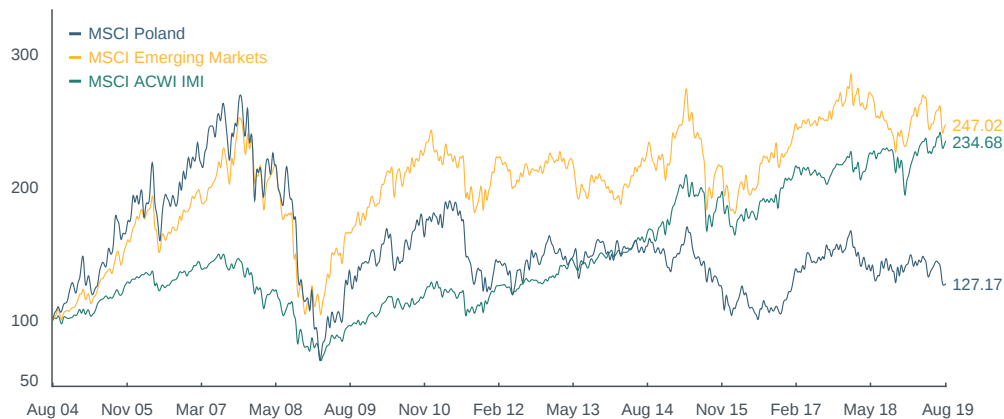


# MSCI POLAND INDEX (EUR)

The MSCI Poland Index is designed to measure the performance of the large and mid cap segments of the Polish market. With 19 constituents, the index covers approximately 85% of the Polish equity universe.

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



## ANNUAL PERFORMANCE (%)

Year	MSCI Poland	MSCI Emerging Markets	MSCI ACWI IMI
2018	-10.19	-12.43	-7.34
2017	33.73	18.01	6.86
2016	0.68	11.83	9.36
2015	-18.92	-7.50	6.90
2014	-5.25	8.61	15.98
2013	-5.98	-9.08	15.83
2012	30.04	13.38	12.03
2011	-30.40	-17.75	-6.86
2010	20.45	24.45	19.93
2009	32.98	69.06	29.20
2008	-53.93	-52.11	-40.73
2007	10.67	23.08	-1.47
2006	21.07	15.55	6.36
2005	39.42	50.16	26.34

## INDEX PERFORMANCE — PRICE RETURNS (%) (AUG 30, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Dec 31, 1998
MSCI Poland	-8.51	-8.00	-11.94	-9.19	5.13	-3.49	-0.46	2.28
MSCI Emerging Markets	-4.03	-0.20	-1.51	5.80	3.66	1.59	4.33	6.26
MSCI ACWI IMI	-1.64	4.79	2.08	16.11	7.19	7.15	9.43	3.93

## FUNDAMENTALS (AUG 30, 2019)

Div Yld (%)	P/E	P/E Fwd	P/BV
3.20	12.64	10.45	1.21
2.94	13.20	11.81	1.57
2.51	17.83	15.11	2.16

## INDEX RISK AND RETURN CHARACTERISTICS (AUG 30, 2019)

	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since Dec 31, 1998	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Poland	2.38	18.71	18.41	20.21	0.38	-0.09	0.07	0.16	75.12	2007-10-29—2009-02-17
MSCI Emerging Markets	8.99	11.38	13.59	13.75	0.41	0.21	0.37	0.32	60.72	2007-10-29—2008-10-27
MSCI ACWI IMI	2.75	10.83	11.88	10.84	0.73	0.67	0.88	0.22	62.20	2000-09-07—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

The MSCI Poland Index was launched on Sep 30, 1994. 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

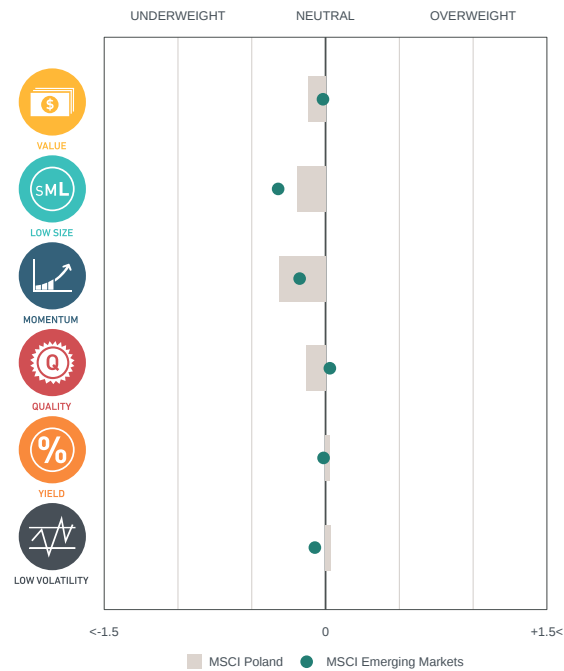
MSCI Poland	
Number of Constituents	19
Mkt Cap ( EUR Millions)	
Index	47,686.90
Largest	7,831.59
Smallest	358.99
Average	2,509.84
Median	1,819.95

## TOP 10 CONSTITUENTS

	Float Adj Mkt Cap ( EUR Billions)	Index Wt. (%)	Sector
PKO BANK POLSKI	7.83	16.42	Financials
POLSKI KONCERN NAF ORLEN	6.20	13.01	Energy
POWSZECHNY ZAKLAD UBEZP	5.17	10.84	Financials
CD PROJEKT	3.89	8.16	Comm Srvcs
BANK PEKAO	3.80	7.96	Financials
KGHM POLSKA MIEDZ	2.51	5.26	Materials
SANTANDER BANK POLSKA	2.49	5.22	Financials
LPP	2.20	4.62	Cons Discr
POLISH OIL & GAS	1.88	3.94	Energy
LOTOS GROUP	1.82	3.82	Energy
<b>Total</b>	<b>37.79</b>	<b>79.25</b>	

## FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

### MSCI FACTOR BOX



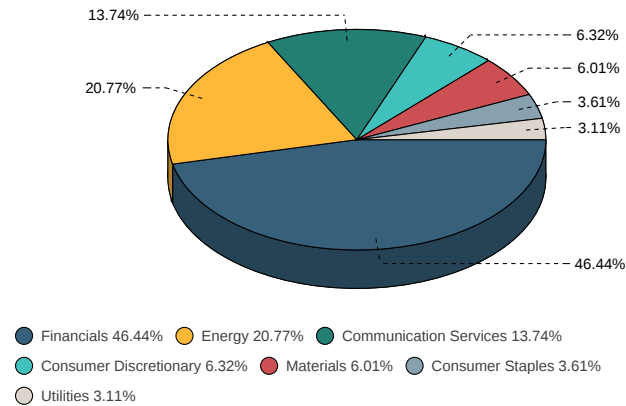
### MSCI FaCS

- 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



## INDEX METHODOLOGY

The index is based on the MSCI Global Investable 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

MSCI is a leading provider of critical decision support tools and services for the global investment community. With over 45 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading research-enhanced solutions that clients use to gain insight into and improve transparency across the investment process. To learn more, please visit [www.msci.com](http://www.msci.com).

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