

## How Indexing Affects Shariah-Compliant Investing

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Shariah-compliant investing has grown considerably in recent decades, as the Islamic investment community has demanded increasingly sophisticated investment solutions that adhere to the tenets of Islamic law. As a result, the need for high-quality, transparent, Shariah-compliant benchmarks has developed. Today, Islamic indices serve a critical role in Islamic finance; these unique indices identify the universe of securities available for investment and define the way Islamic investors measure the markets.

### INTRODUCING ISLAMIC INDICES

Islamic indices are subsets of conventional benchmarks that include only companies that pass rules-based screens for Shariah compliance. The resulting Shariah indices tend to be highly correlated to their conventional non-Shariah counterparts and provide Islamic investors with Shariah-compliant versions of a wide variety of popular benchmarks. For example, the [S&P 500<sup>®</sup> Shariah](#) is a subset of the widely recognized [S&P 500](#), and it includes only Shariah-compliant constituents of the S&P 500.

As with all Islamic financial products, a supervisory board of Islamic scholars oversees the rules governing Shariah-compliant indices. The board is responsible for defining and maintaining the rules governing the Shariah screening process. However, S&P Dow Jones Indices retains oversight on all other index methodology issues, including rules for company selection in the benchmark index, weighting, and index maintenance.

### THE INS AND OUTS OF THE SHARIAH SCREENING PROCESS

Shariah screening is performed at two primary levels: business activity and financial ratios. First, the business activities of each company are evaluated. Companies with significant involvement in certain business activities prohibited by Shariah law are deemed noncompliant. Activities that are generally considered noncompliant include conventional financial services, alcohol, tobacco, gaming, pork, pornography, and most conventional media organizations. After removing companies with noncompliant business activities, the remaining companies are examined for compliance with board-approved financial ratios. Areas of focus include

the degree of financial leverage and holdings of cash, receivables, or interest-earning securities.

Exhibit 1 provides a comparison of the screening methodologies employed by the S&P Shariah Indices and Dow Jones Islamic Market™ Indices. While the criteria evaluated are largely similar, there are some differences, as Shariah scholars have not reached a complete consensus on all aspects of Islamic finance. For example, the Dow Jones Islamic Market Indices exclude defense companies, while these firms are allowed in the S&P Shariah Indices. The calculations of accounting ratios also differ to some extent across the two index series.

*Shariah indices tend to be highly correlated to their conventional non-Shariah counterparts...*

*...and they provide Islamic investors with Shariah-compliant versions of a wide variety of popular benchmarks.*

<b>Exhibit 1: Comparing the S&amp;P Shariah Indices' and Dow Jones Islamic Market Indices' Screening Methodologies</b>		
<b>SELECTION CRITERIA</b>	<b>S&amp;P SHARIAH INDICES</b>	<b>DOW JONES ISLAMIC MARKET INDICES</b>
<b>COMMON SECTOR EXCLUSIONS</b>		
Alcohol		
Gambling		
Movies		
Music		
Non-Islamic Finance (Banking, Insurance, Real Estate)		
Pork-Related Products		
Pornography		
Television		
Tobacco		
<b>VARIOUS ADDITIONAL SECTOR EXCLUSIONS</b>		
Cloning	X	
Hedging of Gold and Silver	X	
Weapons/Arms/Defense Goods Manufacturing		X
<b>NON-PERMISSIBLE INCOME THRESHOLD</b>		
Total Income from Non-Permissible Sources Not to Exceed		5%
<b>ACCOUNTING RATIO INCLUSION THRESHOLD</b>		
Total Debt		33%
Total Cash + Investments		33%
Total Receivables	49%	33%
Denominator	Three-Year Average Market Cap	Two-Year Average Market Cap
<b>DIVIDEND PURIFICATION</b>		
Formula Used for Constituent-Level Purification Purposes	$\frac{\text{Non - Permissible Revenue Including Interest}}{\text{Total Revenue}}$	
<b>SCREENING BASIS</b>		
Frequency Compliance Screening Applied	Monthly	Quarterly

Source: S&P Dow Jones Indices LLC. Table is provided for illustrative purposes.

## MAINTAINING THE INDEX

*Islamic and conventional indices tend to have similar long-term performance characteristics...*

The rebalancing frequency is another important factor to consider when evaluating Islamic indices, and it is an area that also serves as a distinguishing feature between S&P DJI's two index series. The S&P Shariah Indices are reviewed on a monthly basis, and companies that fail the review are removed each month. On the other hand, the Dow Jones Islamic Market Indices are reviewed quarterly. More frequent rebalancing presents the advantage of ensuring that noncompliant companies are removed and newly compliant companies are added as quickly as possible. As result, the frequent screening approach has resulted in higher turnover over some historical periods.

## PUTTING ISLAMIC INDICES TO USE

*...and are typically highly correlated.*

As discussed earlier, the need for Islamic indices has developed with the growing demand for Shariah-compliant investment solutions. Today, Shariah-compliant indices are widely used by Islamic and conventional banks, asset managers, and other financial institutions. The indices are used for several purposes, including serving as:

- Performance benchmarks for Shariah-compliant portfolios;
- The basis for index-linked investment products such as exchange-traded funds, mutual funds, and structured products; and
- Selection pools for actively managed portfolios.

## KEY INVESTMENT CHARACTERISTICS OF ISLAMIC INDICES

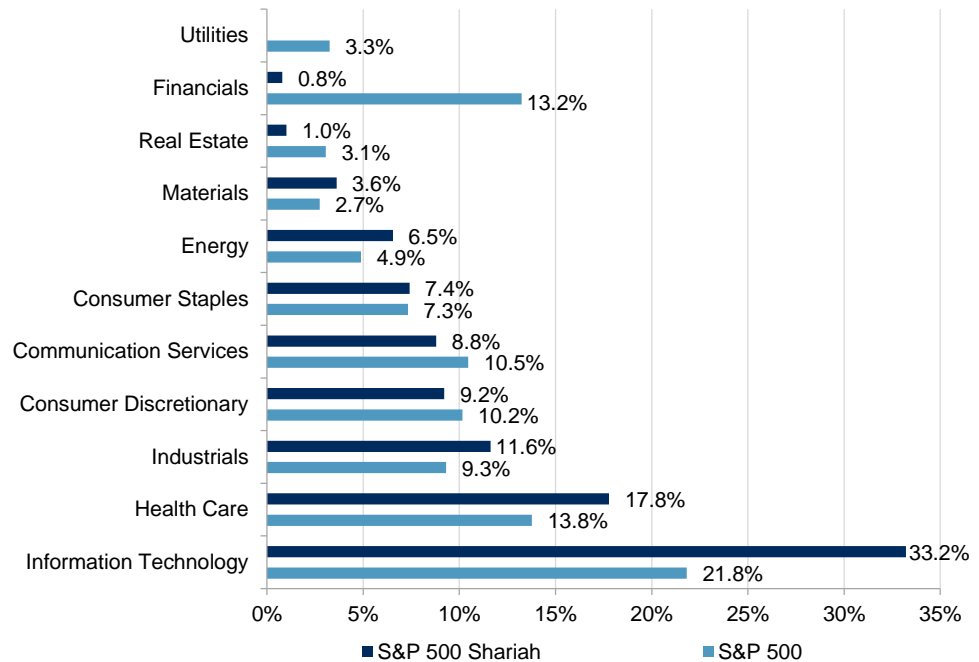
### 1. Sector Composition and Market Coverage

*Shariah-compliant indices are used by Islamic and conventional banks, asset managers, and other financial institutions.*

Despite having significant deviations from conventional indices in certain sector weights, Islamic and conventional indices tend to have similar long-term performance characteristics and are typically highly correlated. Exhibits 2 and 3 depict sector weights for the S&P 500 Shariah compared with the S&P 500 and for the [Dow Jones Islamic Market World Index](#) compared with the Dow Jones Global Index, respectively. Because nearly all firms involved in conventional financial services are not Shariah compliant, the Financials sector is the primary area of sector deviation. To a lesser extent, consumer-related sectors tend to be underrepresented as well, due to the exclusion of media and gaming firms, along with companies involved in the production or sale of alcohol, tobacco, and pork products. Likewise, Utilities tend to have limited representation, since these firms typically have relatively high leverage ratios. However, these sectors have relatively small weights in major U.S. and global equity benchmarks, therefore limiting their effect on historical returns.

**Exhibit 2: S&P 500 Shariah Sector Composition**

*Because nearly all firms involved in conventional financial services are non-compliant, Financials is the primary area of sector deviation.*

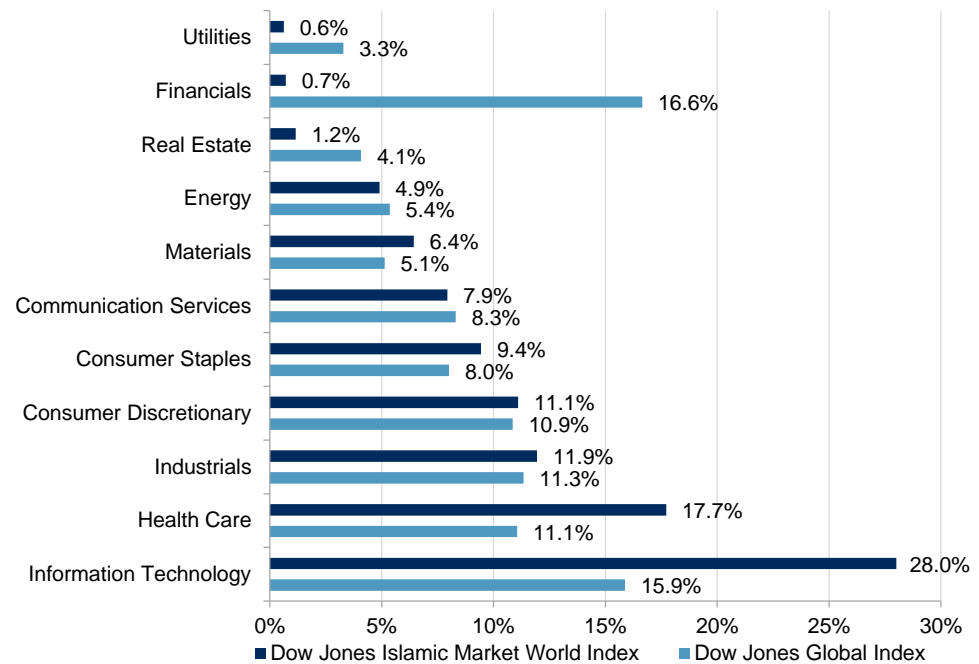


Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Chart is provided for illustrative purposes.

*Consumer-related and Utilities sectors are underrepresented in Shariah indices...*

**Exhibit 3: Dow Jones Islamic Market World Index Sector Composition**

*...but have relatively small weights in U.S. and global equity benchmarks, therefore limiting their effect on historical returns.*



Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Chart is provided for illustrative purposes.

After the removal of noncompliant companies, Islamic indices typically represent about one-half of the total float-adjusted market capitalization of their conventional benchmark indices. Exhibit 4 illustrates the coverage of the S&P 500 Shariah and Dow Jones Islamic Market World Index by sector.

As expected, it varies considerably, with the highest representation typically found in Information Technology, Health Care, Industrials, and Energy, and with the lowest in Financials, Utilities, and Communication services.

*Islamic indices typically represent about one-half of the total float-adjusted market cap of their respective benchmarks.*

**Exhibit 4: Sector Coverage of Shariah-Compliant Indices (Float-Adjusted Market Cap)**

SECTOR	S&P 500 SHARIAH (%)	DOW JONES ISLAMIC MARKET WORLD INDEX (%)
Communication Services	49.2	46.3
Consumer Discretionary	53.1	49.6
Consumer Staples	59.1	57.2
Energy	78.4	44.3
Financials	3.5	2.1
Health Care	75.6	77.8
Industrials	73.1	51.1
Information Technology	89.1	85.6
Materials	77.2	60.8
Real Estate	19.4	13.7
Utilities	0.0	9.2
<b>Total</b>	<b>58.5</b>	<b>48.5</b>

Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Table is provided for illustrative purposes.

*The highest sector coverage of Shariah indices was found in Information Technology, Health Care, Industrials, and Energy.*

## 2. Performance Characteristics

Over the long term, Islamic indices tend to perform similarly to conventional benchmarks. For the 15-year period ending July 31, 2019, the S&P 500 Shariah posted an annualized total return of 10.2%, while the S&P 500 gained 9.1%. Over the same period, the Dow Jones Islamic Market World Index and Dow Jones Global Index gained 8.4% and 7.7%, respectively.

**Exhibit 5: Comparative Performance Characteristics**

PERIOD	S&P 500 SHARIAH	S&P 500	DOW JONES ISLAMIC MARKET WORLD INDEX	DOW JONES GLOBAL INDEX
<b>RETURNS (%)</b>				
1-Year	9.4	8.0	5.5	2.6
3-Year	14.0	13.4	11.4	10.2
5-Year	11.6	11.3	8.2	6.7
10-Year	13.8	14.0	10.3	9.6
15-Year	10.2	9.1	8.4	7.7
<b>RISK (STANDARD DEVIATION, %)</b>				
1-Year	19.2	18.8	18.1	17.2
3-Year	12.4	12.1	11.7	11.2
5-Year	12.2	12.0	11.9	11.7
10-Year	12.5	12.6	13.2	13.3
15-Year	13.2	13.8	14.6	15.1

Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

*Over the long term, Islamic indices tend to perform similarly to conventional benchmarks.*

However, differences in performance can occur in periods when there is significant underperformance or outperformance in sectors that have large allocation differences between Islamic and conventional benchmarks. For example, as shown in Exhibit 6, the S&P 500 Shariah outperformed the S&P 500 in the period following the onset of the 2008 financial crisis, as Financials significantly underperformed overall, and Information Technology and Health Care outperformed the broader market.

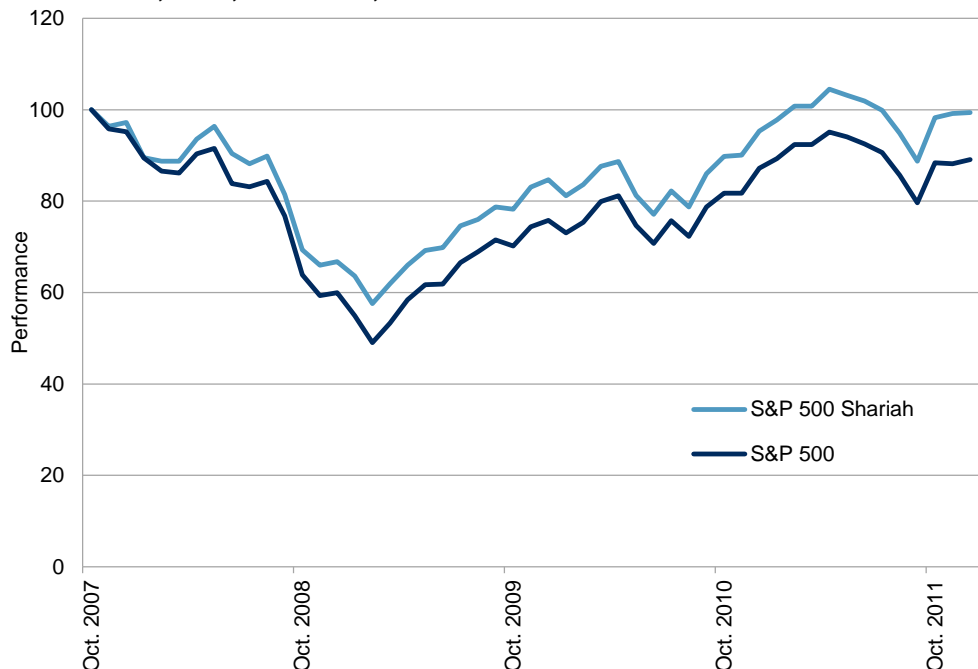
*Performance differences can occur in periods of significant under- or outperformance in sectors with large allocation differences between Islamic and conventional indices.*

In fact, in the period between Oct. 31, 2007 (the monthly peak of the S&P 500), and Dec. 30, 2011, the S&P 500 Financials sector declined nearly 58% on a total return basis, while the S&P 500 Information Technology sector declined merely 3%, and S&P 500 Health Care made a gain of 5% over the same period. Due in part to the significant divergence in the performance of these key sectors, the overall outperformance of the S&P 500 Shariah was meaningful over this period, as the annualized total returns of the S&P 500 Shariah and S&P 500 were -0.1% and -2.7%, respectively.

Notably, these performance levels can be reversed, as illustrated in 2016, when the Financials sector of the S&P 500 returned nearly 23%, and the Health Care and Information Technology sectors returned -3% and 14%, respectively. Due in part to the relative outperformance of the Financials sector, the S&P 500 Shariah underperformed the S&P 500 by approximately 3.5% in 2016.

*For example, following the 2008 financial crisis, due in part to Financials' underperformance and Information Technology and Health Care's outperformance...*

**Exhibit 6: Comparative Performance of the S&P 500 Shariah and the S&P 500 from Oct. 31, 2007, to Dec. 30, 2011**



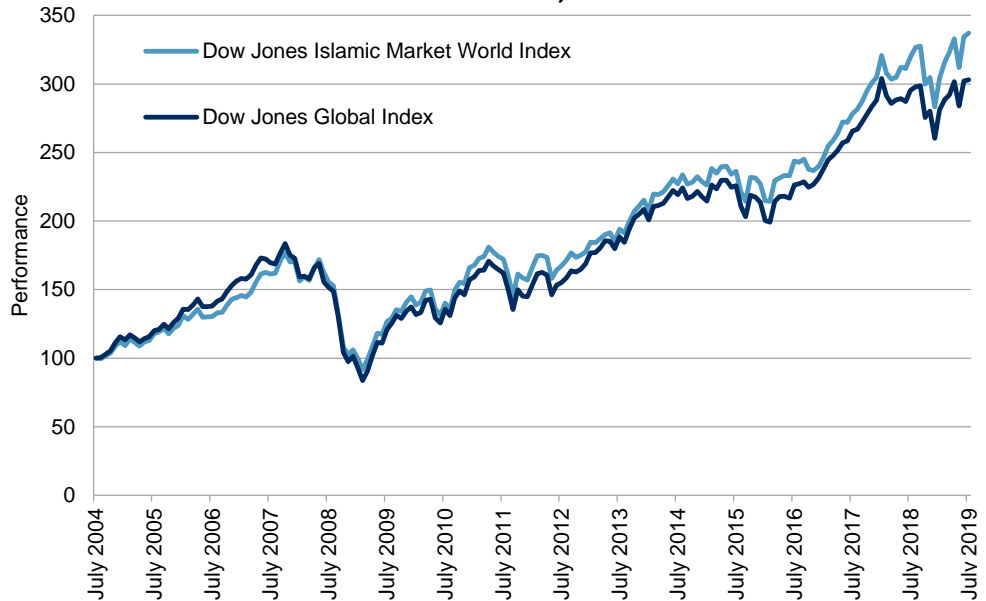
*...the annualized total returns of the S&P 500 Shariah and S&P 500 were -0.1% and -2.7%, respectively.*

Source: S&P Dow Jones Indices LLC. Data from Oct. 31, 2007, to Dec. 30, 2011. Past performance is no guarantee of future results. Chart is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Similar trends also occurred in global equity markets over this period. The Dow Jones Islamic Market World Index slightly underperformed the Dow Jones Global Index in the boom leading up to the financial crisis, but it outperformed over the following years, as Financials have generally lagged the broader market since the crisis.

*Global Islamic benchmarks also experienced significantly lower volatility following the global financial crisis.*

**Exhibit 7: Comparative 15-Year Performance (Dow Jones Islamic Market World Index versus Dow Jones Global Index)**



Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Chart is provided for illustrative purposes. Past performance is no guarantee of future results.

*The S&P 500 Shariah and Dow Jones Islamic Market World Index are highly correlated to their respective benchmarks.*

Also noteworthy is that Islamic benchmarks experienced significantly lower volatility during the global financial crisis because of their limited exposure to Financials. This has resulted in lower volatility over the trailing 15-year period.

### 3. High Correlations to Conventional Benchmarks

As illustrated in Exhibit 8, the S&P 500 Shariah and the Dow Jones Islamic Market World Index are highly correlated to their conventional counterparts. In fact, correlations have been close to 1.0 over the trailing 3-, 5-, and 10-year periods.

**Exhibit 8: Comparative Correlations**

PERIOD	S&P 500 SHARIAH TO S&P 500	DOW JONES ISLAMIC MARKET WORLD INDEX TO DOW JONES GLOBAL INDEX
3-Year	0.98	0.98
5-Year	0.99	0.98
10-Year	0.99	0.99

Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

## WHAT ABOUT BONDS?

*Sukuk have been developed as Shariah-compliant alternatives to conventional bonds.*

Because the charging or paying of interest is not permissible under Islamic law, conventional bonds are inherently not Shariah compliant.

Consequently, standard fixed income benchmarks cannot be screened for Shariah compliance, and Islamic investors seeking fixed income exposure have limited options. In order to meet the demand for Shariah-compliant fixed income products, Islamic financial institutions have created an alternative structure, called sukuk, which complies with Shariah investment principles.

*Unlike conventional bonds, which promise to repay a loan, sukuk constitutes partial ownership in a debt, asset, project, business, or investment.*

Unlike conventional bonds, which are a promise to repay a loan, sukuk constitutes partial ownership in a debt, asset, project, business, or investment. Most commonly issued sukuk structures replicate the cash flows of conventional bonds. They are structured to have a similar payoff and risk/return profile as conventional bonds, and they are made tradable through conventional organizations such as Euroclear or Clearstream.

By their nature, sukuk meet Shariah guidelines, so there is no further screening necessary to make them eligible for inclusion in a Shariah-compliant index or portfolio. S&P Dow Jones Indices launched the first sukuk index, the Dow Jones Sukuk Index,<sup>1</sup> in 2006. It currently includes 76 issues, primarily entities headquartered in the Gulf Cooperation Council and Southeast Asia.

**Exhibit 9: Dow Jones Sukuk Index Country Weights**

COUNTRY	INDEX WEIGHT (%)	NUMBER OF SECURITIES
Hong Kong	1.3	1
Indonesia	19.4	11
Kuwait	0.6	1
Malaysia	8.1	9
Qatar	5.9	5
Saudi Arabia	38.3	22
United Arab Emirates	24.2	25
UK	1.6	1
U.S.	0.6	1
<b>Total</b>	<b>100.0</b>	<b>76</b>

Source: S&P Dow Jones Indices LLC. Data as of July 31, 2019. Table is provided for illustrative purposes. Past performance is no guarantee of future results.

*S&P Dow Jones Indices launched the first sukuk index, the Dow Jones Sukuk Index, in 2006.*

<sup>1</sup> For more information on this index, please see: [Dow Jones Sukuk Total Return Index \(ex-Reinvestment\)](#).



## CONCLUSION

*As Shariah-compliant investors seek to create a diversified portfolio, Islamic indices provide market participants with a comprehensive set of benchmarks.*

As Shariah-compliant investors seek to create a diversified portfolio, Islamic indices provide market participants with a comprehensive set of benchmarks. These benchmarks define the universe of securities that can be utilized in constructing a wide array of Shariah-compliant investment solutions. Although Islamic equity indices are necessarily limited in coverage, particularly in certain sectors such as Financials, they have historically been highly correlated to and have had similar risk/return characteristics to conventional indices. Because interest is prohibited under Shariah law, gaining Shariah-compliant fixed income exposure is particularly challenging. However, sukuk indices have been developed to meet the demand for Shariah-compliant fixed income solutions.

## PERFORMANCE DISCLOSURE

The S&P 500 Shariah was launched December 19, 2006. All information presented prior to an index's Launch Date is hypothetical (back-tested), not actual performance. The back-test calculations are based on the same methodology that was in effect on the index 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. Complete index methodology details are available at [www.spdji.com](http://www.spdji.com). Past performance of the Index is not an indication of future results. Prospective application of the methodology used to construct the Index may not result in performance commensurate with the back-test returns shown.

S&P Dow Jones Indices defines various dates to assist our clients in 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 at a fixed value for calculation purposes. The Launch Date designates the date upon which 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 Dow Jones Indices 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 datafeed 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.

The back-test period does not necessarily correspond to the entire available history of the Index. Please refer to the methodology paper for the Index, available at [www.spdji.com](http://www.spdji.com) 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.

Another limitation of using back-tested information is that the back-tested calculation is generally prepared with the benefit of hindsight. Back-tested information reflects the application of the index methodology and selection of index constituents in hindsight. No hypothetical record can completely account for the impact of financial risk in actual trading. For example, there are numerous factors related to the equities, fixed income, or commodities markets in general which cannot be, and have not been accounted for in the preparation of the index information set forth, all of which can affect actual performance.

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