources are used over single contributor rate sources, with the exception of official fixing rates.

Reference sources for any of the rates or inputs in the methodology may be changed by the Index Sponsor, if after consultation with the Index Committee, the Index Sponsor determines that (i) the reference source is no longer available, (ii) the reference source has been replaced by another source or (iii) in its reasonable judgment, the source is manifestly incorrect and no longer reflects accurate market data. In the event of any such determination, and wherever practicable, any such source change will be publicly announced prior to its effective date.

II.3 The Morgan Stanley Precious Metal Currency Hedged Indices Methodology

The methodology applicable to the computation of the level for each of the MSPM Indices is defined in Annex III, as amended and updated from time to time.

III. Adjustments, Market Disruption Events and Discontinuance

III.1 Adjustments to the MSPM Indices

While the methodologies, composition and calculations described herein to calculate the MSPM Indices are currently in use by the Index Sponsor, it is possible that market, regulatory, judicial, financial, fiscal or other circumstances (including, but not limited to, any adjustment events as described below) may arise that would, in the opinion of the Index Sponsor, necessitate a modification or adjustment to such methodologies, composition or calculation. In such event, the Index Sponsor, after consultation with the Index Committee, will make such modifications or adjustments based on market conditions and other relevant factors, as in the judgment of the Index Sponsor, are necessary to maintain such index as a tradable benchmark for investments in Precious Metals with an FX overlay (hedge). Wherever practicable, any adjustments will be publicly announced as soon as is reasonably practicable and prior to the effective date.

An “adjustment event” with respect to any MSPM Index includes, but is not limited to, any of the following:
• the related exchange rate splits into dual or multiple exchange rates; or
• the related currency has been removed from circulation or otherwise discontinued and banks dealing in foreign exchange and foreign currency deposits in the MSPM Currency commence trading a successor or substitute currency substantially similar to the MSPM Currency that the Index Sponsor determines is comparable to the discontinued MSPM Currency;

III.2 Market Disruption Events

The occurrence or existence of any of the below, as determined by the Index Sponsor:

• any event or any condition (including without limitation any event or condition that occurs as a result of the enactment, promulgation, execution, ratification, change in any application or official interpretation of, or any change in or amendment to, any law (including those laws or regulations that relate to taxation), rule or regulation by any applicable governmental authority) that (i) results in a lack of, or a material decline in, liquidity in the market for trading in any MSPM Currency that generally makes it impossible, illegal or impracticable for market participants, or hinders, disrupts or impairs their abilities, (a) to convert from one foreign currency to another through customary commercial channels, (b) to effect currency transactions in, or to obtain market values of, such currency, (c) to obtain a firm quote for the related exchange rate or (d) to obtain the relevant exchange rate by reference to the applicable price source; or (ii) leads to or may lead to a currency peg regime;

• (i) the declaration of a banking moratorium or the suspension of payments by banks, in either case, in the country of any currency used to determine the MSPM Currency exchange rate or (ii) the declaration of capital and/or currency controls (including without limitation any restriction placed on assets in or transactions through any account through which a non-resident of the country of any currency used to determine the currency exchange rate may hold assets or transfer monies outside the country of that currency, and any restriction on the transfer of funds, securities or other assets of market participants from, within or outside of the country of any currency used to determine the applicable exchange rate);

• an event or circumstance (including without limitation, a systems failure, natural or man-made disaster, act of God, armed conflict, act of terrorism, riot or labor disruption or any similar intervening circumstance) that is beyond the reasonable control of the Index Sponsor and that the Index Sponsor determines affects the related MSPM Index in any fashion;

• the method of calculating the value of the MSPM Currency is changed in a material respect, or is in any other way modified so that the conventional market quotation does not, in the opinion of the Index Sponsor, fairly represent the value of such MSPM Currency; or

• the Index Sponsor determines that there is a material difference in a relevant MSPM Currency exchange rate, as determined by reference to the rate source for the related MSPM Index and any other market source.

• In addition to these Market Disruption Events, there may be additional market disruption events (“Additional Market Disruption Events”) applicable to certain indices relating to particular precious metals and/or currencies. These Additional Market Disruption Events will be included in Annex III with the calculation methodology for the relevant Index.

III.3 Discontinuance of the MSPM Indices

The Index Sponsor may, in its sole discretion, after consultation with the Index Committee, discontinue calculating and publishing any MSPM Index at any time upon the occurrence of, but not limited to, any of the following:

• if as a result of a market disruption event or an adjustment event, an adjustment to and/or calculation of the related MSPM Index is no longer reasonably possible or practical, in the determination of the Index Sponsor;
• the Index Sponsor or its successor terminates its index publication business operations, is declared insolvent or is subject to winding-up proceedings; or
• the Index Sponsor or its successor determines that it is no longer in its commercial interest to continue publishing the index.

Upon any such discontinuance, the Index Sponsor will use commercially reasonable efforts to publicly announce such discontinuance as soon as is reasonably practicable prior to the effective date.

Annex I

Currency Conventions

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<thead>
<tr>
<th>Currencies (vs. USD)</th>
<th>Standard Quotation</th>
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<tbody>
<tr>
<td>Australian dollar (AUD)</td>
<td>USD per 1 AUD</td>
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<tr>
<td>British pound (GBP)</td>
<td>USD per 1 GBP</td>
</tr>
<tr>
<td>European Union euro (EUR)</td>
<td>USD per 1 EUR</td>
</tr>
<tr>
<td>Singapore Dollar (SGD)</td>
<td>SGD per 1 USD</td>
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Annex II

MSPM Indices

### Morgan Stanley Precious Metal Currency Hedged Indices

<table>
<thead>
<tr>
<th>Index Name</th>
<th>Precious Metal Denomination</th>
<th>FX Currency Hedge</th>
<th>Bloomberg Index Ticker</th>
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<tbody>
<tr>
<td>Morgan Stanley EUR Gold Index</td>
<td>GOLD</td>
<td>EUR</td>
<td>MSCEGLDE</td>
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<td>Morgan Stanley GBP Gold Index</td>
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<td>GBP</td>
<td>MSCEGLDG</td>
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<td>AUD</td>
<td>MSCEGLDA</td>
</tr>
<tr>
<td>Morgan Stanley SGD Gold Index</td>
<td>GOLD</td>
<td>SGD</td>
<td>MSCEGLDS</td>
</tr>
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<td>Morgan Stanley EUR Platinum Index</td>
<td>PLATINUM</td>
<td>EUR</td>
<td>MSCEPTE</td>
</tr>
<tr>
<td>Morgan Stanley GBP Platinum Index</td>
<td>PLATINUM</td>
<td>GBP</td>
<td>MSCEPTG</td>
</tr>
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<td>MSCEPTS</td>
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<td>EUR</td>
<td>MSCEPLE</td>
</tr>
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<td>PALLADIUM</td>
<td>GBP</td>
<td>MSCEPLG</td>
</tr>
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<td>Morgan Stanley AUD Palladium Index</td>
<td>PALLADIUM</td>
<td>AUD</td>
<td>MSCEPLA</td>
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<td>PALLADIUM</td>
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<tr>
<td>Morgan Stanley AUD Silver Index</td>
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<td>AUD</td>
<td>MSCESIA</td>
</tr>
<tr>
<td>Morgan Stanley SGD Silver Index</td>
<td>SILVER</td>
<td>SGD</td>
<td>MSCESIS</td>
</tr>
</tbody>
</table>
Annex III

Index Methodology Description

Morgan Stanley Precious Metal Index Methodology for MSCEGLDE (EUR/GOLD), MSCEGLDA (AUD/GOLD), MSCEGLDG (GBP/GOLD)

“Business Day” means a day on which COMEX is open for trading (for normal trading hours and with a Daily Settlement Time Range: 13:29:00-13:30:00 EST) in the Precious Metal Future and which is also a settlement date for the GBP currency.

On any Business Day (“D”) the related MSPM Index closing level (“I”) will be computed as follows:

\[
I_D = I_{D-1} + \frac{I_{D-2} \times \left[ \frac{\text{COMEX}_{D-2} - \text{EFP}_{D-2}}{\text{COMEX}_{D-1} - \text{EFP}_{D-1}} \times \left( \text{FX}_{D-1} - \text{FW}(D_{-1}, S_{FX,D}) \right) \right]}{\text{FX}_{D-1}}
\]

where

\[
\text{FW}(T_1, T_2) = \text{FX}_{\text{ask}, T_1} \times \left[ \frac{\text{Pts}_{\text{ask}, FX, T_1}}{10000} + \frac{\text{Pts}_{\text{ask}, FX, T_1} - \text{Pts}_{\text{ask}, FX, T_2}}{10000} \times \left( \text{1W}_{FX, T_1} - \text{SN}_{FX, T_1} \right) \right] \times I(T_2 - \text{SN}_{FX, T_1})
\]

where:

- “I” is the related Index closing level;
- “D_{-1}” is the first Business Day preceding day D;
- “D_{-2}” is the first Business Day preceding D_{-1};
- “I(X)” is 1 if X≥0 and 0 otherwise.
- “FX,bid” is the exchange rate fixing using WM rates calculated as WM,Mid-(WM,Mid-WM,Bid)/8 on the Fix Source at the roll time
- “FX,ask” is the exchange rate fixing using WM rates calculated as WM,Mid+(WM,Ask-WM,Mid)/8 on the Fix Source at the roll time
- “FX,mid” is the exchange rate fixing using WM rates calculated as WM,Mid on the Fix Source at the roll time
- “Pt_{Mat,FX,t}” refers to the ask side of the points for term Mat, for currency FX on day t
- “S_{FX,T}” is the Spot Settlement date of FX on date T according to usual convention
- “SN_{FX,T}” is the Spot Next Settlement date of FX on date T according to usual conventions.
- “1W_{FX,T}” is the 1 week Settlement date of FX Currency pair on date T according to usual conventions.
- EFPba, T refers to the ask side of EFP quote if \( [\text{FX}_{bid,D} - \text{FW}(D_{-1}, S_{FX,D})] < 0 \) and the bid side otherwise. The EFP is updated daily by Morgan Stanley trading desk.
- EFP refers to the mid EFP quote.
- COMEX means the precious metal future settlement price settlement as published by CME at 3.45 pm New York time. The underlying reference future expiry is chosen according to the following table (we take the first Future expiring such Maturity month).
The “=TTKL” notation signifies that the source of the data is obtained via Tullett Prebon inter-dealer brokers based in London.

### Additional Market Disruption Events for MSCEGLDE (EUR/GOLD), MSCEGLDA (AUD/GOLD), MSCEGLDG (GBP/GOLD)

The occurrence or existence of any of the following events, as determined by the Index Sponsor, shall constitute a Market Disruption Event:

- (i) the failure of Reuters to announce or publish the relevant spot exchange rates or gold fixing prices used in the calculation of the EUR Gold Index or (ii) the temporary or permanent discontinuance or unavailability of Reuters service;
- the failure of the CME to announce or publish the official metal settlement prices for the relevant gold futures contracts;
- the material suspension of, or material limitation imposed on, trading in gold by the London Bullion Market Association (“LBMA”);
- the material suspension of, or material limitation imposed on, trading in the relevant gold futures contracts on the CME or in any related futures contract, options contract or options on futures. For this purpose:

  1. a suspension of the trading in the gold futures contract on any Business Day shall be deemed to be material only if:

     a. all trading in the gold futures contract is suspended for the entire Business Day; or

     b. all trading in the gold futures contract is suspended subsequent to the opening of trading on that Business Day, trading does not recommence prior to the regularly scheduled close of trading in such gold futures contract on such Business Day and such suspension is announced less than one hour preceding its commencement; and

  2. a limitation on trading in the gold futures contract on any Business Day shall be deemed to be material only if the CME establishes limits on the range within which the price of the gold
futures contract may fluctuate and the closing or settlement price of the gold futures contract on such day is at the upper or lower limit of that range;

- (i) the permanent discontinuation of trading in the relevant gold futures contract on the CME; (ii) the disappearance of, or of trading in, gold; or (iii) the disappearance or permanent discontinuance or unavailability of a fixing price for gold or an official metal settlement price for the relevant gold futures contract, notwithstanding the status of trading in the relevant gold futures contract or gold;

- the occurrence of a material change in the method of calculating (i) the relevant official metal settlement price for the relevant gold futures contract or (ii) the fixing price for gold;

- the occurrence of a material change in the content, composition or constitution of gold or the relevant gold futures contract;

- the imposition of, change in or removal of an excise, severance, sales, use value-added, transfer, stamp, documentary, recording or similar tax on, or measured by reference to gold (other than a tax on, or measured by reference to, overall gross or net income) by any government or taxation authority; or an event beyond the control of the Index Sponsor as a result of which delivery of gold bullion cannot be effected by delivery loco London under the rules of the LBMA by credit to an unallocated account at a member of the LBMA.