# DECADES OF DATA: EMERGING MARKETS

1987–2020





## **Executive Summary**

- The COVID-19 pandemic and lockdown measures imposed across the globe to combat the virus' spread caused historic declines in economic activity and sharp movements in asset prices during 2020. In first quarter 2020, the MSCI Emerging Markets Index declined 34% in USD terms in only 46 trading days, creating the second-most volatile environment for emerging equities since index inception behind the Global Financial Crisis (GFC) and Great Recession period of 2008-09. The drawdown's magnitude was on par with the average bear market; however, the duration was more than 3.5x shorter than average. While the drawdown's speed and associated market gyrations were extreme, the impending recovery was just as extraordinary. Emerging stocks recovered their pre-COVID-19 peaks in only 208 trading days, while the index took nearly five years to recover the late-1990s/early-2000s peaks and never regained peak levels reached prior to the GFC. All told, the MSCI Emerging Markets Index ended 2020 up 18.3%, having recovered more than 70% from the market's COVID-19 sell-off nadir. But the overall market's recovery was uneven; the Asia region returned nearly 30% in calendar 2020, while emerging Europe, the Middle East & Africa and Latin America declined. Major emerging Asian countries such as China, Korea, and Taiwan were largely successful containing the virus' spread and able to return to relatively normal levels of economic activity faster than other markets, allowing the Asia region to outperform. In addition, emerging Asia's relatively large tilt toward technology-oriented sectors, which outperformed in 2020 due to relatively limited disruption—and even perceived benefits—from stay-at-home orders, also drove outperformance.
- There are many reasons why economic cycles can turn, including aggregate supply/demand shocks, financial market spillover to the real economy, and psychological factors. Emerging markets, specifically, face the added risk of overseas factors buffeting economic activity and sentiment given their high exposure to global trade and external borrowing needs. The COVID-19 crisis is unique in that it created shocks on three fronts: supply, demand, and financial. Lockdown measures that imposed curbs on daily life impacted aggregate supply/demand, while lack of liquidity and seizing credit roiled financial markets. Supply chains faced severe disruptions as global trade volumes declined sharply, and commodity prices plummeted as lockdowns ground economic activity to a halt. However, the COVID-19 crisis also highlighted how emerging economies have evolved. Many emerging economies were able to ease monetary policy during the crisis, counter to past experience. Due to relatively higher foreign debt levels in the past, during earlier crisis periods emerging countries typically had to resort to countercyclical policy tightening to support currency values as foreign investors pulled out capital. Today, local capital markets are deeper, allowing emerging countries to borrow more domestically and reduce reliance on external capital.

## Executive Summary (continued)

- The MSCI Emerging Markets Index geographic composition has shifted dramatically over time. Today, the Asia sub-region dominates the index with an 80% weight; however, at index inception in the late 1980s, Asia made up less than 50% of index market capitalization. Latin America moved the opposite direction, constituting 8% of the index today versus nearly 50% at inception. The three largest countries in the Asia region—China (39%), Korea (13%), and Taiwan (13%)—make up two-thirds of the broader index market capitalization. Just ten years ago, China represented only 18% of the index. Changes in the Emerging Markets Index composition over time are a defining characteristic as local markets open to international investors. A prime example is China, whose investable equity universe is currently being reshaped by the inclusion of domestically listed A-shares in benchmark indexes.
- The range of historical emerging markets equity returns is typically wider than that of developed markets across time periods. Emerging markets exhibited a wider range of returns over one-, five-, ten-, and 20-year trailing periods relative to developed markets, in both nominal and real terms. As in developed markets, the range of investment results narrows as holding periods increase. Emerging markets equities exhibited greater potential upside over all trailing periods, but, somewhat surprisingly, less downside over ten- and 20-year periods. For investors that can stomach short-term volatility, emerging markets allocations proved fruitful in the long run, outpacing inflation.
- Higher volatility resulted in a wider distribution of calendar year returns for emerging markets relative to those of developed markets. While emerging markets are more likely to deliver stellar results in any given year, having achieved 50%+ gains in six calendar years since 1988, negative performance occurs more frequently and with greater severity than in developed markets. In 2020, emerging markets edged developed counterparts and exceeded their average calendar year return since 1988.

## Executive Summary (continued)

- During periods of market stress, emerging markets equity drawdowns are typically more severe than those of developed markets. Over rolling five-year periods, maximum drawdowns for emerging markets stocks are generally worse relative to developed markets. The 1997–98 Asian financial crisis and the 2008–09 GFC produced two severe emerging markets equity drawdowns. The COVID-19 drawdown's magnitude was similar for emerging and developed markets, with both segments declining roughly 34% peak-to-trough in USD terms in early 2020. Corrections, defined as a peak-to-trough sell-off of more than 10%, are common occurrences in any given five-year period for emerging and developed markets alike.
- Earnings growth is the primary contributor to emerging markets equity total return over time, exceeding dividend reinvestment by 1.4x, while valuation multiple rerating has had a marginally positive contribution to total returns. Higher dividend yields in emerging markets translated to a higher return contribution from dividend reinvestment relative to developed markets. Somewhat surprisingly, despite the nascent nature of emerging markets (and thus the expectation of higher earnings growth), earnings growth contribution lagged that of developed markets over the common period. Valuation multiple expansion added to emerging and developed performance alike, but mean reversion has diminished multiple rerating's contribution relative to earnings growth and dividend reinvestment.
- Emerging markets have outperformed developed counterparts since inception, but relative performance cycles are significant in magnitude and span multiple years. Emerging markets outperformed developed equivalents by nearly 300% cumulative in two outperformance cycles since 1987, which lasted roughly seven and 12 years, respectively. The 2000s commodity boom boosted earnings per share (EPS) in heavily resource-exposed emerging markets, helping drive outperformance versus developed markets. Emerging markets have experienced a sustained drawdown vis-à-vis developed markets since relative performance peaked in September 2010 following the GFC, underperforming by nearly 6% annualized over that time. The current period has not been as severe as the cycle ended in early 1999, which saw emerging markets lag developed counterparts by 73% cumulative (26% annualized) in just over four years.

## Executive Summary (continued)

- Starting normalized valuations are a useful guide in setting longer-term return expectations. For emerging markets, initial valuations, such as our cyclically adjusted price-to-cash earnings ratio, exhibit a strong relationship with subsequent ten-year returns, with an R<sup>2</sup> value of 0.59. However, the relationship weakens over shorter time horizons, with an R<sup>2</sup> of 0.21 versus subsequent five-year return periods. It should be noted that all normalized price/earnings ratios in the top decile of historical observations occurred during the 2006–08 lead-up to the GFC; other starting valuation decile ranges show a wider subsequent returns distribution.
- Bear markets occur more frequently in emerging markets relative to developed markets but are similar in magnitude to developed bears. The average bear market length and drawdown in emerging and developed markets is roughly the same. On the other hand, bull market lifespans in developed markets are about twice as long as those in emerging markets but show roughly the same upside. One common characteristic of bull markets across emerging and developed markets is that they are, on average, longer in duration than their respective bear markets and tend to have a higher performance magnitude in absolute terms. This is consistent with the observation that equity markets are generally upwardly trending over time.

## Emerging markets index country composition is dynamic over time

#### GEOGRAPHIC EXPOSURES OVER TIME

1988-2020 • Percent (%)

EM Asia

100

80

60

40

20

0

EM ASEAN

India

1988 1992 1997 2001 2005 2010 2014 2019



#### EM Europe, Middle East, and Africa



#### **EM Latin America**



#### Sources: FactSet Research Systems and MSCI Inc. MSCI data provided "as is" without any express or implied warranties.

China

Taiwan

South Korea

Notes: EM ASEAN includes Indonesia, Malaysia, Pakistan, the Philippines, and Thailand. Europe includes Czech Republic, Greece, Hungary, Poland, and Portugal. MENA includes Egypt, Israel, Jordan, Morocco, Kuwait, Qatar, Saudi Arabia, Turkey, and the United Arab Emirates. Other in the Latin America chart includes Colombia, Peru, and Venezuela. Percentage may not total to 100 due to rounding or exclusion of countries carrying marginal index weights. Data are quarterly. Israel, Jordan, Morocco, Portugal, Sri Lanka, and Venezuela were all once included in the index, but have since been reclassified.

## Emerging markets return distribution is wider than developed markets across all time horizons

#### RANGE OF EQUITY RETURNS FOR VARIOUS ROLLING MONTHLY TIME HORIZONS

1987–2020 • Average Annual Compound Return (%) • US Dollar

#### **Nominal Returns**



Sources: MSCI Inc., Thomson Reuters Datastream, and US Department of Labor - Bureau of Labor Statistics. MSCI data provided "as is" without any express or implied warranties. Notes: Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes.

## Calendar year returns in emerging markets can be more extreme than in developed markets

#### DISTRIBUTION OF CALENDAR YEAR RETURNS

1988-2020 • US Dollar

#### **Emerging Markets**



#### **Developed Markets** 2019 Positive Years: 73% 2017 Negative Years: 27% 2020 2013 2012 2009 2010 2006 2016 2004 1999 2002 2018 2014 1997 1998 2015 2007 2001 1996 1995 2000 2011 2005 1991 1993 2008 1990 1992 1994 1989 1988 2003 40 to 50 -50+ -50 to -40 -40 to -30 -30 to -20 -20 to -10 -10 to 0 0 to 10 10 to 20 20 to 30 30 to 40

Sources: MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

Notes: Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes.

50+

## Emerging markets experience deeper drawdowns than developed markets

### ROLLING MONTHLY 5-YR MAXIMUM DRAWDOWN OF EQUITIES

1992–2020 • Percent (%) • US Dollar



Sources: MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

Notes: Data are monthly and begin on January 31, 1988. Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes.



Sources: MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

Notes: Figures will not sum exactly to total return calculation due to the effect of combining cross terms. Averages are geometrically annualized over the data period. Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes.

## Emerging markets returns exhibit mean reversion, though the process is not smooth

#### ROLLING MONTHLY TOTAL RETURN 5-YR AACR

1992-2020 • Percent (%) • US Dollar

#### Nominal Returns



**Real Returns** 



Sources: MSCI Inc., Thomson Reuters Datastream, and US Department of Labor - Bureau of Labor Statistics. MSCI data provided "as is" without any express or implied warranties. Notes: Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes.

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Sources: MSCI Inc. and Research Affiliates. MSCI data provided "as is" without express or implied warranties. Notes: Data are monthly. Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes.

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## Starting valuations are a useful guide for longer-term return expectations

RELATIONSHIP BETWEEN CYCLICALLY ADJUSTED PRICE-TO-CASH EARNINGS RATIOS AND SUBSEQUENT REAL 5- AND 10-YR AACRS August 31, 2000 – December 31, 2020 • Returns in Local Currency

#### Initial Valuation and Subsequent 5-Yr AACR





	Starting Cyclically Adjusted Price-to–Cash Earnings Ratio			Subsequent Real 5-Yr AACR (%)			Starting Cyclically Adjusted Price-to–Cash Earnings Ratio			Subsequent Real 10-Yr AACR (%)		
P/CE Ratio Percentile												
	Median	High	Low	Median	High	Low	Median	High	Low	Median	High	Low
0-10	7.0	7.4	6.1	10.1	27.3	6.2	6.8	7.4	6.1	7.3	11.3	5.7
10-25	7.8	8.0	7.4	5.2	28.2	2.1	7.9	8.0	7.4	10.0	10.8	8.9
25-75	8.7	9.8	8.0	3.9	25.3	-3.2	9.1	9.8	8.0	7.6	10.6	0.5
75–90	10.6	12.2	9.8	6.7	11.2	-2.7	10.6	12.2	9.8	4.9	6.9	1.6
90-100	13.1	15.9	12.2	-1.2	5.0	-5.7	13.1	15.9	12.2	0.9	2.6	-0.3
Overall	8.9	15.9	6.1	4.7	28.2	-5.7	9.7	15.9	6.1	5.7	11.3	-0.3

Sources: MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties.

Notes: Data are monthly. The last full five-year period was January 1, 2016, to December 31, 2020, and the last full ten-year period was January 1, 2011, to December 31, 2020. Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes. Data are in local currency terms.

Initial Valuation and Subsequent 10-Yr AACR

## Dividend yields are not statistically related to subsequent performance

#### RELATIONSHIP BETWEEN DIVIDEND YIELDS AND SUBSEQUENT REAL 5- AND 10-YR AACRS

September 30, 1995 – December 31, 2020 • Returns in Local Currency



Dividend Yield and Subsequent 10-Yr AACR



	Starting Period Dividend Yield (%)			Subsequent Real 5-Yr AACR (%)			Begin Period Dividend Yield (%)			Subsequent Real 10-Yr AACR (%)		
Dividend Yield Percentile												
	Median	High	Low	Median	High	Low	Median	High	Low	Median	High	Low
0-10	1.8	2.0	1.5	1.5	12.8	-6.2	1.8	2.0	1.5	6.5	9.4	-0.3
10-25	2.1	2.2	2.0	-1.8	16.8	-5.6	2.1	2.2	2.0	6.5	10.7	0.2
25-75	2.5	2.7	2.2	4.2	28.2	-3.4	2.4	2.7	2.2	5.8	11.8	0.7
75–90	2.8	2.9	2.7	5.4	25.7	1.7	2.8	2.9	2.7	6.6	11.0	3.6
90-100	3.1	4.3	2.9	8.2	25.3	2.2	3.5	4.3	3.0	6.7	12.8	3.7
Overall	2.4	4.3	1.5	3.5	28.2	-6.2	2.3	4.3	1.5	6.5	12.8	-0.3

Sources: MSCI Inc. and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties

Notes: Data are monthly. The last full five-year period was January 1, 2016, through December 31, 2020. The last full ten-year periods was January 1, 2011, through December 31, 2020. Total return data prior to January 1, 2001, are gross of dividend taxes. From January 1, 2001, to present total return data are net of dividend taxes. Data are in local currency terms. In USD terms, the R<sup>2</sup> are 0.11 (5-yr) and 0.03 (10-yr).

## Bull and bear market cycles turn more frequently in emerging markets

### HISTORICAL LENGTH OF BULL/BEAR MARKET CYCLES

January 1, 1988 – December 31, 2020 • US Dollar • Percent (%)



Sources: MSCI Inc., Ned Davis Research Inc., and Thomson Reuters Datastream. MSCI data provided "as is" without any express or implied warranties. Notes: Bull/bear markets are based on price return data and are cumulative. Bull/bear markets are defined by +19%/-19% return periods.

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