

# **S&P All Africa Indices** *Methodology*

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# Introduction

## Index Objective

The S&P All Africa Indices measure the performance of companies listed and/or operating in the continent of Africa. Unless otherwise noted below, the indices are float-adjusted market capitalization (FMC) weighted.

## Index Family

**S&P All Africa.** The index comprises the constituents of the S&P Pan Africa, S&P South Africa Composite, S&P Nigeria BMI, and all offshore developed market listed companies operating purely in or deriving a majority of revenues from the African continent.

*For more information on the S&P Pan Africa, please refer to the S&P Frontier Indices Methodology.*

**S&P All Africa ex-South Africa.** The index is comprised of the constituents of the S&P All Africa, excluding any listed South African stocks and offshore companies whose revenues or assets primarily derive from or reside in South Africa.

**S&P All Sub-Saharan Africa ex-South Africa.** The index is comprised of the constituents of the S&P All Africa ex-South Africa, excluding any listed Egyptian, Moroccan, and Tunisian stocks.

**S&P East Africa.** The index is a benchmark for the East Africa region within the S&P All Africa and includes companies listed in Kenya.

**S&P North Africa.** The index is a benchmark for the North Africa region within the S&P All Africa and includes companies listed in Egypt, Morocco, and Tunisia.

**S&P South Africa Composite.** The index is a benchmark for the South Africa region within the S&P All Africa and includes companies listed in South Africa.

*For more information on the S&P South Africa Composite, please refer to the S&P South Africa Composite Indices Methodology.*

**S&P Southern Africa ex-South Africa.** The index is a benchmark for the Southern Africa ex-South Africa region within the S&P All Africa and includes stocks from Botswana, Mauritius, Namibia, and Zambia.

**S&P West Africa.** The index is a benchmark for the West Africa region within the S&P All Africa and includes companies listed in Cote d'Ivoire, Ghana, and Nigeria.

**S&P South Africa 50.** The index measures the performance of the 50 largest companies, by float-adjusted market capitalization, within the S&P South Africa Composite. The index is FMC weighted, subject to a single stock cap of 10%.

*For more information on the S&P South Africa 50, please refer to the S&P South Africa Composite Indices Methodology.*

## Supporting Documents

This methodology is meant to be read in conjunction with supporting documents providing greater detail with respect to the policies, procedures and calculations described herein. References throughout the methodology direct the reader to the relevant supporting document for further information on a specific topic. The list of the main supplemental documents for this methodology and the hyperlinks to those documents is as follows:

Supporting Document	URL
S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology	<a href="#">Equity Indices Policies &amp; Practices</a>
S&P Dow Jones Indices' Index Mathematics Methodology	<a href="#">Index Mathematics Methodology</a>
S&P Dow Jones Indices' Float Adjustment Methodology	<a href="#">Float Adjustment Methodology</a>
S&P Dow Jones Indices' Global Industry Classification Standard (GICS) Methodology	<a href="#">GICS Methodology</a>

This methodology was created by S&P Dow Jones Indices to achieve the aforementioned objective of measuring the underlying interest of each index governed by this methodology document. Any changes to or deviations from this methodology are made in the sole judgment and discretion of S&P Dow Jones Indices so that the index continues to achieve its objective.

# Eligibility Criteria

## Index Universe

At each rebalancing, the index universe of the S&P All Africa is all constituents of the three universe benchmarks (S&P Pan Africa, S&P South Africa Composite, and S&P Nigeria BMI), and offshore companies satisfying the requirements listed below.

## Eligibility Factors

**Regions.** The index is broken down into six distinct regions, which is also the basis for the African regional benchmarks. The table below lists the regions and the eligible countries per region.

Region Location	Region	Country of Listing
Africa	East Africa	Kenya
	North Africa	Egypt Morocco Tunisia
	South Africa	South Africa
	Southern Africa ex-South Africa	Botswana Mauritius Namibia Zambia
	West Africa	Cote d'Ivoire Ghana Nigeria
Offshore	Offshore	All Developed Markets

**Country Classification.** The country assigned to each company in the S&P All Africa is based on the Country of Listing.

## Offshore Companies

In addition to the constituents of the three universe benchmarks, those companies domiciled outside Africa with no active listing on a local African exchange but operating purely in, or deriving a majority of revenues from, the African continent are classified as “offshore companies” and are eligible provided a company meets the following criteria:

- Derives at least 50% of total revenue from Africa or at least 50% of total assets reside in Africa<sup>1</sup>
- Have an FMC of at least US\$ 100 million.
- Have an annual dollar value traded of at least US\$ 50 million.

<sup>1</sup> For the Offshore Companies segment of the S&P All Africa ex-South Africa Indices, companies are also ineligible if at least 50% of their total revenue or assets derive from or reside in South Africa.

## Constituent Selection - Child Indices

The S&P All Africa family includes child indices. Constituents for each index are defined as per the table below:

Index	Universe
S&P All Africa Ex-South Africa	Companies in the S&P All Africa, excluding any companies also in the S&P South Africa Composite and offshore companies not satisfying the eligibility criteria described above.
S&P All Sub-Saharan Africa ex-South Africa	Companies in the S&P All Africa, excluding any companies in the S&P South Africa Composite, companies classified as Egyptian, Moroccan or Tunisian, and offshore companies not satisfying the eligibility criteria described above.
S&P East Africa	Companies in the S&P All Africa classified as part of the East Africa region
S&P North Africa	Companies in the S&P All Africa classified as part of the North Africa region
S&P South Africa Composite	Companies in the S&P All Africa classified as part of the South Africa region
S&P Southern Africa ex-South Africa	Companies in the S&P All Africa classified as part of the Southern Africa Ex-South Africa region
S&P West Africa	Companies in the S&P All Africa classified as part of the West Africa region

**Sector Classification.** Stocks are classified by GICS – a four-tiered industry classification structure.

*For more information on GICS, please refer to S&P Dow Jones Indices' GICS Methodology document.*

### Multiple Share Classes

All publicly listed multiple share class lines are eligible for index inclusion, subject to meeting the eligibility criteria detailed in the respective Index Methodology. For more information regarding the treatment of multiple share classes, please refer to Approach A within the Multiple Share Classes section of the S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

# Index Construction

## Constituent Weightings

The following indices are float-adjusted market capitalization weighted indices:

- S&P All Africa
- S&P All Africa ex-South Africa
- S&P All Sub-Saharan Africa ex-South Africa
- S&P East Africa
- S&P North Africa
- S&P South Africa Composite
- S&P Southern Africa ex-South Africa
- S&P West Africa

## Index Calculations

The indices are calculated on an end-of-day basis, using the divisor methodology used in all S&P Dow Jones Indices' equity indices.

*Please refer to S&P Dow Jones Indices' Index Mathematics Methodology for more details on market-capitalization index calculations.*

# Index Maintenance

## Reconstitution

Changes to the S&P All Africa follow the rebalancing schedules of the three sources that make up the index universe:

1. S&P Pan Africa
2. S&P South Africa Composite
3. Offshore Companies

Developed and emerging-market countries are reconstituted annually after the close of trading of the third Friday in September, while frontier-market countries are reconstituted annually after the close of trading of the third Friday in March. Offshore companies that do not follow an underlying index rebalancing are reconstituted annually after the close of trading of the third Friday in September as well. The reference date for the offshore company selection is after the close of the last business day in July. The reference dates for constituent selection for the S&P Pan Africa and S&P South Africa Composite are the last business day of February and August, respectively.

**Buffer Rule for Stock Inclusion.** Each source for the index universe has criteria for constituents to remain eligible for stock inclusion at the annual reconstitution:

1. **S&P Pan Africa, S&P South Africa Composite, and S&P Nigeria BMI.** A company removed from these indices is removed from the S&P All Africa.
2. **Offshore Companies.** A company is removed if its float-adjusted market capitalization falls below US\$ 75 million or its annual dollar value traded during the preceding 12 months is less than US\$ 35 million. A company is also removed if it is determined that less than 50% of its revenues or assets derive from or reside in Africa. A company is also removed from the S&P All Africa ex-South Africa indices if it is determined that more than 50% of its revenues or assets derive from or reside in South Africa.

Stocks that fail to achieve or fail to maintain index membership are eligible for inclusion at the next annual reconstitution, provided they meet the rules discussed in *Eligibility Criteria*.

## Additions and Deletions

Except for spin-offs, the majority of additions and deletions occur as part of the annual reconstitutions. IPO additions to the index, however, take place quarterly. The criteria for inclusion of an IPO is the same as that used at the annual reconstitution of the underlying indices, with the reference date being five weeks prior to the rebalancing effective date. Deletions from the index also take place quarterly, in accordance with the underlying indices' rules regarding minimum float-adjusted market capitalization and liquidity thresholds. These additions and deletions become effective after the close of trading of the third Friday of March, June, September, and December. Since these indices do not have a fixed number of constituents, additions and deletions are not linked to one another.

Spin-offs from current index constituents are added to the index on the same effective date as the underlying index and evaluated for continued index inclusion. Spin off will continue to be included/excluded from the index as long as, for included companies, the spun-off company remains in the eligible universe which is typically defined as an underlying index. If the spun-off company is removed from the underlying index it will be dropped from the index simultaneously.

## Corporate Actions

For information on Corporate Actions, please refer to the Market Capitalization Indices section of S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

## Investable Weight Factor (IWF)

All issues in the S&P All Africa Indices are assigned a float factor, called an Investable Weight Factor (IWF). The IWF ranges between 0 and 1 and is an adjustment factor that accounts for the publicly available shares of a company.

*Please refer to S&P Dow Jones Indices' Float Adjustment Methodology for details.*

## Currency of Calculation and Additional Index Return Series

The indices calculate in U.S. dollars.

WMR foreign exchange rates are taken daily at 4:00 PM London time and used in the calculation of the indices. These mid-market fixings are calculated by WMR based on LSEG data and appear on LSEG pages.

In addition to the indices detailed in this methodology, additional return series versions of the indices may be available, including, but not limited to: currency, currency hedged, decrement, fair value, inverse, leveraged, and risk control versions. For a list of available indices, please refer to the [S&P DJI Methodology & Regulatory Status Database](#).

*For information on the calculation of different types of indices, please refer to S&P Dow Jones Indices' Index Mathematics Methodology.*

## Other Adjustments

In cases where there is no achievable market price for a stock being deleted, it can be removed at a zero or minimal price at the Index Committee's discretion, in recognition of the constraints faced by investors in trading bankrupt or suspended stocks.

## Base Dates and History Availability

Index history availability, base dates, and base values for the S&P All Africa Indices are shown in the table below.

Index	Launch Date	First Value Date	Base Date	Base Value
S&P All Africa	05/02/2014	09/19/2008	09/19/2008	1000
S&P All Africa ex-South Africa	05/02/2014	09/19/2008	09/19/2008	1000
S&P All Sub-Saharan Africa ex-South Africa	06/25/2014	09/19/2008	09/19/2008	1000
S&P East Africa	05/02/2014	09/19/2008	09/19/2008	1000
S&P North Africa	05/02/2014	09/19/2008	09/19/2008	1000
S&P South Africa Composite	05/02/2014	09/19/2008	09/19/2008	1000
S&P Southern Africa ex-South Africa	05/02/2014	09/19/2008	09/19/2008	1000
S&P West Africa	05/02/2014	09/19/2008	09/19/2008	1000
S&P South Africa 50	05/02/2014	09/19/2008	09/19/2008	1000

# Index Data

## Calculation Return Types

S&P Dow Jones Indices calculates multiple return types which vary based on the treatment of regular cash dividends. The classification of regular cash dividends is determined by S&P Dow Jones Indices.

- Price Return (PR) versions are calculated without adjustments for regular cash dividends.
- Gross Total Return (TR) versions reinvest regular cash dividends at the close on the ex-date without consideration for withholding taxes.
- Net Total Return (NTR) versions, if available, reinvest regular cash dividends at the close on the ex-date after the deduction of applicable withholding taxes.

In the event there are no regular cash dividends on the ex-date, the daily performance of all three indices will be identical.

For a complete list of indices available, please refer to the daily index levels file (“.SDL”).

*For more information on the classification of regular versus special cash dividends as well as the tax rates used in the calculation of net return, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.*

*For more information on the calculation of return types, please refer to S&P Dow Jones Indices' Index Mathematics Methodology.*

# Index Governance

## **Index Committee**

An S&P Dow Jones Indices' Index Committee maintains the indices. All committee members are full-time professional members of S&P Dow Jones Indices' staff. The committee meets regularly. At each meeting, the Index Committee may review pending corporate actions that may affect index constituents, statistics comparing the composition of the indices to the market, companies that are being considered as candidates for addition to an index, and any significant market events. In addition, the Index Committee may revise index policy covering rules for selecting companies, treatment of dividends, share counts or other matters.

S&P Dow Jones Indices considers information about changes to its indices and related matters to be potentially market moving and material. Therefore, all Index Committee discussions are confidential.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

*For information on Quality Assurance and Internal Reviews of Methodology, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.*

# Index Policy

## **Announcements**

All index constituents are evaluated daily for data needed to calculate index levels and returns. All events affecting the daily index calculation are typically announced in advance via the Index Corporate Events report (.SDE), delivered daily to all clients. Any unusual treatment of a corporate action or short notice of an event may be communicated via email to clients.

*For more information, please refer to the Announcements section of S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.*

## **Pro-forma Files**

In addition to the corporate events file (.SDE), S&P Dow Jones Indices provides constituent pro-forma files each time the indices rebalance. The pro-forma file is typically provided daily in advance of the rebalancing date and contains all constituents and their corresponding weights and index shares effective for the upcoming rebalancing.

*Please visit [www.spglobal.com/spdji/](http://www.spglobal.com/spdji/) for a complete schedule of rebalancing timelines and pro-forma delivery time.*

## **Holiday Schedule**

The indices are calculated on all days when at least one constituent market is open for trading.

*A complete holiday schedule for the year is available at [www.spglobal.com/spdji/](http://www.spglobal.com/spdji/).*

## **Rebalancing**

The Index Committee may change the date of a given rebalancing for reasons including market holidays occurring on or around the scheduled rebalancing date. Any such change will be announced with proper advance notice where possible.

## **Unforeseen Events**

S&P Dow Jones Indices retains the sole authority and final discretion regarding all index activity. In all cases, the index treatments for corporate actions are communicated through the Index Corporate Events report (.SDE) and/or special announcements delivered to all clients.

## **Unexpected Exchange Closures**

For information on Unexpected Exchange Closures, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

## **Recalculation Policy**

For information on the recalculation policy, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.

*For information on Calculations and Pricing Disruptions, Expert Judgment and Data Hierarchy, please refer to S&P Dow Jones Indices' Equity Indices Policies & Practices Methodology.*

**Contact Information**

For any questions regarding an index, please contact: [index\\_services@spglobal.com](mailto:index_services@spglobal.com).

# Index Dissemination

Index levels are available through S&P Dow Jones Indices' Web site at [www.spglobal.com/spdji/](http://www.spglobal.com/spdji/), major quote vendors (see codes below), numerous investment-oriented Web sites, and various print and electronic media.

## Tickers

The table below lists headline indices covered by this document. All versions of the below indices that may exist are also covered by this document. Please refer to the [S&P DJI Methodology & Regulatory Status Database](#) for a complete list of indices covered by this document.

Index (Currency)	Return Type	BBG
S&P All Africa (USD)	Price Return Total Return Net Total Return	SPXAAUP SPXAAUT SPXAAUN
S&P All Africa ex-South Africa (USD)	Price Return Total Return Net Total Return	SPXABUP SPXABUT SPXABUN
S&P All Sub-Saharan Africa ex-South Africa (USD)	Price Return Total Return Net Total Return	SPSSXAU SPSSXAUT SPSSXAUN
S&P East Africa (USD)	Price Return Total Return Net Total Return	SPXEAUP SPXEAUT SPXEAUN
S&P North Africa (USD)	Price Return Total Return Net Total Return	SPXNFUP SPXNFUT SPXNFUN
S&P South Africa Composite (USD)	Price Return Total Return Net Total Return	SPSAUP SPSAUT SPSAUN
S&P Southern Africa ex-South Africa (USD)	Price Return Total Return Net Total Return	SPXASUP SPXASUT SPXASUN
S&P West Africa (USD)	Price Return Total Return Net Total Return	SPXWAUP SPXWAUT SPXWAUN
S&P South Africa 50 (USD)	Price Return Total Return Net Total Return	SPA50UP SPA50UT SPA50UN

## Index Data

Daily constituent and index level data are available via subscription.

For product information, please contact S&P Dow Jones Indices, [www.spglobal.com/spdji/en/contact-us](http://www.spglobal.com/spdji/en/contact-us).

## Web site

For further information, please refer to S&P Dow Jones Indices' Web site at [www.spglobal.com/spdji/](http://www.spglobal.com/spdji/).

# Appendix I

## Methodology Changes

Methodology changes since January 1, 2015, are as follows:

Change	Effective Date (After Close)	Methodology	
		Previous	Updated
Index Universe: S&P All Africa	03/18/2023	To be eligible for inclusion in the S&P All Africa, a company must be included in one of the two universe benchmarks (S&P Pan Africa and S&P South Africa Composite) or be listed on a developed market exchange and operate purely in or derive a majority of their revenues from the African continent	To be eligible for index inclusion, a company must be a constituent of one of three universe indices (the S&P Pan Africa, S&P South Africa Composite, and S&P Nigeria BMI), or be listed on a developed market exchange and operate purely in or derive a majority of revenues from the African continent.
Index Eligibility – Offshore Companies Segment in the S&P All Africa ex-South Africa Indices	06/19/2020	For the offshore companies segment, companies that are domiciled outside Africa that do not have an active listing on a local African exchange and operate purely in or derive a majority of their revenues from the African continent are eligible if they meet the following criteria: <ul style="list-style-type: none"> <li>At least 50% of their total revenue or assets must derive from or reside in Africa.</li> <li>Float-adjusted market value of at least US\$ 100 million.</li> <li>Annual dollar value traded of at least US\$ 50 million.</li> </ul>	For the offshore companies segment, companies that are domiciled outside Africa that do not have an active listing on a local African exchange and operate purely in or derive a majority of their revenues from the African continent are eligible if they meet the following criteria: <ul style="list-style-type: none"> <li>At least 50% of their total revenue or assets must derive from or reside in Africa (excluding South Africa).</li> <li>Float-adjusted market value of at least US\$ 100 million.</li> <li>Annual dollar value traded of at least US\$ 50 million.</li> </ul>
Ineligibility of Stocks Domiciled in Zimbabwe	12/21/2018	To be eligible for inclusion in the S&P All Africa, a company must be included in one of the three universe benchmarks (S&P Pan Africa, S&P South Africa Composite and S&P Zimbabwe BMI), or be listed on a developed market exchange and operate purely in or derive a majority of their revenues from the African continent.	To be eligible for inclusion in the S&P All Africa, a company must be included in one of the two universe benchmarks (S&P Pan Africa and S&P South Africa Composite), or be listed on a developed market exchange and operate purely in or derive a majority of their revenues from the African continent.  Index constituents domiciled in Zimbabwe, as of the effective date, are removed at a zero price.
Clarification of reference date for the offshore company selection	03/17/2016	--	The reference date for the offshore company selection is after the close of the last business day in July.

# Appendix II

## ESG Disclosures

<b>EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL &amp; GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY<sup>2</sup></b>	
<b>1.</b>	<b>Name of the benchmark administrator.</b> S&P Dow Jones Indices LLC.
<b>2.</b>	<b>Underlying asset class of the ESG benchmark.<sup>3</sup></b> N/A
<b>3.</b>	<b>Name of the S&amp;P Dow Jones Indices benchmark or family of benchmarks.</b> <a href="#">S&amp;P DJI Equity Indices Benchmark Statement</a>
<b>4.</b>	<b>Do any of the indices maintained by this methodology take into account ESG factors?</b> No
<b>Appendix latest update:</b> January 2021	
<b>Appendix first publication:</b> January 2021	

<sup>2</sup> The information contained in this Appendix is intended to meet the requirements of the European Union Commission Delegated Regulation (EU) 2020/1817 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the minimum content of the explanation of how environmental, social and governance factors are reflected in the benchmark methodology and the retained EU law in the UK [The Benchmarks (amendment and Transitional Provision) (EU Exit) Regulations 2019].

<sup>3</sup> The 'underlying assets' are defined in European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.

# Disclaimer

## Performance Disclosure/Back-Tested Data

Where applicable, S&P Dow Jones Indices and its index-related affiliates (“S&P DJI”) defines various dates to assist our clients by providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index’s Launch Date are considered back-tested. S&P DJI defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company’s public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed “Date of introduction”) is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index’s public release date.

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Also, the treatment of corporate actions in back-tested performance may differ from treatment for live indices due to limitations in replicating index management decisions. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate certain ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using “Backward Data Assumption” (or pulling back) of ESG data for the calculation of back-tested historical performance. “Backward Data Assumption” is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity (also known as “product involvement”) were never involved historically and similarly also assumes that companies currently involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information on “Backward Data Assumption” please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history

will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used. Index returns shown do not represent the results of actual trading of investable assets/securities. S&P DJI maintains the index and calculates the index levels and performance shown or discussed but does not manage any assets.

Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the Index or investment funds that are intended to track the performance of the Index. The imposition of these fees and charges would cause actual and back-tested performance of the securities/fund to be lower than the Index performance shown. As a simple example, if an index returned 10% on a US \$100,000 investment for a 12-month period (or US \$10,000) and an actual asset-based fee of 1.5% was imposed at the end of the period on the investment plus accrued interest (or US \$1,650), the net return would be 8.35% (or US \$8,350) for the year. Over a three-year period, an annual 1.5% fee taken at year end with an assumed 10% return per year would result in a cumulative gross return of 33.10%, a total fee of US \$5,375, and a cumulative net return of 27.2% (or US \$27,200).

### **Intellectual Property Notices/Disclaimer**

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