

# MSCI ACWI EX IRELAND INDEX (USD)

The MSCI ACWI ex Ireland Index captures large and mid cap representation across 22 of 23 Developed Markets (DM) countries (excluding Ireland) and 24 Emerging Markets (EM) countries\*. With 2,750 constituents, the index covers approximately 85% of the global equity opportunity set outside Ireland.

## CUMULATIVE INDEX PERFORMANCE - GROSS RETURNS (USD) (DEC 2003 – DEC 2018)



## ANNUAL PERFORMANCE (%)

Year	MSCI ACWI ex Ireland	MSCI World	MSCI ACWI
2018	-8.90	-8.20	-8.93
2017	24.63	23.07	24.62
2016	8.51	8.15	8.48
2015	-1.86	-0.32	-1.84
2014	4.71	5.50	4.71
2013	23.42	27.37	23.44
2012	16.81	16.54	16.80
2011	-6.88	-5.02	-6.86
2010	13.25	12.34	13.21
2009	35.44	30.79	35.41
2008	-41.76	-40.33	-41.85
2007	12.31	9.57	12.18
2006	21.44	20.65	21.53
2005	11.42	10.02	11.37

## INDEX PERFORMANCE — GROSS RETURNS (%) (DEC 31, 2018)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Dec 31, 1998
MSCI ACWI ex Ireland	-7.01	-12.64	-8.90	-8.90	7.20	4.83	10.06	5.04
MSCI World	-7.57	-13.31	-8.20	-8.20	6.91	5.14	10.29	4.91
MSCI ACWI	-7.00	-12.65	-8.93	-8.93	7.18	4.82	10.05	5.02

## FUNDAMENTALS (DEC 31, 2018)

	Div Yld (%)	P/E	P/E Fwd	P/BV
MSCI ACWI ex Ireland	2.78	15.47	13.02	2.05
MSCI World	2.76	16.09	13.45	2.15
MSCI ACWI	2.78	15.47	13.02	2.05

## INDEX RISK AND RETURN CHARACTERISTICS (DEC 31, 2018)

	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2, 3</sup>			Since Dec 31, 1998	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI ACWI ex Ireland	2.37	10.63	10.87	14.65	0.59	0.42	0.69	0.26	57.98	2007-10-31—2009-03-09
MSCI World	2.02	10.54	10.78	14.39	0.57	0.45	0.72	0.26	57.46	2007-10-31—2009-03-09
MSCI ACWI	2.40	10.63	10.87	14.65	0.59	0.42	0.69	0.26	58.06	2007-10-31—2009-03-09

<sup>1</sup> Last 12 months      <sup>2</sup> Based on monthly gross returns data      <sup>3</sup> Based on ICE LIBOR 1M

\* DM countries include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the UK and the US. EM countries include: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Qatar, Russia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI ACWI ex Ireland Index was launched on Oct 09, 2015. Data prior to the launch date is back-tested data (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance -- whether actual or back-tested -- is no indication or guarantee of future performance.

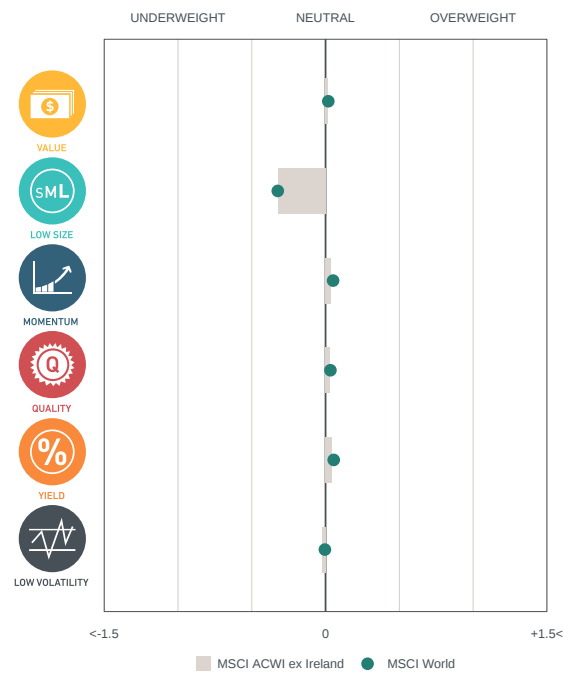
### INDEX CHARACTERISTICS

MSCI ACWI ex Ireland	
Number of Constituents	2,750
Mkt Cap ( USD Millions)	
Index	40,498,323.56
Largest	761,872.53
Smallest	28.84
Average	14,726.66
Median	5,093.53

### TOP 10 CONSTITUENTS

	Float Adj Mkt Cap ( USD Billions)	Index Wt. (%)	Sector
APPLE	761.87	1.88	Info Tech
MICROSOFT CORP	739.92	1.83	Info Tech
AMAZON.COM	622.69	1.54	Cons Discr
JOHNSON & JOHNSON	346.21	0.85	Health Care
JPMORGAN CHASE & CO	328.09	0.81	Financials
ALPHABET C	326.11	0.81	Communication Services
FACEBOOK A	316.15	0.78	Communication Services
ALPHABET A	312.35	0.77	Communication Services
EXXON MOBIL CORP	288.70	0.71	Energy
BERKSHIRE HATHAWAY B	264.93	0.65	Financials
Total	4,307.02	10.64	

### FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN MSCI FACTOR BOX



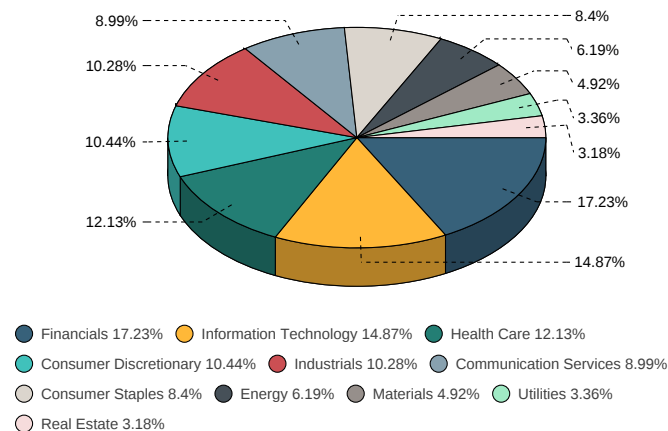
### MSCI FaCS

- VALUE**  
Relatively Inexpensive Stocks
- LOW SIZE**  
Smaller Companies
- MOMENTUM**  
Rising Stocks
- QUALITY**  
Sound Balance Sheet Stocks
- YIELD**  
Cash Flow Paid Out
- LOW VOLATILITY**  
Lower Risk Stocks

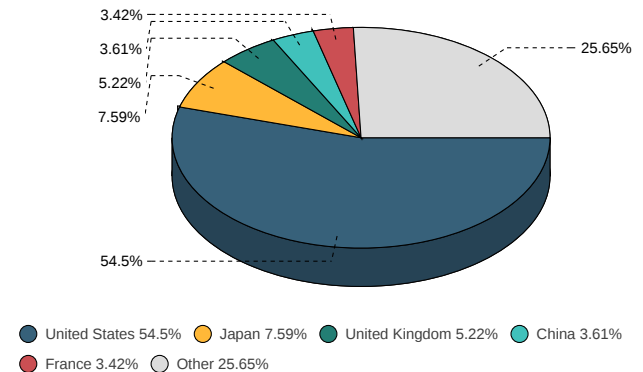
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

### SECTOR WEIGHTS



### COUNTRY WEIGHTS



## INDEX METHODOLOGY

The index is based on the [MSCI Global Investable Market Indexes \(GIMI\) Methodology](#) —a comprehensive and consistent approach to index construction that allows for meaningful global views and cross regional comparisons across all market capitalization size, sector and style segments and combinations. This methodology aims to provide exhaustive coverage of the relevant investment opportunity set with a strong emphasis on index liquidity, investability and replicability. The index is reviewed quarterly—in February, May, August and November—with the objective of reflecting change in the underlying equity markets in a timely manner, while limiting undue index turnover. During the May and November semi-annual index reviews, the index is rebalanced and the large and mid capitalization cutoff points are recalculated.

## FACTOR BOX AND FaCS METHODOLOGY

MSCI FaCS is a standard method ([MSCI FaCS Methodology](#)) for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

## ABOUT MSCI

For more than 40 years, MSCI' research-based indexes and analytics have helped the world' leading investors build and manage better portfolios. Clients rely on our offerings for deeper insights into the drivers of performance and risk in their portfolios, broad asset class coverage and innovative research. Our line of products and services includes indexes, analytical models, data, real estate benchmarks and ESG research. MSCI serves 99 of the top 100 largest money managers, according to the most recent P&I ranking. For more information, visit us at [www.msci.com](http://www.msci.com).

The information contained herein (the "Information") may not be reproduced or disseminated in whole or in part without prior written permission from MSCI. The Information may not be used to verify or correct other data, to create indexes, risk models, or analytics, or in connection with issuing, offering, sponsoring, managing or marketing any securities, portfolios, financial products or other investment vehicles. Historical data and analysis should not be taken as an indication or guarantee of any future performance, analysis, forecast or prediction. None of the Information or MSCI index or other product or service constitutes an offer to buy or sell, or a promotion or recommendation of, any security, financial instrument or product or trading strategy. Further, none of the Information or any MSCI index is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. The Information is provided "as is" and the user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. NONE OF MSCI INC. OR ANY OF ITS SUBSIDIARIES OR ITS OR THEIR DIRECT OR INDIRECT SUPPLIERS OR ANY THIRD PARTY INVOLVED IN THE MAKING OR COMPILING OF THE INFORMATION (EACH, AN "MSCI PARTY") MAKES ANY WARRANTIES OR REPRESENTATIONS AND, TO THE MAXIMUM EXTENT PERMITTED BY LAW, EACH MSCI PARTY HEREBY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WITHOUT LIMITING ANY OF THE FOREGOING AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL ANY OF THE MSCI PARTIES HAVE ANY LIABILITY REGARDING ANY OF THE INFORMATION FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR ANY OTHER DAMAGES EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES. The foregoing shall not exclude or limit any liability that may not be applicable law be excluded or limited.

© 2019 MSCI Inc. All rights reserved.