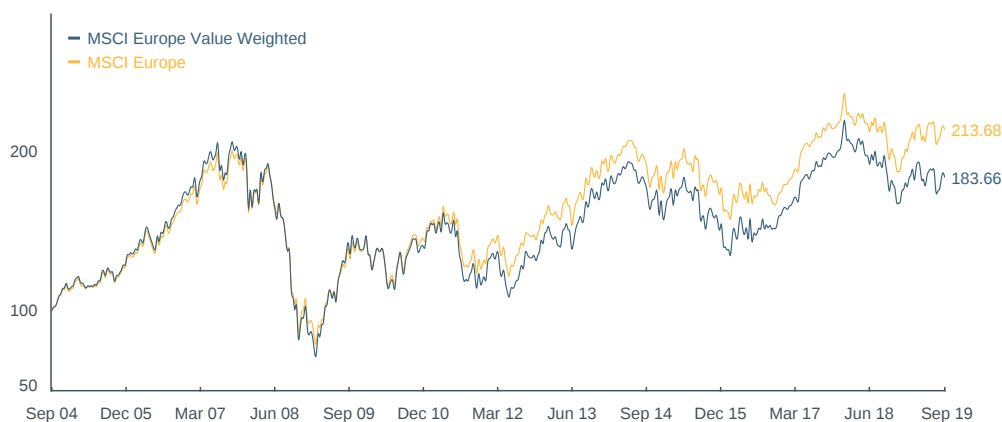


# MSCI EUROPE VALUE WEIGHTED INDEX (USD)

The MSCI Europe Value Weighted Index is based on a traditional market cap weighted parent index, the MSCI Europe Index, which includes large and mid cap stocks across 15 European Developed Markets (DM) countries\*. The MSCI Europe Value Weighted Index reweights each security of the parent index to emphasize stocks with lower valuations. Index weights are determined using fundamental accounting data—sales, book value, earnings and cash earnings—rather than market prices.

## CUMULATIVE INDEX PERFORMANCE - NET RETURNS (USD) (SEP 2004 – SEP 2019)



## ANNUAL PERFORMANCE (%)

Year	MSCI Europe Value Weighted	MSCI Europe
2018	-17.19	-14.86
2017	25.93	25.51
2016	4.66	-0.40
2015	-7.36	-2.84
2014	-7.66	-6.18
2013	26.68	25.23
2012	19.04	19.12
2011	-15.60	-11.06
2010	0.29	3.88
2009	43.07	35.83
2008	-49.89	-46.42
2007	12.96	13.86
2006	35.72	33.72
2005	9.74	9.42

## INDEX PERFORMANCE — NET RETURNS (%) (SEP 30, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Jun 30, 1994
MSCI Europe Value Weighted	4.35	-2.47	-5.13	9.35	6.13	0.87	2.76	6.76
MSCI Europe	2.72	-1.80	-0.75	13.72	6.57	2.38	4.61	6.81

## FUNDAMENTALS (SEP 30, 2019)

Div Yld (%)	P/E	P/E Fwd	P/BV
4.50	12.80	10.86	1.19
3.62	16.21	13.72	1.83

## INDEX RISK AND RETURN CHARACTERISTICS (JUN 01, 1994 – SEP 30, 2019)

	Beta	Tracking Error (%)	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since Jun 01, 1994	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Europe Value Weighted	1.08	3.45	13.63	13.88	14.77	18.35	0.38	0.06	0.20	0.30	67.91	2007-10-31—2009-03-09
MSCI Europe	1.00	0.00	1.83	12.50	13.12	16.33	0.44	0.16	0.32	0.31	62.99	2007-10-31—2009-03-09

<sup>1</sup> Last 12 months

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

<sup>3</sup> 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 Weighted Index was launched on Dec 07, 2010. 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

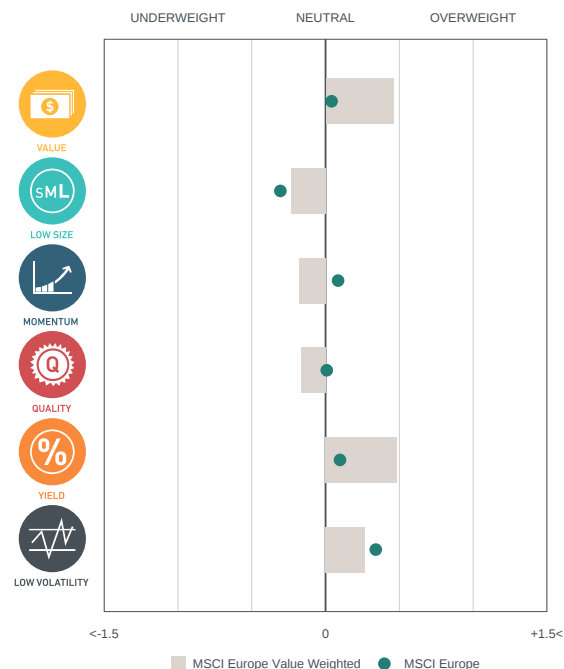
	MSCI Europe Value Weighted	MSCI Europe
Number of Constituents	441	442
	Weight (%)	
Largest	2.43	3.84
Smallest	0.01	0.02
Average	0.23	0.23
Median	0.10	0.10

### TOP 10 CONSTITUENTS

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
HSBC HOLDINGS (GB)	GB	2.43	1.80	Financials
BP	GB	1.93	1.49	Energy
ROYAL DUTCH SHELL A	GB	1.92	1.48	Energy
TOTAL	FR	1.88	1.44	Energy
BNP PARIBAS	FR	1.71	0.63	Financials
BANCO SANTANDER	ES	1.70	0.79	Financials
NESTLE	CH	1.60	3.84	Cons Staples
ROYAL DUTCH SHELL B	GB	1.60	1.28	Energy
DAIMLER	DE	1.43	0.52	Cons Discr
ALLIANZ	DE	1.38	1.14	Financials
<b>Total</b>		<b>17.57</b>	<b>14.41</b>	

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

#### MSCI FACTOR BOX



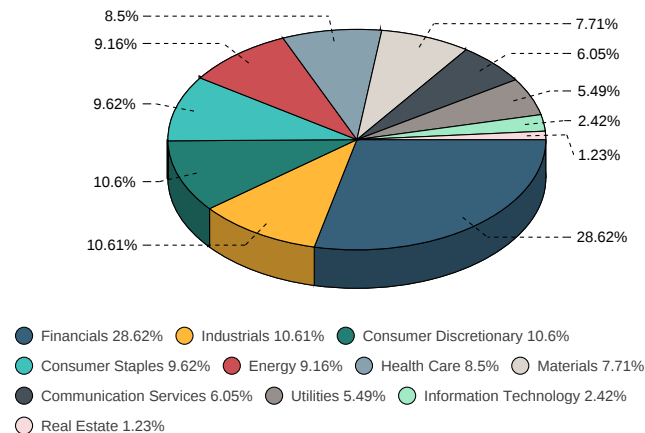
#### MSCI FaCS

- 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

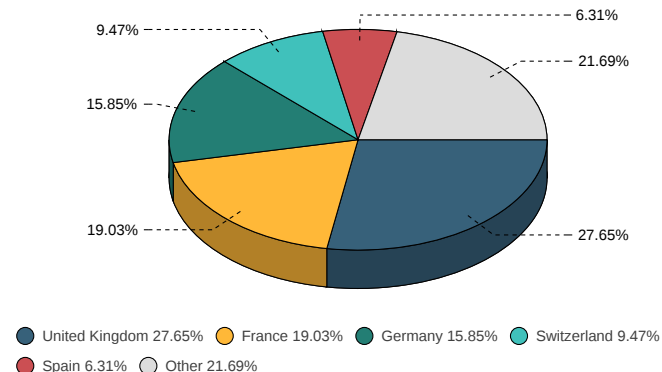
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

### SECTOR WEIGHTS



### COUNTRY WEIGHTS



## INDEX METHODOLOGY

Each MSCI Value Weighted Index is constructed from a market cap weighted MSCI parent index. The MSCI Value Weighted Index methodology effectively tilts the parent index towards stocks with lower valuations by reweighting each constituent of the parent index according to four fundamental accounting variables: sales, book value, earnings and cash earnings. The Value Weighted Index first calculates a weight (or a 3-yr average weight) for each accounting variable for each constituent independently. These weights are then averaged to determine a final constituent-level value weight. The index is rebalanced semiannually in May and November.

## 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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