

# JPMORGAN CHASE & CO.

## ***Notes Linked to an Index or a Weighted Basket of Components***

JPMorgan Chase & Co. may, from time to time, offer and sell notes linked to an index or a weighted basket of components. This index supplement no. 1-I describes potential indices to which the notes may be linked, as well as related matters concerning the relationship, if any, between JPMorgan Chase & Co. and the sponsor or publisher of the indices. Additional terms that will generally apply to the notes are described in the accompanying product supplement. This index supplement no. 1-I supplements the terms described in the accompanying product supplement, prospectus supplement and prospectus. A separate term sheet or pricing supplement, as the case may be, will describe terms that apply specifically to the notes, including any changes to description of the relevant index or indices specified below. We refer to such term sheets and pricing supplements generally as terms supplements. If the terms described in the relevant terms supplement are inconsistent with those described herein or in any other related index or fund supplement (each of which we generally refer to as an underlying supplement), or in the accompanying product supplement, prospectus supplement or prospectus, the terms described in the relevant terms supplement will control. In addition, if this index supplement no. 1-I and the accompanying product supplement contains information relating to the same index to which the notes are linked, the information contained in the document with the most recent date will control.

**Investing in the notes involves a number of risks. See "Risk Factors" in the accompanying product supplement and "Risk Factors" beginning on page IS-1 of this index supplement no. 1-I.**

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the notes or passed upon the accuracy or the adequacy of this index supplement no. 1-I, any other related underlying supplement, the accompanying product supplement, prospectus supplement and prospectus or any related terms supplement. Any representation to the contrary is a criminal offense.

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

J.P.Morgan

March 11, 2009

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This index supplement no. 1-I describes potential indices to which the notes may be linked and the relationship, if any, between JPMorgan Chase & Co. and the sponsor or publisher of the indices. If the terms described in the relevant terms supplement are inconsistent with those described herein or in any other related index or fund supplement (each of which we generally refer to as an underlying supplement), or in the accompanying product supplement, prospectus supplement or prospectus, the terms described in the relevant terms supplement will control. In addition, if this index supplement no. 1-I and the accompanying product supplement contains information relating to the same index to which the notes are linked, the information contained in the document with the most recent date will control. Any relevant terms supplement should also be read in connection with this index supplement no. 1-I, any other related underlying supplement and the accompanying product supplement, prospectus supplement and prospectus.

In making your investment decision, you should rely only on the information contained or incorporated by reference in the terms supplement relevant to your investment, this index supplement no. 1-I, any other related underlying supplement and the accompanying product supplement, prospectus supplement and prospectus with respect to the notes offered by the relevant terms supplement, this index supplement no. 1-I, any other related underlying supplement and the accompanying product supplement and with respect to JPMorgan Chase & Co. This index supplement no. 1-I, together with the relevant terms supplement, any other related underlying supplement and the accompanying product supplement, prospectus and prospectus supplement, contains the terms of the notes and supersedes all other prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of ours. The information in the relevant terms supplement, this index supplement, any other related underlying supplement and the accompanying product supplement, prospectus supplement and prospectus may only be accurate as of the dates of each of these documents, respectively.

The notes described in the relevant terms supplement, this index supplement no. 1-I, any other related underlying supplement and the accompanying product supplement are not appropriate for all investors, and involve important legal and tax consequences and investment risks, which should be discussed with your professional advisers. You should be aware that the regulations of the Financial Industry Regulatory Authority, or FINRA, and the laws of certain jurisdictions (including regulations and laws that require brokers to ensure that investments are suitable for their customers) may limit the availability of the notes. The relevant terms supplement, this index supplement no. 1-I, any other related underlying supplement and the accompanying product supplement, prospectus supplement and prospectus do not constitute an offer to sell or a solicitation of an offer to buy the notes in any circumstances in which such offer or solicitation is unlawful.

In this index supplement no. 1-I, “we,” “us” and “our” refer to JPMorgan Chase & Co., unless the context requires otherwise. To the extent applicable, each of the indices described in this index supplement no. 1-I are deemed to be one of the “Equity Indices” or “Basket Indices” referred to in the accompanying product supplement.

## RISK FACTORS

*Your investment in the notes will involve certain risks. Investing in the notes is not equivalent to investing in any of the indices described herein or any of their component securities. You should consider carefully the risks discussed under "Risk Factors" in the accompanying product supplement and in any other related underlying supplement, together with the following discussion of additional risks, before you decide that an investment in the notes is suitable for you.*

**The notes will not be adjusted for changes in exchange rates that might affect the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index and the MSCI Taiwan Index.**

Although the equity securities composing the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index and the MSCI Taiwan Index are traded in currencies other than U.S. dollars, and the notes are denominated in U.S. dollars, the amount payable on the notes at maturity will not be adjusted for changes in the exchange rate between the U.S. dollar and each of the currencies in which the equity securities composing the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index and the MSCI Taiwan Index are denominated. Changes in exchange rates, however, may reflect changes in various non-U.S. economies that in turn may affect payments on the notes. The amount we pay in respect of the notes on the maturity date or on any other relevant payment dates, if any, will be determined solely in accordance with the procedures described in "Description of Notes" of the accompanying product supplement.

**The sponsor of the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index (together with the sponsor of a Commodity Index, each an "Index Sponsor") may adjust the applicable index in a way that affects its level, and such Index Sponsor has no obligation to consider your interests.**

The Index Sponsor of the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index is responsible for calculating and maintaining the applicable index. The applicable Index Sponsor can add, delete or substitute the equity securities underlying the applicable index or make other methodological changes that could change the level of such index. You should realize that the changing of equity securities included in the applicable index may affect such index, as a newly added equity security may perform significantly better or worse than the equity security or securities it replaces. Additionally, the applicable Index Sponsor may alter, discontinue or suspend calculation or dissemination of such index. Any of these actions could adversely affect the value of the notes. The Index Sponsor of the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index has no obligation to consider your interests in calculating or revising the applicable index. See the relevant index description section below for additional information.

**To our knowledge, we are not currently affiliated with any company included in the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index.**

To our knowledge, we are not currently affiliated with any of the companies the equity securities of which are included in the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index. As a result, we will have no ability to control the actions of such companies, including actions that could affect the value of the stocks underlying the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index or your notes. None of the money you pay us will go to the applicable index sponsors or any of the companies included in the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index, and none of those companies will be involved in the offering of the notes in any way. Neither they nor we will have any obligation to consider your interests as a holder of the notes in taking any corporate actions that might affect the value of your notes.

**An investment in notes linked to the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index is subject to risks associated with non-U.S. securities markets.**

The equity securities that compose the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index have been issued by non-U.S. companies. Investments in securities linked to the value of such non-U.S. equity securities involve risks associated with the securities markets in those countries, including risks of volatility in those markets, governmental intervention in those markets and cross shareholdings in companies in certain countries. Also, there is generally less publicly available information about companies in some of these jurisdictions than about U.S. companies that are subject to the reporting requirements of the Securities and Exchange Commission (the "SEC"), and generally non-U.S. companies are subject to accounting, auditing and financial reporting standards and requirements and securities trading rules different from those applicable to U.S. reporting companies.

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

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

Some or all of these factors may influence the closing level of the Hang Seng® Index, the Hang Seng China Enterprises Index, the Korea Stock Price Index 200, the MSCI Singapore Index or the MSCI Taiwan Index. The impact of any of the factors set forth above may enhance or offset some or all of any change resulting from another factor or factors. You cannot predict the future performance of such indices based on their historical performance.

## THE HANG SENG® INDEX

We have derived all information contained in this index supplement regarding the Hang Seng® Index, including, without limitation, its make-up, method of calculation and changes in its components, from publicly available information. Such information reflects the policies of, and is subject to change by, HSI Services Limited ("HSI"), a wholly owned subsidiary of Hang Seng Bank. We make no representation or warranty as to the accuracy or completeness of such information. The Hang Seng® Index is calculated, maintained and published by HSI. HSI has no obligation to continue to publish, and may discontinue publication of, the Hang Seng® Index.

The Hang Seng® Index was first calculated and published on November 24, 1969. The Hang Seng® Index is a free-float adjusted market capitalization weighted stock market index of The Stock Exchange of Hong Kong Ltd. ("HKSE") and purports to be an indicator of the performance of the Hong Kong stock market. The Hang Seng® Index is reported by Bloomberg L.P. under the ticker symbol "HSI."

### Index Composition

Only companies with a primary listing on the main board of the HKSE are eligible as constituents of the Hang Seng® Index. Mainland China enterprises that have an H-share listing in Hong Kong are eligible for inclusion in the Hang Seng® Index when they meet any one of the following conditions: (1) the H-share company has 100% of its ordinary share capital in the form of H-shares which are listed on the HKSE; (2) the H-share company has completed the process of share reform, with the result that there is no unlisted share capital in the company; or (3) for new H-share initial public offerings, the company has no unlisted share capital. For any H-share company included in the Hang Seng® Index, only the H-share portion of the share capital of the company will be used for index calculation, subject to free float adjustment. H-shares are shares of mainland China companies listed on HKSE.

To be eligible for selection in the Hang Seng® Index, a company: (1) must be among those that constitute the top 90% of the total market value of all primary shares listed on the HKSE (market value is expressed as an average of the past 12 months); (2) must be among those that constitute the top 90% of the total turnover of all primary listed shares on the HKSE (turnover is aggregated and individually assessed for eight quarterly sub-periods for the past 24 months); and (3) should normally have a listing history of 24 months. From the candidates, final selections are based on the following: (1) the market value and turnover rankings of the companies; (2) the representation of the sub-sectors within the Index directly reflecting that of the market; and (3) the financial performance of the companies.

A constituent of the Hang Seng® Index will be removed from the Hang Seng® Index if it has been suspended from trading for one month. Such a constituent may be retained in the Hang Seng® Index only in exceptional circumstances if it is believed that it is highly likely that the constituent will resume trading in the near future.

### Hang Seng® Index Calculation

From September 11, 2006, and phased in over a period of 12 months to September 2007, the calculation methodology of the Hang Seng® Index has been changed from a full market capitalization weighting to a free float-adjusted market capitalization weighting. Under this calculation methodology, the following shareholdings are viewed as strategic in nature and excluded for calculation: shares held by strategic shareholders who individually or collectively control more than 30% of the shareholdings; shares held by directors who individually control more than 5% of the shareholdings; shares held by a Hong Kong-listed company which controls more than 5% of the shareholdings as investments; and shares held by a shareholders who individually or collectively represent more than 5% of the shareholdings in the company and with a publicly disclosed lock-up management. 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 multiple of 5% for the calculation of the Hang Seng® Index and is updated half-yearly.

A cap of 15% on individual stock weightings is applied. A cap factor is calculated half-yearly to coincide with the regular update of the free float adjustment factor. Additional re-capping is performed upon constituent changes.

## **The Stock Exchange of Hong Kong Ltd.**

Trading on the HKSE is fully electronic through an Automatic Order Matching and Execution System. The system is an electronic order book in which orders are matched and executed instantaneously if there are matching orders in the book, and on the basis of time/price priority. On-line real-time order entry and execution have eliminated the previous limitations of telephone-based trading. Trading takes place through trading terminals on the trading floor. There are no market-makers on the HKSE, but exchange dealers may act as dual capacity broker-dealers. Trading is undertaken from 10:00 a.m. to 12:30 p.m. and then from 2:30 p.m. to 3:55 p.m. (Hong Kong time) every Hong Kong day except Saturdays, Sundays and other days on which the HKSE is closed. Hong Kong time is 12 hours ahead of Eastern Daylight Savings Time and 13 hours ahead of Eastern Standard Time. Settlement of trade is required within 48 hours and is conducted by electronic book-entry delivery through the Central Clearing and Settlement System.

Due to the time differences between New York City and Hong Kong, on any normal trading day, trading on the HKSE currently will cease at 12:30 a.m. or 3:55 a.m., Eastern Daylight Savings Time, or 11:30 p.m. or 2:55 a.m., Eastern Standard Time.

The HKSE has adopted certain measures intended to prevent any extreme short-term price fluctuations resulting from order imbalances or market volatility. Where the HKSE considers it necessary for the protection of the investor or the maintenance of an orderly market, it may at any time 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 HKSE may also do so where: (1) an issuer fails, in a manner which the HKSE considers material, to comply with the HKSE Listing Rules or its Listing Agreements; (2) the HKSE considers there are insufficient securities in the hands of the public; (3) the HKSE 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 HKSE considers that the issuer or its business is no longer suitable for listing. Investors should also be aware that the HKSE may suspend the trading of individual stocks in certain limited and extraordinary circumstances, until certain price-sensitive information has been disclosed to the public. Trading will not be resumed until a formal announcement has been made. Trading of a company's shares may also be suspended if there is unusual trading activity in such shares.

An issuer may apply for suspension of its own accord. A suspension request will normally only be acceded to in the following circumstances: (1) where, for a reason acceptable to the HKSE, price-sensitive information cannot at that time be disclosed; (2) 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 will only normally be appropriate where no previous announcement has been made); (3) to maintain an orderly market; (4) 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; (5) where the issuer is no longer suitable for listing, or becomes a "cash" company; or (6) for issuers going into receivership or liquidation. As a result of the foregoing, variations in the Index may be limited by suspension of trading of individual equity securities which compose the Index which may, in turn, adversely affect the value of the notes.

## **Licensing Agreement with HSI Services Limited**

We have entered into an agreement with HSI providing us and certain of our affiliates or subsidiaries identified in that agreement with a non-exclusive license and, for a fee, with the right to use the Hang Seng® Index, which is owned and published by HSI, in connection with certain securities, including the notes.

The Hang Seng® Index is published and compiled by HSI Services Limited pursuant to a license from Hang Seng Data Services Limited. The mark and name of the Hang Seng® Index are proprietary to Hang Seng Data Services Limited. HSI Services Limited and Hang Seng Data Services Limited have agreed to the use of, and reference to, the Hang Seng® Index by JP Morgan Chase & Co., in connection with the notes (the "Product"), **BUT NEITHER HSI SERVICES LIMITED NOR HANG SENG DATA SERVICES LIMITED WARRANTS OR REPRESENTS OR GUARANTEES TO ANY BROKER OR HOLDER OF THE PRODUCT OR ANY OTHER PERSON (i) THE ACCURACY OR COMPLETENESS OF THE INDEX AND ITS COMPUTATION OR ANY INFORMATION RELATED THERETO; OR (ii) THE FITNESS OR SUITABILITY FOR ANY PURPOSE OF THE INDEX OR ANY COMPONENT OR DATA COMPRISED IN IT; OR (iii) THE RESULTS WHICH MAY BE OBTAINED BY ANY PERSON FROM THE USE OF THE INDEX OR ANY COMPONENT OR DATA COMPRISED IN IT FOR ANY PURPOSE, AND NO WARRANTY OR REPRESENTATION OR GUARANTEE OF ANY KIND WHATSOEVER RELATING TO THE INDEX IS GIVEN OR MAY BE IMPLIED.** The process and basis of computation and compilation of the Hang Seng® Index and any of the related formula or formulae, constituent stocks and factors may at any time be changed or altered by HSI Services Limited without notice. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, NO RESPONSIBILITY OR LIABILITY IS ACCEPTED BY HSI SERVICES LIMITED OR HANG SENG DATA SERVICES LIMITED (i) IN RESPECT OF THE USE OF AND/OR REFERENCE TO THE INDEX BY JP MORGAN CHASE & CO. IN CONNECTION WITH THE PRODUCT; OR (ii) FOR ANY INACCURACIES, OMISSIONS, MISTAKES OR ERRORS OF HSI SERVICES LIMITED IN THE COMPUTATION OF THE HANG SANG® INDEX; OR (iii) FOR ANY INACCURACIES, OMISSIONS, MISTAKES, ERRORS OR INCOMPLETENESS OF ANY INFORMATION USED IN CONNECTION WITH THE COMPUTATION OF THE INDEX WHICH IS SUPPLIED BY ANY OTHER PERSON; OR (iv) FOR ANY ECONOMIC OR OTHER LOSS WHICH MAY BE DIRECTLY OR INDIRECTLY SUSTAINED BY ANY BROKER OR HOLDER OF THE PRODUCT OR ANY OTHER PERSON DEALING WITH THE PRODUCT AS A RESULT OF ANY OF THE AFORESAID, AN NO CLAIMS, ACTIONS OR LEGAL PROCEEDINGS MAY BE BROUGHT AGAINST HSI SERVICES LIMITED AND/OR HANG SEND DATA SERVICES LIMITED** in connection with the Product in any manner whatsoever by any broker, holder or other person dealing with the Product. Any broker, holder or other person dealing with the Product does so therefore in full knowledge of this disclaimer and can place no reliance whatsoever on HSI Services Limited and Hang Seng Data Services Limited. For the avoidance of doubt, this disclaimer does not create any contractual or quasi-contractual relationship between any broker, holder or other person and HSI Services Limited and/or Hang Seng Data Services Limited and must not be construed to have created such relationship.

## THE HANG SENG CHINA ENTERPRISES INDEX

We have derived all information contained in this index supplement regarding the Hang Seng China Enterprises Index, including, without limitation, its make-up, method of calculation and changes in its components, from publicly available information. Such information reflects the policies of, and is subject to change by, HSI Services Limited ("HSI"), a wholly owned subsidiary of Hang Seng Bank. We make no representation or warranty as to the accuracy or completeness of such information. The Hang Seng China Enterprises Index is calculated, maintained and published by HSI. HSI has no obligation to continue to publish, and may discontinue publication of, the Hang Seng China Enterprises Index.

The Hang Seng China Enterprises Index was launched on August 8, 1994 as a market-capitalization weighted index consisting of all the Hong Kong listed H-shares of Chinese enterprises one year after the first H-share company was listed on The Stock Exchange of Hong Kong Ltd. ("HKSE"). H-shares are Hong Kong listed shares, traded in Hong Kong dollars, of Chinese state-owned enterprises. With the launch of the 200-stock Hang Seng Composite Index ("HSCI") on October 3, 2001, the Hang Seng China Enterprises Index became part of the Hang Seng Composite Index Series (the "HSCI Series"). Since then, constituents of the Hang Seng China Enterprises Index comprise only the largest H-share companies included in the HSCI. The Hang Seng China Enterprises Index is reported by Bloomberg L.P. under the ticker symbol "HSEI."

### Index Composition

To be included in the HSCI and be eligible for inclusion in the Hang Seng China Enterprises Index, a component stock must have a primary listing on the Main Board of the HKSE, and the issuer of such component stock must not have (i) a secondary listing in Hong Kong, (ii) stocks listed on the Growth Enterprises Market or (iii) preference shares, debt securities or other derivatives. A component stock is removed from the HSCI following the semi-annual review process if (a) it experienced more than 20 trading days without turnover during the preceding 12 months (excluding days on which such component stock was suspended from trading) or (b) the component stock's 12-month average market capitalization rank falls to the 240th position or below. Component stocks with less than one year listing history are counted on a pro-rata basis. A component stock is added to the HSCI following the semi-annual review process if (a) it experienced less than 20 trading days without turnover during the preceding 12 months (excluding days on which such component stock was suspended from trading) and (b) the component stock's 12-month average market capitalization rank rises to the 160th position or above. The number of component stocks in the HSCI is fixed at 200, and, in the event that the number of component stocks that are removed from and added to the HSCI is not the same, the next highest ranking component stock will be added or the next lowest ranking component stock will be removed, as the case may be. H-Share companies joining or leaving the HSCI are automatically included or excluded from the Hang Seng China Enterprises Index.

### Index Calculation

The Hang Seng China Enterprises Index had a base value of 1,000 at launch, but was rebased on October 3, 2001 following the launch of the HSCI Series with a value of 2,000 on January 3, 2000 to align the Hang Seng China Enterprises Index with the HSCI Series.



The calculation methodology of the Hang Seng China Enterprises Index changed on March 6, 2006 to a free float-adjusted market capitalization methodology. This free float adjustment aims to exclude from the index calculation long-term core shareholdings that are not readily available for trading. A free float-adjusted factor, which represents the proportion of shares that are free-floating as a percentage of issued shares, is now used to adjust the number of shares for index calculation. A cap of 15% is placed on individual component stock weights in the Hang Seng China Enterprises Index, which are reviewed semi-annually to ensure that no one component stock dominates the Hang Seng China Enterprises Index. If any component stock exceeds 15% of the value of the Hang Seng China Enterprises Index, HSI will cap such component stock's representation in the Hang Seng China Enterprises Index at 15% until the next following semi-annual review. The following shareholdings are viewed as strategic in nature and are excluded from the Hang Seng China Enterprises Index calculation:

- shares held by strategic shareholder(s) who individually or collectively control more than 30% of the shareholdings;
- shares held by director(s) who individually control more than 5% of the shareholdings;
- shares held by a Hong Kong-listed company that controls more than 5% of the shareholdings as investments; and
- shares held by shareholder(s) who individually or collectively represent more than 5% of the shareholdings in the company and have a publicly disclosed lock-up arrangement.

#### **The Stock Exchange of Hong Kong Ltd.**

Trading on the HKSE is fully electronic through an Automatic Order Matching and Execution System. The system is an electronic order book in which orders are matched and executed instantaneously if there are matching orders in the book, and on the basis of time/price priority. On-line real-time order entry and execution have eliminated the previous limitations of telephone-based trading. Trading takes place through trading terminals on the trading floor. There are no market-makers on the HKSE, but exchange dealers may act as dual capacity broker-dealers. Trading is undertaken from 10:00 a.m. to 12:30 p.m. and then from 2:30 p.m. to 3:55 p.m. (Hong Kong time) every Hong Kong day except Saturdays, Sundays and other days on which the HKSE is closed. Hong Kong time is 12 hours ahead of Eastern Daylight Savings Time and 13 hours ahead of Eastern Standard Time. Settlement of trade is required within 48 hours and is conducted by electronic book-entry delivery through the Central Clearing and Settlement System.

Due to the time differences between New York City and Hong Kong, on any normal trading day, trading on the HKSE currently will cease at 12:30 a.m. or 3:55 a.m., Eastern Daylight Savings Time, or 11:30 p.m. or 2:55 a.m., Eastern Standard Time.

The HKSE has adopted certain measures intended to prevent any extreme short-term price fluctuations resulting from order imbalances or market volatility. Where the HKSE considers it necessary for the protection of the investor or the maintenance of an orderly market, it may at any time 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 HKSE may also do so where: (1) an issuer fails, in a manner which the HKSE considers material, to comply with the HKSE Listing Rules or its Listing Agreements; (2) the HKSE considers there are insufficient securities in the hands of the public; (3) the HKSE 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 HKSE considers that the issuer or its business is no longer suitable for listing. Investors should also be aware that the HKSE may suspend the trading of individual stocks in certain limited and extraordinary circumstances, until certain price-sensitive information has been disclosed to the public. Trading will not be resumed until a formal announcement has been made. Trading of a company's shares may also be suspended if there is unusual trading activity in such shares.

An issuer may apply for suspension of its own accord. A suspension request will normally only be acceded to in the following circumstances: (1) where, for a reason acceptable to the HKSE, price-sensitive information cannot at that time be disclosed; (2) 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 will only normally be appropriate where no previous announcement has been made); (3) to maintain an orderly market; (4) 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; (5) where the issuer is no longer suitable for listing, or becomes a "cash" company; or (6) for issuers going into receivership or liquidation. As a result of the foregoing, variations in the Index may be limited by suspension of trading of individual equity securities which compose the Index which may, in turn, adversely affect the value of the notes.

### **Licensing Agreement with HSI Services Limited**

We have entered into an agreement with HSI providing us and certain of our affiliates or subsidiaries identified in that agreement with a non-exclusive license and, for a fee, with the right to use the Hang Seng China Enterprises Index, which is owned and published by HSI, in connection with certain securities, including the notes.

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## THE KOREA STOCK PRICE INDEX 200

We have derived all information contained in this index supplement regarding the Korea Stock Price Index 200 (the "KOSPI 200"), including, without limitation, its make-up, method of calculation and changes in its components, from publicly available information. Such information reflects the policies of, and is subject to change by, Korea Exchange ("KRX"), the publisher of the KOSPI 200. We make no representation or warranty as to the accuracy or completeness of such information. The KOSPI 200 is calculated, maintained and published by KRX. KRX has no obligation to continue to publish, and may discontinue publication of, the KOSPI 200.

The KOSPI 200 is a capitalization-weighted index of 200 Korean blue-chip stocks which make up a large majority of the total market value of the Korea Stock Exchange ("KSE"). The KOSPI 200 is the underlying index for stock index futures and options trading. The constituent stocks are selected on a basis of the market value of the individual stocks, liquidity and their relative positions in their respective industry groups. The KOSPI 200 is reported by Bloomberg L.P. under the ticker symbol "KOSPI2."

### Selection Criteria

All common stocks listed on the KSE as of the periodic realignment date will be included in the selection process, except for the stocks which fall into one of the following categories:

- stocks with administrative issues;
- stocks with liquidation issues;
- stocks issued by securities investment companies;
- stocks that have been listed less than one year as of the last trading in April of the year in which the periodic review and selection process occurs;
- stocks belonging to the industry groups other than those industry groups listed below;
- a constituent stock merged into a non-constituent stock;
- a company established as a result of a merger between two constituent stocks; and
- any other stocks that are deemed unsuitable to be included in the constituents of the KOSPI 200.

The companies listed on the KOSPI 200 are classified into the following industry groups: (i) fisheries, (ii) mining, (iii) manufacturing, (iv) construction, (v) electricity and gas, (vi) services, (vii) post and communication and (viii) finance. The constituents of the KOSPI 200 are selected first from the non-manufacturing industry cluster, and then from the manufacturing industry cluster.

The constituents from the non-manufacturing industry cluster are selected in accordance with the following:

- Selection is made in descending order of market capitalization, from large to small, in the same industry group, while ensuring the accumulated market capitalization of the concerned industry group is within 70% of that of all industry groups.
- Notwithstanding the above, the stocks whose ranking of trading volume in descending order is below 85% of the stocks included in deliberation within the same industry group are excluded. In such case, the excluded stock is replaced by a stock that is next in ranking in market capitalization, but satisfies the trading volume criteria.

The constituents from the manufacturing industry cluster are selected in descending order of market capitalization, while excluding stocks whose ranking of trading volume in descending order is below 85% of the stocks included in the process within the same industry group. The excluded stock is replaced by a stock that is next in ranking in market capitalization, but satisfies the trading volume criteria.

Notwithstanding anything above, if a stock whose market capitalization is within the top 50 in terms of market capitalization, such stock may be included in the constituents of the KOSPI 200, by taking into consideration the influence that the industry group has on the KOSPI 200, as well as the liquidity of the concerned stock. Stocks to be placed on the replacement list are selected from the stocks included for deliberation, excluding those already selected as constituents of the KOSPI 200.

### **KOSPI 200 Calculation**

The KOSPI 200 is computed by multiplying (i) the market capitalization as of the calculation time divided by the market capitalization as of the base date, by (ii) 100. The base date of the KOSPI 200 is January 3, 1990 with a base index of 100. Market capitalization is obtained by multiplying the number of listed common shares of the constituents by the price of the concerned common share.

If the number of listed shares increases due to rights offering, bonus offering and stock dividend, which accompany ex-right or ex-dividend, such increase is included in the number of listed shares on the ex-right date or ex-dividend date.

Share prices refer to the market price established during the regular trading session. If no trading took place on such day, quotation price is used and if no quotation price is available, the closing price of the most recent trading day is used.

### **Stock Revision**

The constituents of the KOSPI 200 are realigned once a year while observing each of the following:

- An existing constituent will not be removed if the ranking of the market capitalization of such stock is within 100/110 of the ranking of the KOSPI 200 constituents of the same industry group;
- In order to be included in the constituents of the KOSPI 200, the ranking of the market capitalization of a stock must be within 90/100 of the ranking of the KOSPI 200 constituents of the same industry group;
- If the ranking of the market capitalization of an existing constituent falls below 100/110 of the ranking of the KOSPI 200 constituents of the same industry group, but there is no stock satisfying the requirement specified in the preceding clause, the existing constituent will not be removed; and
- When removing the existing constituents, a constituent whose ranking of market capitalization within the same industry group is the lowest will be removed first.

The periodic realignment date is the trading day following the day, which is the last trading day of June contracts of both the index futures and index options. In the event where a constituent of the KOSPI 200 falls under any of the following cases, such constituent shall be removed from the constituents and the removal date is as follows:

- Delisting: the trading day following the delisting date;
- Designation as administrative issue: the designation date;
- Merger: the day of trading halt; and
- It is determined that the stock is unsuitable as a constituent of the KOSPI 200: the trading day following the day of such determination, which is the last trading day of the nearest month contracts of both the index futures and index options, after the date of such decision.

When realigning the constituents of the KOSPI 200, the replacement stocks are chosen from the replacement list in accordance with the rank order. In the case of an industry group that has no stock listed on the replacement list, a replacement stock is chosen from the replacement list of manufacturing industry cluster.

## **The Korea Stock Exchange**

The KSE's predecessor, the Daehan Stock Exchange, was established in 1956. The KSE is a typical order-driven market, where buy and sell orders compete for best prices. The KSE seeks to maintain a fair and orderly market for trading and regulates and supervises its member firms.

Throughout the trading hours, orders are matched at a price satisfactory to both buy and sell sides, according to price and time priorities. The opening and closing prices, however, are determined by call auctions: at the market opening and closing, orders received for a certain period of time are pooled and matched at the price at which the most number of shares can be executed. The KSE uses electronic trading procedures, from order placement to trade confirmation. The KSE is open from 9:00 a.m. to 3:00 p.m., Korean time, during weekdays. Investors can submit their orders from 8:00 a.m., one hour before the market opening. Orders delivered to the market during the period from 8:00 a.m. to 9:00 a.m. are queued in the order book and matched by call auction method at 9:00 a.m. to determine opening prices. After opening prices are determined, the trades are conducted by continuous auctions until 2:50 p.m. (10 minutes before the market closing). Besides the regular session, the KSE conducts pre-hours and after-hours sessions for block trading and basket trading. During pre-hours sessions from 7:30 to 8:30 a.m., orders are matched at previous day's respective closing prices. After-hours sessions are open for 50 minutes from 3:10 p.m. to 4:00 p.m. During after-hours sessions, orders are matched at the closing prices of the day.

On January 26, 2004, the KSE introduced the random-end system at the opening and closing call auctions. The stated purpose of the random-end system is to prevent any distortion in the price discovery function of the KSE caused by "fake" orders placed with an intention of misleading other investors. In cases where the highest or lowest indicative price of a stock set during the last 5 minutes before the closing time of the opening (or closing) call session, 8:55-9:00 a.m. (or 2:55-3:00 p.m.), deviates from the provisional opening (or closing) price by 5% or more, the KSE delays the determination of the opening (or closing) price of the stock up to five minutes. The official opening (or closing) price of such stock is determined at a randomly chosen time within five minutes after the regular opening (or closing) time. The KSE makes public the indicative prices during the opening (or closing) call trading sessions. Pooling together all bids and offers placed during the order receiving hours for the opening (or closing) session, 8:10-9:00 a.m. (or 2:50-3:00 p.m.), the indicative opening (or closing) prices of all stocks are released to the public on a real-time basis.

The KSE sets a limit on the range that the price of individual stocks can change during a day. As of June 2004, that limit was set at 15%, which meant that the price of each stock could neither fall nor rise by more than 15% from the previous day's closing price. In addition, when the price and/or trading activities of a stock are expected to show an abnormal movement in response to an unidentified rumor or news, or when an abnormal movement is observed in the market, the KSE may halt the trading of the stock. In such cases, the KSE requests the company concerned to make a disclosure regarding the matter. Once the company makes an official announcement regarding the matter, trading can resume within an hour; however, if the KSE deems that the situation was not fully resolved by the disclosure, trading resumption may be delayed.

The KSE introduced circuit breakers in December 1998. The trading in the equity markets is halted for 20 minutes when the KOSPI 200 falls by 10% or more from the previous day's closing and the situation lasts for one minute or longer. The trading resumes by call auction where the orders submitted during the 10 minutes after the trading halt ended are matched at a single price.

### **License Agreement with Korea Exchange**

The notes are not sponsored, endorsed, sold or promoted by KRX, the successor of the Korea Stock Exchange who calculates the KOSPI 200 and owns the intellectual property rights over it. KRX makes no representation or warranty, express or implied, to the owners of the notes or any member of the public regarding the advisability of investing in securities generally or in the notes particularly or the ability of the KOSPI 200 to track general stock market performance. KRX's only relationship to JPMorgan Chase & Co. is the licensing of certain trademarks and trade names of KRX and of the KOSPI 200 which is determined, composed and calculated by KRX without regard to JPMorgan Chase & Co. or the notes. KRX has no obligation to take the needs of JPMorgan Chase & Co. or the owners of the notes into consideration in determining, composing or calculating the KOSPI 200. KRX is not responsible for and has not participated in the determination of the prices and amount of the notes or the timing of the issuance or sale of the notes or in the determination or calculation of the equation by which the notes is to be converted into cash. KRX has no obligation or liability in connection with the administration, marketing or trading of the notes.

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## THE MSCI INDICES

We have derived all information contained in this index supplement regarding the MSCI Singapore Index and the MSCI Taiwan Index (together, “the MSCI Indices”), including, without limitation, their make-up, method of calculation and changes in their components, from publicly available information. Such information reflects the policies of, and is subject to change by, MSCI. We make no representation or warranty as to the accuracy or completeness of such information. The MSCI Indices are calculated, maintained and published by MSCI. MSCI has no obligation to continue to publish, and may discontinue publication of, any of the MSCI Indices.

### Transition

On March 28, 2007, MSCI announced changes to the methodology used by MSCI to calculate its Standard and Small Cap Indices. The transition of the Standard and Small Cap Indices to the MSCI Indices occurred in two phases, the first completed as of November 30, 2007 and the second completed as of May 30, 2008. The current index calculation methodology used to formulate the MSCI Indices (and which is also used to formulate the indices included in the MSCI Global Index Series) (the “MSCI Global Investable Market Indices Methodology”) was implemented as of June 1, 2008.

### The MSCI Singapore Index

The MSCI Singapore Index is a free float adjusted market capitalization index of securities listed on the Singapore Stock Exchange. The MSCI Singapore Index is calculated daily in the local currencies and published in real time every 15 seconds during market trading hours. The MSCI Singapore Index is reported by Bloomberg L.P. under the ticker symbol “SGY.”

### The MSCI Taiwan Index

The MSCI Taiwan Index is a free float adjusted market capitalization index of securities listed on the Taiwan Stock Exchange. The MSCI Taiwan Index is calculated daily in the local currencies and published in real time every 15 seconds during market trading hours. The MSCI Taiwan Index is reported by Bloomberg L.P. under the ticker symbol “TWY.”

### Constructing the MSCI Global Investable Market Indices

MSCI undertakes an index construction process, which involves: (i) defining the Equity Universe; (ii) determining the Market Investable Equity Universe for each market; (iii) determining market capitalization size segments for each market; (iv) applying Index Continuity Rules for the MSCI Standard Index; (v) creating style segments within each size segment within each market; and (vi) classifying securities under the Global Industry Classification Standard (the “GICS”).

The “relevant market” with respect to a single country index is equivalent to the single country, except in DM-classified countries in Europe (as described below), where all such countries are first aggregated into a single market for index construction purposes. Subsequently, individual DM Europe country indices within the MSCI Europe Index are derived from the constituents of the MSCI Europe Index under the MSCI Global Investable Market Indices Methodology.

The “relevant market” with respect to a composite index includes each of the single countries which comprise the composite index.

The “Equity Universe” is the aggregation of all Market Investable Equity Universes. The “DM Investable Equity Universe” is the aggregation of all the Market Investable Equity Universes for Developed Markets.

### *Defining the Equity Universe*

(i) **Identifying Eligible Equity Securities:** The Equity Universe initially looks at securities listed in any of the countries in the MSCI Global Index Series, which will be classified as either Developed Markets ("DM") or Emerging Markets ("EM"). All listed equity securities, or listed securities that exhibit characteristics of equity securities, except mutual funds, exchange traded funds, equity derivatives, limited partnerships, and most investment trusts, are eligible for inclusion in the Equity Universe. Real Estate Investment Trusts ("REITs") in some countries and certain income trusts in Canada are also eligible for inclusion.

(ii) **Country Classification of Eligible Securities:** Each company and its securities (i.e., share classes) are classified in one and only one country, which allows for a distinctive sorting of each company by its respective country.

### *Determining the Market Investable Equity Universes*

A Market Investable Equity Universe for a market is derived by applying investability screens to individual companies and securities in the Equity Universe that are classified in that market. A market is equivalent to a single country, except in DM Europe, where all DM countries in Europe are aggregated into a single market for index construction purposes. Subsequently, individual DM Europe country indices within the MSCI Europe Index are derived from the constituents of the MSCI Europe Index under the Global Investable Market Indices methodology.

The investability screens used to determine the Investable Equity Universe in each market are as follows:

- (i) **Equity Universe Minimum Size Requirement:** This investability screen is applied at the company level. In order to be included in a Market Investable Equity Universe, a company must have the required minimum full market capitalization. A company will meet this requirement if its cumulative free float-adjusted market capitalization is within the top 99% of the sorted Equity Universe.
- (ii) **Equity Universe Minimum Float-Adjusted Market Capitalization Requirement:** This investability screen is applied at the individual security level. To be eligible for inclusion in a Market Investable Equity Universe, a security must have a free float-adjusted market capitalization equal to or higher than 50% of the Equity Universe Minimum Size Requirement.
- (iii) **DM and EM Minimum Liquidity Requirement:** This investability screen is applied at the individual security level. To be eligible for inclusion in a Market Investable Equity Universe, a security must have adequate liquidity. The Annualized Traded Value Ratio ("ATVR"), a measure that offers the advantage of screening out extreme daily trading volumes and taking into account the free float-adjusted market capitalization size of securities, is used to measure liquidity. In the calculation of the ATVR, the trading volumes in depository receipts associated with that security, such as ADRs or GDRs, are also considered. A minimum liquidity level of 20% ATVR is required for inclusion of a security in a Market Investable Equity Universe of a Developed Market, and a minimum liquidity level of 15% ATVR is required for inclusion of a security in a Market Investable Equity Universe of an Emerging Market.
- (iv) **Global Minimum Foreign Inclusion Factor Requirement:** This investability screen is applied at the individual security level. To be eligible for inclusion in a Market Investable Equity Universe, a security's Foreign Inclusion Factor ("FIF") must reach a certain threshold. The FIF of a security is defined as the proportion of shares outstanding that is available for purchase in the public equity markets by international investors. This proportion accounts for the available free float of and/or the foreign ownership limits applicable to a specific security (or company). In general, a security must have an FIF equal to or larger than 0.15 to be eligible for inclusion in a Market Investable Equity Universe.



- (v) **Minimum Length of Trading Requirement:** This investability screen is applied at the individual security level. For an initial public offering (“IPO”) to be eligible for inclusion in a Market Investable Equity Universe, the new issue must have started trading at least four months before the implementation of the initial construction of the index or at least three months before the implementation of a Semi-Annual Index Review. This requirement is applicable to small new issues in all markets. Large IPOs are not subject to the Minimum Length of Trading Requirement and may be included in a Market Investable Equity Universe and the Standard Index outside of a Quarterly or Semi-Annual Index Review.

#### *Defining Market Capitalization Size Segments for Each Market*

Once a Market Investable Equity Universe is defined, it is segmented into the following size-based indices:

- Investable Market Index (Large + Mid + Small)
- Standard Index (Large + Mid)
- Large Cap Index
- Mid Cap Index
- Small Cap Index

Creating the Size Segment Indices in each market involves the following steps: (i) defining the Market Coverage Target Range for each size segment; (ii) determining the Global Minimum Size Range for each size segment; (iii) determining the Market Size-Segment Cutoffs and associated Segment Number of Companies; (iv) assigning companies to the size segments; and (v) applying final size-segment investability requirements and index continuity rules.

#### *Index Continuity Rules for the Standard Indices*

In order to achieve index continuity, as well as provide some basic level of diversification within a market index, notwithstanding the effect of other index construction rules, a minimum number of five constituents will be maintained for a DM Standard Index and a minimum number of three constituents will be maintained for an EM Standard Index.

If after the application of the index construction methodology, a Standard Index contains fewer than five securities in a Developed Market or three securities in an Emerging Market, then the largest securities by free float-adjusted market capitalization are added to the Standard Index in order to reach five constituents in that Developed Market or three in that Emerging Market. At subsequent Index Reviews, if the free float-adjusted market capitalization of a non-index constituent is at least 1.50 times the free float-adjusted market capitalization of the smallest existing constituent after rebalancing, the larger free float-adjusted market capitalization security replaces the smaller one.

#### *Creating Style Indices within Each Size Segment*

All securities in the investable equity universe are classified into Value or Growth segments using the MSCI Global Value and Growth methodology.

#### *Classifying Securities under the Global Industry Classification Standard*

All securities in the Global Investable Equity Universe are assigned to the industry that best describes their business activities. To this end, MSCI has designed, in conjunction with Standard & Poor's, the Global Industry Classification Standard. The GICS entails four levels of classification: (1) sector; (2) industry groups; (3) industries; (4) sub-industries. Under the GICS, each company is assigned uniquely to one sub-industry according to its principal business activity. Therefore, a company can belong to only one industry grouping at each of the four levels of the GICS.

## Maintenance of the MSCI Indices

The MSCI Global Investable Market Indices are maintained with the objective of reflecting the evolution of the underlying equity markets and segments on a timely basis, while seeking to achieve index continuity, continuous investability of constituents and replicability of the indices, and index stability and low index turnover.

In particular, index maintenance involves:

- (i) Semi-Annual Index Reviews (“SAIRs”) in May and November of the Size Segment and Global Value and Growth Indices which include:
  - Updating the indices on the basis of a fully refreshed Equity Universe.
  - Taking buffer rules into consideration for migration of securities across size and style segments.
  - Updating FIFs and Number of Shares (“NOS”).

The objective of the SAIRs is to systematically reassess the various dimensions of the Equity Universe for all markets on a fixed semi-annual timetable. A SAIR involves a comprehensive review of the Size Segment and Global Value and Growth Indices.

- (ii) Quarterly Index Reviews (“QIRs”) in February and August of the Size Segment Indices aimed at:
  - Including significant new eligible securities (such as IPOs that were not eligible for earlier inclusion) in the index.
  - Allowing for significant moves of companies within the Size Segment Indices, using wider buffers than in the SAIR.
  - Reflecting the impact of significant market events on FIFs and updating NOS.

QIRs are designed to ensure that the indices continue to be an accurate reflection of the evolving equity marketplace. This is achieved by a timely reflection of significant market driven changes that were not captured in the index at the time of their actual occurrence but are significant enough to be reflected before the next SAIR. QIRs may result in additions or deletions due to migration to another Size Segment Index, and changes in FIFs and in NOS. Only additions of significant new investable companies are considered, and only for the Standard Index. The buffer zones used to manage the migration of companies from one segment to another are wider than those used in the SAIR. The style classification is reviewed only for companies that are reassigned to a different size segment.

- (iii) Ongoing event-related changes. Ongoing event-related changes to the indices are the result of mergers, acquisitions, spin-offs, bankruptcies, reorganizations and other similar corporate events. They can also result from capital reorganizations in the form of rights issues, bonus issues, public placements and other similar corporate actions that take place on a continuing basis. These changes generally are reflected in the indices at the time of the event. Significantly large IPOs are included in the indices after the close of the company's tenth day of trading.

## Announcement Policy

The results of the SAIRs are announced at least two weeks in advance of their effective implementation dates as of the close of the last business day of May and November. The results of the QIRs are announced at least two weeks in advance of their effective implementation dates as of the close of the last business day of February and August. All changes resulting from corporate events are announced prior to their implementation.

The changes are typically announced at least ten business days prior to the changes becoming effective in the indices as an “expected” announcement, or as an “undetermined” announcement, when the effective dates are not known yet or when aspects of the event are uncertain. MSCI sends “confirmed” announcements at least two business days prior to events becoming effective in the indices, provided that all necessary public information concerning the event is available. The full list of all new and pending changes is delivered to clients on a daily basis, at 5:30 p.m., US Eastern Time.

In exceptional cases, events are announced during market hours for same or next day implementation. Announcements made by MSCI during market hours are usually linked to late company disclosure of corporate events or unexpected changes to previously announced corporate events.

In the case of secondary offerings representing more than 5% of a security’s number of shares for existing constituents, these changes will be announced prior to the end of the subscription period when possible and a subsequent announcement confirming the details of the event (including the date of implementation) will be made as soon as the results are available.

Both primary equity offerings and secondary offerings for U.S. securities, representing at least 5% of the security’s number of shares, will be confirmed through an announcement during market hours for next day or shortly after implementation, as the completion of the events cannot be confirmed prior to the notification of the pricing.

Early deletions of constituents due to bankruptcy or other significant cases are announced as soon as practicable prior to their implementation.

## Index Calculation

### *Price Index Level*

The MSCI Taiwan Index is calculated using the Laspeyres’ concept of a weighted arithmetic average together with the concept of chain-linking. As a general principle, the level of the MSCI Taiwan Index level is obtained by applying the change in the market performance to the previous period level for the MSCI Taiwan Index.

$$PriceIndexLevelUSD_t = PriceIndexLevelUSD_{t-1} \times \frac{IndexAdjustedMarketCapUSD_t}{IndexInitialMarketCapUSD_t}$$

$$PriceIndexLevelLocal_t = PriceIndexLevelLocal_{t-1} \times \frac{IndexAdjustedMarketCapForLocal_t}{IndexInitialMarketCapUSD_t}$$

Where:

- $PriceIndexLevelUSD_{t-1}$  is the Price Index level in USD at time t-1
- $IndexAdjustedMarketCapUSD_t$  is the Adjusted Market Capitalization of the index in USD at time t
- $IndexInitialMarketCapUSD_t$  is the Initial Market Capitalization of the index in USD at time t
- $PriceIndexLevelLocal_{t-1}$  is the Price Index level in local currency at time t-1
- $IndexAdjustedMarketCapForLocal_t$  is the Adjusted Market Capitalization of the index in USD converted using FX rate as of t-1 and used for local currency index at time t

Note:  $IndexInitialMarketCapUSD$  was previously called  $IndexUnadjustedMarketCapPreviousUSD$

Security Price Index Level

$$\begin{aligned}
 & \text{SecurityPriceIndexLevel}_1 \times \frac{\text{SecurityAdjustedMarketCapForLocal}_t}{\text{SecurityInitialMarketCapUSD}_t} \\
 & = \frac{\text{IndexNumberOfShares}_{t-1} \times \text{PricePerShare}_t \times \text{InclusionFactor}_t \times \frac{PAF_t}{FXrate_{t-1}}}{\text{SecurityInitialMarketCapUSD}_t} \times \frac{ICI_t}{ICI_{t-1}} \\
 & = \frac{\text{IndexNumberOfShares}_{t-1} \times \text{PricePerShare}_t \times \text{InclusionFactor}_t}{FXrate_{t-1}}
 \end{aligned}$$

Where:

- $SecurityPriceIndexLevel_{t-1}$  is Security Price Index level at time t-1
- $SecurityAdjustedMarketCapForLocal_t$  is the Adjusted Market Capitalization of security s in USD converted using FX rate as of t-1
- $SecurityInitialMarketCapUSD_t$  is the Initial Market Capitalization of security s in USD at time t
- $IndexNumberOfShares_{t-1}$  is the number of shares of security s at time t-1.
- $PricePerShare_t$  is the price per share of security s at time t.
- $PricePerShare_{t-1}$  is the price per share of security s at time t-1.
- $InclusionFactor_t$  is the inclusion factor of security s at time t. The inclusion factor can be one or the combination of the following factors: Foreign Inclusion Factor, Domestic Inclusion Factor Growth Inclusion Factor, Value Inclusion Factor, Index Inclusion Factor.
- $PAF_t$  is the Price Adjustment Factor of security s at time t.
- $FXrate_{t-1}$  is the FX rate of the price currency of security s vs USD at time t-1. It is the value of 1 USD in foreign currency.
- $ICI_t$  is the Internal Currency Index of price currency at time t. The ICI is different than 1 when a country changes the internal value of its currency (e.g. from Turkish Lira to New Turkish Lira – ICI = 1,000,000).
- $ICI_{t-1}$  is the Internal Currency Index of price currency at time t-1.
- Index Market Capitalization

$IndexAdjustedMarketCapUSD_t =$

$$\sum_{s \in I, t} \frac{Index\ Number\ of\ Shares_{t-1} \times Price\ Per\ Share_t \times Inclusion\ Factor_t \times PAF_t}{FXrate_t}$$

$IndexAdjustedMarketCapForLocal_t =$

$$\sum_{s \in I, t} \frac{Index\ Number\ of\ Shares_{t-1} \times Price\ Per\ Share_t \times Inclusion\ Factor_t \times PAF_t}{FXrate_{t-1}} \times \frac{ICI_t}{ICI_{t-1}}$$

$IndexInitialMarketCapUSD_t =$

$$\sum_{s \in I, t} \frac{Index\ Number\ of\ Shares_{t-1} \times Price\ Per\ Share_t \times Inclusion\ Factor_t}{FXrate_{t-1}}$$

Where:

- $IndexNumberOfShares_{t-1}$  is the number of shares of security s at time t-1.
- $PricePerShare_t$  is the price per share of security s at time t.
- $PricePerShare_{t-1}$  is the price per share of security s at time t-1.
- $InclusionFactor_t$  is the inclusion factor of security s at time t. The inclusion factor can be one or the combination of the following factors: Foreign Inclusion Factor, Domestic Inclusion Factor, Growth Inclusion Factor, Value Inclusion Factor, Index Inclusion Factor.
- $PAF_t$  is the Price Adjustment Factor of security s at time t.
- $FXrate_t$  is the FX rate of the price currency of security s vs USD at time t. It is the value of 1 USD in foreign currency.
- $FXrate_{t-1}$  is the FX rate of the price currency of security s vs USD at time t-1. It is the value of 1 USD in foreign currency.
- $ICI_t$  is the Internal Currency Index of price currency at time t. The ICI is different than 1 when a country changes the internal value of its currency (e.g. from Turkish Lira to New Turkish Lira – ICI = 1,000,000).
- $ICI_{t-1}$  is the Internal Currency Index of price currency at time t-1.

## Corporate Events

### Mergers and Acquisitions

As a general principle, MSCI implements M&As as of the close of the last trading day of the acquired entity or merging entities (last offer day for tender offers), regardless of the status of the securities (index constituents or non-index constituents) involved in the event. MSCI uses market prices for implementation. This principle applies if all necessary information is available prior to the completion of the event and if the liquidity of the relevant constituent(s) is not expected to be significantly diminished on the day of implementation. Otherwise, MSCI will determine the most appropriate implementation method and announce it prior to the changes becoming effective in the indices.

### *Tender Offers*

In tender offers, the acquired or merging security is generally deleted from the applicable MSCI Indices at the end of the initial offer period, when the offer is likely to be successful and / or if the free float of the security is likely to be substantially reduced (this rule is applicable even if the offer is extended), or once the results of the offer have been officially communicated and the offer has been successful and the security's free float has been substantially reduced, if all required information is not available in advance or if the offer's outcome is uncertain. The main factors considered by MSCI when assessing the outcome of a tender offer (not in order of importance) are: the announcement of the offer as friendly or hostile, a comparison of the offer price to the acquired security's market price, the recommendation by the acquired company's board of directors, the major shareholders' stated intention whether to tender their shares, the required level of acceptance, the existence of pending regulatory approvals, market perception of the transaction, official preliminary results if any, and other additional conditions for the offer.

If a security is deleted from an index, the security will not be reinstated immediately after its deletion even when the tender offer is subsequently declared unsuccessful and/or the free float of the security is not substantially reduced. It may be reconsidered for index inclusion in the context of a quarterly index review or annual full country index review. MSCI uses market prices for implementation.

### *Late Announcements of Completion of Mergers and Acquisitions*

When the completion of an event is announced too late to be reflected as of the close of the last trading day of the acquired or merging entities, implementation occurs as of the close of the following day or as soon as practicable thereafter. In these cases, MSCI uses a calculated price for the acquired or merging entities. The calculated price is determined using the terms of the transaction and the price of the acquiring or merged entity, or, if not appropriate, using the last trading day's market price of the acquired or merging entities.

### *Conversions of Share Classes*

Conversions of a share class into another share class resulting in the deletion and/or addition of one or more classes of shares are implemented as of the close of the last trading day of the share class to be converted.

### *Spin-Offs*

On the ex-date of a spin-off, a PAF is applied to the price of the security of the parent company. The PAF is calculated based on the terms of the transaction and the market price of the spun-off security. If the spun-off entity qualifies for inclusion, it is included as of the close of its first trading day. If appropriate, MSCI may link the price history of the spun-off security to a security of the parent company.

In cases of spin-offs of partially-owned companies, the post-event free float of the spun-off entity is calculated using a weighted average of the existing shares and the spun-off shares, each at their corresponding free float. Any resulting changes to FIFs and/or DIFs are implemented as of the close of the ex-date.

When the spun-off security does not trade on the ex-date, a "detached" security is created to avoid a drop in the free float-adjusted market capitalization of the parent entity, regardless of whether the spun-off security is added or not. The detached security is included until the spun-off security begins trading, and is deleted thereafter. Generally, the value of the detached security is equal to the difference between the cum price and the ex price of the parent security.

### *Corporate Actions*

Corporate actions such as splits, bonus issues and rights issues, which affect the price of a security, require a price adjustment. In general, the PAF is applied on the ex-date of the event to ensure that security prices are comparable between the ex-date and the cum date. To do so, MSCI adjusts for the value of the right and/or the value of the special assets that are distributed. In general, corporate actions do not impact the free float of the securities because the distribution of new shares is carried out on a pro rata basis to all existing shareholders. Therefore, MSCI will generally not implement any pending number of shares and/or free float updates simultaneously with the event.

If a security does not trade for any reason on the ex-date of the corporate action, the event will be generally implemented on the day the security resumes trading.

### *Share Placements and Offerings*

Changes in number of shares and FIF resulting from primary equity offerings representing more than 5% of the security's number of shares are generally implemented as of the close of the first trading day of the new shares, if all necessary information is available at that time. Otherwise, the event is implemented as soon as practicable after the relevant information is made available. A primary equity offering involves the issuance of new shares by a company. Changes in number of shares and FIF resulting from primary equity offerings representing less than 5% of the security's number of shares are deferred to the next regularly scheduled Quarterly Index Review following the completion of the event. For public secondary offerings of existing constituents representing more than 5% of the security's number of shares, where possible, MSCI will announce these changes and reflect them shortly after the results of the subscription are known. Secondary public offerings that, given lack of sufficient notice, were not reflected immediately will be reflected at the next Quarterly Index Review. Secondary offerings involve the distribution of existing shares of current shareholders' in a listed company and are usually pre-announced by a company or by a company's shareholders and open for public subscription during a pre-determined period.

### *Debt-to-Equity Swaps*

In general, large debt-to-equity swaps involve the conversion of debt into equity originally not convertible at the time of issue. In this case, changes in numbers of shares and subsequent FIF and/or DIF changes are implemented as of the close of the first trading day of the newly issued shares, or shortly thereafter if all necessary information is available at the time of the swap. In general, shares issued in debt-to-equity swaps are assumed to be issued to strategic investors. As such, the post event free float is calculated on a pro forma basis assuming that all these shares are non-free float. Changes in numbers of shares and subsequent FIF and/or DIF changes due to conversions of convertible bonds or other convertible instruments, including periodical conversions of preferred stocks and small debt-to-equity swaps are implemented as part of the quarterly index review.

### *Suspensions and Bankruptcies*

MSCI will remove from the MSCI Equity Index Series as soon as practicable companies that file for bankruptcy, companies that file for protection from their creditors and/or are suspended and for which a return to normal business activity and trading is unlikely in the near future. When the primary exchange price is not available, MSCI will delete securities at an over the counter or equivalent market price when such a price is available and deemed relevant. If no over the counter or equivalent price is available, the security will be deleted at the smallest price (unit or fraction of the currency) at which a security can trade on a given exchange. For securities that are suspended, MSCI will carry forward the market price prior to the suspension during the suspension period.

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