

Opportunities in Dividend and Thematic Indices

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S&P Dow Jones Indices

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S&P Dow Jones Indices – For Financial Professionals Only

Dividend

Why Dividend?

Why Dividend? Important Source of Equity Total Return



*no % from dividend and dividend reinvestment was calculated for 2000s due to negative total return.

Source: S&P Dow Jones Indices LLC. Data from Dec 31, 1939, to Sep 30, 2023. Index performance based on monthly total return in local currency. Past performance is no guarantee of future results. Chart is provided for illustrative purposes.

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Why Dividend? Alternative Source of Income



Source: S&P Dow Jones Indices LLC. Data as of Sep 30, 2023. Brazil, S&P/B3 Low Volatility High Dividend Index; Hong Kong, S&P Access Hong Kong Low Volatility High Dividend Index; Columbia, S&P Colombia Dividend Index; South Korea, S&P Korea Dividend Opportunities; Taiwan, Dow Jones Taiwan High Quality Dividend 30 Index; Australia, S&P/ASX Sustainability Screened Dividend Opportunities Index; Canada, S&P/TSX Composite Low Volatility High Dividend Index; China, S&P China A-Share Low Volatility High Dividend Index; U.S., S&P 500 Low Volatility High Dividend Index

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Why Dividend? Historical Outperformance against the Market



	Dividend Grower		High Yield					
	S&P 500 Aristocrats - S&P 500	Non Payer - Market	Low 1 - Market	Low 2 - Market	Mid - Market	High 4 - Market	High 5 - Market	
Observations	277	1087	1087	1087	1087	1087	1087	
Average	2.18%	-0.32%	-0.49%	0.19%	0.20%	1.63%	1.19%	
Standard Error	0.26%	0.23%	0.09%	0.06%	0.07%	0.09%	0.13%	
T-Stats	8.35	-1.35	-5.41	3.31	2.78	17.91	9.18	
# of Beat	201	477	521	530	659	763	633	
% of Beat	72.56%	43.88%	47.93%	48.76%	60.63%	70.19%	58.23%	

S&P Dow Jones Indices Source: S&P Dow Jones Indices LLC. Ken French Data Library. Data as of December 31, 2022. Index performance based on monthly total return in USD. 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.

Dividend Strategies

Dividend ETF Market

Over 50% of Dividend ETF Assets tracking S&P Dow Jones Dividend Indices

As of June 30, 2023, **\$212.9** billion in combined ETF assets were tracking S&P Dow Jones dividend indices, comprising leading ETF names in the US, Canada, International and Emerging markets.

250 212.9 200 uoillia Billiou 100 75.1 41.0 38.8 50 18.0 0 Index Index Index Index S&P Dow Provider 1 Provider 2 Provider 3 Provider 4 Jones

Global Dividend ETF AUM by Index Providers

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Rank	Name	Primary Benchmark
1	ETF Product 1	S&P US Dividend Growers TR USD
2		
3	ETF Product 2	Dow Jones US Dividend 100 TR USD
4		
5	ETF Product 3	S&P High Yield Dividend Aristocrats TR USD
6	ETF Product 4	Dow Jones US Select Dividend TR USD
7		
8		
9	ETF Product 5	S&P 500 Dividend Aristocrats TR USD
10		

S&P 500 Dividend Aristocrats

S&P Dividend Aristocrats Family Introduction

- The S&P Dividend Aristocrats® Indices measure the performance of companies that have increased/maintained dividends for a specified number of years.
- The index family currently consists of:

Region	Index	Country	Index
Global	S&P Global Dividend Aristocrats S&P Global Dividend Aristocrats Quality Income	U.S.	S&P 500 Dividend Aristocrats S&P High Yield Dividend Aristocrats
Developed	S&P Developed Dividend Aristocrats	U.K.	S&P UK High Yield Dividend Aristocrats
Eurozone	S&P Euro High Yield Dividend Aristocrats	Canada	S&P/TSX Canadian Dividend Aristocrats
Pan Asia	S&P Pan Asia Dividend Aristocrats	Japan	S&P/JPX Dividend Aristocrats
Dividend Growth/Maintenance Requirement		Dividend Yiel	d of S&P Dividend Aristocrats

Required No. of Years of Increasing or Maintaining Dividends







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Indices S&P UK Dividend Aristocrats Index required increasing/stable dividend for at least 10 years prior to June 2018. Source: S&P Dow Jones Indices LLC. Data as of Sep 30, 2023.

S&P 500 Dividend Aristocrats A Long History of Dividend Growth



S&P Dow Jones Indices

A Division of S&P Global Source: S&P Dow Jones Indices LLC. Data as of Feb 1, 2023.

S&P 500 Dividend Aristocrats Historical Outperformance

Dec 31, 1989 = 100 4500 -S&P 500 -S&P 500 Dividend Aristocrats 4000 3500 3000 log 2500 2000 1500 1000 500 0 1000 റ $\sim \sim$ \circ 0 0 \Box

Rolling Excess Returns Against S&P 500

	Rolling 1-Year	Rolling 3-Year	Rolling 5-Year	Rolling 10-Year	Rolling 15-Year
Number of Observation	394	370	346	286	226
Number of Months Beating S&P 500	221	209	222	236	226
% of Months Beating S&P 500	56.1%	56.5%	64.2%	82.5%	100.0%
Average Excess Return	1.3%	1.3%	1.5%	2.2%	2.6%

Up/Down Market Performance

	Number of Observations	Number of Months Beating S&P 500	Win Rate	Average Excess Return
S&P 500 Up months	266	116	43.6%	-0.37%
S&P 500 Down months	139	95	68.3%	1.02%

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S&P 500 Dividend Aristocrats Defensive



S&P Dow Jones

Source: S&P Dow Jones Indices LLC. Dividend yield data from Jan 31, 2000 to Sep 30, 2023. Index performance based on monthly total return in USD. 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. Indices 13 A Division of S&P Global

S&P 500 Dividend Aristocrats Improved Risk/Return Profile in Combination



S&P Dow Jones Indices

Source: S&P Dow Jones Indices LLC. Dividend yield data from Dec 31, 1989 to Sep 30, 2023. Index performance based on monthly total return in USD. 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..

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S&P Dividend Monarchs

S&P Dividend Monarchs Index Methodology

- Universe: S&P Composite 1500
- Size: Float-adjusted Market Cap >= USD 2 billion
- **Liquidity:** 3-month ADVT >= USD 5 million
- Stability Criteria:
- Dividend Growth: Constituents must have increased dividends every year for at least 50 consecutive years.
- Selection: All eligible stocks
- Weightings: by indicated annual dividend yield, subject to 5% single stock weight cap

Rebalancing: Annually in January with a quarterly re-weighting

S&P Dividend Monarchs At Least **50 Years** of Increasing Dividends



S&P Dividend Monarchs Market Cap Distribution and Sector Exposure









■S&P 500 ■S&P 400 ■S&P 600

S&P Dow Jones Source: S&P Dow Jones Indices LLC. Data as of Sep 30, 2023. Indices

17.8%

S&P Dividend Monarchs Long-Standing Names

# Company	GICS Sector	Weight	# Company	GICS Sector	Weight
1 AbbVie Inc.	Health Care	5.7%	19 Commerce Bancshares Inc (MO)	Financials	2.5%
2 3M Co	Industrials	5.0%	20 RPM International Inc.	Materials	2.4%
3 Federal Realty Invt Trust	Real Estate	4.8%	21 Illinois Tool Works Inc	Industrials	2.3%
4 National Fuel Gas	Utilities	4.8%	22 ABM Industries Inc	Industrials	2.3%
5 Leggett & Platt	Consumer Discretionary	4.8%	23 SJW Group	Utilities	2.2%
6 Black Hills Corp	Utilities	4.3%	24 California Water Services Group	Utilities	2.2%
7 Sonoco Products Co	Materials	4.0%	25 Lowe's Cos Inc	Consumer Discretionary	2.1%
8 Kimberly-Clark	Consumer Staples	3.7%	26 American States Water Co	Utilities	2.0%
9 Stanley Black & Decker	Industrials	3.7%	27 Abbott Laboratories	Health Care	2.0%
10 Coca-Cola Co	Consumer Staples	3.4%	28 PPG Industries Inc	Materials	1.8%
11 Target Corp	Consumer Staples	3.4%	29 Lancaster Colony Corp	Consumer Staples	1.8%
12 Hormel Foods Corp	Consumer Staples	3.2%	30 Becton Dickinson & Co	Health Care	1.6%
13 Johnson & Johnson	Health Care	3.0%	31 Dover Corp	Industrials	1.6%
14 PepsiCo Inc	Consumer Staples	3.0%	32 Stepan Co	Materials	1.5%
15 Emerson Electric Co	Industrials	3.0%	33 Fuller H.B. Co	Materials	1.3%
16 Procter & Gamble	Consumer Staples	2.9%	34 MSA Safety Inc	Industrials	1.3%
17 Colgate-Palmolive Co	Consumer Staples	2.8%	35 W.W. Grainger Inc	Industrials	1.0%
18 Genuine Parts Co	Consumer Discretionary	2.5%	36 Kenvue Inc.	Consumer Staples	0.2%

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Source: S&P Dow Jones Indices LLC. Data as of Sep 30, 2023. 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.

S&P Dividend Monarchs Most Dividend Monarchs Outperformed the S&P 500



Dividend Strategies for Japan Market

Japan Dividend Market A Continuously Growing Dividend Pool with Resilience



Source: S&P Dow Jones Indices LLC. FactSet. Data as of December 31, 2022., covering companies from S&P Japan BMI. 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.

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Japan High Yield Strategy High Dividend Yield Strategy Outperformed the Market



Source: S&P Dow Jones Indices LLC. FactSet, Data from December 31, 2007, to December 31, 2022. Equal Weighted Performance of KOSPI 200 stocks sorted into dividend portfolios

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S&P/JPX Dividend Aristocrats Index Methodology

- Universe: TOPIX
- Size: Float-adjusted Market Cap >= JPY 50 billion
- **Liquidity:** 3 month ADVT >= JPY 300 million

Stability Criteria:

- Dividend Growth: Constituents must have increased dividends or maintained stable dividends every year for at least 10 consecutive years
- Payout Ratio: between 0 and 100%
- Dividend Yield: between 0 and 10%

Selection: Top 50 stocks with the highest 12-month trailing dividend yields

Weightings: Yield Weighted, subject to 5% single stock weight cap and 30% sector weight cap

Rebalancing: Annually in July with semi-annual re-weighting

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Source: S&P Dow Jones Indices LLC. Data as of Sep 30, 2023. 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..

S&P/JPX Dividend Aristocrats Long History of Dividend Increase or Maintenance

- While the hurdle for index inclusion is 10 straight years of increasing or maintaining dividends, the index average is 17.3 years.
- Additionally, there are 8 constituents with over 25 consecutive years of dividend increases or maintenance.



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S&P/JPX Dividend Aristocrats Historical Outperformance



JPY, TR,	S&P/JPX Dividend	
as of Sep 30, 2023	Aristocrats	ΤΟΡΙΧ
Ann. Rtn (%)		
1-Year	40.41	29.80
3-Year	23.25	15.41
5-Year	9.54	7.64
10-Year	12.55	9.32
20-Year	7.69	6.29
Since 31 Jul, 2006	9.02	4.51
Ann. Vol (%)		
1-Year	8.19	10.38
3-Year	11.19	12.49
5-Year	15.57	15.20
10-Year	13.52	14.63
20-Year	14.00	16.82
Since 31 Jul, 2006	15.08	17.17
Rtn/Vol		
1-Year	4.93	2.87
3-Year	2.08	1.23
5-Year	0.61	0.50
10-Year	0.93	0.64
20-Year	0.55	0.37
Since 31 Jul, 2006	0.60	0.26

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S&P/JPX Dividend Aristocrats Rolling Returns against the TOPIX



	Rolling 1- Year	Rolling 3- Year	Rolling 5- Year	Rolling 10- Year
Number of Observations	195	171	147	87
Number of Months Beating TOPIX	136	126	115	85
% of Months Beating S&P 500	69.7%	73.7%	78.2%	97.7%
Average Excess Return	3.7%	3.5%	3.4%	3.5%

S&P Dow Jones Indices Source: S&P Dow Jones Indices LLC. Data from Jul 31, 2006 to Sep 30, 2023. Index performance based on monthly total return in JPY. 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.

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S&P/JPX Dividend Aristocrats Up/Down Market Performance



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Source: S&P Dow Jones Indices LLC. Data from Jul 31, 2006 to Sep 30, 2023. Index performance based on monthly total return in JPY. 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 S&P Dow Jones Indices – For Financial Professionals Only regarding the inherent limitations associated with back-tested performance..

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S&P/JPX Dividend Aristocrats Improved Risk/Return Profile in Combination

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Thematic

Introduction: Who is Kensho? Data Analytics & Machine Intelligence Company

- Started in 2013 out of Cambridge, MA offices in New York City and Washington DC
- Initial investors included Google, Goldman Sachs, and NBC Universal (CNBC)
- S&P Global acquired Kensho Technologies in April 2018
- Firm leverages artificial intelligence and alternative data to provide sophisticated analytical tools to some of the largest global banks and hedge funds
- Recognized as one of the most innovative artificial intelligence companies within Fintech
- Named as 2023's Best Artificial Intelligence (AI) Technology Provider by Waters Rankings.



TECH PIONEER World Economic Forum



AI 100 CB INSIGHTS

#1 FINTECH 50

Forbes

TOP 5 HOTTEST IN FINTECH Fortune



Best Al Technology Provider Waters Ranking

Pursuing Potential with Artificial Intelligence Capturing Opportunities before Reflected in the Revenue

- Apple first mentions 'Mobile' in filings in 2006, iPhone launches in 2007
- <10% of revenue until 2009 for an interim annualized return of 56% vs 22% following
- Alternative data provides opportunities to look ahead and capture the full upside



S&P Dow Jones Indices

Introducing: S&P Kensho New Economies the Fourth Industrial Revolution Opportunities

A comprehensive framework with which to understand and precisely capture exponential innovation and growth – 21st Century Sectors

		Tracking Indices	
New Economie	s Composite (KNEX)^#	New Ec	conomies Select (KNESLX)^
Sector	ors		Subsectors
Intelligent Infrastructure (KINFRA)#	(10) (19)	1 Space (KMARS) [^]	(14) Sustainable Farming (KFARM)
Smart Transportation (KMOVE)#	7 11 20 21	2 Robotics (KBOTS)^	(15) Genetic Engineering (KDNA)^
Future Security (KSECURE)*	1245679	3 Clean Energy (KENERGY)*	(16) 3D Printing (KDDDP)^
Clean Power (KPOWER) [#]	38	4 Cyber Security (KCYBER)*	17 Nanotechnology (KNANO)^
Final Frontiers (KEXPLORE) #	17	5 Smart Borders (KDMZ)*	(18) Smart Factories (KFACT)*
Future Communication (KCONNECT)	9 12 13	6 Wearables (KBORG)^	(19) Smart Grids (KGRIDS)*
Democratized Banking (KFIN)^	22 23 24	7 Drones (KDRONE) [^]	20 Adv. Transport Systems (KATS)*
Human Evolution (KEVOLVE)	269151617	8 Clean Tech (KCLEAN) [^]	21) Electric Vehicles (KEV)^
Advanced Manufacturing (KMAKE)	291618	9 Virtual Reality (KVR) [^]	22 Alternative Financing (KALTFIN)*
Sustainable Staples (KSTAPLE)	127141516	(10) Smart Buildings (KHOME)*	23 Future Payments (KPAY)*
		1 Autonomous Vehicles (KCARS)^	24 Distributed Ledger (KLEDGER)*
		12 Digital Communities (KSOCIAL)*	25 Digital Health (KDOC)*
		(13) Enterprise Collaboration (KTEAM)^	

#: Tracked by State Street SPDRs ^: Tracked by MUKAM eMAXIS

*Tracked by other funds

Research Content

Dividend Strategy with Quality Yields – The Dow Jones Dividend 100 Indices:

https://www.spglobal.com/spdji/en/education/article/dividend-strategy-with-quality-yields-the-dow-jones-dividend-100-indices

S&P Dividend Monarchs Talking Points:

https://www.spglobal.com/spdji/en/education/article/talkingpoints-sp-dividend-monarchs-index/

S&P 500 Dividend Aristocrats: The Importance of Stable Dividend Income

https://www.spglobal.com/spdji/en/research/article/a-fundamental-look-at-sp-500-dividend-aristocrats

The Case for Indexing Thematics with the Kensho New Economies

https://www.spglobal.com/spdji/en/research/article/the-case-for-indexing-thematics-with-the-sp-kensho-new-economies

S&P Kensho Hydrogen Economy: Gauging Opportunities from the Hydrogen Economy

https://www.spglobal.com/spdji/en/education/article/gauging-opportunities-from-the-hydrogen-economy

S&P Kensho Electric Vehicle: Driving Toward a Greener Future

https://www.spglobal.com/spdji/en/education/article/driving-toward-a-greener-future

S&P Kensho Enterprise Collaboration : Collaborating Effectively in the Rise of Remote Work

https://www.spglobal.com/spdji/en/education/article/collaborating-efficiently-in-the-rise-of-remote-work

Appendix

Dow Jones U.S. Dividend 100 Index Methodology

Universe

Start with Dow Jones U.S. Broad Market Index, excluding REITs, subject to:

- Size: FMC>= US\$ 500 million
- Liquidity: 3M ADVT >= US\$ 2 million

Dividend Selection

Dividend Payment:

Dividend: minimum 10 consecutive years of dividend payments

Dividend Selection:

Stocks that pass the screens are ranked in descending order by indicated annual dividend yield.

The **top half** are eligible for selection.

Fundamental Selection

Stocks are then ranked by a

- Cash-flow-to-total-debt ratio,

- Five-year dividend growth

The top 100 are selected as

composite score of

- Dividend vield,

constituents.

- ROE.

ratio.

fundamental metrics:

Rebal & Weighting

Weighted by FMC, subject to capping rules of:

single stock <= 4%, GICS sector <= 25%

Rebalanced annually in March

Dow Jones U.S. Dividend 100 Higher Dividend Yield and Improved Quality Metrics



S&P Dow Jones Indices Source: S&P Dow Jones Indices LLC. FactSet. Dividend yield data from December 31, 2002 to June 30, 2023. Fundamental data as of June 30, 2023. Index performance based on monthly total return in USD. 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.

Dow Jones U.S. Dividend 100 Historical Outperformance



Dow Jones U.S. Dividend 100 Index S&P 500						
Ann Rtn (%)	Dividenta 100 maex	3&F 300				
1-Year	5.21	19.59				
3-Year	15.91	14.60				
5-Year	11.85	12.31				
7-Year	11.98	13.38				
10-Year	11.81	12.86				
15-Year	11.79	10.88				
Since 31 Dec, 1998	10.62	7.38				
Ann. Vol (%)						
1-Year	18.78	20.58				
3-Year	17.08	18.19				
5-Year	18.07	18.79				
7-Year	15.82	16.31				
10-Year	14.42	14.93				
15-Year	15.32	16.14				
Since 31 Dec, 1998	14.40	15.35				
Rtn/Vol						
1-Year	0.28	0.95				
3-Year	0.93	0.80				
5-Year	0.66	0.65				
7-Year	0.76	0.82				
10-Year	0.82	0.86				
15-Year	0.77	0.67				
Since 31 Dec, 1998	0.74	0.48				

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Dow Jones U.S. Dividend 100 Rolling Returns against the S&P 500



Source: S&P Dow Jones Indices LLC. Data from December 31, 2000 to June 30, 2023. Index performance based on monthly total return in USD. 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.

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Dow Jones U.S. Dividend 100 Outperformance under Market Drawdowns



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Dow Jones U.S. Dividend 100 Improved Risk/Return Profile in Combination



S&P Dow Jones Indices Source: S&P Dow Jones Indices LLC. Data from April 30, 2005 to June 30, 2023. Index performance based on monthly total return in USD. 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.

S&P 500 Quality High Dividend

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The S&P 500 Quality High Dividend Index seeks to track quality stocks with high dividend yields - it selects stocks that rank within the top 200 of the S&P 500 by quality score and dividend yield

methodology of	lapsnot	Dividend Yield and Performance
Universe	S&P 500	6.00
Selection	 Stocks that meet both criteria are selected: 1) Ranks within the top 200 of the index universe by quality score. 2) Ranks within the top 200 of the index universe by indicated annual dividend yield 	0.00 5.00 4.00 0
Weighting	Equally weighted	
Capping	GICS sector weight<= 25%	
Rebalancing	Semi-annually in June and December	Ann. Rtn (%)
	S&P 500 Ouality Top 200	1-Year -18.11 -0.31 3-Year 7.66 8.93 5-Year 9.42 8.56 10-Year 12.56 13.09 Since 31 Dec, 1996 8.53 12.08 Ann. Vol (%) -0.31 -0.31
S&P 500 S&P 50		3-Year 21.16 22.98 5-Year 18.69 20.30 10-Year 14.77 16.06 Since 31 Dec, 1996 15.71 15.67 Rtn/Vol 81.71 15.67
S&P Dow Jones		3-Year 0.36 0.39 5-Year 0.50 0.42 10-Year 0.85 0.82 Since 31 Dec, 1996 0.54 0.77

Source: S&P Dow Jones Indices LLC. Data as of December 31, 2022. Index performance based on monthly total return in USD. 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.

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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. Back-tested performance is for use with institutions only; not for use with retail investors.

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