

MSCI FRONTIER MARKETS 100 INDEX (USD)

The MSCI Frontier Markets 100 Index is a representative and more easily replicable alternative to its broader parent index, the MSCI Frontier Markets IMI. The MSCI Frontier Markets 100 Index includes approximately 100 of the largest and most liquid constituents of the parent index.

CUMULATIVE INDEX PERFORMANCE - NET RETURNS (USD) (NOV 2010 – OCT 2018)



ANNUAL PERFORMANCE (%)

Year	MSCI Frontier Markets 100	MSCI Frontier Markets IMI
2017	34.84	29.87
2016	6.84	5.56
2015	-13.80	-13.02
2014	4.99	6.82
2013	25.91	27.22
2012	8.20	8.38
2011	-19.00	-20.94

INDEX PERFORMANCE — NET RETURNS (%) (OCT 31, 2018)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Nov 30, 2010
MSCI Frontier Markets 100	-3.78	-8.36	-11.24	-15.92	4.87	2.69	na	3.09
MSCI Frontier Markets IMI	-3.67	-8.55	-12.46	-15.96	3.31	2.34	na	2.46

FUNDAMENTALS (OCT 31, 2018)

Div Yld (%)	P/E	P/E Fwd	P/BV
3.88	13.45	na	1.83
4.05	12.80	na	1.58

INDEX RISK AND RETURN CHARACTERISTICS (OCT 31, 2018)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2, 3}			Since Nov 30, 2010	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Frontier Markets 100	17.15	12.41	12.86	na	0.36	0.22	na	0.26	33.81	2014-05-30—2016-01-20
MSCI Frontier Markets IMI	9.47	11.11	10.93	na	0.25	0.20	na	0.22	31.02	2014-09-22—2016-01-20

¹ Last 12 months

² Based on monthly net returns data

³ Based on ICE LIBOR 1M

* Frontier Markets countries include: Argentina, Bahrain, Bangladesh, Croatia, Estonia, Jordan, Kenya, Kuwait, Lebanon, Lithuania, Kazakhstan, Mauritius, Morocco, Nigeria, Oman, Romania, Serbia, Slovenia, Sri Lanka, Tunisia, Ukraine and Vietnam.

The MSCI Frontier Markets 100 Index was launched on Apr 11, 2012. 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.

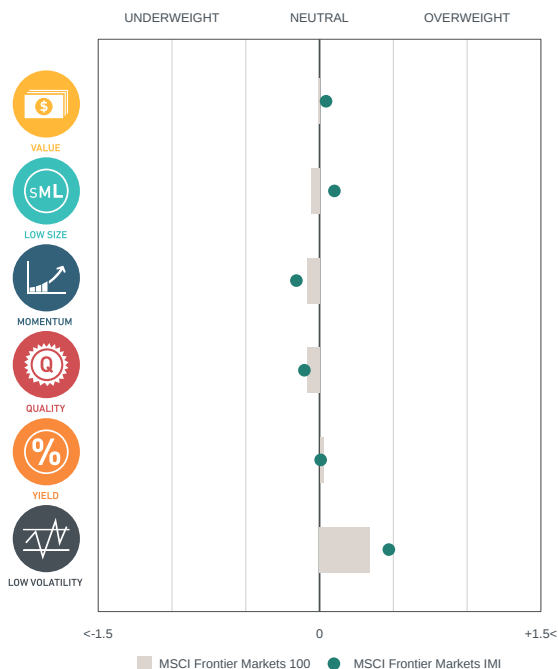
INDEX CHARACTERISTICS

MSCI Frontier Markets 100	
Number of Constituents	116
Mkt Cap (USD Millions)	
Index	103,668.52
Largest	7,012.73
Smallest	116.91
Average	893.69
Median	445.77

TOP 10 CONSTITUENTS

	Country	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
NATIONAL BANK OF KUWAIT	KW	7.01	6.76	Financials
KUWAIT FINANCE HOUSE	KW	5.11	4.93	Financials
VIETNAM DAIRY PRODUCT	VN	3.88	3.74	Cons Staples
VINGROUP JSC	VN	3.72	3.58	Real Estate
AHLI UNITED BANK (KW)	BH	3.34	3.22	Financials
SAFARICOM	KE	3.06	2.95	Telecom Srvc
MAROC TELECOM	MA	2.84	2.74	Telecom Srvc
MOBILE TELECOM CO	KW	2.70	2.61	Telecom Srvc
BANCA TRANSILVANIA	RO	2.28	2.19	Financials
YPF D ADR	AR	2.26	2.18	Energy
Total		36.20	34.92	

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



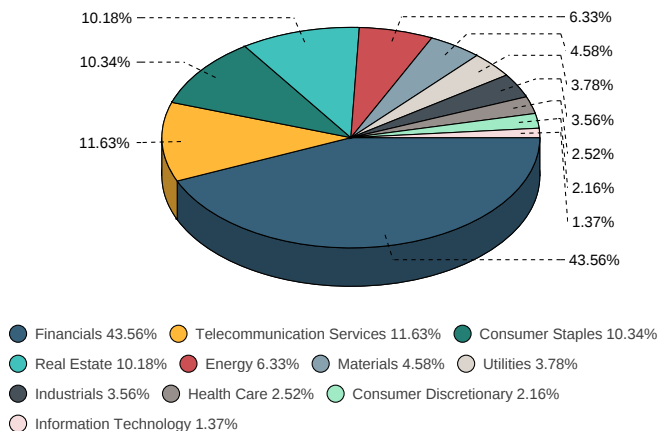
MSCI FaCS

- 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

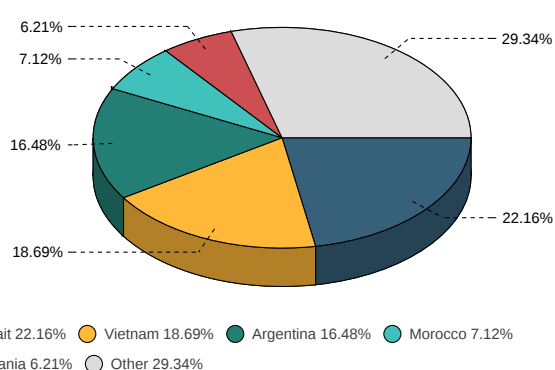
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

SECTOR WEIGHTS



COUNTRY WEIGHTS



INDEX METHODOLOGY

The selection universe for the MSCI Frontier Markets 100 Index is based on the constituent securities of the broad MSCI Frontier Markets Investable Market Index (IMI). To enhance tradability, the index [methodology](#) applies security filters to exclude securities with either low free float-adjusted market capitalization, a 12-month Annual Traded Value Ratio (ATVR) under 10% or low foreign room. In order to avoid excessive country concentration, the maximum cumulative weight of the two largest countries in the index is set to 40%. The index is reviewed semi-annually—in May and November—with the objectives of reflecting changes in the underlying equity markets in a timely manner, while limiting undue index turnover. During index reviews, the number of constituents in the index is allowed to fluctuate between 85 and 115.

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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