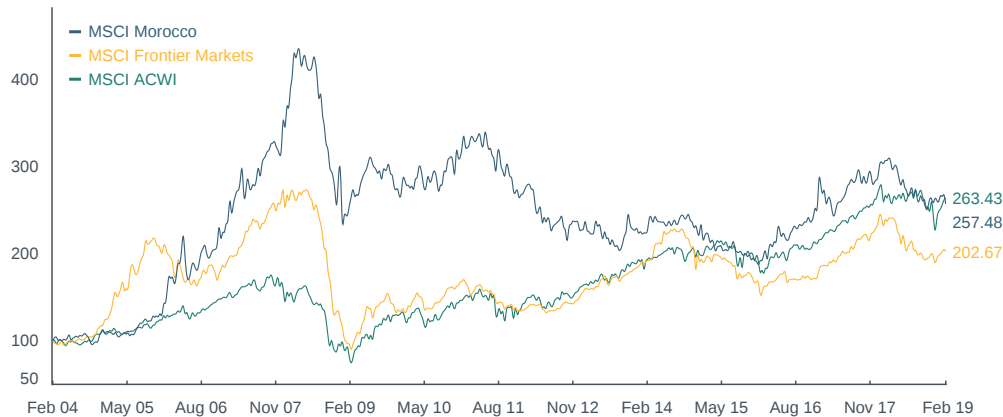


# MSCI MOROCCO INDEX (USD)

The MSCI Morocco Index is designed to measure the performance of the large and mid cap segments of the Moroccan market. With 11 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in Morocco.

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



## ANNUAL PERFORMANCE (%)

Year	MSCI Morocco	MSCI Frontier Markets	MSCI ACWI
2018	-7.46	-16.41	-9.41
2017	11.11	31.86	23.97
2016	34.33	2.66	7.86
2015	-13.81	-14.46	-2.36
2014	-0.67	6.84	4.16
2013	-3.35	25.89	22.80
2012	-11.98	8.85	16.13
2011	-15.16	-18.73	-7.35
2010	14.88	23.75	12.67
2009	-5.31	11.61	34.63
2008	-11.08	-54.15	-42.19
2007	47.73	41.94	11.66
2006	67.98	-8.91	20.95
2005	13.44	72.68	10.84

## INDEX PERFORMANCE — NET RETURNS (%) (FEB 28, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since May 31, 2002
MSCI Morocco	-3.50	-1.73	-15.48	-2.67	9.86	1.79	-0.50	8.81
MSCI Frontier Markets	0.80	2.50	-15.26	5.59	7.41	0.92	8.22	7.51
MSCI ACWI	2.67	2.98	-0.84	10.78	12.87	6.28	12.73	6.82

## FUNDAMENTALS (FEB 28, 2019)

Div Yld (%)	P/E	P/E Fwd	P/BV
4.56	18.27	16.92	3.26
3.89	13.11	na	1.81
2.56	16.88	14.58	2.24

## INDEX RISK AND RETURN CHARACTERISTICS (FEB 28, 2019)

	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2, 3</sup>			Since Dec 29, 2000 (%)	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Morocco	3.46	14.66	12.74	14.64	0.62	0.13	0.00	0.47	56.62	2008-04-07—2016-01-05
MSCI Frontier Markets	11.80	11.34	12.12	14.25	0.57	0.06	0.59	0.41	67.47	2008-01-15—2009-03-03
MSCI ACWI	2.40	10.69	11.06	14.10	1.06	0.53	0.88	0.29	58.38	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

The MSCI Morocco Index was launched on Jan 01, 2001. 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

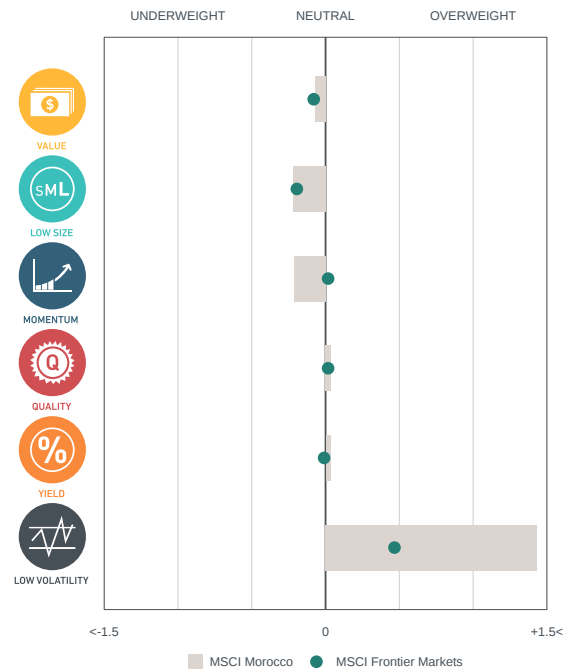
MSCI Morocco	
Number of Constituents	11
Mkt Cap ( USD Millions)	
Index	8,777.13
Largest	2,716.35
Smallest	104.62
Average	797.92
Median	511.84

## TOP 10 CONSTITUENTS

	Float Adj Mkt Cap ( USD Billions)	Index Wt. (%)	Sector
MAROC TELECOM	2.72	30.95	Comm Srvcs
ATTIJARIWAFABANK	1.91	21.75	Financials
LAFARGEHOLCIM MAROC	1.06	12.03	Materials
BMCE	0.67	7.66	Financials
BK CENTRALE POPULAIRE	0.66	7.55	Financials
COSUMAR	0.51	5.83	Cons Staples
CIMENTS DU MAROC	0.43	4.89	Materials
WAFABASSURANCE	0.35	3.97	Financials
TAQA MOROCCO	0.21	2.35	Utilities
TOTAL MAROC	0.16	1.83	Cons Discr
<b>Total</b>	<b>8.67</b>	<b>98.81</b>	

## FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

### MSCI FACTOR BOX



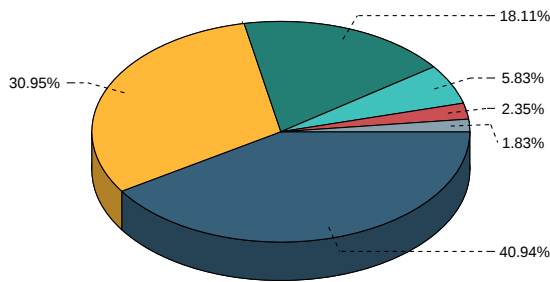
### MSCI FaCS

- 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



- Financials 40.94%
- Communication Services 30.95%
- Materials 18.11%
- Consumer Staples 5.83%
- Utilities 2.35%
- Consumer Discretionary 1.83%

## 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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