The S&P 500 is widely regarded as the best single gauge of U.S. large-cap equities. The index includes 500 leading companies spanning all sectors of the U.S. stock market. It covers approximately 80% of the U.S. equity market capitalization and over 50% of the global equity market.
Indexed Assets

Index-based funds offer a range of benefits relative to active management, including transparency, simplicity and low cost. As indexing has grown, investors have benefited substantially by saving on fees and avoiding underperformance.

At the end of 2021, S&P DJI estimates that USD 15.6 trillion was indexed or benchmarked to the S&P 500, with indexed (or passively managed) assets making up USD 7.1 trillion of this total.

Highlights from the 2021 Annual Survey of Indexed Assets:
- Since 1995, the growth in indexed assets (CAGR of 11.1%) has outpaced the price return of the S&P 500 (CAGR of 8.2%), indicating a substantial increase in flows.
- Since 2008, assets tracking the S&P 500 have grown substantially, when they represented approximately USD 1 trillion.
- In 2021 alone, assets tracking the S&P 500 grew by 30%.

S&P 500-Linked Savings

Passively managed assets have grown dramatically since the inception of indexing in the 1970s. Index funds now play a prominent role in global financial markets. The growth of indexing was driven by the failure of active managers, in aggregate, to outperform passive benchmarks.

We can estimate the fee savings each year by taking the difference in expense ratios between active and index equity mutual funds and multiplying this difference by the total value of indexed assets for the S&P 500. When we aggregate the results, we observe that the cumulative savings in management fees over the past 26 years is USD 379 billion.

S&P 500 Estimated Cumulative Savings and Annual Contribution (USD Billion)

Hard to Beat

**Most Active U.S. Large-Cap Equity Funds Underperform the S&P 500**

Since the first publication of the S&P Indices Versus Active Funds (SPIVA®) U.S. Scorecard in 2002, S&P Dow Jones Indices has been the de facto scorekeeper of the ongoing active versus passive debate, reporting on the results semiannually.

The chart below shows that over **50%** of U.S. Large-Cap active managers underperformed the S&P 500 in **18 of the past 21 years**.

**Percentage of U.S. Active Large-Cap Domestic Equity Funds Underperforming the S&P 500**

<table>
<thead>
<tr>
<th>Year</th>
<th>% Underperforming</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>65</td>
</tr>
<tr>
<td>2002</td>
<td>68</td>
</tr>
<tr>
<td>2003</td>
<td>75</td>
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<tr>
<td>2004</td>
<td>69</td>
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<td>2005</td>
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<tr>
<td>2020</td>
<td>60</td>
</tr>
<tr>
<td>2021</td>
<td>51</td>
</tr>
</tbody>
</table>

Source: S&P Dow Jones Indices LLC, CRSP. Data as of June 30, 2022. Past performance is no guarantee of future results. Chart is provided for illustrative purposes.

**Past Performance Is No Guarantee of Future Results**

As a companion to our SPIVA scorecards, S&P DJI produces the Persistence Scorecard, which looks at whether top active managers can retain their position relative to their peers.

The chart below investigates the track record of 163 top quartile, actively managed large-cap funds as of June 2020. The persistence of these funds was much worse than random. **Two years later, not a single fund managed to remain in the top quartile consecutively.**

**Manager Outperformance is Fleeting**

Source: S&P Dow Jones Indices LLC, CRSP. Data as of Jun. 30, 2022. From “U.S. Persistence Scorecard”. Figures are taken from Report 1. Performance Persistence of Top-Quartile Domestic Equity Funds over Three Consecutive 12-Month Periods. Past performance is no guarantee of future results. Chart is provided for illustrative purposes. For the blue bar illustration, in a full deck of 52 cards, there are typically four suits, hearts, clubs, diamonds and spades. Any suit has a 13/52 or 1/4 probability of being picked. The odds of a top-quartile fund randomly staying in the top quartile over the next two years are 25% * 25% = 6.25%, or 1/16.
Relevance of the S&P 500

The S&P 500 represents approximately 50% of the global equity market capitalization.

Many of the largest exchange-traded funds (ETFs) and mutual funds in the world track the S&P 500. The index supports a large and robust trading ecosystem that includes index futures and options.

With more than 65 years of live index history, the S&P 500 has a long and proud history. Investors analyze the S&P 500’s returns and constituents to understand how the U.S. equity market has evolved and reacted to a wide range of historical events.

Constructing the S&P 500

The S&P 500 is designed to measure the performance of index-eligible stocks listed on the NYSE and Nasdaq. It is weighted by float-adjusted market capitalization and includes liquidity and tradability criteria in the constituent selection process.

* S&P Composite 1500 market-cap guidelines are reviewed by the Index Committee on an as needed basis. For further information and the complete details on the eligibility criteria please see the U.S. Index Methodology and to learn about the governance process of S&P DJI please visit: https://www.spglobal.com/spdji/en/governance/.
S&P 500 Trading Ecosystem

The S&P 500 is at the center of a large trading “ecosystem” spanning different product types and related indices. Trading in the S&P 500 supports a network of different product types (LHS chart; futures, options and ETF options) and exposures (RHS chart; sectors, VIX-based strategies and factors).

The ecosystem of products linked to the S&P 500 generated USD 197 trillion in index equivalent trading volume in 2021, which is broken down in the graphic below. Our research shows that users of index-based products may wish to consider the volumes associated to an index as an important factor in choosing a product, due to historically higher liquidity supporting tighter spreads in products and a closer tracking to the benchmark.

Source: S&P Dow Jones Indices LLC, FIA, Bloomberg. Data as of Dec. 31, 2021. Updated from “A Window on Index Liquidity,” S&P Dow Jones Indices (2019) Figures in billions of U.S. dollars of index equivalent trading volumes. Chart is provided for illustrative purposes. Past performance is no guarantee of future results. *In 2019, Index Dividends was focused on product linked to our Dividend Points indices, whereas the new Dividends category also includes dividend-themed products for example the S&P 500 dividend families including Dividend Aristocrats, High Dividend, Low Volatility High Dividend and others. Data sources have also changed since the original publication of the paper. For further details see “Mapping the S&P 500 Trading Ecosystem.”
Index Series Based on the S&P 500
The S&P 500 Provides a Baseline for Several Flagship Indices

U.S. Core Equity
The S&P 500 Top 50 and S&P 100 are mega-cap indices that are subsets of the S&P 500.

Sectors & Industries
The S&P 500 sector indices follow the Global Industry Classification Standard (GICS®) which is a four-tiered industry classification where companies are classified by their principal business activity.
The S&P 500 serves as the basis for the Select Sector™ and Select Industry indices.

Equal Weight
The S&P 500 Equal Weight Index gives each company in the S&P 500 the same weight at each rebalance.

Style
Our style series includes broad, exhaustive style indices, as well as narrower, pure style indices.
Style: S&P 500 Growth and S&P 500 Value
Pure Style: S&P 500 Pure Growth and S&P 500 Pure Value

Factors
The S&P 500 single- and multi-factor indices track well-known factors including size, momentum, quality, low volatility and dividends.

Volatility
The Cboe Volatility Index (VIX®) gives market participants real-time insight into investor sentiment and expected levels of market volatility.

Sustainability
The S&P 500 ESG is a broad-based float market-cap weighted index. It measures the performance of securities meeting sustainability criteria, while maintaining similar overall industry group weights as the S&P 500.
S&P DJI provides a range of indices for a breadth of ESG preferences.

S&P PACT™ Indices (S&P Paris-Aligned & Climate Transition Indices)
These innovative indices track the performance of eligible equity securities, selected and weighted to be collectively compatible with a 1.5°C global warming climate scenario, in addition to several other climate-themed objectives.
S&P PACT Indices covers a range of flagship indices such as the S&P 500 Paris-Aligned & Climate Transition Indices.

The full suite of equity indices based on the S&P 500 is available at www.spglobal.com/spdji.
A Brief History of the S&P 500
65+ Years of Market Leadership

1923
Standard Statistics Company (now S&P Global) calculates the S&P Composite Index
Updated Weekly, cap-weighted index of 233 companies, covering 26 industries

1957
S&P 500 replaces 90 stock composite
Trading begins at 44.22

1976
First major retail indexed fund
Based on the S&P 500 Index

1983
Longest running listed index options:
Options listed on Cboe
March 11 | S&P 100
July 1 | S&P 500

1993
First U.S.-listed exchange traded fund
S&P 500

2003
World's first equal-weight ETF
Based on the S&P 500 Equal Weight Index

1926
S&P 90: Cap-weighted index of 90 companies
Updated Daily

1973
One of the first institutional indexed funds
Wells Fargo Stagecoach Fund (based on S&P 500)

1982
First listed index future:
S&P 500 index futures on CME

1986
Intraday frequency went from 1m to once every 15s
The current frequency is 1 second

1999
GICS® Introduced
In collaboration with MSCI

2004
First volatility derivatives
VIX futures on Cboe

Source: S&P Dow Jones Indices LLC. Table is provided for illustrative purposes. Please see https://www.spglobal.com/spdji/en/index-linked-products/ for further details. Please note S&P Dow Jones Indices does not sponsor, endorse, sell, or promote any product based on an S&P Dow Jones index nor does it make any representation regarding the advisability of investing in any products.

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At S&P Dow Jones Indices, we provide iconic and innovative index solutions backed by unparalleled expertise across the asset-class spectrum. By bringing transparency to the global capital markets, we empower investors everywhere to make decisions with conviction. We’re the largest global resource for index-based concepts, data and research, and home to iconic financial market indicators, such as the S&P 500® and the Dow Jones Industrial Average®. More assets are invested in products based upon our indices than any other index provider in the world. With over USD 8.3 trillion in passively managed assets linked to our indices and over USD 8.4 trillion benchmarked to our indices, our solutions are widely considered essential in tracking market performance, evaluating portfolios and developing investment strategies.

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