

GOLDMAN SACHS GROUP INC  
Form 424B2  
January 08, 2019  
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Filed Pursuant to Rule 424(b)(2)

Registration Statement No. 333-219206

## GS Finance Corp.

\$676,000

Buffered Digital Basket-Linked Notes due 2022

guaranteed by

## The Goldman Sachs Group, Inc.

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**The notes do not bear interest.** The amount that you will be paid on your notes on the stated maturity date (January 11, 2022) is based on the performance of a weighted basket comprised of the EURO STOXX 50® Index (42.50% weighting), TOPIX (24.25% weighting), the FTSE® 100 Index (15% weighting), the Swiss Market Index (8% weighting), the S&P/ASX 200 Index (7% weighting) and the Hang Seng China Enterprises Index (3.25% weighting) as measured from the trade date to and including the determination date (January 4, 2022). The initial basket level is 100 and the final basket level will equal the *sum* of the products, as calculated for each basket index, of: (i) the final index level *divided* by the initial index level (3,041.85 with respect to the EURO STOXX 50® Index, 1,471.16 with respect to TOPIX, 6,837.42 with respect to the FTSE® 100 Index, 8,608.56 with respect to the Swiss Market Index, 5,619.355 with respect to the S&P/ASX 200 Index and 10,029.65 with respect to the Hang Seng China Enterprises Index) *multiplied* by (ii) the applicable initial weighted value for each basket index. If the final basket level on the determination date is greater than or equal to 80% of the initial basket level, the return on your notes will be positive and you will receive the *greater of* (i) the threshold settlement amount of \$1,177.5 and (ii) the *sum* of (a) the \$1,000 face amount *plus* (b) the *product* of \$1,000 *times* the basket return.

If the final basket level declines by more than 20% from the initial basket level, the return on your notes will be negative and you will lose 1.25% of the face amount of your notes for every 1% that the final index level has declined below 80% of the initial index level. See page PS-5. **You could lose a significant portion of the face amount of your notes.**

To determine your payment at maturity, we will calculate the basket return, which is the percentage increase or decrease in the final basket level from the initial basket level. At maturity, for each \$1,000 face amount of your notes, you will receive an amount in cash equal to:

- if the basket return is *greater than or equal to* -20% (the final basket level is *greater than or equal to* 80% of the initial basket level), the *greater of* (i) the threshold settlement amount and (ii) the *sum of* (a) \$1,000 *plus* (b) the *product of* (1) \$1,000 *times* (2) the basket return; or
- if the basket return is *negative* and is *below* -20% (the final basket level is *less than* the initial basket level by more than 20%), the *sum of* (i) \$1,000 *plus* (ii) the *product of* (a) the buffer rate of 125% (see page PS-6) *times* (b) the *sum of* the basket return *plus* 20% *times* (c) \$1,000. **You will receive less than the face amount of your notes.**

Declines in one basket index may offset increases in the other basket indices. Due to the unequal weighting of each basket index, the performances of the EURO STOXX 50® Index, TOPIX and the FTSE® 100 Index will have a significantly larger impact on your return on the notes than the performance of the Swiss Market Index, the S&P/ASX 200 Index or the Hang Seng China Enterprises Index.

You should read the disclosure herein to better understand the terms and risks of your investment, including the credit risk of GS Finance Corp. and The Goldman Sachs Group, Inc. See page PS-14.

*The estimated value of your notes at the time the terms of your notes are set on the trade date is equal to approximately \$969 per \$1,000 face amount. For a discussion of the estimated value and the price at which Goldman Sachs & Co. LLC would initially buy or sell your notes, if it makes a market in the notes, see the following page.*

Original issue date:	January 11, 2019	Original issue price:	100% of the face amount
Underwriting discount:	0.5% of the face amount	Net proceeds to the issuer:	99.5% of the face amount

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense. The notes are not bank deposits and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency, nor are they obligations of, or guaranteed by, a bank.

## Goldman Sachs & Co. LLC

Pricing Supplement No. 5,019 dated January 4, 2019.

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The issue price, underwriting discount and net proceeds listed above relate to the notes we sell initially. We may decide to sell additional notes after the date of this pricing supplement, at issue prices and with underwriting discounts and net proceeds that differ from the amounts set forth above. The return (whether positive or negative) on your investment in notes will depend in part on the issue price you pay for such notes.

GS Finance Corp. may use this prospectus in the initial sale of the notes. In addition, Goldman Sachs & Co. LLC or any other affiliate of GS Finance Corp. may use this prospectus in a market-making transaction in a note after its initial sale. **Unless GS Finance Corp. or its agent informs the purchaser otherwise in the confirmation of sale, this prospectus is being used in a market-making transaction.**

**Estimated Value of Your Notes**

***The estimated value of your notes at the time the terms of your notes are set on the trade date (as determined by reference to pricing models used by Goldman Sachs & Co. LLC (GS&Co.) and taking into account our credit spreads) is equal to approximately \$969 per \$1,000 face amount, which is less than the original issue price. The value of your notes at any time will reflect many factors and cannot be predicted; however, the price (not including GS&Co. s customary bid and ask spreads) at which GS&Co. would initially buy or sell notes (if it makes a market, which it is not obligated to do) and the value that GS&Co. will initially use for account statements and otherwise is equal to approximately the estimated value of your notes at the time of pricing, plus an additional amount (initially equal to \$31 per \$1,000 face amount).***

***Prior to July 6, 2020, the price (not including GS&Co. s customary bid and ask spreads) at which GS&Co. would buy or sell your notes (if it makes a market, which it is not obligated to do) will equal approximately the sum of (a) the then-current estimated value of your notes (as determined by reference to GS&Co. s pricing models) plus (b) any remaining additional amount (the additional amount will decline to zero on a straight-line basis from the time of pricing through July 5, 2020). On and after July 6, 2020, the price (not including GS&Co. s customary bid and ask spreads) at which GS&Co. would buy or sell your notes (if it makes a market) will equal approximately the then-current estimated value of your notes determined by reference to such pricing models.***

**About Your Prospectus**

The notes are part of the Medium-Term Notes, Series E program of GS Finance Corp. and are fully and unconditionally guaranteed by The Goldman Sachs Group, Inc. This prospectus includes this pricing supplement and the accompanying documents listed below. This pricing supplement constitutes a supplement to the documents listed below and should be read in conjunction with such documents:

- Product supplement no. 1,742 dated July 10, 2017

- General terms supplement no. 1,734 dated July 10, 2017
- Prospectus supplement dated July 10, 2017
- Prospectus dated July 10, 2017
- The information in this pricing supplement supersedes any conflicting information in the documents listed above. In addition, some of the terms or features described in the listed documents may not apply to your notes.

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**SUMMARY INFORMATION**

We refer to the notes we are offering by this pricing supplement as the offered notes or the notes. Each of the offered notes has the terms described below. Please note that in this pricing supplement, references to GS Finance Corp., we, our and us mean only GS Finance Corp. and do not include its subsidiaries or affiliates, references to The Goldman Sachs Group, Inc., our parent company, mean only The Goldman Sachs Group, Inc. and do not include its subsidiaries or affiliates and references to Goldman Sachs mean The Goldman Sachs Group, Inc. together with its consolidated subsidiaries and affiliates, including us. Also, references to the accompanying prospectus mean the accompanying prospectus, dated July 10, 2017, references to the accompanying prospectus supplement mean the accompanying prospectus supplement, dated July 10, 2017, for Medium-Term Notes, Series E, references to the accompanying general terms supplement no. 1,734 mean the accompanying general terms supplement no. 1,734, dated July 10, 2017, and references to the accompanying product supplement no. 1,742 mean the accompanying product supplement no. 1,742, dated July 10, 2017, in each case of GS Finance Corp. and The Goldman Sachs Group, Inc. The notes will be issued under the senior debt indenture, dated as of October 10, 2008, as supplemented by the First Supplemental Indenture, dated as of February 20, 2015, each among us, as issuer, The Goldman Sachs Group, Inc., as guarantor, and The Bank of New York Mellon, as trustee. This indenture, as so supplemented and as further supplemented thereafter, is referred to as the GSFC 2008 indenture in the accompanying prospectus supplement.

This section is meant as a summary and should be read in conjunction with the section entitled General Terms of the Underlier-Linked Digital Notes on page S-35 of the accompanying product supplement no. 1,742 and Supplemental Terms of the Notes on page S-16 of the accompanying general terms supplement no. 1,734. Please note that certain features, as noted below, described in the accompanying product supplement no. 1,742 and general terms supplement no. 1,734 are not applicable to the notes. This pricing supplement supersedes any conflicting provisions of the accompanying product supplement no. 1,742 or the accompanying general terms supplement no. 1,734.

**Key Terms**

**Issuer:** GS Finance Corp.

**Guarantor:** The Goldman Sachs Group, Inc.

**Basket underliers:** the EURO STOXX 50® Index (Bloomberg symbol, SX5E Index), as published by STOXX Limited (STOXX); TOPIX (Bloomberg symbol, TPX Index), as published by the Tokyo Stock Exchange, Inc. (TSE); the FTSE® 100 Index (Bloomberg symbol, UKX Index), as published by FTSE Russell (FTSE); the Swiss Market Index (Bloomberg symbol, SMI Index), as published by SIX Group Ltd. (SIX Group); the S&P/ASX 200 Index (Bloomberg symbol, AS51 Index), as published by S&P Dow Jones Indices LLC (S&P); and the Hang Seng China Enterprises Index (Bloomberg symbol, HSCEI Index), as published by The Hang Seng Indexes Company Limited; see The Basket and the Basket Underliers on page PS-19

**Specified currency:** U.S. dollars ( \$ )

**Terms to be specified in accordance with the accompanying product supplement no. 1,742:**

- type of notes: notes linked to basket of underliers
- exchange rates: not applicable
- buffer level: not applicable
- threshold level: yes, as described below
- upside participation rate: not applicable
- cap level: not applicable
- averaging dates: not applicable
- interest: not applicable
- redemption right or price dependent redemption right: not applicable

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**Face amount:** each note will have a face amount of \$1,000; \$676,000 in the aggregate for all the offered notes; the aggregate face amount of the offered notes may be increased if the issuer, at its sole option, decides to sell an additional amount of the offered notes on a date subsequent to the date of this pricing supplement

**Purchase at amount other than face amount:** the amount we will pay you at the stated maturity date for your notes will not be adjusted based on the issue price you pay for your notes, so if you acquire notes at a premium (or discount) to face amount and hold them to the stated maturity date, it could affect your investment in a number of ways. The return on your investment in such notes will be lower (or higher) than it would have been had you purchased the notes at face amount. Also, the stated threshold level would not offer the same measure of protection to your investment as would be the case if you had purchased the notes at face amount. See *Additional Risk Factors Specific to Your Notes If You Purchase Your Notes at a Premium to Face Amount, the Return on Your Investment Will Be Lower Than the Return on Notes Purchased at Face Amount and the Impact of Certain Key Terms of the Notes Will Be Negatively Affected* on page PS-16 of this pricing supplement

**Supplemental discussion of federal income tax consequences:** you will be obligated pursuant to the terms of the notes in the absence of a change in law, an administrative determination or a judicial ruling to the contrary to characterize each note for all tax purposes as a pre-paid derivative contract in respect of the basket underliers, as described under *Supplemental Discussion of Federal Income Tax Consequences* on page S-42 of the accompanying product supplement no. 1,742. Pursuant to this approach, it is the opinion of Sidley Austin LLP that upon the sale, exchange or maturity of your notes, it would be reasonable for you to recognize capital gain or loss equal to the difference, if any, between the amount of cash you receive at such time and your tax basis in your notes. Pursuant to Treasury regulations, Foreign Account Tax Compliance Act (FATCA) withholding (as described in *United States Taxation Taxation of Debt Securities Foreign Account Tax Compliance Act (FATCA) Withholding* in the accompanying prospectus) will generally apply to obligations that are issued on or after July 1, 2014; therefore, the notes will generally be subject to the FATCA withholding rules.

**Cash settlement amount:** for each \$1,000 face amount of your notes, we will pay you on the stated maturity date an amount in cash equal to:

- if the final basket level is *greater than or equal to* the threshold level, the *greater* of (1) the threshold settlement amount and (2) the *sum* of (i) \$1,000 *plus* (ii) the *product* of (a) \$1,000 *times* (b) the basket return; or
- if the final basket level is *less than* the threshold level, the *sum* of (1) \$1,000 *plus* (2) the *product* of (i) \$1,000 *times* (ii) the buffer rate *times* (iii) the *sum* of the basket return *plus* the threshold amount

**Initial basket level: 100**

**Initial weighted value:** the initial weighted value for each of the basket underliers equals the *product* of the initial weight of such basket underlier *times* the initial basket level. The initial weight of each basket underlier is shown in the table below:

<b>Basket Underlier</b>	<b>Initial Weight in Basket</b>
EURO STOXX 50® Index	42.50%
TOPIX	24.25%
FTSE® 100 Index	15%
Swiss Market Index	8%
S&P/ASX 200 Index	7%
Hang Seng China Enterprises Index	3.25%

**Initial EURO STOXX 50® Index level: 3,041.85**

**Initial TOPIX level: 1,471.16**

**Initial FTSE® 100 Index level: 6,837.42**

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**Initial Swiss Market Index level:** 8,608.56

**Initial S&P/ASX 200 Index level:** 5,619.355

**Initial Hang Seng China Enterprises Index level:** 10,029.65

**Final EURO STOXX 50® Index level:** the closing level of such basket underlier on the determination date, except in the limited circumstances described under Supplemental Terms of the Notes Consequences of a Market Disruption Event or a Non-Trading Day on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under Supplemental Terms of the Notes Discontinuance or Modification of an Underlier on page S-27 of the accompanying general terms supplement no. 1,734

**Final TOPIX level:** the closing level of such basket underlier on the determination date, except in the limited circumstances described under Supplemental Terms of the Notes Consequences of a Market Disruption Event or a Non-Trading Day on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under Supplemental Terms of the Notes Discontinuance or Modification of an Underlier on page S-27 of the accompanying general terms supplement no. 1,734

**Final FTSE® 100 Index level:** the closing level of such basket underlier on the determination date, except in the limited circumstances described under Supplemental Terms of the Notes Consequences of a Market Disruption Event or a Non-Trading Day on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under Supplemental Terms of the Notes Discontinuance or Modification of an Underlier on page S-27 of the accompanying general terms supplement no. 1,734

**Final Swiss Market Index level:** the closing level of such basket underlier on the determination date, except in the limited circumstances described under Supplemental Terms of the Notes Consequences of a Market Disruption Event or a Non-Trading Day on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under Supplemental Terms of the Notes Discontinuance or Modification of an Underlier on page S-27 of the accompanying general terms supplement no. 1,734

**Final S&P/ASX 200 Index level:** the closing level of such basket underlier on the determination date, except in the limited circumstances described under Supplemental Terms of the Notes Consequences of a Market Disruption Event or a Non-Trading Day on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under Supplemental Terms of the Notes Discontinuance or

Modification of an Underlier on page S-27 of the accompanying general terms supplement no. 1,734

**Final Hang Seng China Enterprises Index level:** the closing level of such basket underlier on the determination date, except in the limited circumstances described under Supplemental Terms of the Notes Consequences of a Market Disruption Event or a Non-Trading Day on page S-23 of the accompanying general terms supplement no. 1,734 and subject to adjustment as provided under Supplemental Terms of the Notes Discontinuance or Modification of an Underlier on page S-27 of the accompanying general terms supplement no. 1,734

**Final basket level:** the *sum* of the following: (1) the final EURO STOXX 50® Index level *divided* by the initial EURO STOXX 50® Index level, *multiplied* by the initial weighted value of the EURO STOXX 50® Index *plus* (2) the final TOPIX level *divided* by the initial TOPIX level, *multiplied* by the initial weighted value of TOPIX *plus* (3) the final FTSE® 100 Index level *divided* by the initial FTSE® 100 Index level, *multiplied* by the initial weighted value of the FTSE® 100 Index *plus* (4) the final Swiss Market Index level *divided* by the initial Swiss Market Index level, *multiplied* by the initial weighted value of the Swiss Market Index *plus* (5) the final S&P/ASX 200 Index level *divided* by the initial S&P/ASX 200 Index level, *multiplied* by the initial weighted value of the S&P/ASX 200 Index *plus* (6) the final Hang Seng China Enterprises Index level *divided* by the initial Hang Seng China Enterprises Index level, *multiplied* by the initial weighted value of the Hang Seng China Enterprises Index

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**Basket return:** the *quotient* of (1) the final basket level *minus* the initial basket level *divided* by (2) the initial basket level, expressed as a percentage

**Threshold level:** 80% of the initial basket level

**Threshold amount:** 20%

**Threshold settlement amount:** \$1,177.5

**Buffer rate:** the *quotient* of the initial basket level *divided* by the threshold level, which equals 125%

**Trade date:** January 4, 2019

**Original issue date (settlement date):** January 11, 2019

**Stated maturity date:** January 11, 2022, subject to adjustment as described under Supplemental Terms of the Notes Stated Maturity Date on page S-16 of the accompanying general terms supplement no. 1,734

**Determination date:** January 4, 2022, subject to adjustment as described under Supplemental Terms of the Notes Determination Date on page S-17 of the accompanying general terms supplement no. 1,734

**No interest:** the offered notes do not bear interest

**No listing:** the offered notes will not be listed on any securities exchange or interdealer quotation system

**No redemption:** the offered notes will not be subject to redemption right or price dependent redemption right

**Closing level:** as described under Supplemental Terms of the Notes Special Calculation Provisions Closing Level on page S-31 of the accompanying general terms supplement no. 1,734

**Business day:** as described under Supplemental Terms of the Notes Special Calculation Provisions Business Day on page S-30 of the accompanying general terms supplement no. 1,734

**Trading day:** (i) with respect to each of the EURO STOXX 50® Index, TOPIX, the FTSE® 100 Index or the Hang Seng China Enterprises Index, as described under Supplemental Terms of the Notes— Special Calculation Provisions — Trading Day on page S-31 of the accompanying general terms supplement no. 1,734 and (ii) with respect to each of the Swiss Market Index or the S&P/ASX 200 Index, a day on which the respective principal securities markets for all of its basket underlier stocks are open for trading, the basket underlier sponsor is open for business and such basket underlier is calculated and published by the basket underlier sponsor. Although the basket underlier sponsor may publish a basket underlier level with respect to the Swiss Market Index or the S&P/ASX 200 Index on a day when one or more of the principal securities markets for its basket underlier stocks are closed, that day would not be a trading day for purposes of such basket underlier.

**Use of proceeds and hedging:** as described under Use of Proceeds and Hedging on page S-40 of the accompanying product supplement no. 1,742

**ERISA:** as described under Employee Retirement Income Security Act on page S-49 of the accompanying product supplement no. 1,742

**Supplemental plan of distribution; conflicts of interest:** as described under Supplemental Plan of Distribution on page S-50 of the accompanying product supplement no. 1,742 and Plan of Distribution Conflicts of Interest on page 94 of the accompanying prospectus; GS Finance Corp. estimates that its share of the total offering expenses, excluding underwriting discounts and commissions, will be approximately \$15,000.

GS Finance Corp. has agreed to sell to Goldman Sachs & Co. LLC ( GS&Co. ), and GS&Co. has agreed to purchase from GS Finance Corp., the aggregate face amount of the offered notes specified on the front cover of this pricing supplement. GS&Co. proposes initially to offer the notes to the public at the original issue price set forth on the cover page of this pricing supplement, and to certain securities dealers at such price less a concession not in excess of 0.25% of the face amount. GS&Co. is an affiliate of GS

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Finance Corp. and The Goldman Sachs Group, Inc. and, as such, will have a conflict of interest in this offering of notes within the meaning of Financial Industry Regulatory Authority, Inc. (FINRA) Rule 5121. Consequently, this offering of notes will be conducted in compliance with the provisions of FINRA Rule 5121. GS&Co. will not be permitted to sell notes in this offering to an account over which it exercises discretionary authority without the prior specific written approval of the account holder.

We expect to deliver the notes against payment therefor in New York, New York on January 11, 2019. Under Rule 15c6-1 of the Securities Exchange Act of 1934, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade notes on any date prior to two business days before delivery will be required to specify alternative settlement arrangements to prevent a failed settlement.

We have been advised by GS&Co. that it intends to make a market in the notes. However, neither GS&Co. nor any of our other affiliates that makes a market is obligated to do so and any of them may stop doing so at any time without notice. No assurance can be given as to the liquidity or trading market for the notes.

**Calculation agent:** GS&Co.

**CUSIP no.:** 40056ERU4

**ISIN no.:** US40056ERU46

**FDIC:** the notes are not bank deposits and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency, nor are they obligations of, or guaranteed by, a bank

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The following examples are provided for purposes of illustration only. They should not be taken as an indication or prediction of future investment results and are intended merely to illustrate the impact that the various hypothetical basket closing levels or hypothetical closing levels of the basket underliers, as applicable, on the determination date could have on the cash settlement amount at maturity assuming all other variables remain constant.

The examples below are based on a range of final basket levels and closing levels of the basket underliers that are entirely hypothetical; no one can predict what the level of the basket will be on any day throughout the life of your notes, and no one can predict what the final basket level will be on the determination date. The basket underliers have been highly volatile in the past meaning that the levels of the basket underliers have changed considerably in relatively short periods and their performances cannot be predicted for any future period.

The information in the following examples reflects hypothetical rates of return on the offered notes assuming that they are purchased on the original issue date at the face amount and held to the stated maturity date. If you sell your notes in a secondary market prior to the stated maturity date, your return will depend upon the market value of your notes at the time of sale, which may be affected by a number of factors that are not reflected in the examples below such as interest rates, the volatility of the basket underliers, the creditworthiness of GS Finance Corp., as issuer, and the creditworthiness of The Goldman Sachs Group, Inc., as guarantor. In addition, the estimated value of your notes at the time the terms of your notes are set on the trade date (as determined by reference to pricing models used by GS&Co.) is less than the original issue price of your notes. For more information on the estimated value of your notes, see *Additional Risk Factors Specific to Your Notes – The Estimated Value of Your Notes At the Time the Terms of Your Notes Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Notes* on page PS-14 of this pricing supplement. The information in the examples also reflects the key terms and assumptions in the box below.

<b>Key Terms and Assumptions</b>	
Face amount	\$1,000
Initial basket level	100
Threshold level	80% of the initial basket level
Threshold amount	20%
Threshold settlement amount	\$1,177.5
Buffer rate	125%

Neither a market disruption event nor a non-trading day occurs with respect to any basket underlier on the originally scheduled determination date

No change in or affecting any of the basket underlier indices or the methods by which any of the basket underlier sponsors calculates the EURO STOXX 50® Index, TOPIX, the FTSE® 100 Index, the Swiss Market Index, the S&P/ASX 200 Index or the Hang Seng China Enterprises Index, respectively

Notes purchased on original issue date at the face amount and held to the stated maturity date

For these reasons, the actual performance of the basket over the life of your notes, as well as the amount payable at maturity, if any, may bear little relation to the hypothetical examples shown below or to the historical level of each basket underlier shown elsewhere in this pricing supplement. For information about the historical level of each basket underlier during recent periods, see *The Basket and the Basket Underliers Historical Closing Levels of the Basket Underliers* below. Before investing in the offered notes, you should consult publicly available information to determine the level of the basket underliers between the date of this pricing supplement and the date of your purchase of the offered notes.

Also, the hypothetical examples shown below do not take into account the effects of applicable taxes. Because of the U.S. tax treatment applicable to your notes, tax liabilities could affect the after-tax

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rate of return on your notes to a comparatively greater extent than the after-tax return on the basket underliers.

The levels in the left column of the table below represent hypothetical final basket levels and are expressed as percentages of the initial basket level. The amounts in the right column represent the hypothetical cash settlement amounts, based on the corresponding hypothetical final basket level (expressed as a percentage of the initial basket level), and are expressed as percentages of the face amount of a note (rounded to the nearest one-thousandth of a percent). Thus, a hypothetical cash settlement amount of 100.000% means that the value of the cash payment that we would deliver for each \$1,000 of the outstanding face amount of the offered notes on the stated maturity date would equal 100.000% of the face amount of a note, based on the corresponding hypothetical final basket level (expressed as a percentage of the initial basket level) and the assumptions noted above.

Hypothetical Final Basket Level (as Percentage of Initial Basket Level)	Hypothetical Cash Settlement Amount (as Percentage of Face Amount)
175.000%	175.000%
150.000%	150.000%
125.000%	125.000%
<b>117.750%</b>	<b>117.750%</b>
100.000%	117.750%
95.000%	117.750%
90.000%	117.750%
<b>80.000%</b>	<b>117.750%</b>
79.999%	99.999%
75.000%	93.750%
50.000%	62.500%
25.000%	31.250%
<b>0.000%</b>	<b>0.000%</b>

If, for example, the final basket level were determined to be 25.000% of the initial basket level, the cash settlement amount that we would deliver on your notes at maturity would be 31.250% of the face amount of your notes, as shown in the table above. As a result, if you purchased your notes on the original issue date at the face amount and held them to the stated maturity date, you would lose 68.750% of your investment (if you purchased your notes at a premium to face amount you would lose a correspondingly higher percentage of your investment).

The following chart also shows a graphical illustration of the hypothetical cash settlement amounts (expressed as a percentage of the face amount of your notes) that we would pay on your notes on the stated maturity date, if the final basket level (expressed as a percentage of the initial basket level) were any of the hypothetical levels shown on the horizontal axis. The chart shows that any hypothetical final basket level (expressed as a percentage of the initial basket level) of less than 80.000% (the section left of the 80.000% marker on the horizontal axis) would result in a hypothetical cash settlement amount of less than 100.000% of the face amount of your notes (the section below the 100.000% marker on the vertical axis) and, accordingly, in a loss of principal to the holder of the notes.



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The following examples illustrate the hypothetical cash settlement amount at maturity for each note based on hypothetical final levels of the basket underliers, calculated based on the key terms and assumptions above. The levels in Column A represent initial levels for each basket underlier, and the levels in Column B represent hypothetical final levels for each basket underlier. The percentages in Column C represent hypothetical final levels for each basket underlier in Column B expressed as percentages of the corresponding initial levels in Column A. The amounts in Column D represent the applicable initial weighted value for each basket underlier, and the amounts in Column E represent the *products* of the percentages in Column C *times* the corresponding amounts in Column D. The final basket level for each example is shown beneath each example, and will equal the *sum* of the products shown in Column E. The basket return for each example is shown beneath the final basket level for such example, and will equal the *quotient* of (i) the final basket level for such example *minus* the initial basket level *divided* by (ii) the initial basket level, expressed as a percentage. The values below have been rounded for ease of analysis.



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**Example 1: The final basket level is greater than the threshold level and the cash settlement amount is greater than the threshold settlement amount.**

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
EURO STOXX 50® Index	3,041.85	4,562.78	150.00%	42.50	63.75
TOPIX	1,471.16	1,765.39	120.00%	24.25	29.10
FTSE® 100 Index	6,837.42	7,179.29	105.00%	15.00	15.75
Swiss Market Index	8,608.56	9,038.99	105.00%	8.00	8.40
S&P/ASX 200 Index	5,619.355	6,743.226	120.00%	7.00	8.40
Hang Seng China Enterprises Index	10,029.65	14,041.51	140.00%	3.25	4.55
				Final Basket Level:	129.95
				Basket Return:	29.95%

In this example, all of the hypothetical final levels for the basket underliers are greater than the applicable initial levels, which results in the hypothetical final basket level being greater than the initial basket level of 100. Since the hypothetical final basket level was determined to be 129.95, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will be greater than the threshold settlement amount and will equal:

$$\text{Cash settlement amount} = \$1,000 + (\$1,000 \times 29.95\%) = \$1,299.5$$

**Example 2: The final basket level is less than the initial basket level, but greater than the threshold level. The cash settlement amount equals the threshold settlement amount.**

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
EURO STOXX 50® Index	3,041.85	2,889.76	95.00%	42.50	40.375
TOPIX	1,471.16	1,397.60	95.00%	24.25	23.0375
FTSE® 100 Index	6,837.42	6,495.55	95.00%	15.00	14.25
Swiss Market Index	8,608.56	8,178.13	95.00%	8.00	7.60
S&P/ASX 200 Index	5,619.355	5,338.387	95.00%	7.00	6.65
Hang Seng China Enterprises Index	10,029.65	9,528.17	95.00%	3.25	3.0875
				Final Basket Level:	95.00
				Basket Return:	-5.00%

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In this example, all of the hypothetical final levels for the basket underliers are less than the applicable initial levels, which results in the hypothetical final basket level being less than the initial basket level of 100. Since the hypothetical final basket level of 95.00 is greater than the threshold level of 80% of the initial basket level but less than the initial basket level of 100, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal the threshold settlement amount, or \$1,177.5.

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**Example 3: The final basket level is less than the threshold level. The cash settlement amount is less than the \$1,000 face amount.**

	Column A	Column B	Column C	Column D	Column E
Basket Underlier	Initial Level	Hypothetical Final Level	Column B / Column A	Initial Weighted Value	Column C x Column D
EURO STOXX 50® Index	3,041.85	912.56	30.00%	42.50	12.75
TOPIX	1,471.16	1,471.16	100.00%	24.25	24.25
FTSE® 100 Index	6,837.42	6,837.42	100.00%	15.00	15.00
Swiss Market Index	8,608.56	10,330.27	120.00%	8.00	9.60
S&P/ASX 200 Index	5,619.355	6,743.226	120.00%	7.00	8.40
Hang Seng China Enterprises Index	10,029.65	12,035.58	120.00%	3.25	3.90
				Final Basket Level:	73.90
				Basket Return:	-26.10%

In this example, the hypothetical final level of the EURO STOXX 50® Index is less than its initial level, while the hypothetical final levels of the FTSE® 100 Index and TOPIX are equal to their applicable initial levels and the hypothetical final levels of the Swiss Market Index, the S&P/ASX 200 Index and the Hang Seng China Enterprises Index are greater than their applicable initial levels.

Because the basket is unequally weighted, increases in the lower weighted basket underliers will be offset by decreases in the more heavily weighted basket underliers. In this example, the large decline in the EURO STOXX 50® Index results in the hypothetical final basket level being less than the threshold level of 80% of the initial basket level even though the FTSE® 100 Index and TOPIX remained flat and the Swiss Market Index, the S&P/ASX 200 Index and the Hang Seng China Enterprises Index increased.

Since the hypothetical final basket level of 73.90 is less than the threshold level of 80% of the initial basket level, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal:

$$\text{Cash settlement amount} = \$1,000 + (\$1,000 \times 125\% \times (-26.10\% + 20\%)) = \$923.75$$

**Example 4: The final basket level is less than the threshold level. The cash settlement amount is less than the \$1,000 face amount.**

Column A	Column B	Column C	Column D	Column E
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<b>Basket Underlier</b>	<b>Initial Level</b>	<b>Hypothetical Final Level</b>	<b>Column B / Column A</b>	<b>Initial Weighted Value</b>	<b>Column C x Column D</b>
EURO STOXX 50® Index	3,041.85	1,520.93	50.00%	42.50	21.25
TOPIX	1,471.16	882.70	60.00%	24.25	14.55
FTSE® 100 Index	6,837.42	4,102.45	60.00%	15.00	9.00
Swiss Market Index	8,608.56	5,595.56	65.00%	8.00	5.20
S&P/ASX 200 Index	5,619.355	3,090.645	55.00%	7.00	3.85
Hang Seng China Enterprises Index	10,029.65	6,017.79	60.00%	3.25	1.95
				Final Basket Level:	55.80
				Basket Return:	-44.20%

In this example, the hypothetical final levels for all of the basket underliers are less than the applicable initial levels, which results in the hypothetical final basket level being less than the initial basket level of 100. Since the hypothetical final basket level of 55.80 is less than the threshold level of 80% of the initial basket level, the hypothetical cash settlement amount for each \$1,000 face amount of your notes will equal:

$$\text{Cash settlement amount} = \$1,000 + (\$1,000 \times 125\% \times (-44.20\% + 20\%)) = \$697.50$$

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The cash settlement amounts shown above are entirely hypothetical; they are based on levels of the basket underliers that may not be achieved on the determination date and on assumptions that may prove to be erroneous. The actual market value of your notes on the stated maturity date or at any other time, including any time you may wish to sell your notes, may bear little relation to the hypothetical cash settlement amounts shown above, and these amounts should not be viewed as an indication of the financial return on an investment in the offered notes. The hypothetical cash settlement amounts on notes held to the stated maturity date in the examples above assume you purchased your notes at their face amount and have not been adjusted to reflect the actual issue price you pay for your notes. The return on your investment (whether positive or negative) in your notes will be affected by the amount you pay for your notes. If you purchase your notes for a price other than the face amount, the return on your investment will differ from, and may be significantly lower than, the hypothetical returns suggested by the above examples. Please read **Additional Risk Factors Specific to the Underlier-Linked Digital Notes – The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors** on page S-33 of the accompanying product supplement no. 1,742.

Payments on the notes are economically equivalent to the amounts that would be paid on a combination of other instruments. For example, payments on the notes are economically equivalent to a combination of an interest-bearing bond bought by the holder and one or more options entered into between the holder and us (with one or more implicit option premiums paid over time). The discussion in this paragraph does not modify or affect the terms of the notes or the U.S. federal income tax treatment of the notes, as described elsewhere in this pricing supplement.

*We cannot predict the actual final basket level on the determination date, nor can we predict the relationship between the level of each basket underlier and the market value of your notes at any time prior to the stated maturity date. The actual amount that a holder of the offered notes will receive, if any, on the stated maturity date and the rate of return on the offered notes will depend on the actual basket return determined by the calculation agent as described above. Moreover, the assumptions on which the hypothetical returns are based may turn out to be inaccurate. Consequently, the amount of cash to be paid in respect of your notes, if any, on the stated maturity date may be very different from the hypothetical cash settlement amounts shown in the examples above.*

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**ADDITIONAL RISK FACTORS SPECIFIC TO YOUR NOTES**

*An investment in your notes is subject to the risks described below, as well as the risks and considerations described in the accompanying prospectus, in the accompanying prospectus supplement, under **Additional Risk Factors Specific to the Notes** in the accompanying general terms supplement no. 1,734 and under **Additional Risk Factors Specific to the Underlier-Linked Digital Notes** in the accompanying product supplement no. 1,742. You should carefully review these risks and considerations as well as the terms of the notes described herein and in the accompanying prospectus, the accompanying prospectus supplement, the accompanying general terms supplement no. 1,734 and the accompanying product supplement no. 1,742. Your notes are a riskier investment than ordinary debt securities. Also, your notes are not equivalent to investing directly in the basket underlier stocks, i.e., with respect to a basket underlier to which your notes are linked, the stocks comprising such basket underlier. You should carefully consider whether the offered notes are suited to your particular circumstances.*

**The Estimated Value of Your Notes At the Time the Terms of Your Notes Are Set On the Trade Date (as Determined By Reference to Pricing Models Used By GS&Co.) Is Less Than the Original Issue Price Of Your Notes**

The original issue price for your notes exceeds the estimated value of your notes as of the time the terms of your notes are set on the trade date, as determined by reference to GS&Co.'s pricing models and taking into account our credit spreads. Such estimated value on the trade date is set forth above under **Estimated Value of Your Notes**; after the trade date, the estimated value as determined by reference to these models will be affected by changes in market conditions, the creditworthiness of GS Finance Corp., as issuer, the creditworthiness of The Goldman Sachs Group, Inc., as guarantor, and other relevant factors. The price at which GS&Co. would initially buy or sell your notes (if GS&Co. makes a market, which it is not obligated to do), and the value that GS&Co. will initially use for account statements and otherwise, also exceeds the estimated value of your notes as determined by reference to these models. As agreed by GS&Co. and the distribution participants, this excess (i.e., the additional amount described under **Estimated Value of Your Notes**) will decline to zero on a straight line basis over the period from the date hereof through the applicable date set forth above under **Estimated Value of Your Notes**. Thereafter, if GS&Co. buys or sells your notes it will do so at prices that reflect the estimated value determined by reference to such pricing models at that time. The price at which GS&Co. will buy or sell your notes at any time also will reflect its then current bid and ask spread for similar sized trades of structured notes.

In estimating the value of your notes as of the time the terms of your notes are set on the trade date, as disclosed above under **Estimated Value of Your Notes**, GS&Co.'s pricing models consider certain variables, including principally our credit spreads, interest rates (forecasted, current and historical rates), volatility, price-sensitivity analysis and the time to maturity of the notes. These pricing models are proprietary and rely in part on certain assumptions about future events, which may prove to be incorrect. As a result, the actual value you would receive if you sold your notes in the secondary market, if any, to others may differ, perhaps materially, from the estimated value of your notes determined by reference to our models due to, among other things, any differences in pricing models or assumptions used by others. See **Additional Risk Factors Specific to the Underlier-Linked Digital Notes** **The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors** on page S-33 of the accompanying product supplement no. 1,742.

The difference between the estimated value of your notes as of the time the terms of your notes are set on the trade date and the original issue price is a result of certain factors, including principally the underwriting discount and commissions, the expenses incurred in creating, documenting and marketing the notes, and an estimate of the difference between the amounts we pay to GS&Co. and the amounts GS&Co. pays to us in connection with your notes. We pay to GS&Co. amounts based on what we would



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pay to holders of a non-structured note with a similar maturity. In return for such payment, GS&Co. pays to us the amounts we owe under your notes.

In addition to the factors discussed above, the value and quoted price of your notes at any time will reflect many factors and cannot be predicted. If GS&Co. makes a market in the notes, the price quoted by GS&Co. would reflect any changes in market conditions and other relevant factors, including any

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deterioration in our creditworthiness or perceived creditworthiness or the creditworthiness or perceived creditworthiness of The Goldman Sachs Group, Inc. These changes may adversely affect the value of your notes, including the price you may receive for your notes in any market making transaction. To the extent that GS&Co. makes a market in the notes, the quoted price will reflect the estimated value determined by reference to GS&Co.'s pricing models at that time, plus or minus its then current bid and ask spread for similar sized trades of structured notes (and subject to the declining excess amount described above).

Furthermore, if you sell your notes, you will likely be charged a commission for secondary market transactions, or the price will likely reflect a dealer discount. This commission or discount will further reduce the proceeds you would receive for your notes in a secondary market sale.

There is no assurance that GS&Co. or any other party will be willing to purchase your notes at any price and, in this regard, GS&Co. is not obligated to make a market in the notes. See **Additional Risk Factors Specific to the Underlier-Linked Digital Notes Your Notes May Not Have an Active Trading Market** on page S-33 of the accompanying product supplement no. 1,742.

**The Notes Are Subject to the Credit Risk of the Issuer and the Guarantor**

Although the return on the notes will be based on the performance of the basket underliers, the payment of any amount due on the notes is subject to the credit risk of GS Finance Corp., as issuer of the notes, and the credit risk of The Goldman Sachs Group, Inc. as guarantor of the notes. The notes are our unsecured obligations. Investors are dependent on our ability to pay all amounts due on the notes, and therefore investors are subject to our credit risk and to changes in the market's view of our creditworthiness. Similarly, investors are dependent on the ability of The Goldman Sachs Group, Inc., as guarantor of the notes, to pay all amounts due on the notes, and therefore are also subject to its credit risk and to changes in the market's view of its creditworthiness. See **Description of the Notes We May Offer Information About Our Medium-Term Notes, Series E Program How the Notes Rank Against Other Debt** on page S-4 of the accompanying prospectus supplement and **Description of Debt Securities We May Offer Guarantee by The Goldman Sachs Group, Inc.** on page 42 of the accompanying prospectus.

**The Amount Payable on Your Notes Is Not Linked to the Level of Each Basket Underlier at Any Time Other than the Determination Date**

The final basket level will be based on the closing levels of the basket underliers on the determination date (subject to adjustment as described elsewhere in this pricing supplement). Therefore, if the closing levels of the basket underliers dropped precipitously on the determination date, the cash settlement amount for your notes may be significantly less than it would have been had the cash settlement amount been linked to the closing levels of the basket underliers prior to such drop in the levels of the basket underliers. Although the actual levels of the basket underliers on the stated maturity date or at other times during the life of your notes may be higher than the closing levels of the basket underliers on the determination date, you will not benefit from the closing levels of the basket underliers at any time other than on the determination date.

**You May Lose Your Entire Investment in the Notes**

You can lose your entire investment in the notes. The cash payment on your notes, if any, on the stated maturity date will be based on the performance of a weighted basket comprised of the EURO STOXX 50® Index, TOPIX, the FTSE® 100 Index, the Swiss Market Index, the S&P/ASX 200 Index and the Hang Seng China Enterprises Index as measured from the initial basket level of 100 to the final basket level on the determination date. If the final basket level for your notes is *less than* the threshold level, you will have a loss for each \$1,000 of the face amount of your notes equal to the *product* of (i) the buffer rate *times* (ii) the sum of the basket return *plus* the threshold amount *times* (iii) \$1,000. Thus, you may lose your entire investment in the notes, which would include any premium to face amount you paid when you purchased the notes.

Also, the market price of your notes prior to the stated maturity date may be significantly lower than the purchase price you pay for your notes. Consequently, if you sell your notes before the stated maturity date, you may receive far less than the amount of your investment in the notes.

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**Your Notes Do Not Bear Interest**

You will not receive any interest payments on your notes. As a result, even if the cash settlement amount payable for your notes on the stated maturity date exceeds the face amount of your notes, the overall return you earn on your notes may be less than you would have earned by investing in a non-indexed debt security of comparable maturity that bears interest at a prevailing market rate.

**The Lower Performance of One Basket Underlier May Offset an Increase in the Other Basket Underliers**

Declines in the level of one basket underlier may offset increases in the levels of the other basket underliers. As a result, any return on the basket and thus on your notes may be reduced or eliminated, which will have the effect of reducing the amount payable in respect of your notes at maturity. In addition, because the basket underliers are not equally weighted, increases in the lower weighted basket underliers may be offset by even small decreases in the more heavily weighted basket underliers.

**You Have No Shareholder Rights or Rights to Receive Any Basket Underlier Stock**

Investing in your notes will not make you a holder of any of the basket underlier stocks. Neither you nor any other holder or owner of your notes will have any rights with respect to the basket underlier stocks, including any voting rights, any right to receive dividends or other distributions, any rights to make a claim against the basket underlier stocks or any other rights of a holder of the basket underlier stocks. Your notes will be paid in cash and you will have no right to receive delivery of any basket underlier stocks.

**We May Sell an Additional Aggregate Face Amount of the Notes at a Different Issue Price**

At our sole option, we may decide to sell an additional aggregate face amount of the notes subsequent to the date of this pricing supplement. The issue price of the notes in the subsequent sale may differ substantially (higher or lower) from the issue price you paid as provided on the cover of this pricing supplement.

**If You Purchase Your Notes at a Premium to Face Amount, the Return on Your Investment Will Be Lower Than the Return on Notes Purchased at Face Amount and the Impact of Certain Key Terms of the Notes Will Be Negatively Affected**

The cash settlement amount will not be adjusted based on the issue price you pay for the notes. If you purchase notes at a price that differs from the face amount of the notes, then the return on your investment in such notes held to the stated maturity date will differ from, and may be substantially less than, the return on notes purchased at face amount. If you purchase your notes at a premium to face amount and hold them to the stated maturity date the return on your investment in the notes will be lower than it would have been had you purchased the notes at face amount or a discount to face amount. In addition, the impact of the threshold level and the threshold settlement amount on the return on your investment will depend upon the price you pay for your notes relative to face amount. For example, if you purchase your notes at a premium to face amount, the threshold settlement amount will

permit a lower positive return on your investment in the notes than would have been the case for notes purchased at face amount or a discount to face amount. Similarly, if the final basket level is less than the threshold level, you will incur a greater percentage decrease in your investment in the notes than would have been the case for notes purchased at face amount or a discount to face amount.

**An Investment in the Offered Notes Is Subject to Risks Associated with Foreign Securities**

The value of your notes is linked to basket underliers that are comprised of stocks from one or more foreign securities markets. Investments linked to the value of foreign equity securities involve particular risks. Any foreign securities market may be less liquid, more volatile and affected by global or domestic market developments in a different way than are the U.S. securities market or other foreign securities markets. Both government intervention in a foreign securities market, either directly or indirectly, and cross-shareholdings in foreign companies, may affect trading prices and volumes in that market. Also, there is generally less publicly available information about foreign companies than about those U.S. companies that are subject to the reporting requirements of the U.S. Securities and Exchange

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Commission. Further, foreign companies are subject to accounting, auditing and financial reporting standards and requirements that differ from those applicable to U.S. reporting companies.

The prices of securities in a foreign country are subject to political, economic, financial and social factors that are unique to such foreign country's geographical region. These factors include: recent changes, or the possibility of future changes, in the applicable foreign government's economic and fiscal policies; the possible implementation of, or changes in, currency exchange laws or other laws or restrictions applicable to foreign companies or investments in foreign equity securities; fluctuations, or the possibility of fluctuations, in currency exchange rates; and the possibility of outbreaks of hostility, political instability, natural disaster or adverse public health developments. The United Kingdom has voted to leave the European Union (popularly known as Brexit). The effect of Brexit is uncertain, and Brexit has and may continue to contribute to volatility in the prices of securities of companies located in Europe and currency exchange rates, including the valuation of the euro and British pound in particular. Any one of these factors, or the combination of more than one of these factors, could negatively affect such foreign securities market and the price of securities therein. Further, geographical regions may react to global factors in different ways, which may cause the prices of securities in a foreign securities market to fluctuate in a way that differs from those of securities in the U.S. securities market or other foreign securities markets. Foreign economies may also differ from the U.S. economy in important respects, including growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency, which may have a positive or negative effect on foreign securities prices.

**Your Notes May Be Subject to an Adverse Change in Tax Treatment in the Future**

The tax consequences of an investment in your notes are uncertain, both as to the timing and character of any inclusion in income in respect of your notes.

The Internal Revenue Service announced on December 7, 2007 that it is considering issuing guidance regarding the proper U.S. federal income tax treatment of an instrument such as your notes, and any such guidance could adversely affect the tax treatment and the value of your notes. Among other things, the Internal Revenue Service may decide to require the holders to accrue ordinary income on a current basis and recognize ordinary income on payment at maturity, and could subject non-U.S. investors to withholding tax. Furthermore, in 2007, legislation was introduced in Congress that, if enacted, would have required holders that acquired instruments such as your notes after the bill was enacted to accrue interest income over the term of such instruments even though there will be no interest payments over the term of such instruments. It is not possible to predict whether a similar or identical bill will be enacted in the future, or whether any such bill would affect the tax treatment of your notes. We describe these developments in more detail under Supplemental Discussion of Federal Income Tax Consequences on page S-42 of the accompanying product supplement no. 1,742. You should consult your tax advisor about this matter. Except to the extent otherwise provided by law, GS Finance Corp. intends to continue treating the notes for U.S. federal income tax purposes in accordance with the treatment described under Supplemental Discussion of Federal Income Tax Consequences on page S-42 of the accompanying product supplement no. 1,742 unless and until such time as Congress, the Treasury Department or the Internal Revenue Service determine that some other treatment is more appropriate.

**United States Alien Holders Should Consider the Withholding Tax Implications of Owning the Notes**

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The Treasury Department has issued regulations under which amounts paid or deemed paid on certain financial instruments ( 871(m) financial instruments ) that are treated as attributable to U.S.-source dividends could be treated, in whole or in part depending on the circumstances, as a dividend equivalent payment that is subject to tax at a rate of 30% (or a lower rate under an applicable treaty), which in the case of any amounts a United States alien holder receives upon the sale, exchange or maturity of the notes, could be collected via withholding. If these regulations were to apply to the notes, we may be required to withhold such taxes if any U.S.-source dividends are paid on any of the stocks included in the basket underliers during the term of the notes. We could also require a United States alien holder to make certifications (e.g., an applicable Internal Revenue Service Form W-8) prior to the maturity of the notes in order to avoid or minimize withholding obligations, and we could withhold accordingly (subject to the United States alien holder s potential right to claim a refund from the Internal Revenue

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Service) if such certifications were not received or were not satisfactory. If withholding was required, we would not be required to pay any additional amounts with respect to amounts so withheld. These regulations generally will apply to 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) issued (or significantly modified and treated as retired and reissued) on or after January 1, 2021, but will also apply to certain 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) that have a delta (as defined in the applicable Treasury regulations) of one and are issued (or significantly modified and treated as retired and reissued) on or after January 1, 2017. In addition, these regulations will not apply to financial instruments that reference a qualified index (as defined in the regulations). We have determined that, as of the issue date of your notes, your notes will not be subject to withholding under these rules. In certain limited circumstances, however, you should be aware that it is possible for United States alien holders to be liable for tax under these rules with respect to a combination of transactions treated as having been entered into in connection with each other even when no withholding is required. You should consult your tax advisor concerning these regulations, subsequent official guidance and regarding any other possible alternative characterizations of your notes for U.S. federal income tax purposes.

**Foreign Account Tax Compliance Act (FATCA) Withholding May Apply to Payments on Your Notes, Including as a Result of the Failure of the Bank or Broker Through Which You Hold the Notes to Provide Information to Tax Authorities**

Please see the discussion under United States Taxation Taxation of Debt Securities Foreign Account Tax Compliance Act (FATCA) Withholding in the accompanying prospectus for a description of the applicability of FATCA to payments made on your notes.



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**THE BASKET AND THE BASKET UNDERLIERS**

**The Basket**

The basket is comprised of six basket underliers with the following initial weights within the basket: the EURO STOXX 50® Index (42.50% weighting), TOPIX (24.25% weighting), the FTSE® 100 Index (15% weighting), the Swiss Market Index (8% weighting), the S&P/ASX 200 Index (7% weighting) and the Hang Seng China Enterprises Index (3.25% weighting).

**The EURO STOXX 50® Index**

The EURO STOXX 50® Index is a free-float market capitalization-weighted index of 50 European blue-chip stocks and was created by and is sponsored and maintained by STOXX Limited. Publication of the EURO STOXX 50 Index began on February 26, 1998, based on an initial index value of 1,000 at December 31, 1991. The level of the EURO STOXX 50® Index is disseminated on the STOXX Limited website. STOXX Limited is under no obligation to continue to publish the index and may discontinue publication of it at any time. Additional information regarding the EURO STOXX 50® Index may be obtained from the STOXX Limited website: [stoxx.com](http://stoxx.com). We are not incorporating by reference the website or any material it includes in this pricing supplement.

The top ten constituent stocks of the EURO STOXX 50® Index as of December 17, 2018, by weight, are: Total S.A. (5.87%), SAP SE (4.34%), Sanofi (3.98%), Siemens AG (3.84%), LINDE PLC (3.51%), Allianz SE (3.42%), Unilever N.V. (3.33%), LVMH Moët Hennessy Louis Vuitton SE (3.03%), Banco Santander S.A. (2.95%) and ASML Holding N.V. (2.83%); constituent weights may be found at [stoxx.com/download/indices/factsheets/SX5GT.pdf](http://stoxx.com/download/indices/factsheets/SX5GT.pdf) under Factsheets and Methodologies and are updated periodically.

As of December 17, 2018, the sixteen industry sectors which comprise the EURO STOXX 50® Index represent the following weights in the index: Automobiles & Parts (4.21%), Banks (10.76%), Chemicals (4.53%), Construction & Materials (2.68%), Food & Beverage (4.22%), Health Care (10.25%), Industrial Goods & Services (10.43%), Insurance (6.48%), Media (0.93%), Oil & Gas (7.48%), Personal & Household Goods (10.13%), Real Estate (0.89%), Retail (3.82%), Technology (9.73%), Telecommunications (5.23%) and Utilities (4.73%); industry weightings may be found at [stoxx.com/download/indices/factsheets/SX5GT.pdf](http://stoxx.com/download/indices/factsheets/SX5GT.pdf) under Factsheets and Methodologies and are updated periodically. Percentages may not sum to 100% due to rounding. Sector designations are determined by the underlier sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on

which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.

As of December 17, 2018, the eight countries which comprise the EURO STOXX 50® Index represent the following weights in the index: Belgium (2.36%), Finland (1.33%), France (38.38%), Germany (27.88%), Ireland (4.37%), Italy (4.83%), Netherlands (10.53%) and Spain (10.32%); country weightings may be found at [stox.com/download/indices/factsheets/SX5GT.pdf](http://stox.com/download/indices/factsheets/SX5GT.pdf) under Factsheets and Methodologies and are updated periodically.

The above information supplements the description of the EURO STOXX 50® Index found in the accompanying general terms supplement no. 1,734. This information was derived from information prepared by the basket underlier sponsor, however, the percentages we have listed above are approximate and may not match the information available on the basket underlier sponsor's website due to subsequent corporation actions or other activity relating to a particular stock. For more details about the EURO STOXX 50® Index, the basket underlier sponsor and license agreement between the basket underlier sponsor and the issuer, see The Underliers EURO STOXX 50® Index on page S-75 of the accompanying general terms supplement no. 1,734.

The EURO STOXX 50® is the intellectual property of STOXX Limited, Zurich, Switzerland and/or its licensors (Licensors), which is used under license. The securities or other financial instruments based

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on the index are in no way sponsored, endorsed, sold or promoted by STOXX and its Licensors and neither STOXX nor its Licensors shall have any liability with respect thereto.

**TOPIX**

TOPIX, also known as the Tokyo Price Index, is a capitalization weighted index of all the domestic common stocks listed on the First Section of the Tokyo Stock Exchange, Inc., which we refer to as the TSE. Domestic stocks admitted to the TSE are assigned either to the TSE First Section, the TSE Second Section or the TSE Mothers. Stocks listed in the First Section, which number approximately 1,700, are among the most actively traded stocks on the TSE. TOPIX is supplemented by the sub-basket components of the 33 industry sectors and was developed with a base index value of 100 as of January 4, 1968. TOPIX is calculated and published by TSE. Additional information about TOPIX is available on the following website: [tse.or.jp/english/market/topix/index.html](http://tse.or.jp/english/market/topix/index.html). We are not incorporating by reference the website or any material it includes in this pricing supplement.

**TOPIX****Basket Underlier Stock Weighting by Sector as of November 30, 2018**

<b>Sector:*</b>	<b>Percentage (%)**</b>
Air Transportation	0.60%
Banks	6.70%
Chemicals	7.34%
Communication	7.55%
Construction	2.97%
Electric Appliances	13.00%
Electric Power & Gas	1.90%
Fishery, Agriculture & Forestry	0.12%
Foods	4.38%
Glass & Ceramics Products	0.92%
Insurance	2.40%
Iron & Steel	1.00%
Land Transportation	4.59%
Machinery	5.06%
Marine Transportation	0.17%
Metal Products	0.60%
Mining	0.31%
Nonferrous Metals	0.80%
Oil & Coal Products	0.75%
Other Financing Business	1.21%
Other Products	2.08%
Pharmaceutical	5.23%
Precision Instruments	1.84%
Pulp & Paper	0.29%

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Real Estate	2.43%
Retail Trade	5.29%
Rubber Products	0.83%
Securities & Commodity Futures	0.93%
Services	4.84%
Textiles & Apparels	0.67%
Transportation Equipment	8.04%
Warehousing & Harbor Transportation Services	0.20%
Wholesale Trade	4.96%

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\* Sector designations are determined by the basket underlier sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.

\*\* Information provided by TSE. Percentages may not sum to 100% due to rounding.

The above information supplements the description of TOPIX found in the accompanying general terms supplement no. 1,734. For more details about TOPIX, the basket underlier sponsor and the license agreement between the basket underlier sponsor and the issuer, see The Underliers TOPIX on page S-82 of the accompanying general terms supplement no. 1,734.

TOPIX Value and TOPIX Marks are subject to the proprietary rights owned by the Tokyo Stock Exchange, Inc. and the Tokyo Stock Exchange, Inc. owns all rights and know-how relating to TOPIX such as calculation, publication and use of TOPIX Value and relating to TOPIX Marks. The Tokyo Stock Exchange, Inc. shall reserve the rights to change the methods of calculation or publication, to cease the calculation or publication of TOPIX Value or to change TOPIX Marks or cease the use thereof. The Tokyo Stock Exchange, Inc. makes no warranty or representation whatsoever, either as to the results stemmed from the use of TOPIX Value and TOPIX Marks or as to the figure at which TOPIX Value stands on any particular day. The Tokyo Stock Exchange, Inc. gives no assurance regarding accuracy or completeness of TOPIX Value and data contained therein. Further, the Tokyo Stock Exchange, Inc. shall not be liable for the miscalculation, incorrect publication, delayed or interrupted publication of TOPIX Value. No securities are in any way sponsored, endorsed or promoted by the Tokyo Stock Exchange, Inc. The Tokyo Stock Exchange, Inc. shall not bear any obligation to give an explanation of the securities or an advice on investments to any purchaser of the securities or to the public. The Tokyo Stock Exchange, Inc. neither selects specific stocks or groups thereof nor takes into account any needs of the issuing company or any purchaser of the securities, for calculation of TOPIX Value. Including but not limited to the foregoing, the Tokyo Stock Exchange, Inc. shall not be responsible for any damage resulting from the issue and sale of the securities.

### **The FTSE® 100 Index**

The FTSE® 100 Index is a market capitalization-weighted index of the 100 most highly capitalized U.K.-listed blue chip companies traded on the London Stock Exchange. The FTSE® 100 Index is sponsored, calculated, published and disseminated by FTSE Russell, a company owned by the London Stock Exchange Group companies that we refer to as FTSE. The FTSE® 100 Index was first launched with a base level of 1,000 as of December 30, 1983. Additional information on the FTSE® 100 Index is available from the following website: [ftse.com/products/indices/uk](http://ftse.com/products/indices/uk). We are not incorporating by reference the website or any material it includes in this prospectus supplement.

FTSE divides the 100 companies included in the FTSE® 100 Index into the 10 Industry Classification Benchmark industries: Oil & Gas, Basic Materials, Industrials, Consumer Goods, Health Care, Consumer Services, Telecommunications, Utilities, Financials and Technology. FTSE Russell announced that it expects to add an 11th industry, Real Estate, to the Industry Classification Benchmark after the market close on

December 31, 2018.

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Table of Contents**FTSE® 100 Index****Index Stock Weighting by Sector as of November 30, 2018**

<b>Sector:*</b>	<b>Percentage (%)**</b>
Oil & Gas	13.99%
Basic Materials	7.35%
Industrials	10.62%
Consumer Goods	13.71%
Health Care	10.32%
Consumer Services	11.45%
Telecommunications	3.17%
Utilities	2.76%
Financials	25.70%
Technology	0.94%

\* Sector designations are determined by the index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices may reflect differences in sector designation methodology as well as actual differences in the sector composition of the indices.

\*\* Information provided by FTSE. Percentages may not sum to 100% due to rounding.

The top ten constituent stocks of the FTSE® 100 Index as of November 30, 2018, by weight, are: HSBC Holdings PLC (5.98%); Royal Dutch Shell PLC (4.88%); BP PLC (4.55%); Royal Dutch Shell PLC Class B (4.02%); GlaxoSmithKline PLC (3.54%); AstraZeneca PLC (3.47%); Diageo PLC (3.06%); British American Tobacco PLC (2.81%); Unilever (2.12%) and Vodafone Group (2.02%).

In addition to the eligibility criteria discussed under The Underliers FTSE® 100 Index on page S-69 of the accompanying general terms supplement no. 1,734, in order to be included in the FTSE® 100 Index, a company is required to have greater than 5% of its voting rights (aggregated across all of its equity securities, including, where identifiable, those that are not listed or trading) in the hands of unrestricted shareholders. Current constituents of the FTSE® 100 Index who do not meet this requirement will have until the September 2022 review to meet the requirement or they will be removed from the FTSE® 100 Index.

The above information supplements the description of the basket underlier found in the accompanying general terms supplement no. 1,734. This information was derived from information prepared by the basket underlier sponsor, however, the percentages we

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have listed above are approximate and may not match the information available on the underlier sponsor's website due to subsequent corporation actions or other activity relating to a particular stock. For more details about the basket underlier, the basket underlier sponsor and license agreement between the underlier sponsor and the issuer, see The Underliers FTSE® 100 Index on page S-69 of the accompanying general terms supplement no. 1,734.

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The FTSE® 100 Index is calculated by FTSE. FTSE does not sponsor, endorse or promote this product and is not in any way connected to it and does not accept any liability in relation to its issue, operation and trading.

All copyright and database rights in the index values and constituent list vest in FTSE. GS Finance Corp. has obtained full license from FTSE to use such copyrights and database rights in the creation of this product.

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**Swiss Market Index (SMI®)**

The SMI®, which we also refer to in this description as the index :

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

The index is a price return float-adjusted market capitalization-weighted index of the 20 largest stocks traded on the Swiss Stock Exchange. The Exchange has outsourced the calculation and determination of index constituents as described below, to a specialized third-party financial service provider. All matters regarding the index that require a decision, including regarding processes outsourced to a specialized third-party financial service provider, are submitted to the Management Committee. The Management Committee of SIX Swiss Exchange is supported by an Index Commission (advisory board) in all index-related matters, notably in connection with changes to the index rules and adjustments, additions and exclusions outside of the established review and acceptance period. The Index Commission meets at least twice annually.

As of December 7, 2018, the top ten constituents of the index (and their respective weightings in the index) were: Novartis AG (19.52%); Roche Holding AG (19.42%); Nestle SA (19.27%); UBS Group AG (5.47%); Zurich Insurance Group AG (5.13%); ABB Ltd (3.89%); Compagnie Financiere Richemont SA (3.77%); Swiss Re AG (3.07%); Credit Suisse Group AG (3.03%); and Lonza Group Ltd (2.59%).

As of December 7, 2018, the ICB industry sectors in the index (and their respective weights) were: Basic Materials (2.18%), Consumer Goods (24.05%), Financials (19.11%), Health Care (41.52%), Industrials (11.77%), Oil & Gas (0.00%) and Telecommunications (1.37%) (may not sum to 100% due to rounding). Sector designations are determined by the index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.

*SMI® Composition and Selection Criteria*

The index is comprised of the 20 highest ranked stocks traded on the Swiss Stock Exchange that have a free float of 20% or more and that are not investment companies. The equity universe is largely Swiss domestic companies, although in some cases foreign

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issuers with a primary listing on the Swiss Stock Exchange that submit to certain reporting requirements or investment companies that do not hold any shares of any other eligible company and that have a primary listing on the Swiss Stock Exchange may be included.

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

- average free-float market capitalization over the last 12 months (compared to the capitalization of the entire Swiss Stock Exchange index family), and
- cumulative on order book turnover over the last 12 months (compared to the total turnover of the Swiss Stock Exchange index family).

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

The index is reconstituted annually after prior notice of at least two months on the third Friday in September after the close of trading. For companies that were listed during the last 12 months, the cumulated on order book turnover generally excludes the first 5 trading days in the calculation. The ordinary index reconstitution is based on data from the previous July 1 through June 30. Provisional interim selection (ranking) lists based on the average free-float market capitalization and cumulative on order book turnover over the last 12 months are also published at the cut off dates March 31, September 30 and December 31.

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

*Maintenance of the Index*

Constituent Changes. In the case of major market changes as a result of capital events such as mergers or new listings, the Management Committee of SIX Swiss Exchange can decide at the request of the Index Commission that a security should be admitted to the index outside the annual review period as long as it clearly fulfills the criteria for inclusion. For the same reasons, a security can also be excluded if the requirements for admission to the index are no longer fulfilled. As a general rule, extraordinary acceptances into the index take place after a three-month period on a quarterly basis after the close of trading on the third Friday of March, June, September and December (for example, a security listed on or before the 5<sup>th</sup> trading day prior to the end of November cannot be included until the following March). If a delisting has been confirmed, it will be removed from the index at the next upcoming ordinary quarterly adjustment date (March, June, September and December) with a notice period of at least five days. An announced insolvency is deemed to be an extraordinary event and the security will be removed from the index five trading days prior notice if the circumstances permit such notice.

Capped Weightings and Intra-Quarter Breaches. The weight of any index constituent that exceeds a weight of 18% within the index is reduced to that value at each ordinary quarterly adjustment date by applying a capping factor to the calculation of such constituent's free float market capitalization. A constituent's number of shares and free float figure are used to determine its capping factor. The excess weight (the difference of the original weight minus the capped weight) is distributed proportionally across the other index constituents. The constituents are also capped to 18% as soon as two index constituents exceed a weight of 20% (an intra-quarter breach). If an intra-quarter breach is observed after the close of the markets, the new capping factors are implemented after the close of the following trading day. The weights of the largest components are therefore set again to be around 18% at the subsequent market open. In order to achieve a capped weighting while attempting to not cause market distortion, a stepwise reduction is conducted based on the ordinary quarterly index adjustment reviews to ensure that no change in the weight (as a result of capping) from one review to the next exceeds 3%. The transition period is in effect until no component has a weight larger than 18%. In the case of an intra-quarter breach where two index constituents exceed 20%, the weights are limited to the last defined weights as of the prior review.

Number of Shares and Free Float. The securities included in the index are weighted according to their free float. This means that shares deemed to be in firm hands are subtracted from the total market capitalization of that company. The free float is calculated on the basis of outstanding shares. Issued and outstanding equity capital is, as a rule, the total amount of equity capital that has been fully subscribed and wholly or partially paid in and documented in the Commercial Register. Not counting as issued and outstanding

equity capital are the approved capital and the conditional capital of a company. The free float is calculated on the basis of listed shares only. If a company offers several different categories of listed participation rights, each is treated separately for the purposes of index calculation.

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

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

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

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

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

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

After a takeover, the index sponsor may, in exceptional cases, adjust the free float of the company in question upon publication of the end results after a five-day notification period or may exclude the security from the relevant index family. When an insolvency has been announced, an extraordinary adjustment will be made and the affected security will be removed from the index after five trading days notice, and a replacement will be determined based on the current selection list.

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

*Calculation of the Index*

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

$$\text{Swiss Market Index} = \frac{\text{Free Float Market Capitalization of the SMI}^{\text{®}}}{\text{Divisor}}$$

The free float market capitalization of the SMI® is equal to the sum of the product of the last-paid price, the number of shares, the free float factor, the capping factor and, if a foreign stock is included, the current CHF exchange rate as of the time the index value is being calculated. (As of October 3, 2014, all stocks in the index are denominated in Swiss Francs, known as CHF). The index value is calculated in real time and is updated whenever a trade is made in a component stock. Where any index component stock price is unavailable on any trading day, the index sponsor will use the last reported price for such component stock. Only prices from the Exchange's electronic order book are used in calculating the index.

*Divisor Value and Adjustments*

The divisor is a technical number used to calculate the index and is adjusted to reflect changes in market capitalization due to corporate events. The divisor value as of December 7, 2018 is 101,340,435.

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Below are common corporate events and their impact on the divisor of the index.

Event	Divisor Change?
Regular cash dividend	No
Repayments of capital through reduction of a share's par value	No
Special dividends, anniversary bonds and other extraordinary payments that, contrary to the company's usual dividend policy, are paid out or declared extraordinary.	Yes
Share dividends (company's own shares)	No
Share dividend (shares of another company)	Yes

The index sponsor reserves the right to respond to any other corporate events with divisor adjustments or, in extraordinary circumstances, to depart from the provisions set forth above.

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**S&P/ASX 200**

The S&P/ASX 200, which we also refer to in this description as the index :

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

The index includes 200 of the largest and most liquid stocks listed on the Australian Securities Exchange, which we refer to as the ASX, by float-adjusted market capitalization. As discussed below, the S&P/ASX 200 is not limited solely to companies having their primary operations or headquarters in Australia or to companies having their primary listing on the ASX. All ordinary and preferred shares (if such preferred shares are not of a fixed income nature) listed on the ASX, including secondary listings, are eligible for the index. Hybrid stocks such as convertible stocks, bonds, warrants, preferred stock that provides a guaranteed fixed return and listed investment companies are not eligible for inclusion. Stocks currently under consideration for merger or acquisition are not eligible for inclusion or promotion to the index.

As of December 3, 2018, the top 10 index stocks by weight were the following: Commonwealth Bank of Australia (8.11%), BHP Billiton Ltd. (6.58%), Westpac Banking Corp. (5.81%), CSL Ltd. (5.35%), ANZ Banking Group (4.98%), National Australia Bank Ltd. (4.33%), Woolworths Ltd. (2.47%), Macquarie Group Ltd. (2.40%), Wesfarmers Ltd. (2.32%), and Telstra Corporation Ltd. (2.28%).

As of December 3, 2018, the 11 GICS industry sectors represented by stocks in the index include: Financials (32.95%), Materials (17.80%), Health Care (8.43%), Industrials (7.89%), Real Estate (7.69%), Consumer Discretionary (6.35%), Consumer Staples (5.61%), Energy (5.52%), Communication Services (3.64%), Information Technology (2.17%) and Utilities (1.94%). Sector designations are determined by the index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices. As of the close of business on September 21, 2018, S&P and MSCI, Inc. updated the Global Industry Classification Sector

structure. Among other things, the update broadened the Telecommunications Services sector and renamed it the Communication Services sector. The renamed sector includes the previously existing Telecommunication Services Industry group, as well as the Media Industry group, which was moved from the Consumer Discretionary sector and renamed the Media & Entertainment Industry group. The Media & Entertainment Industry group contains three industries: Media, Entertainment and Interactive Media & Services. The Media industry continues to consist of the Advertising, Broadcasting, Cable & Satellite and Publishing sub-industries. The Entertainment industry contains the Movies & Entertainment sub-industry (which includes online entertainment streaming companies in addition to companies previously classified in such industry prior to September 21, 2018) and the Interactive Home Entertainment sub-industry (which includes companies previously classified in the Home Entertainment Software sub-industry prior to September 21, 2018 (when the Home Entertainment Software sub-industry was a sub-industry in the Information Technology sector)), as well as producers of interactive gaming products, including mobile gaming applications). The Interactive Media & Services industry and sub-industry includes companies engaged in content and information creation or distribution through proprietary platforms, where revenues are derived primarily through pay-per-click advertisements, and includes search engines, social media

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and networking platforms, online classifieds and online review companies. The Global Industry Classification Sector structure changes are effective for the S&P/ASX 200 Index as of the open of business on September 24, 2018 to coincide with the September 2018 quarterly rebalancing.

As of November 30, 2018, the countries of domicile included in the index and their relative weights were: Australia (97.30%), New Zealand (1.20%), United States (0.80%), France (0.50%) and United Kingdom (0.20%).

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

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

*Number of Shares*

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

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

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

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

*IWF*

All stocks in the index are assigned an IWF, which is an adjustment factor that accounts for the publicly available shares of a company. The IWF ranges between 0 and 1 and is calculated as 1 *minus* the percentage of shares held by strategic shareholders who possess 5% or more of issued shares. A company must have a minimum IWF of 0.3 to be eligible for index inclusion.

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

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

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4. Other restricted portions such as treasury stocks.

*Liquidity Test*

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

*Index Maintenance*

S&P rebalances the index constituents quarterly to ensure adequate market capitalization and liquidity based on the previous six months' worth of data. The reference date used for the six months worth of trading data is the last Friday of the month prior to the rebalancing, except for the September rebalancing where the reference date for data used is the second to last Friday of August. Quarterly review changes take effect after the market close on the third Friday of March, June, September and December. Eligible stocks are considered for index inclusion based on their float-adjusted market capitalization rank relative to the stated quota of 200 securities. For example, a stock that is currently in the S&P/ASX 300 and is ranked at 175, based on float-adjusted market capitalization, within the universe of eligible securities may be considered for inclusion into the index, provided that liquidity hurdles are met. Stocks that fail the relative liquidation criteria are typically removed from the float-adjusted market capitalization rankings.

In order to limit the level of index turnover, eligible non-constituent securities will generally only be considered for index inclusion once a current constituent stock is excluded due to a sufficiently low rank and/or liquidity, based on the float-adjusted market capitalization. Potential index inclusions and exclusions need to satisfy buffer requirements in terms of the rank of the stock relative to a given index. In order to be added to the index, a stock must be ranked 179th or higher, and in order to be deleted from the index, a stock must be ranked 221st or lower. The buffers are established to limit the level of index turnover that may take place at each quarterly rebalancing. The buffers serve as guidelines for arriving at any potential constituent changes to the index, however, these rules can be by-passed when circumstances warrant.

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

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

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

Share updates for foreign-domiciled securities will take place annually at the March rebalancing. The update to the number of index shares will only take place when the 6-month average of CDIs or the total securities held in the Australian branch of the issuer sponsored register (where supplied) and in CHESS, as of the March rebalancing, differs from the current index shares by either 5% or a market-cap dollar amount greater than A\$ 100 million. Where CDI information is not supplied to the ASX by the company or the company's share register, estimates for Australian equity capital will be drawn from CHESS data and, ultimately, registry-sourced data.

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

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- Changes in a company's float-adjusted shares of 5% or more due to market-wide shares issuance;
- Rights issues, bonus issues and other major corporate actions;
- Dividend Reinvestment Plan share issuances of more than A\$100 million in value; and
- Share issues resulting from index companies merging and major off-market buy-backs.

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

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

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

*Index Calculation*

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

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

The table below summarizes the types of index adjustments and indicates whether the corporate action will require a divisor adjustment:

Type of Corporate Action	Index Treatment	Divisor Adjustment Required
Cash dividend	None	No
Special Cash Dividend	Price adjustment needed	Yes
Stock dividend and/or split	Shares are multiplied by and price is divided by the split factor	No
Stock dividend from class A shares into existing class B shares, both of which are included in the index	Adjustment for price of A; adjustment for shares in B	Yes
Stock dividend of different class, same company and is not included in the index	Price adjustment	Yes
Reverse Split	Adjustment for price and shares	No

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<b>Type of Corporate Action</b>	<b>Index Treatment</b>	<b>Divisor Adjustment Required</b>
Rights Offering	Adjustment for price and shares	Yes
Rights offering for a new line	Adjustment for price	Yes
New share issuance	Adjustment for shares	Yes
Reduction of capital	Share adjustment	Yes
New addition to index	Share adjustment	Yes
Deletion from index	Share adjustment	Yes
Merger (acquisition by index company for stock)	Share increase	Yes

A company that is spun-off from an index constituent will be added to the index at a zero price on the ex-date. If the spun-off company is not eligible to be included in the index based on its float adjusted market capitalization then it will be removed from the index at least after one day of trading regular way.

In situations where an exchange is forced to close early due to unforeseen events, such as computer or electric power failures, weather conditions or other events, S&P will calculate the closing price of the indices based on (1) the closing prices published by the exchange, or (2) if no closing price is available, the last regular trade reported for each security before the exchange closed. If the exchange fails to open due to unforeseen circumstances, S&P treats this closure as a standard market holiday. The index will use the prior day's closing prices and shifts any corporate actions to the following business day. If all exchanges fail to open or in other extreme circumstances, S&P may determine not to publish the index for that day.

*Recalculation Policy*

S&P reserves the right to recalculate and republish the S&P/ASX 200 Index at its discretion in the event one of the following issues has occurred: (1) incorrect or revised closing price of one or more constituent securities; (2) missed corporate event; (3) incorrect application of corporate action or index methodology; (4) late announcement of a corporate event; or (5) incorrect calculation or data entry error. The decision to recalculate the S&P/ASX 200 Index is made at the discretion of the index manager and/or index committee, as further discussed below. The potential market impact or disruption resulting from the potential recalculation is considered when making any such decision. In the event of an incorrect closing price, a missed corporate event or a misapplied corporate action, a late announcement of a corporate event, or an incorrect calculation or data entry error that is discovered within two trading days of its occurrence, the index manager may, at his or her discretion, recalculate the S&P/ASX 200 Index without involving the index committee. In the event any such event is discovered beyond the two trading day period, the index committee shall decide whether the S&P/ASX 200 Index should be recalculated. In the event of an incorrect application of the methodology that results in the incorrect composition and/or weighting of index constituents, the index committee shall determine whether or not to recalculate the S&P/ASX 200 Index following specified guidelines. In the event that the S&P/ASX 200 Index is recalculated, it shall be done

within a reasonable timeframe following the detection and review of the issue.

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*Calculations and Pricing Disruptions*

Prices used to calculate the S&P/ASX 200 Index are obtained from IDC and Thomson Reuters. If the relevant exchange suffers a failure or interruption, real-time calculations are halted until the exchange confirms that trading and price dissemination has resumed.

If the interruption is not resolved before the market close and the exchange publishes a list of closing prices, those prices are used to calculate the closing value of the S&P/ASX 200 Index. If no list is published, the last trade for each security before the interruption is used to calculate the closing value of the S&P/ASX 200 Index. If no trades were reported for a security, the previous close adjusted for corporate actions is used for index calculation.

In extreme circumstances, S&P may decide to delay index adjustments or not publish the S&P/ASX 200 Index.

*Unexpected Exchange Closures*

An unexpected market/exchange closure occurs when a market/exchange fully or partially fails to open or trading is temporarily halted. This can apply to a single exchange or to a market as a whole, when all of the primary exchanges are closed and/or not trading. Unexpected market/exchange closures are usually due to unforeseen circumstances, such as natural disasters, inclement weather, outages, or other events.

In the event of an unexpected exchange closure, S&P uses the following guidelines:

- (i) If an unexpected exchange closure occurs prior to the open of trading and it is indicated that trading will not open for a given day, S&P Dow Jones Indices will treat the day as an unscheduled market holiday.
  
- (ii) If a market disruption occurs intraday, S&P will wait for the impacted exchange to publish a list of closing prices, which will then be used to calculate the closing index values. If no list is published, the last trade for each security before the interruption is used to calculate the index closing value. If no trades were reported for a security, the previous closing price, adjusted for corporate actions, is used for index calculation.

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**The Hang Seng China Enterprises Index**

The Hang Seng China Enterprises Index (also referred to herein as the index ):

- is an equity index, and therefore cannot be invested in directly;
- does not file reports with the SEC because it is not an issuer;
- was first launched on August 8, 1994 based on an initial value of 1,000 but was rebased with a value of 2,000 as at January 3, 2000; and
- is sponsored by Hang Seng Indexes Company Limited ( HSI Company Limited ), a wholly-owned subsidiary of Hang Seng Bank.

The Hang Seng China Enterprises Index is a free-float market capitalization weighted stock market index compiled, published and managed by HSI Company Limited. The Hang Seng China Enterprises Index serves as a benchmark to track the performance of mainland securities primarily listed on the Main Board of the Stock Exchange of Hong Kong Ltd. ( HKEX ). A mainland security is

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defined as a Hong Kong-listed security that has at least 50% of its sales revenue (or profit or assets, if relevant) derived from the mainland. Mainland securities include H-shares, Red-chips and P-chips. A Red-chip is a mainland security with a minimum 30% of its shareholdings held by a mainland entity or entities (including state-owned organisations and provincial or municipal authorities of the mainland). A P-chip is a mainland security that is not classified as an H-share or a Red-chip. H-shares are Hong Kong listed shares, traded in Hong Kong dollars, of Chinese enterprises. Additional information about the Hang Seng China Enterprises Index is available on the following website: [hsi.com.hk/HSI-Net/HSI-Net](http://hsi.com.hk/HSI-Net/HSI-Net). Additional information about the HKEX is available on the following website: [hkex.com.hk](http://hkex.com.hk). We are not incorporating by reference the websites or any material they include in this pricing supplement.

The underlier sponsor divides the Hang Seng China Enterprises Index into industry sectors. Sector designations are determined by the underlier sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index

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sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.

**Top Ten Constituent Stocks by Weight**

**as of November 30, 2018**

<b>Stock</b>	<b>Percentage (%)*</b>
Ping An	10.11
ICBC	9.85
CCB	9.81
Bank of China	7.14
China Mobile	5.93
Tencent	5.67
Sinopec Corp	4.46
CM Bank	3.32
China Life	3.29
Petrochina	3.04

\*Information on constituent stocks is available at [https://www.hsi.com.hk/static/uploads/contents/en/dl\\_centre/factsheets/hsceie.pdf](https://www.hsi.com.hk/static/uploads/contents/en/dl_centre/factsheets/hsceie.pdf)

**Stock Weightings by Sector**

**as of November 30, 2018**

<b>Sector</b>	<b>Percentage (%)*</b>
Energy	12.01
Materials	0.00
Industrial Goods	0.84
Consumer Goods	6.03
Consumer Services	0.41
Telecommunications	7.39
Utilities	2.19
Financials	59.66
Properties & Construction	4.89
Information Technology	5.67
Conglomerates	0.91

\*Information on industry weightings is available at

[https://www.hsi.com.hk/static/uploads/contents/en/dl\\_centre/factsheets/hsceie.pdf](https://www.hsi.com.hk/static/uploads/contents/en/dl_centre/factsheets/hsceie.pdf)

Percentages may not sum to 100% due to rounding.

*Composition and Selection Criteria*

The universe of possible constituent stocks of the Hang Seng China Enterprises Index is comprised of mainland securities primarily listed on the Main Board of the HKEX, excluding stocks that are secondary listings, preference shares, debt securities, mutual funds and other derivatives. It is expected that a collective total of 10 Red-chips and P-chips will be added to the Hang Seng China Enterprises Index with the regular index rebalancing in March 2018, bringing the total number of index constituents to 50. Due to the different risk profiles of Red-chips and P-chips as compared to H-shares, different eligibility screenings are applied for potential incoming Red-chips and P-chips constituents than are applied to potential H-shares constituents.

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*H-shares Selection*

From the universe of all eligible H-share companies, constituent stocks are removed from or added to the Hang Seng China Enterprises Index quarterly based on the following eligibility screening and selection process:

- *Listing history requirement.* Constituent stocks should be listed for at least one month starting from the listing date to the review cut-off date (both dates inclusive).
- *Turnover screening.* Turnover velocity in each of the past 12 months is calculated for each stock as the *quotient* of the median of daily traded shares in a specific calendar month *divided by* the free-float-adjusted issued shares at month end. A stock is regarded as passing the monthly turnover test if it attains a minimum velocity of 0.1% in that month.
- *High shareholding concentration.* Constituent stocks with high shareholding concentration according to the High Shareholding Concentration Announcement posted on the Securities and Futures Commission's website will not be eligible for inclusion in the index.
- *New constituents.* A new constituent stock must have maintained a 0.1% turnover velocity for at least ten out of the past 12 months and in each of the three most recent months.
- *Existing constituents.* An existing constituent stock must have maintained 0.1% turnover velocity for at least ten out of the past 12 months or, for months when an existing constituent does not meet the 0.1% turnover velocity, it must have had a monthly aggregate turnover among the top 90th percentile of the total market, where the total market is defined as including securities primarily listed on the Main Board of the HKEX, excluding securities that are secondary listings, foreign companies, preference shares, debt securities, mutual funds or other derivatives.
- *Constituents with less than 12 months trading history.* A stock with a trading history of less than six months must have attained a minimum turnover velocity of 0.1% for all trading months. A stock with a trading history of at least six months, but less than 12 months, may not have more than one month in which it has failed to attain a velocity of at least 0.1% and, for the latest three months, must have attained 0.1% for all trading months if the stock is not an existing constituent. The criteria in the preceding two sentences also applies to a stock that has transferred from Growth Enterprise Market to the Main Board of the HKEX in the 12 months before the data review cut-off date at the end of each fiscal quarter (March, June, September and December).

The eligible H-share stocks are ranked by highest combined market capitalization. Existing H-share constituents ranked 49th or lower are removed from the Hang Seng China Enterprises Index while non-constituents ranked 32nd or higher are included. Stocks will thereafter be removed (by lowest combined market capitalization) or added (by highest combined market capitalization) until the number of H-share constituents reaches 40. Combined market capitalization is the sum of (i) full market capitalization, in terms of average month-end market capitalization in the past 12 months, and (ii) free-float-adjusted market capitalization, in terms of 12-month average market capitalization after free-float adjustment, each weighted by 50%. The average of the past month-end market capitalization since listing is used for stocks with a listing history of less than 12 months. If two stocks have the same combined market capitalization ranking, a higher rank is assigned to the stock with the higher full market capitalization.

*P-chip and Red-chip Selection*

Along with the eligibility criteria applied to eligible H-share companies, P-chip and Red-chip companies must meet the following additional eligibility criteria:

- *Listing history requirement.* Constituent stocks listed through an IPO should be listed for at least three years, starting from the listing date to the review cut-off date (both dates

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inclusive); constituent stocks listed through a backdoor listing should be listed for at least six years starting from the listing date to the review cut-off date (both dates inclusive).

- *Price volatility.* The past one-month, three-month and twelve-month historical price volatility (i.e., standard deviation of the daily logarithmic return for the past one, three and 12 months to the data cut-off date) of a potential constituent should not be more than three times the historical price volatility for the index for the respective period.
- *Financial.* A company's net profit attributable to its equity holders, net cash generated from operating activities and cash dividends must be greater than zero for the past three consecutive fiscal years.
- *No suspension.* A stock will not be eligible if its trading has been suspended for a complete month in the past one month before the review cut-off date.

Like the eligible H-shares companies, the eligible P-chip and Red-chip companies are ranked by highest combined market capitalization for selection. The top ten eligible Red-chip and P-chip stocks with the highest combined market capitalization will be selected as constituents of the index. No buffer zone will be applied for these ten constituents. Red-chip and P-chip constituents will remain unchanged until the end of the transition period (i.e., until the March 2019 rebalancing). However, Hang Seng Indexes Company Ltd retains the right to make changes to the Red-chip and P-chip constituents in the case of any exceptional circumstances.

The 10 additional P-chip and Red-chip constituents will initially be added to the Hang Seng China Enterprises Index in five phases over a period of twelve months beginning with the rebalancing in March 2018. Throughout the transition period (from March 2018 rebalancing to March 2019 rebalancing), constituent selection for Red-chips and P-chips will only be performed once at the beginning of the transition period. The data cut-off date was December 31, 2017. In March 2018, the 10 constituents will be added to the Hang Seng China Enterprises Index with an inclusion factor of 0.2 and an adjusted cap level of 2%. Over each quarterly rebalancing, the inclusion factor and adjusted cap level will be incrementally increased until the inclusion factor is equal to 1.0 and the adjusted cap level is equal to 10% in connection with the March 2019 rebalancing. The inclusion factors for the rebalancings are listed below:

Rebalancing Month	Inclusion Factor
March 2018	0.2
June 2018	0.4
September 2018	0.6
December 2018	0.8
March 2019	1.0

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The underlier sponsor divides the Hang Seng China Enterprises Index into eleven industry sectors: Conglomerates, Consumer Goods, Consumer Services, Energy, Financials, Industrials, Information Technology, Materials, Properties & Construction, Telecommunications and Utilities.

### *Calculation Methodology*

The Hang Seng China Enterprises Index is calculated using a free-float-adjusted market-weighted capitalization methodology. The discussion below describes the price return calculation of the Hang Seng China Enterprises Index. The applicable pricing supplement will describe the calculation if the underlier for your notes is not the price return calculation. Under this methodology, the following shareholdings, when exceeding 5% of shareholdings in the company on an individual basis, are viewed as non-free float and are excluded for index calculation purposes:

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- Strategic holdings: shares held by governments and affiliated entities or any other entities which hold substantial shares in a company are considered as non-free float unless otherwise proved;
- Directors and management holdings: shares held by directors, members of the board committee, principal officers or founding members;
- Corporate cross-holdings: shares held by publicly traded companies or private firms/institutions; and
- Lock-up shares: shares that are subject to a publicly disclosed lock-up arrangement.

A free-float adjustment factor representing the proportion of shares that is free floated as a percentage of the issued shares is rounded up to the nearest whole percentage for free-float adjustment factors of less than 10% and is otherwise rounded up to the nearest multiple of 5%. Free-float adjustment factors are reviewed quarterly. For companies with more than one class of shares, free-float adjustment factors will be calculated separately for each class of shares. A cap of 10% on individual stock weightings is applied, such that no individual constituent in the index will have a weighting exceeding a predetermined cap level on the index capping date.

The Hang Seng China Enterprises Index is calculated and disseminated every 2 seconds during trading hours on each trading day of the HKEX and is calculated as the *product* of (i) the current aggregate free-float-adjusted market capitalization of constituents *divided* by the previous trading day's aggregate free-float-adjusted market capitalization of constituents, (ii) *multiplied* by the previous trading day's closing index level. The current aggregate free-float-adjusted market capitalization of constituents on any trading day is the *sum* of the current free-float-adjusted market capitalizations of the constituents, which for each constituent is the *product* of the current price of the constituent, the actual total number of each class of H-shares issued by the constituent, the free-float adjustment factor for the constituent (which is between zero and 1) *and* the cap factor for the constituent (which is between zero and 1). A cap factor is calculated quarterly, such that no individual constituent in the index will have a weighting exceeding 10% on the index capping date. The previous trading day's aggregate free-float-adjusted market capitalization of constituents is the *sum* of the previous trading day's free-float-adjusted market capitalizations of the constituents, which for each constituent is the *product* of the closing price of the constituent on the previous trading day, the actual total number of each class of H-shares issued by the constituent, the free-float adjustment factor for the constituent (which is between zero and 1) *and* the cap factor for the constituent (which is between zero and 1), in each case as determined on that trading day.

*Index Rebalancing*

The adjustment of the free-float adjustment factor, the calculation of the cap factor, and the update of issued shares is undertaken quarterly.

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The index may also be adjusted on an ad hoc basis in the event of certain corporate actions and events. A minimum notice period of two trading days will be given to index users for any ad hoc rebalancing. For corporate actions, including bonus issues, listed distributions of stock of another company, rights issues, stock splits and stock consolidations, the issued shares will be updated simultaneously with the corporate action adjustment and will take effect on the ex-date. Other corporate events, including placing and issuance of new shares, will result in an adjustment to the free-float factor if the number of free-float issued shares changes by more than 10%. After the update, the index will be recapped if the weighting of any capped constituent fell below 5 percentage points from the cap level, or the weighting of any constituent is higher than 5 percentage points above the cap level.

Initial weightings of the Red-chip and P-chip constituents are derived in accordance with their free-float adjusted market capitalization and are capped at 10%. The initial weightings of the 10 Red-chip and P-chip constituents will be multiplied by the applicable inclusion factor for that particular rebalancing. The resultant figures will be the final weightings for the Red-chip and P-chip constituents. Any excessive

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weightings arising from the application of the inclusion factors will be re-distributed to H-share constituents with weightings of less than 10% in proportion to their original weightings. If, subsequent to the re-distribution, H-share constituents with weightings of more than 10% emerge, they will be capped at 10% and the excessive weightings will be re-distributed to the H-share constituents with weightings of less than 10% in proportion to their redistributed weightings. The last step will be repeated until none of the constituents has a weighting of more than 10%.

In the event of ad hoc constituent changes, the index will only be recapped if the weighting of a newly included constituent is higher than the cap level. For ad hoc constituent deletion, no recapping will be undertaken.

*Trading Halt or Suspension*

Whether or not to remove a suspended constituent from the Hang Seng China Enterprises Index and replace it with an appropriate candidate will be determined in the regular index reviews. Should a suspended constituent be removed from the Hang Seng China Enterprises Index, its last traded price may be adjusted down to the lowest price in the system (i.e. \$0.0001 in the security's price currency) or an official residual price (if available) will be used for index calculation on the trading day preceding the effective date of the constituent changes. In the event of a trading halt or suspension, the last traded price will be used for index calculation, regardless of the duration of the halt or suspension. In exceptional circumstances, a suspended constituent may be retained in the index only if it is believed that its shares are highly likely to resume trading in the near future.

Where the HKEX considers it necessary for the protection of the investor or the maintenance of an orderly market, it may at any time direct a trading halt or suspend dealings in any securities or cancel the listing of any securities in such circumstances and subject to such conditions as it thinks fit, whether requested by the listed issuer or not. The HKEX may also do so where: (1) an issuer fails, in a manner which the HKEX considers material, to comply with the HKEX listing rules; (2) the HKEX considers there are insufficient securities in the hands of the public; (3) the HKEX considers that the listed issuer does not have a sufficient level of operations or sufficient assets to warrant the continued listing of the issuer's securities; or (4) the HKEX considers that the issuer or its business is no longer suitable for listing.

In the following circumstances, when an announcement cannot be made promptly, an issuer must apply for a trading halt or suspension of its own accord, and such request for a trading halt or suspension will normally be acceded to: (1) where the issuer has information that, in the view of the HKEX, there is or there is likely to be a false market (i.e., where there is material misinformation or materially incomplete information in the market which is compromising proper price discovery) in the issuer's securities; (2) where the issuer reasonably believes that there is inside information which must be disclosed under the HKEX's inside information rules; or (3) where the issuer reasonably believes or it is reasonably likely that confidentiality may have been lost in respect of certain inside information.

In the following circumstances, pending an announcement, an issuer must apply for a trading halt or suspension of its own accord, and such request for a trading halt or suspension will normally be acceded to: (1) where the issuer has signed an agreement in respect of a share transaction, major transaction, very substantial disposal, very substantial acquisition or reverse takeover and the required announcement has not been published on a business day; (2) where the issuer has signed an agreement in respect of a notifiable transaction, which the issuer reasonably believes would require disclosure under the HKEX's inside information rules; or (3) where the issuer has finalized the major terms of an agreement in respect of a notifiable transaction, which the issuer reasonably believes would require disclosure under the HKEX's inside information rules, and the issuer considers that the necessary degree of security cannot be maintained or that the security may have been breached.

An issuer may request a suspension (other than a trading halt), and such request will normally only be acceded to in the following circumstances: (1) where the issuer is subject to an offer, but only where terms have been agreed in principle and require discussion with, and agreement by, one or more major shareholders (suspensions in such cases will normally only be appropriate where no previous

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announcement has been made); (2) to maintain an orderly market as determined by the HKEX; (3) where there is an occurrence of certain levels of notifiable transactions, such as substantial changes in the nature, control or structure of the issuer, where publication of full details is necessary to permit a realistic valuation to be made of the securities concerned, or the approval of shareholders is required; (4) where the issuer is no longer suitable for listing, or become