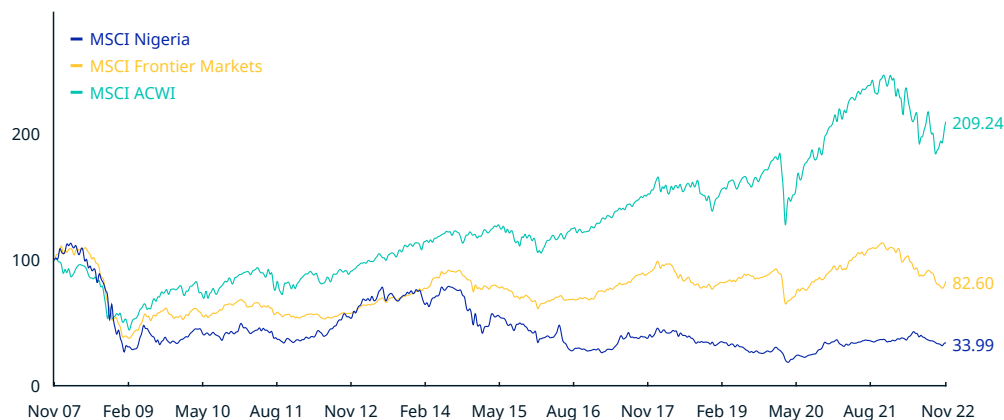


MSCI Nigeria Index (USD)

The MSCI Nigeria Index is designed to measure the performance of the large and mid cap segments of the Nigerian market. With 9 constituents, the index covers approximately 85% of the Nigerian equity universe.

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (NOV 2007 – NOV 2022)



ANNUAL PERFORMANCE (%)

Year	MSCI Nigeria	MSCI Frontier Markets	MSCI ACWI
2021	3.55	19.73	18.54
2020	23.52	1.43	16.25
2019	-16.27	17.99	26.60
2018	-14.34	-16.41	-9.41
2017	36.94	31.86	23.97
2016	-35.98	2.66	7.86
2015	-20.25	-14.46	-2.36
2014	-26.42	6.84	4.16
2013	29.17	25.89	22.80
2012	62.91	8.85	16.13
2011	-15.98	-18.73	-7.35
2010	26.37	23.75	12.67
2009	-22.76	11.61	34.63
2008	-57.86	-54.15	-42.19

INDEX PERFORMANCE – NET RETURNS (%) (NOV 30, 2022)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 31, 2002
					3 Yr	5 Yr	10 Yr		
MSCI Nigeria	4.64	-4.38	-5.18	-6.05	7.15	-2.57	-4.57	4.55	
MSCI Frontier Markets	5.19	-8.67	-24.12	-25.24	-1.79	-1.58	3.59	6.17	
MSCI ACWI	7.76	3.32	-11.62	-15.02	6.63	6.41	8.66	7.04	

FUNDAMENTALS (NOV 30, 2022)

Div Yld (%)	P/E	P/E Fwd	P/BV
8.21	7.39	na	1.52
4.52	9.91	na	1.66
2.22	17.16	15.28	2.63

INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2022)

	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 Nigeria	0.00	27.09	24.41	26.75	0.37	-0.03	-0.07	0.26	84.19	2008-03-04–2020-04-07
MSCI Frontier Markets	16.86	19.40	16.69	14.31	-0.03	-0.08	0.26	0.35	67.47	2008-01-15–2009-03-03
MSCI ACWI	2.62	20.04	17.60	14.24	0.39	0.37	0.60	0.42	58.38	2007-10-31–2009-03-09

¹ Last 12 months

² Based on monthly net returns data

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

The MSCI Nigeria 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

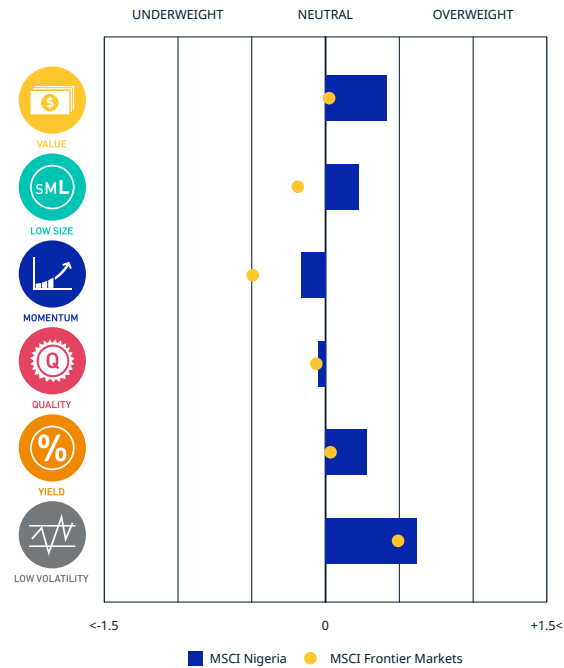
MSCI Nigeria	
Number of Constituents	9
Mkt Cap (USD Millions)	
Index	4,023.82
Largest	906.03
Smallest	176.19
Average	447.09
Median	389.65

TOP 9 CONSTITUENTS

	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
DANGOTE CEMENT	0.91	22.52	Materials
MTN NIGERIA COMMU	0.80	19.91	Comm Srvc
ZENITH BANK	0.50	12.32	Financials
GUARANTY TRUST HLDG CO	0.42	10.54	Financials
SEPLAT ENERGY	0.39	9.68	Energy
NESTLE FOODS NIGERIA	0.38	9.41	Cons Staples
NIGERIAN BREWERIES	0.24	6.02	Cons Staples
STANBIC IBTC HOLDINGS	0.21	5.22	Financials
BUA CEMENT	0.18	4.38	Materials
Total	4.02	100.00	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



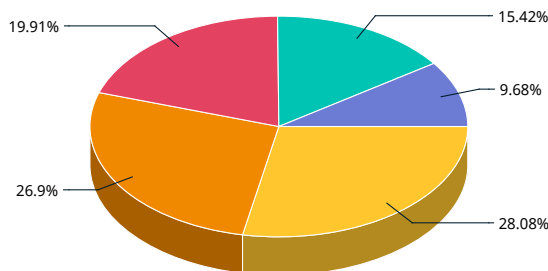
MSCI FaCS

- 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 28.08%
- Materials 26.9%
- Communication Services 19.91%
- Consumer Staples 15.42%
- Energy 9.68%

INDEX FRAMEWORK

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.

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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