

MSCI EUROPE INDEX (EUR)

The MSCI Europe Index captures large and mid cap representation across 15 Developed Markets (DM) countries in Europe*. With 442 constituents, the index covers approximately 85% of the free float-adjusted market capitalization across the European Developed Markets equity universe.

CUMULATIVE INDEX PERFORMANCE - PRICE RETURNS (EUR) (MAY 2004 – MAY 2019)



ANNUAL PERFORMANCE (%)

Year	MSCI Europe	MSCI World	MSCI ACWI
2018	-13.10	-5.92	-6.70
2017	7.28	5.50	6.82
2016	-0.50	8.47	8.79
2015	5.47	8.34	6.65
2014	4.10	17.21	16.26
2013	16.42	18.74	15.05
2012	13.38	11.44	11.69
2011	-10.94	-4.53	-6.39
2010	8.04	17.16	18.09
2009	27.15	23.02	27.42
2008	-45.52	-39.08	-40.61
2007	0.07	-3.41	-1.11
2006	16.49	5.51	6.25
2005	22.77	23.95	25.40

INDEX PERFORMANCE — PRICE RETURNS (%) (MAY 31, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Dec 31, 1998
MSCI Europe	-5.73	-1.11	-3.66	8.99	2.13	1.16	5.52	1.08
MSCI World	-5.54	0.25	2.42	11.42	6.87	7.88	10.36	3.13
MSCI ACWI	-5.70	-0.12	1.32	10.79	6.89	7.41	9.74	3.19

FUNDAMENTALS (MAY 31, 2019)

Div Yld (%)	P/E	P/E Fwd	P/BV
3.81	15.09	12.97	1.71
2.59	17.42	14.78	2.31
2.62	16.75	14.32	2.19

INDEX RISK AND RETURN CHARACTERISTICS (MAY 31, 2019)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2, 3}			Since Dec 31, 1998 (%)	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Europe	1.80	10.69	12.26	12.45	0.29	0.18	0.49	0.03	61.72	2000-09-04—2009-03-09
MSCI World	2.34	10.80	11.91	10.84	0.71	0.72	0.96	0.17	65.24	2000-09-07—2009-03-09
MSCI ACWI	2.78	10.48	11.68	10.81	0.73	0.69	0.91	0.17	63.53	2000-09-07—2009-03-09

¹ Last 12 months

² Based on monthly price returns data

³ Based on ICE LIBOR 1M

*DM countries in Europe include: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the UK.

The MSCI Europe Index was launched on Dec 31, 1969. 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

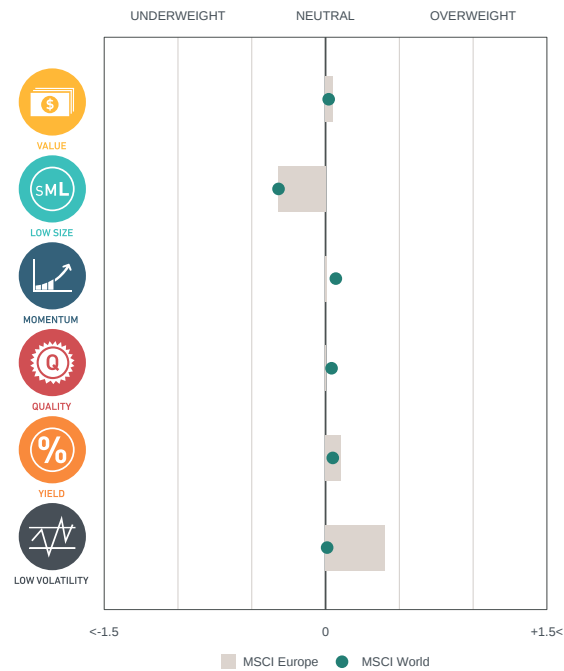
MSCI Europe	
Number of Constituents	442
Mkt Cap (EUR Millions)	
Index	7,428,212.98
Largest	272,040.41
Smallest	1,389.25
Average	16,805.91
Median	7,886.11

TOP 10 CONSTITUENTS

Country	Float Adj Mkt Cap (EUR Billions)	Index Wt. (%)	Sector
CH	272.04	3.66	Cons Staples
CH	166.54	2.24	Health Care
CH	164.91	2.22	Health Care
GB	146.30	1.97	Financials
GB	123.76	1.67	Energy
GB	123.23	1.66	Energy
FR	110.89	1.49	Energy
DE	108.52	1.46	Info Tech
GB	104.79	1.41	Energy
FR	94.05	1.27	Cons Discr
Total		1,415.04	19.05

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



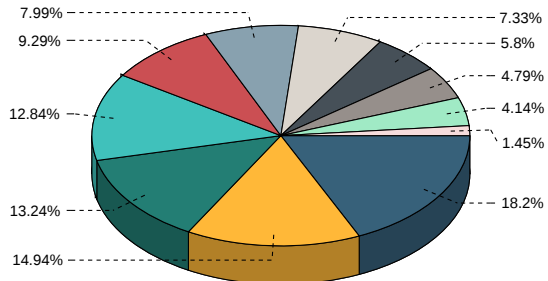
MSCI FaCS

- 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.

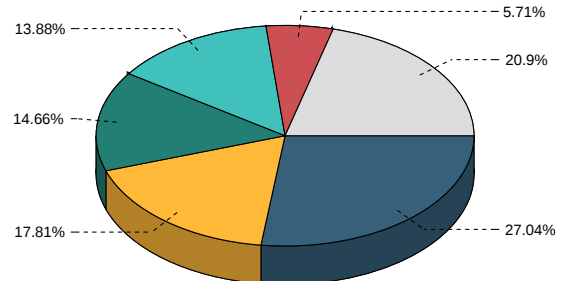
Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

SECTOR WEIGHTS



- Financials 18.2%
- Consumer Staples 14.94%
- Industrials 13.24%
- Health Care 12.84%
- Consumer Discretionary 9.29%
- Energy 7.99%
- Materials 7.33%
- Information Technology 5.8%
- Communication Services 4.79%
- Utilities 4.14%
- Real Estate 1.45%

COUNTRY WEIGHTS



- United Kingdom 27.04%
- France 17.81%
- Switzerland 14.66%
- Germany 13.88%
- Netherlands 5.71%
- Other 20.9%

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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