



January 2018

2017 Market Review

At the beginning of 2017, a common view among money managers and analysts was that the financial markets would not repeat their strong returns from 2016. Many cited the uncertain global economy, political turmoil in the US, implementation of Brexit, conflicts in the Middle East, North Korea's weapons buildup, and other factors. The global equity markets defied their predications, with major equity indices in the US, developed ex-US, and emerging markets posting strong returns for the year.

The broad global advance underscores the importance of following an investment approach based on diversification and discipline rather than prediction and timing. Attempting to predict markets requires investors to not only accurately forecast future events, but also predict how markets will react to those events. The 2017 markets were a good reminder that there is little evidence suggesting either of these objectives can be accomplished on a consistent basis.

Instead of attempting to make predictions about future events, investors should appreciate that today's price reflects the expectations of market participants and information about future expected returns. The following quote by the late Merton Miller, Nobel Laureate, describes this view:

"Everybody has some information. The function of the markets is to aggregate that information, evaluate it, and get it incorporated into prices."

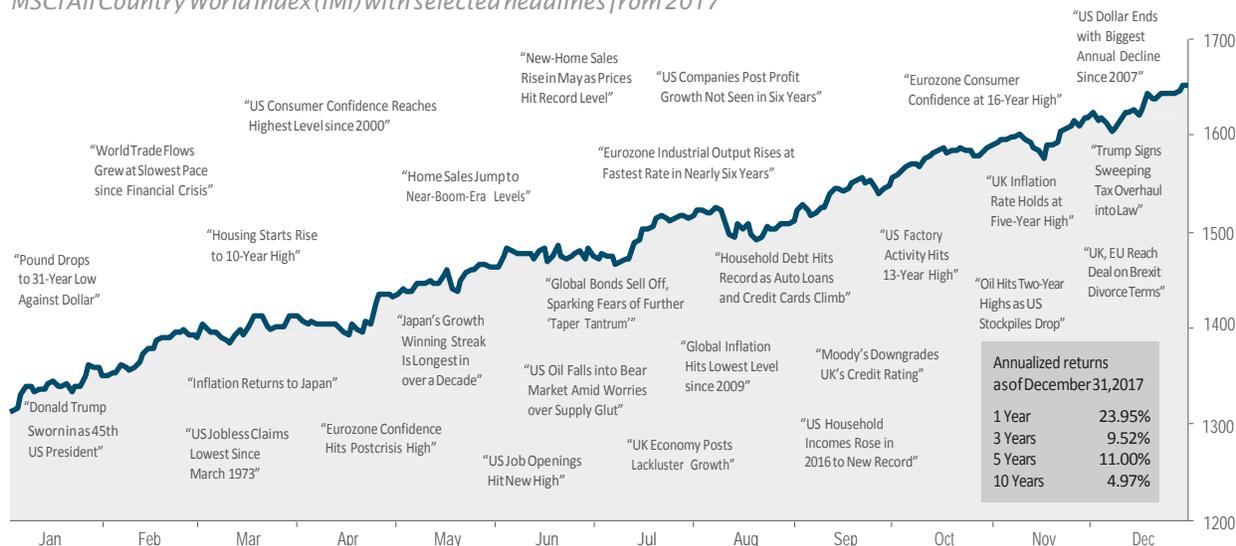
—Merton Miller

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World Stock Market Performance

MSCI All Country World Index (IMI) with selected headlines from 2017



Source: MSCI.

Past performance is not a guarantee of future results. In US dollars, net dividends. Index is not available for direct investment. Performance does not reflect the expenses associated with management of an actual portfolio.

The chart above highlights some of the year's prominent headlines in the context of global stock market performance as measured by the MSCI All Country World Index-Investable Market Index (MSCI ACWI IMI). These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

WORLD ECONOMY

In 2017, the global economy showed signs of stronger growth, with 45 countries tracked by the Organization for Economic Cooperation and Development (OECD) all on pace to expand.¹ Economic outlook and the expected impact on future cash flows are among the many variables markets consider when setting prices. Therefore, investors should remember that growth in the economy is not always linked to stock market performance.

Real GDP Growth by Region (%)

(annual rate)

	2016		2017	
	Q4	Q1	Q2	Q3
United States	1.8	1.2	3.1	3.2
Canada	2.2	3.7	4.3	1.7
Euro Area	2.6	2.5	2.8	2.4
Japan	1.4	1.5	2.9	2.5
China	7.0	5.7	7.4	7.0
Australia	3.5	1.7	3.8	2.4
United Kingdom	3.0	1.2	1.2	1.6

Sources: BEA, Statistics Canada, Cabinet Office (Japan), National Bureau of Statistics (China), Eurostat, Australian Bureau of Statistics, Office for National Statistics (UK)

1. Wall Street Journal, "Everything Went Right for Markets in 2017— Can That Continue?", 29 Dec. 2017.

Major World Indices

As of December 31, 2017

Index	One Year	Three Years	Ten Years
US Equity Returns (%)			
Russell 3000	21.13	11.12	8.60
Russell 2500	16.81	10.07	9.22
Russell 2000	14.65	9.96	8.71
Russell 2000 Value	7.84	9.55	8.17
Russell 2000 Growth	22.17	10.28	9.19
Russell 1000	21.69	11.23	8.59
Russell 1000 Value	13.66	8.65	7.10
Russell 1000 Growth	30.21	13.79	10.00
S&P 500	21.83	11.41	8.50
Non-US Equity Returns (net div.) (%)			
MSCI World ex USA	24.21	7.36	1.87
MSCI World ex USA Small Cap	31.04	12.96	5.16
MSCI World ex USA Value	21.04	6.26	1.32
MSCI World ex USA Growth	27.61	8.38	2.36
MSCI Emerging Markets	37.28	9.10	1.68
MSCI Emerging Markets Small Cap	33.84	8.44	2.78
MSCI Emerging Markets Value	28.07	6.21	0.91
MSCI Emerging Markets Growth	46.80	11.88	2.35
Fixed Income Returns (%)			
Bloomberg Barclays Global Aggregate Bond (hedged to USD)	3.04	2.66	4.16
Bloomberg Barclays US Aggregate Bond	3.54	2.24	4.01
Bloomberg Barclays US Credit	6.18	3.63	5.42
Bloomberg Barclays US Government Bond	2.30	1.40	3.23
Bloomberg Barclays Municipal Bond	5.45	2.98	4.46
ICE BofAML Three-Month US Treasury Bill	0.86	0.41	0.39
REIT and Commodity Returns (%)			
Dow Jones US Select REIT	3.76	4.97	7.07
S&P Global ex US REIT (net div.)	15.64	4.78	2.05
Bloomberg Commodity Total Return	1.70	-5.03	-6.83

*Annualized

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2017 MARKET PERSPECTIVE

Equity Market Highlights

Global equity markets posted another positive year of returns in 2017. The S&P 500 Index recorded a 21.83% total return and small cap stocks, as measured by the Russell 2000 Index, returned 14.65%, both above their long-term average return of 11.96% and 11.73%, respectively, since 1979.

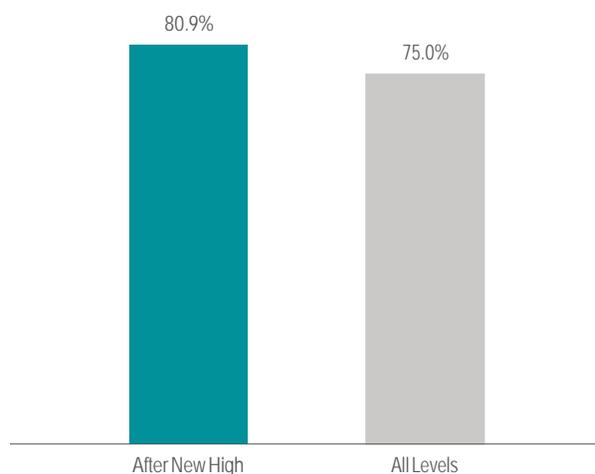
Returns among non-US equity markets were even higher. The MSCI World ex USA Index, which reflects non-US developed markets, logged a 24.21% return and the MSCI Emerging Markets Index a 37.28% return², making this the fifth highest return in the index history.

As the S&P 500 and other indices reached all-time highs during the year, a common media question was whether markets were poised for a downturn. History tells us that a market index being at an all-time high generally does not provide actionable information for investors.

For evidence, we can look at the S&P 500 Index for the better part of the last century. From 1926 through 2017, the frequency of positive 12-month returns following a new index high was similar to what is observed following months of any level. In fact, over this time period, almost

S&P 500 Total Return Index Highs: 1926–2017

Percent of Months with Positive Return over Next 12-Month Period



For Jan 1926–Dec 2017, 331 months or approximately 30% of monthly observations were new closing highs.

Note: 1,103 monthly observations.

The S&P data is provided by Standard & Poor's Index Services Group. For illustrative purposes only. Index is not available for direct investment. Past performance is not a guarantee of future results.

2. All non-US returns are in USD, net dividends

a third of the monthly observations were new closing highs for the index. The data shows that new index highs have historically not been useful predictors of future returns.³

Global Diversification Impact

Developed ex US markets and emerging markets generally outperformed US equities. As a result a market cap-weighted global equity portfolio would have outperformed a US equity portfolio.

The S&P 500 Index's 21.83% return marked its best calendar year since 2013 and placed 2017 in the top third of best performing calendar years in the index's history. Despite these returns, the US ranked in the bottom half of countries for the year, placing 35th out of the 47 countries in the MSCI All Country World Index (IMI).

Delving into individual countries, country level returns were mostly positive. Using the MSCI All Country World Index (IMI) as a proxy, 45 out of the 47 countries posted positive returns. Country level returns were dispersed even among those with positive returns. In developed markets, returns ranged from +10.36% in Israel to +51.39% in Austria. In emerging markets, returns ranged from -24.75% in Pakistan to +53.56% in Poland—a spread of almost 90%. Without a reliable way to predict which country will deliver the highest returns, this large dispersion in returns between the best and worst performing countries again emphasizes the importance of maintaining a diversified approach when investing globally.

China provides an example highlighting the noise in year-to-year single country returns. After a flat-to-negative return (USD) in 2016, Chinese equities returned more than 50% (USD) in 2017, making China one of the best performing countries for the year.

Currencies

Most major currencies including the euro, the Australian dollar, and the British pound appreciated against the US dollar. The strengthening of non-US currencies had a positive impact on returns for US investors with holdings in unhedged non-US assets. This may surprise some investors given that the US dollar has strengthened

against many currencies over the past five- and 10-year periods. However, just as with individual country returns, there is no reliable way to predict currency movements. Investors should be cautious about trying to time currencies based on the recent good or bad performance of the US dollar or any other currency.

Premium Performance

In 2017, the small cap premium⁴ was generally positive in developed ex US markets and negative across US and emerging markets. The profitability premium⁵ was positive across US, developed ex US, and emerging markets, while the value premium⁶ was negative across those markets.

US Market

In the US, small cap stocks underperformed large cap stocks and value stocks underperformed growth stocks. On a positive note, high profitability stocks outperformed low profitability stocks as measured marketwide.⁷

Although US small cap stocks, as described by the Russell 2000 Index, provided a healthy 14.65% return in 2017, the US small cap premium (as measured by the Russell 2000 Index minus the Russell 1000 Index) was negative, ranking in the lowest third of annual return differences since 1979. However, over the 10-year period ending December 31, the small cap premium was positive.

US value stocks returned 13.19% in 2017, as measured by the Russell 3000 Value Index. While double-digit returns from value are appealing, US growth stocks performed even better, with a 29.59% return as represented by Russell 3000 Growth Index. The difference between value and growth returns, as measured by the Russell 3000 Value Index minus Russell 3000 Growth Index, made 2017 the fourth lowest year for value since 1979 and pulled the five year rolling premium return into negative territory.

Even over extended periods, underperformance of the value premium or any other premium is within expectation and not unusual. Over a 10-year period ending in March 2000, value stocks underperformed growth stocks by 5.61% per year, as measured by the Russell 1000 Value and Russell 1000 Growth indices.

3. Dimensional Fund Advisors, "New Market Highs and Positive Expected Returns," Issue Brief, 5 Jan. 2017.

4. The small cap premium is the return difference between small capitalization stocks and large capitalization stocks.

5. Profitability performance is measured as the top half of stocks based on profitability minus the bottom half in the Russell 3000 Index.

6. The value premium is the return difference between stocks with low relative prices (value) and stocks with high relative prices (growth).

7. Profitability performance is measured as the top half of stocks based on profitability minus the bottom half in the Russell 3000 Index.

This underperformance quickly reversed course and by the end of February 2001, value stocks had outperformed growth stocks over the previous one-, three-, five-, 10-, and 20-year periods. Premiums can be difficult if not impossible to predict and relative performance can change quickly, reinforcing the need for discipline in pursuing these sources of higher expected returns.

The profitability premium was positive in 2017, with US high profitability stocks outperforming low profitability stocks.⁸ Viewing profitability through the lens of the other premiums, high profitability stocks outperformed low among value stocks while underperforming among growth stocks.

The complementary behavior of premiums in 2017 is a good example of the benefits of integrating multiple premiums in an investment strategy, which can increase the reliability of outperformance and mitigate the impact of an individual premium underperforming, as was the case with value among US stocks in 2017.

Developed ex US Markets

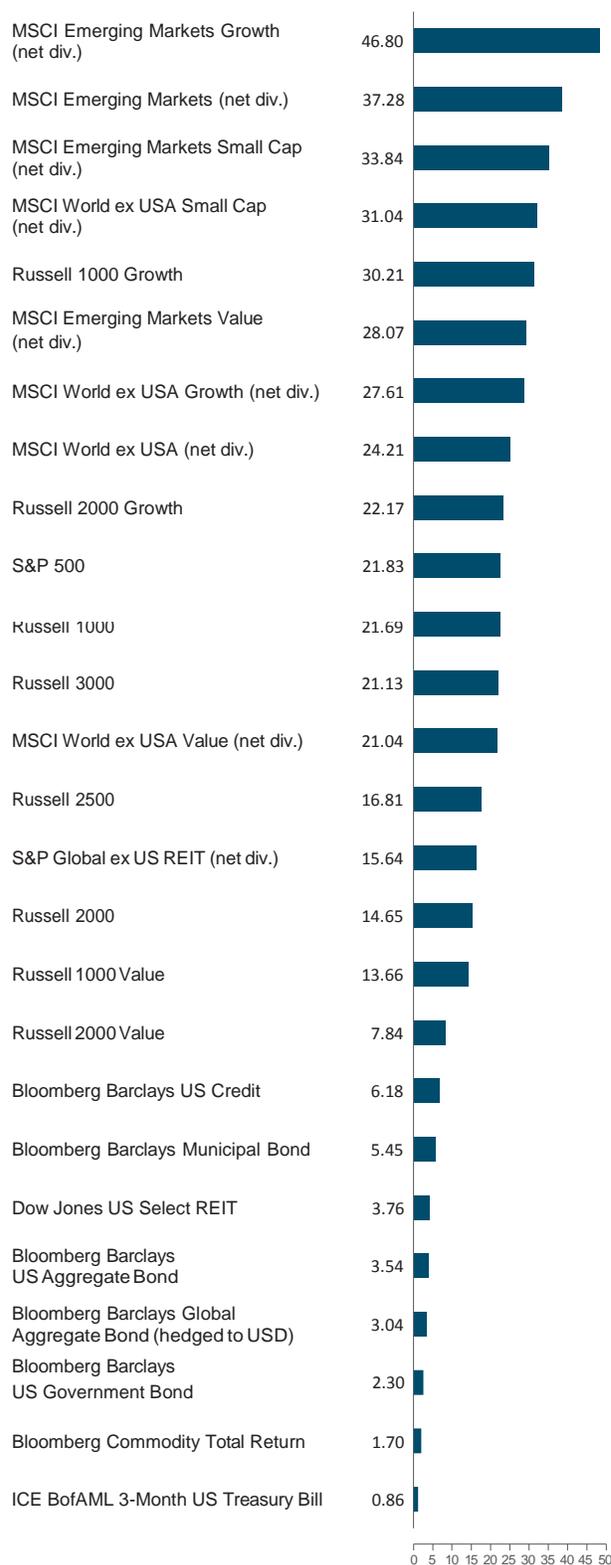
In developed ex US markets, small cap stocks outperformed large cap stocks while value stocks underperformed growth stocks. High profitability stocks outperformed low profitability stocks.

Over both five- and 10-year rolling periods, the small cap premium, measured as the MSCI World ex USA Small Cap Index minus the MSCI World ex USA Index, continued to be positive.

Similar to the US equity market, value stocks posted a healthy 21.04% return for 2017 as measured using MSCI World ex USA Value Index. However, growth stocks performed even better with a 27.61% return, as measured by the MSCI World ex USA Growth Index.

The profitability premium was positive in developed ex US markets viewed marketwide. Looking within size and style segments of the market, high profitability outperformed low profitability in all but the large growth segment.

Major World Indices Ranked by One-Year Performance (%) As of December 31, 2017



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8. Profitability performance is measured as the top half of stocks based on profitability minus the bottom half in the Russell 3000 Index.

Emerging Markets

In emerging markets, small cap stocks underperformed large cap stocks and value stocks underperformed growth stocks. Similar to the US equity market, high profitability stocks outperformed those with low profitability.

Value stocks returned 28.07% as measured by the MSCI Emerging Markets Value Index, but growth stocks fared better returning 46.80% using the MSCI Emerging Markets Growth Index. The value premium, measured as MSCI Emerging Markets Value Index minus MSCI Emerging Markets Growth Index, was the lowest since 1999.

Though 2017 generally marked a positive year for absolute equity returns, it marked a change in premium performance from 2016 when the size and value premiums were generally positive across global markets. Taking a longer-term perspective, these premiums remain persistent over decades and around the globe despite recent years' headwinds. It is well documented that stocks with higher expected return potential, such as small cap and value stocks, do not realize these returns every year. Maintaining discipline to these parts of the market is the key to effectively pursuing the long-term returns associated with the size, value, and profitability premiums.

Fixed Income

Both US and non-US fixed income markets posted positive returns in 2017. The Bloomberg Barclays US Aggregate Bond Index gained 3.54%. The Bloomberg Barclays Global Aggregate Bond Index (hedged to USD) gained 3.04%.

Yield curves were upwardly sloped in many developed markets for the year, indicating positive expected term premiums. Realized term premiums were indeed positive both globally and in the US as long-term maturities outperformed their shorter-term counterparts.

Credit spreads⁹, which are the difference between yields on lower quality and higher quality fixed income securities, were relatively narrow during the year, indicating smaller expected credit premiums. Realized credit premiums were positive both globally and in the US, as lower-quality investment-grade corporates outperformed their higher-quality investment-grade counterparts. Corporate bonds were the best performing sector, returning 6.42% in the US and 5.70% globally, as refl in the Bloomberg Barclays Global Aggregate Bond Index (hedged to USD).

In the US, the yield curve flattened as interest rates increased on the short end and decreased on the long end of the curve. The yield on the 3-month US Treasury bill increased 0.88% to end the year at 1.39%. The yield on the 2-year US Treasury note increased 0.69% to 1.89%. The yield on the 10-year US Treasury note decreased 0.05% for the year to end at 2.40%. The yield on the 30-year US Treasury bond decreased 0.32% to end the year at 2.74%.

In other major markets, interest rates increased in Germany while they were relatively unchanged in the United Kingdom and Japan. Yields on Japanese and German government bonds with maturities as long as eight years finished the year in negative territory.

CONCLUSION

The year of 2017 included numerous examples of the difficulty of predicting the performance of markets, the importance of diversification, and the need to maintain discipline if investors want to effectively pursue the long-term returns the capital markets offer. The following quote by David Booth provides useful perspective as investors head into 2018:

"The key is to have the correct view of markets and how they work. Once you accept this view of markets, the benefits go way beyond just investing money."

—David Booth

9. Bloomberg Barclays Global Aggregate Corporate Option Adjusted Spread