

MSCI Frontier Markets Africa Index (USD)

The MSCI Frontier Markets Africa Index captures large and mid cap representation across 13 Frontier Markets (FM) Africa countries*. With 29 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

CUMULATIVE INDEX PERFORMANCE – GROSS RETURNS (USD) (APR 2008 – APR 2023)



ANNUAL PERFORMANCE (%)

Year	MSCI FM Africa	MSCI Frontier Markets
2022	-21.96	-26.05
2021	12.27	20.09
2020	1.76	1.65
2019	11.48	18.34
2018	-12.43	-16.20
2017	26.80	32.32
2016	-6.37	3.16
2015	-17.95	-14.07
2014	-12.88	7.21
2013	31.01	26.32
2012	53.97	9.25
2011	-16.63	-18.38
2010	25.40	24.24
2009	-11.68	11.72

INDEX PERFORMANCE – GROSS RETURNS (%) (APR 28, 2023)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 31, 2002	FUNDAMENTALS (APR 28, 2023)			
					3 Yr	5 Yr	10 Yr	Div Yld (%)		P/E	P/E Fwd	P/BV	
MSCI FM Africa	-0.93	-3.38	-20.98	-3.80	4.49	-4.65	-2.35	7.99	6.15	9.28	na	1.77	
MSCI Frontier Markets	0.55	-0.73	-14.46	3.74	6.11	-1.84	2.77	6.42	4.55	10.06	na	1.58	

INDEX RISK AND RETURN CHARACTERISTICS (APR 28, 2023)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2,3}			Since May 31, 2002	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI FM Africa	6.21	12.23	15.63	16.26	0.33	-0.31	-0.12	0.39	70.82	2008-03-05–2009-01-30
MSCI Frontier Markets	12.91	13.58	16.54	14.19	0.43	-0.11	0.20	0.36	67.44	2008-01-15–2009-03-03

¹ Last 12 months

² Based on monthly gross returns data

³ Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

* FM Africa countries include: Burkina Faso, Benin, Guinea-Bissau, Ivory Coast, Kenya, Mauritius, Mali, Morocco, Niger, Nigeria, Senegal, Togo, and Tunisia.

The MSCI Frontier Markets Africa Index was launched on Dec 18, 2007. Data prior to the launch date is back-tested test (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

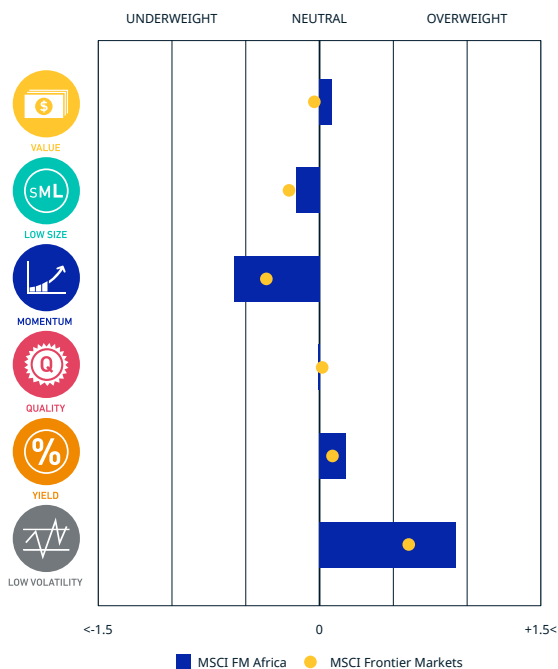
MSCI FM Africa	
Number of Constituents	29
Mkt Cap (USD Millions)	
Index	17,271.20
Largest	1,733.96
Smallest	79.83
Average	595.56
Median	440.01

TOP 10 CONSTITUENTS

	Country	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
ATTIJARIWABA BANK	MA	1.73	10.04	Financials
MCB GROUP	MU	1.47	8.49	Financials
SAFARICOM	KE	1.46	8.44	Comm Svcs
MAROC TELECOM	MA	1.42	8.21	Comm Svcs
LAFARGEHOLCIM MAROC	MA	1.04	6.04	Materials
EQUITY GROUP HOLDINGS	KE	0.95	5.52	Financials
DANGOTE CEMENT	NG	0.90	5.20	Materials
MTN NIGERIA COMMU	NG	0.81	4.67	Comm Svcs
BANK OF AFRICA	MA	0.67	3.90	Financials
SONATEL	SN	0.67	3.90	Comm Svcs
Total		11.12	64.40	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



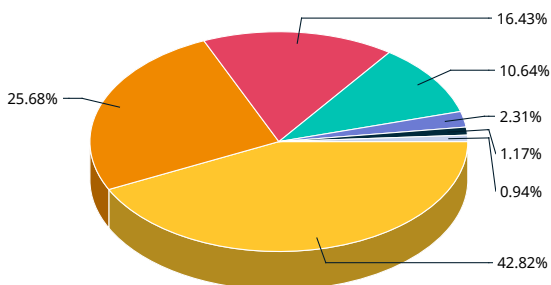
MSCI FaCS

- 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.

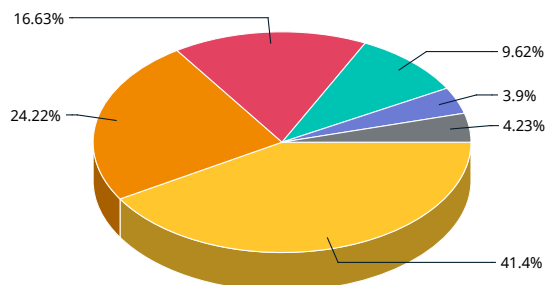
Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

SECTOR WEIGHTS



- Financials 42.82%
- Communication Services 25.68%
- Materials 16.43%
- Consumer Staples 10.64%
- Energy 2.31%
- Utilities 1.17%
- Consumer Discretionary 0.94%

COUNTRY WEIGHTS



- Morocco 41.4%
- Nigeria 24.22%
- Kenya 16.63%
- Mauritius 9.62%
- Senegal 3.9%
- Other 4.23%

INDEX FRAMEWORK

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.

This summary is provided for illustrative purposes only and does not include all material elements of the index or its methodology. For a complete description of the index methodology, please see [Index methodology - MSCI](#).

MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))

MSCI FaCS is a standard method 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.

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