

MSCI EUROPE VALUE ESG TARGET INDEX (USD)

The MSCI Europe Value ESG Target Index is based on MSCI World Index, its parent index, which includes large and mid-cap stocks across 15 Developed Market (DM) countries* in Europe. The index is designed to represent the performance of a strategy that seeks systematic integration of environmental, social and governance (ESG) norms in factor investing, by seeking higher exposure to value style along with the improvement in the ESG profile of the index.

CUMULATIVE INDEX PERFORMANCE - NET RETURNS (USD) (NOV 2007 – JAN 2019)



ANNUAL PERFORMANCE (%)

Year	MSCI Europe Value ESG Target	MSCI Europe
2018	-15.94	-14.86
2017	26.13	25.51
2016	0.88	-0.40
2015	-4.01	-2.84
2014	-3.76	-6.18
2013	31.16	25.23
2012	17.32	19.12
2011	-13.31	-11.06
2010	5.02	3.88
2009	36.14	35.83
2008	-45.08	-46.42

INDEX PERFORMANCE — NET RETURNS (%) (JAN 31, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Nov 30, 2007
					3 Yr	5 Yr	10 Yr		
MSCI Europe Value ESG Target	7.24	0.65	-14.59	7.24	7.24	1.84	8.66	0.74	
MSCI Europe	6.59	0.72	-13.91	6.59	6.69	1.47	8.09	0.17	

FUNDAMENTALS (JAN 31, 2019)

Div Yld (%)	P/E	P/E Fwd	P/BV
4.40	11.17	10.56	1.18
3.81	14.88	12.60	1.69

INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2007 – JAN 31, 2019)

	Beta	Tracking Error (%)	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2,3}			Since Nov 30, 2007	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Europe Value ESG Target	1.03	3.05	40.26	13.33	14.16	18.72	0.50	0.14	0.51	0.10	62.32	2007-12-10—2009-03-09
MSCI Europe	1.00	0.00	1.58	12.07	12.92	17.82	0.49	0.11	0.50	0.07	62.35	2007-12-10—2009-03-09

¹ Last 12 months ² Based on monthly net 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 Value ESG Target Index was launched on Sep 28, 2017. 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.

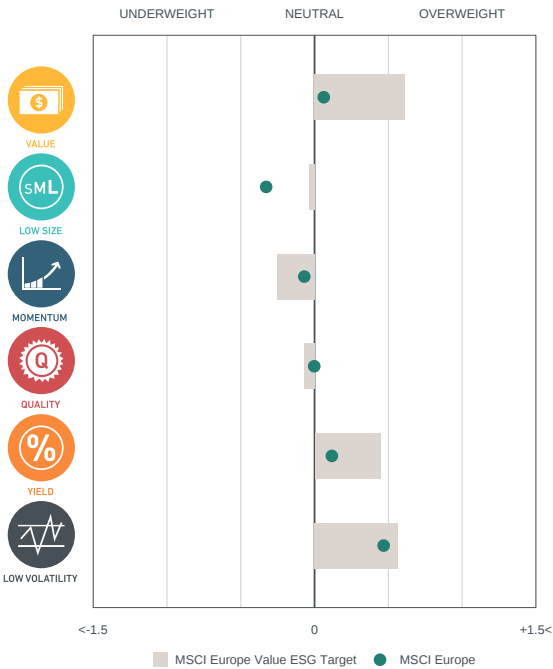
INDEX CHARACTERISTICS

	MSCI Europe Value ESG Target	MSCI Europe
Number of Constituents	128	439
	Weight (%)	
Largest	4.32	3.22
Smallest	0.00	0.02
Average	0.78	0.23
Median	0.52	0.11

TOP 10 CONSTITUENTS

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
ROCHE HOLDING GENUSS	CH	4.32	2.25	Health Care
NOVO NORDISK B	DK	3.08	1.02	Health Care
BRITISH AMERICAN TOBACCO	GB	2.94	0.98	Cons Staples
SIEMENS	DE	2.91	1.01	Industrials
IBERDROLA	ES	2.79	0.62	Utilities
BBVA	ES	2.57	0.48	Financials
SANOFI	FR	2.48	1.18	Health Care
AXA	FR	2.42	0.54	Financials
NATIONAL GRID	GB	2.39	0.44	Utilities
VODAFONE GROUP	GB	2.39	0.59	Comm Srvcs
Total		28.30	9.12	

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



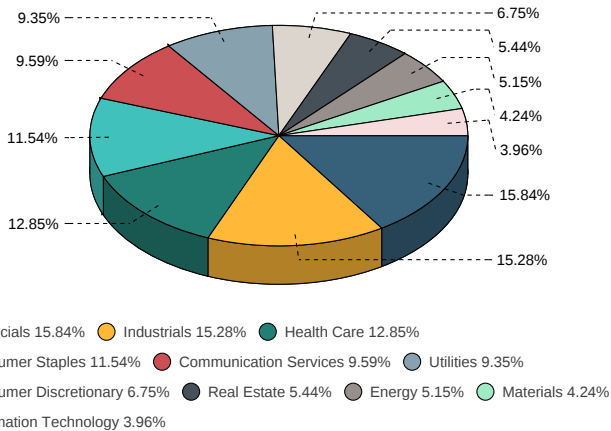
MSCI FaCS

- 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

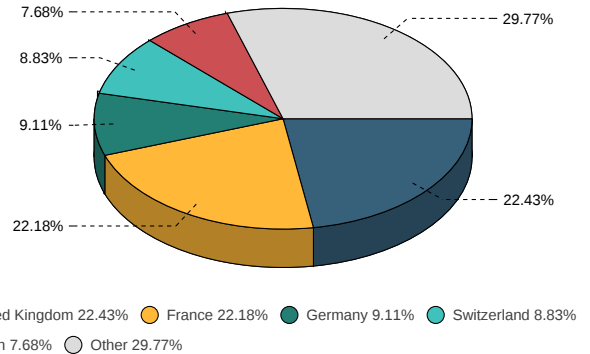
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

SECTOR WEIGHTS



COUNTRY WEIGHTS



INDEX METHODOLOGY

The MSCI Europe Value ESG Target Index is optimization-based index that aim to maximize their exposure to value factor while improving the ESG profile for the index relative to that of the underlying parent index (MSCI Europe). They are constructed using individual stock exposures to the value factor along with specific ESG score criteria. The MSCI Europe Value ESG Target Index is constructed based on an optimization process from the underlying Parent Index (MSCI Europe) using a Barra Equity Model to maximize the index-level exposure to the targeted style factors while controlling tracking error relative to the Parent Index (MSCI Europe).

The value score for each security is calculated by combining the security-level exposures to two factors, Book-to-Price and Earnings Yield, from the GEMTL model. A sector-relative score is derived from the combined score by standardizing the latter within each sector. The eligible universe is the universe of all the securities in the Parent Index that are not involved in very severe ESG controversies ("Red flags") or in controversial weapons. The MSCI Europe Value ESG Target Index is rebalanced on a semi-annual basis, usually as of the close of the last business day of May and November, coinciding with the May and November Semi-Annual Index Reviews (SAIRs) of the MSCI Global Investable Market Indexes.

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, GEMTL, 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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