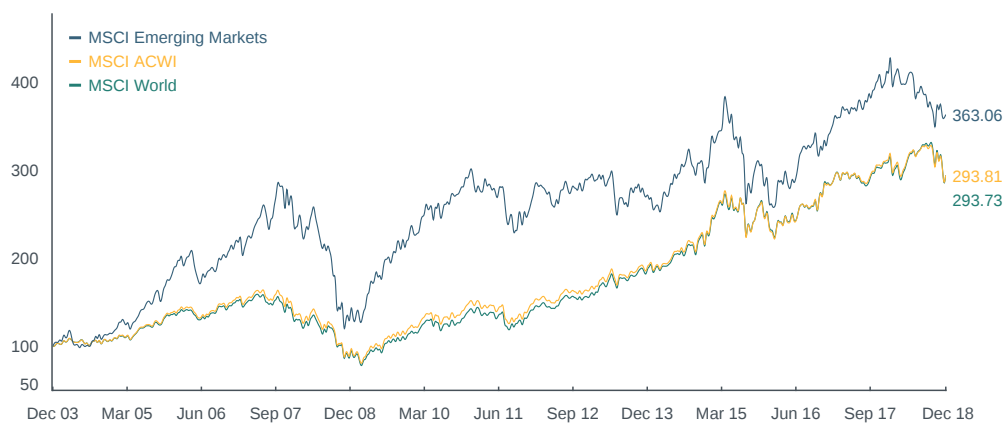


MSCI EMERGING MARKETS INDEX (EUR)

The MSCI Emerging Markets Index captures large and mid cap representation across 24 Emerging Markets (EM) countries*. With 1,125 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

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



ANNUAL PERFORMANCE (%)

Year	MSCI Emerging Markets	MSCI ACWI	MSCI World
2018	-9.92	-4.34	-3.58
2017	21.00	9.47	8.10
2016	14.94	11.73	11.39
2015	-4.87	9.34	11.03
2014	11.81	19.23	20.14
2013	-6.49	18.11	21.86
2012	16.81	15.01	14.75
2011	-15.44	-3.75	-1.84
2010	27.48	21.08	20.14
2009	73.44	31.19	26.72
2008	-50.76	-38.83	-37.24
2007	26.11	1.18	-1.18
2006	18.57	8.71	7.93
2005	55.04	28.34	26.78

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 Emerging Markets	-3.53	-5.92	-9.92	-9.92	7.80	5.91	10.53	8.99
MSCI ACWI	-7.89	-11.25	-4.34	-4.34	5.37	8.81	12.22	5.16
MSCI World	-8.45	-11.92	-3.58	-3.58	5.10	9.15	12.46	5.05

FUNDAMENTALS (DEC 31, 2018)

Div Yld (%)	P/E	P/E Fwd	P/BV
2.91	12.00	10.50	1.52
2.78	15.47	13.02	2.05
2.76	16.09	13.45	2.15

INDEX RISK AND RETURN CHARACTERISTICS (DEC 31, 2018)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2, 3}			Since Dec 31, 1998	MAXIMUM DRAWDOWN (%)	Period YYYY-MM-DD
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr			
MSCI Emerging Markets	6.54	11.08	13.00	15.04	0.77	0.52	0.73	0.44	59.67	2007-10-29—2008-10-27
MSCI ACWI	2.40	9.55	10.93	11.40	0.64	0.85	1.06	0.30	56.19	2000-08-31—2003-03-12
MSCI World	2.02	9.92	11.19	11.42	0.59	0.86	1.07	0.30	57.71	2000-08-31—2009-03-09

¹ Last 12 months ² Based on monthly gross returns data ³ 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.

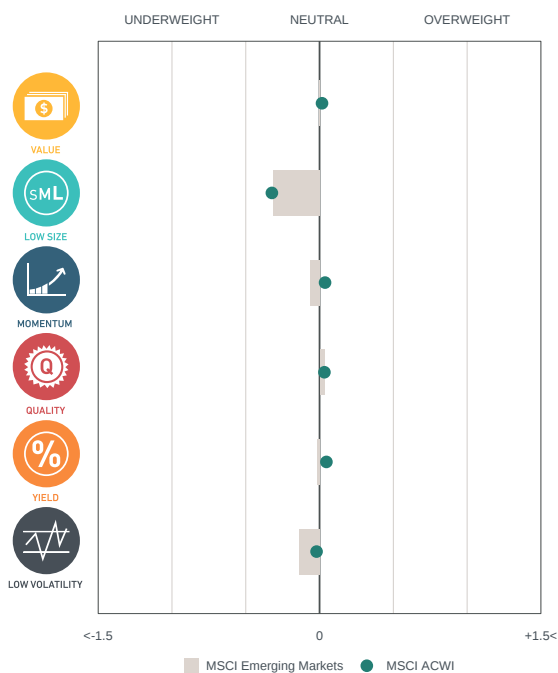
INDEX CHARACTERISTICS

MSCI Emerging Markets	
Number of Constituents	1,125
Mkt Cap (EUR Millions)	
Index	4,205,346.25
Largest	200,442.94
Smallest	25.23
Average	3,738.09
Median	1,600.55

TOP 10 CONSTITUENTS

	Country	Float Adj Mkt Cap (EUR Billions)	Index Wt. (%)	Sector
TENCENT HOLDINGS LI (CN)	CN	200.44	4.77	Communication Services
TAIWAN SEMICONDUCTOR MFG	TW	158.09	3.76	Info Tech
ALIBABA GROUP HLDG ADR	CN	155.41	3.70	Cons Discr
SAMSUNG ELECTRONICS CO	KR	146.07	3.47	Info Tech
NASPERS N	ZA	77.15	1.83	Communication Services
CHINA CONSTRUCTION BK H	CN	69.41	1.65	Financials
CHINA MOBILE	CN	51.71	1.23	Communication Services
ICBC H	CN	43.37	1.03	Financials
PING AN INSURANCE H	CN	40.28	0.96	Financials
RELIANCE INDUSTRIES	IN	40.07	0.95	Energy
Total		982.01	23.35	

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



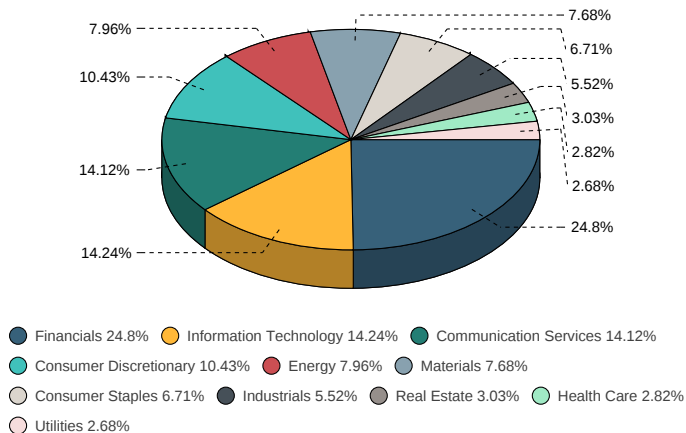
MSCI FaCS

- 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

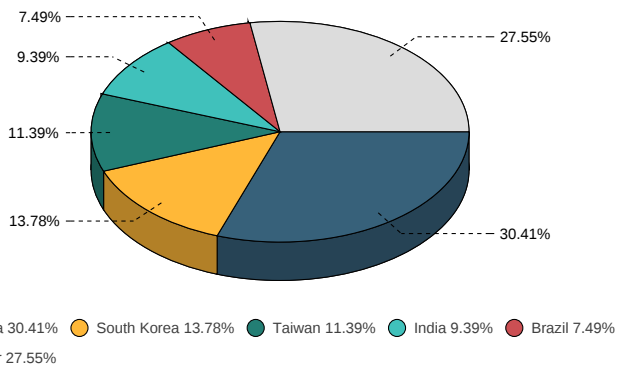
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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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