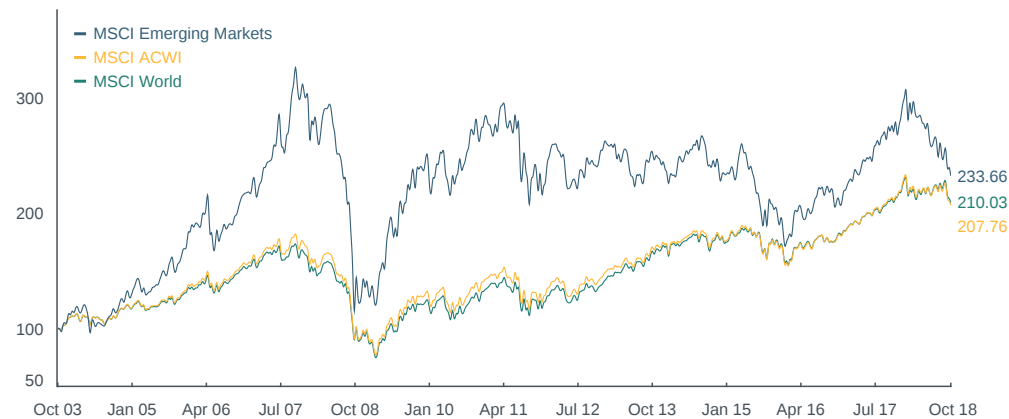


# MSCI EMERGING MARKETS INDEX (USD)

The MSCI Emerging Markets Index captures large and mid cap representation across 24 Emerging Markets (EM) countries\*. With 1,151 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

## CUMULATIVE INDEX PERFORMANCE - PRICE RETURNS (USD) (OCT 2003 – OCT 2018)



## ANNUAL PERFORMANCE (%)

Year	MSCI Emerging Markets	MSCI ACWI	MSCI World
2017	34.35	21.62	20.11
2016	8.58	5.63	5.32
2015	-16.96	-4.26	-2.74
2014	-4.63	2.10	2.93
2013	-4.98	20.25	24.10
2012	15.15	13.43	13.18
2011	-20.41	-9.41	-7.61
2010	16.36	10.42	9.55
2009	74.50	31.51	26.98
2008	-54.47	-43.54	-42.08
2007	36.46	9.64	7.09
2006	29.18	18.78	17.95
2005	30.31	8.83	7.56
2004	22.45	13.30	12.84

## INDEX PERFORMANCE — PRICE RETURNS (%) (OCT 31, 2018)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Dec 31, 1987
MSCI Emerging Markets	-8.78	-12.10	-14.58	-17.48	4.08	-1.57	5.30	7.59
MSCI ACWI	-7.57	-6.78	-2.43	-5.55	5.62	4.06	7.45	5.25
MSCI World	-7.42	-6.09	-0.73	-3.87	5.83	4.76	7.76	5.32

## FUNDAMENTALS (OCT 31, 2018)

Div Yld (%)	P/E	P/E Fwd	P/BV
2.94	12.32	10.20	1.52
2.58	17.06	13.76	2.19
2.54	17.91	14.37	2.31

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

	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2, 3</sup>			Since Dec 31, 1987	MAXIMUM DRAWDOWN (%)	Period YYYY-MM-DD
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr			
MSCI Emerging Markets	6.84	14.79	15.02	19.49	0.27	-0.08	0.33	0.29	66.05	2007-10-29—2008-10-27
MSCI ACWI	2.61	9.73	10.32	14.65	0.50	0.37	0.53	0.19	59.61	2007-10-31—2009-03-09
MSCI World	2.19	9.46	10.15	14.35	0.53	0.44	0.56	0.19	59.07	2007-10-31—2009-03-09

<sup>1</sup> Last 12 months

<sup>2</sup> Based on monthly price returns data

<sup>3</sup> Based on ICE LIBOR 1M

\* 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 Emerging Markets Index was launched on Jun 30, 1988. 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

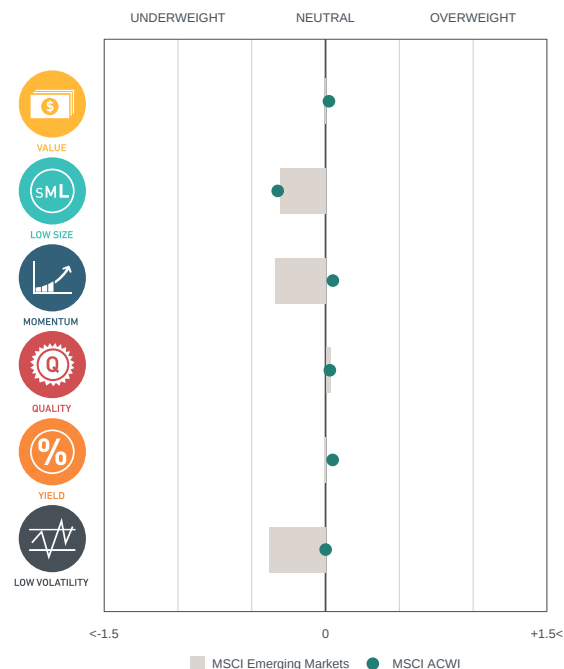
MSCI Emerging Markets	
Number of Constituents	1,151
Mkt Cap ( USD Millions)	
Index	4,731,813.53
Largest	194,210.09
Smallest	22.03
Average	4,111.05
Median	1,698.06

### TOP 10 CONSTITUENTS

Country	Float Adj Mkt Cap ( USD Billions)	Index Wt. (%)	Sector
CN	194.21	4.10	Info Tech
TW	186.29	3.94	Info Tech
KR	179.14	3.79	Info Tech
CN	164.51	3.48	Info Tech
ZA	77.02	1.63	Cons Discr
CN	76.30	1.61	Financials
CN	57.43	1.21	Telecom Srvc
CN	52.59	1.11	Info Tech
CN	49.11	1.04	Financials
BR	48.41	1.02	Materials
Total		1,085.02	22.93

### FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

#### MSCI FACTOR BOX



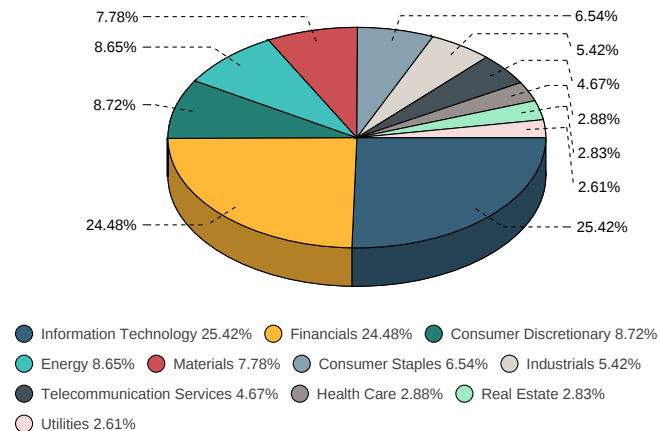
#### MSCI FaCS

- 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

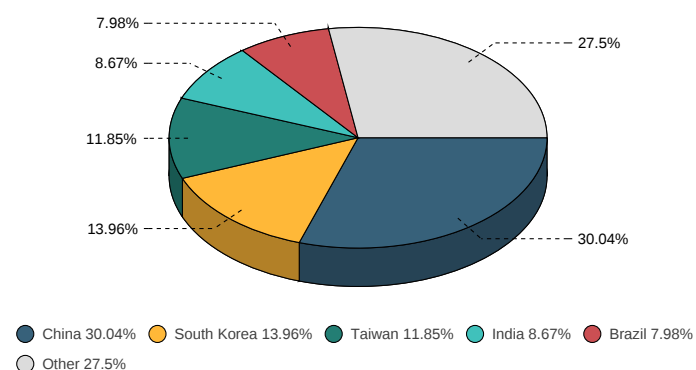
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

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