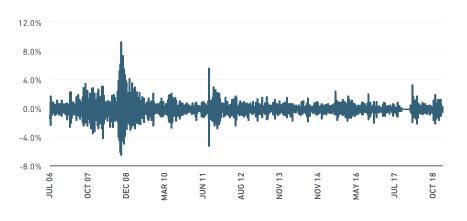
# MSCI EMERGING MARKETS INDEX WITH IDCO FAIR VALUE PRICING (USD)

MSCI Indexes with IDCo Fair Value Pricing make it easier and simpler for active mutual fund managers, pension plans and consultants to explain artificial tracking error between a fund's fair value adjusted NAV and an MSCI index calculated using closing prices. They are calculated using fair value adjustment factors as of the close of the New York Stock Exchange provided by Interactive Data's (IDCo) Fair Value Information Service.

## MSCI EM FAIR VALUE — MSCI EM INDEX RETURNS\* (NET, JUNE 2005 – DECEMBER 2018)



### **ANNUAL PERFORMANCE (%)**

Year	MSCI EM Fair Value	MSCI EM
2018	-14.44	-14.57
2017	38.11	37.28
2016	11.21	11.19
2015	-14.87	-14.92
2014	-2.80	-2.19
2013	-3.10	-2.60
2012	19.22	18.22
2011	-18.41	-18.42
2010	19.32	18.88
2009	75.99	78.51
2008	-52.59	-53.33
2007	38.60	39.42
2006	32.25	32.14

ANNUALIZED TOTAL RETURN

#### INDEX PERFORMANCE - NET RETURNS (%) (DECEMBER 31, 2018)

Index	1 Month	3 Months	1 Year	Year to Date	3 Years	5 Years	Since June 30, 2005
MSCI EM with IDCo Fair Value Pricing	-2.96	-7.33	-14.44	-14.44	9.53	1.69	6.58
MSCI EM	-2.65	-7.46	-14.57	-14.57	9.25	1.65	6.54

#### **INDEX METHODOLOGY**

MSCI Indexes with IDCo Fair Value Pricing are computed at a daily frequency. For all constituents of the index, fair value returns are calculated using fair value adjustment factors provided by Interactive Data's (IDCo) Fair Value Information Service\*\* and 4PM EST WM/Reuters spot exchange rates. The final index level is arrived at by adjusting the index based on closing prices by the weighted average fair value performance of its constituents.

\*\* A factor of 1 is used when the adjustment factor is not available from the fair value data provider.

The MSCI EM with IDCo Fair Value Pricing was launched on May 16, 2014. Data prior to the launch date is back-tested data (i.e. calculations of how the index might have been 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.



<sup>\*</sup> The difference between the MSCI EM Index with IDCo Fair Value Pricing and the MSCI EM Index illustrates the typical artificial tracking error that could be observed between a fund and its benchmark due to valuation differences

#### **ABOUT MSCI**

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