

# 2017 Annual Market Review

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This report features world capital market performance for the past year.

## Overview:

Market Summary

World Asset Classes

US Stocks

International Developed Stocks

Emerging Markets Stocks

Select Country Performance

Select Currency Performance vs. US Dollar

Real Estate Investment Trusts (REITs)







Commodities

Fixed Income

Impact of Diversification

# Market Summary

## Index Returns

|                        | US Stock Market  | International Developed Stocks   | Emerging Markets Stocks  | Global Real Estate  | US Bond Market  | Global Bond Market ex US  |
|------------------------|--|--|--|---|---|---|
| <b>2017</b>            | <b>STOCKS</b>  |  |  |   | <b>BONDS</b>  |   |
|                        | <b>21.13%</b><br> | <b>24.21%</b><br> | <b>37.28%</b><br> | <b>7.41%</b><br> | <b>3.54%</b><br> | <b>2.06%</b><br> |
| <b>Since Jan. 2001</b> |  |  |  |   |   |   |
| Avg. Annual Return     | 8.4%   | 7.0%   | 14.8%  | 11.0%   | 4.8%  | 4.5%  |
| Best Year              | 33.6%<br><b>2013</b>   | 39.4%<br><b>2003</b>   | 78.5%<br><b>2009</b>   | 37.4%<br><b>2006</b>  | 10.3%<br><b>2002</b>  | 9.8%<br><b>2014</b>   |
| Worst Year             | -37.3%<br><b>2008</b>  | -43.6%<br><b>2008</b>  | -53.3%<br><b>2008</b>  | -45.7%<br><b>2008</b>   | -2.0%<br><b>2013</b>  | 1.4%<br><b>2013</b>   |

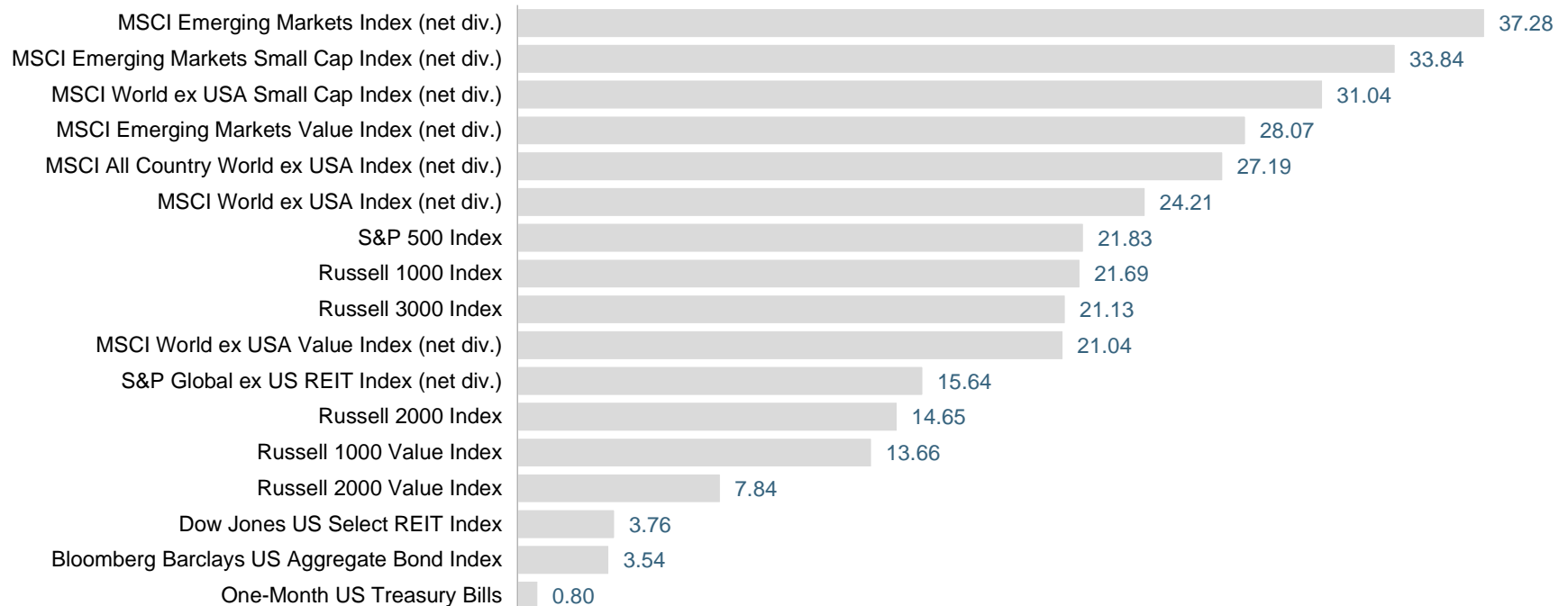
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# World Asset Classes

## 2017 Index Returns (%)

Looking at broad market indices, emerging markets outperformed US and non-US developed markets in 2017.

The value effect was negative in the US, non-US developed markets, and emerging markets. Small caps outperformed large caps in non-US developed markets but underperformed in the US and emerging markets.



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# US Stocks

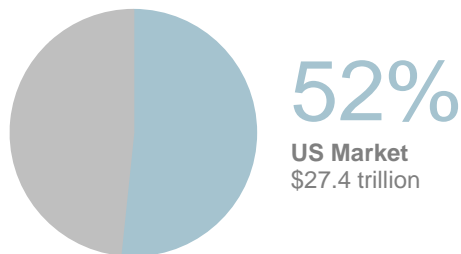
## 2017 Index Returns

The US equity market posted positive returns for 2017 but underperformed non-US developed and emerging markets.

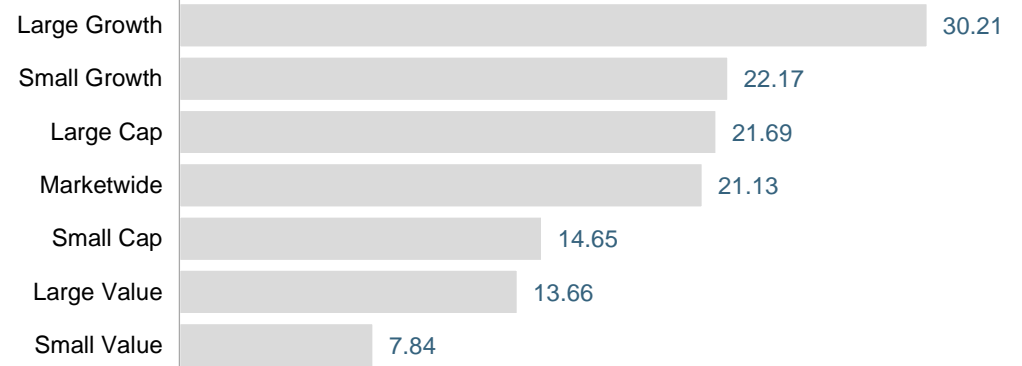
Value underperformed growth in the US across large and small cap indices.

Small caps underperformed large caps in the US.

### World Market Capitalization—US



### Ranked Returns for 2017 (%)



### Period Returns (%)

\* Annualized

| Asset Class  | 1 Year | 3 Years* | 5 Years* | 10 Years* |
|--------------|--------|----------|----------|-----------|
| Large Growth | 30.21  | 13.79    | 17.33    | 10.00     |
| Small Growth | 22.17  | 10.28    | 15.21    | 9.19      |
| Large Cap    | 21.69  | 11.23    | 15.71    | 8.59      |
| Marketwide   | 21.13  | 11.12    | 15.58    | 8.60      |
| Small Cap    | 14.65  | 9.96     | 14.12    | 8.71      |
| Large Value  | 13.66  | 8.65     | 14.04    | 7.10      |
| Small Value  | 7.84   | 9.55     | 13.01    | 8.17      |

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# International Developed Stocks

## 2017 Index Returns

In US dollar terms, non-US developed markets outperformed the US market but underperformed emerging markets during 2017.

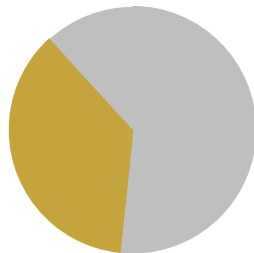
Looking at broad market indices, the value effect was negative.

Small caps outperformed large caps in non-US developed markets.

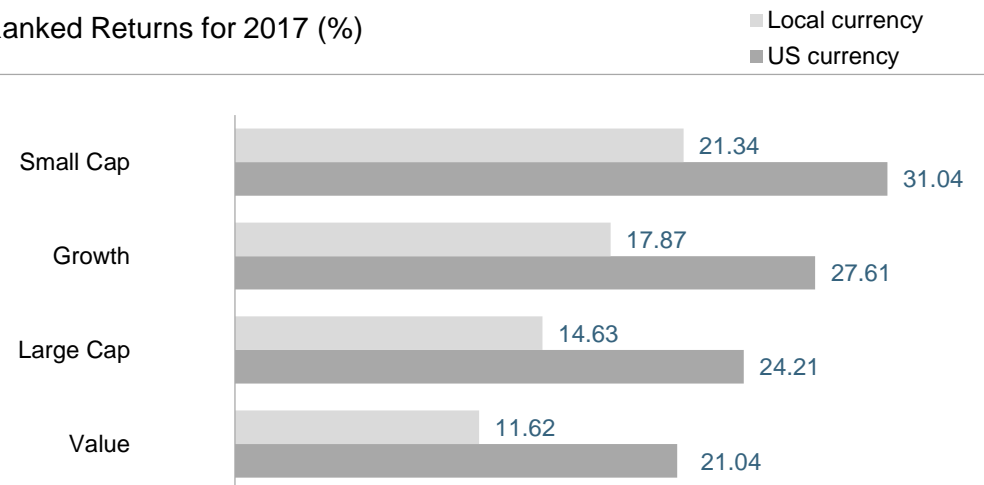
### World Market Capitalization—International Developed

**37%**

**International  
Developed  
Market**  
\$19.4 trillion



### Ranked Returns for 2017 (%)



### Period Returns (%)

| Asset Class | 1 Year | 3 Years* | 5 Years* | 10 Years* |
|-------------|--------|----------|----------|-----------|
| Small Cap   | 31.04  | 12.96    | 11.37    | 5.16      |
| Growth      | 27.61  | 8.38     | 8.22     | 2.36      |
| Large Cap   | 24.21  | 7.36     | 7.46     | 1.87      |
| Value       | 21.04  | 6.26     | 6.64     | 1.32      |

\* Annualized

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# Emerging Markets Stocks

## 2017 Index Returns

In US dollar terms, emerging markets outperformed the US and non-US developed markets for the year.

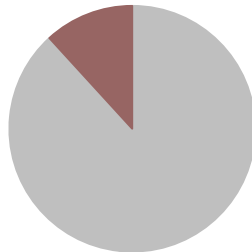
Across the large cap and mid cap space, the value effect was negative; however, in the small cap space, the effect was positive.

Overall, small caps underperformed large caps in emerging markets.

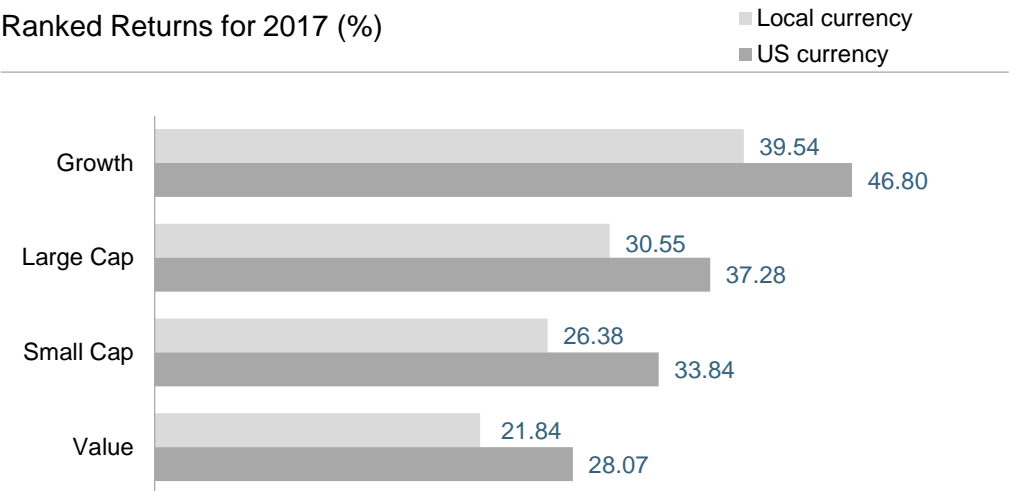
### World Market Capitalization—Emerging Markets

**12%**

Emerging  
Markets  
\$6.2 trillion



### Ranked Returns for 2017 (%)



### Period Returns (%)

| Asset Class | * Annualized |          |          |           |
|-------------|--------------|----------|----------|-----------|
|             | 1 Year       | 3 Years* | 5 Years* | 10 Years* |
| Growth      | 46.80        | 11.88    | 6.85     | 2.35      |
| Large Cap   | 37.28        | 9.10     | 4.35     | 1.68      |
| Small Cap   | 33.84        | 8.44     | 5.41     | 2.78      |
| Value       | 28.07        | 6.21     | 1.75     | 0.91      |

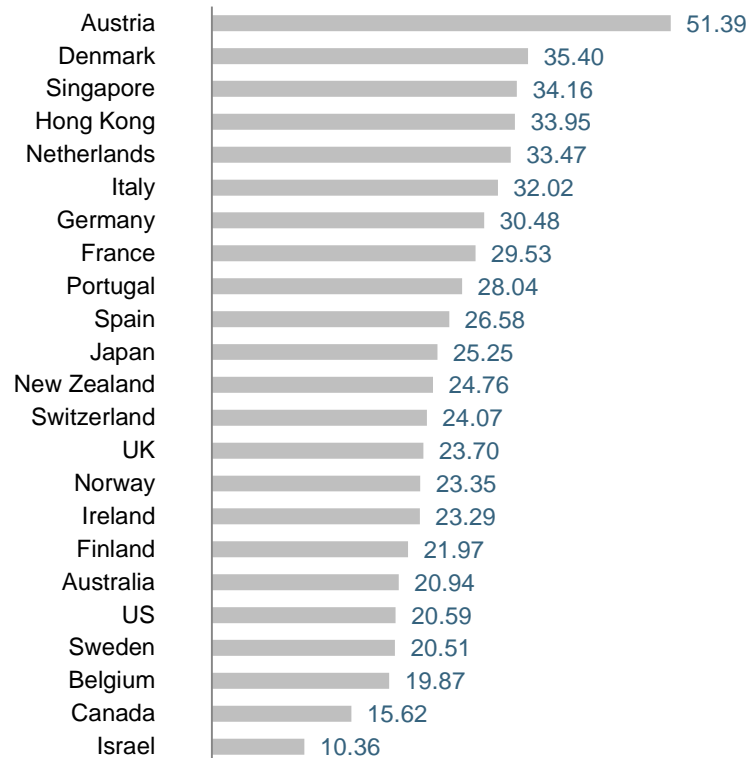
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# Select Country Performance

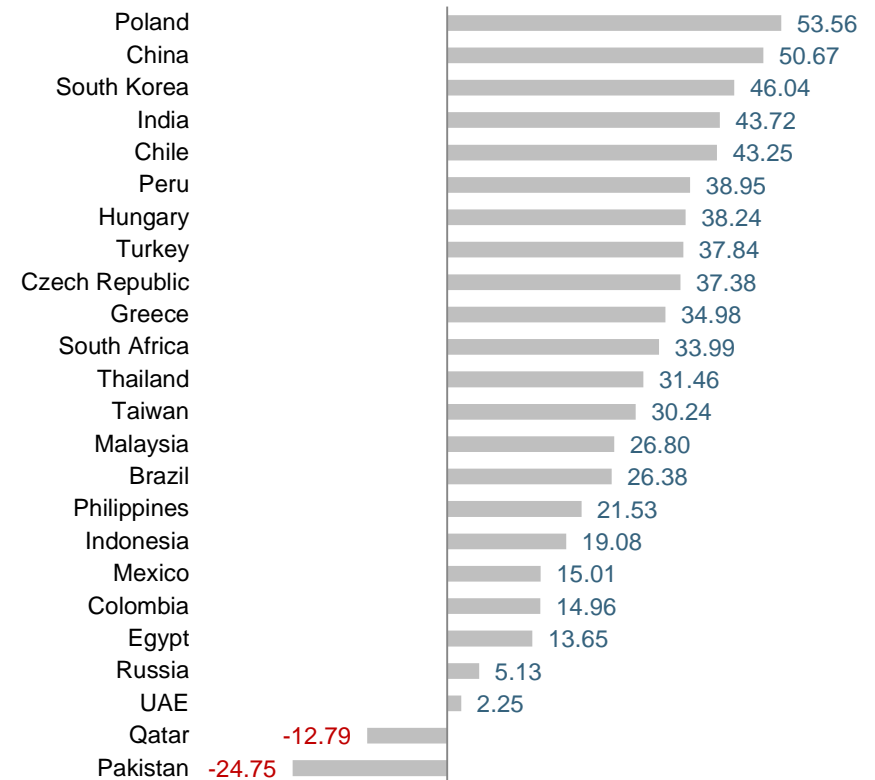
## 2017 Index Returns

In US dollar terms, Austria recorded the highest country performance in developed markets with a gain of more than 50%, while Israel posted the lowest return for the year. In emerging markets, Poland and China posted the highest country returns, each returning over 50%, while Pakistan and Qatar had the lowest performance.

### Ranked Developed Markets Returns (%)



### Ranked Emerging Markets Returns (%)



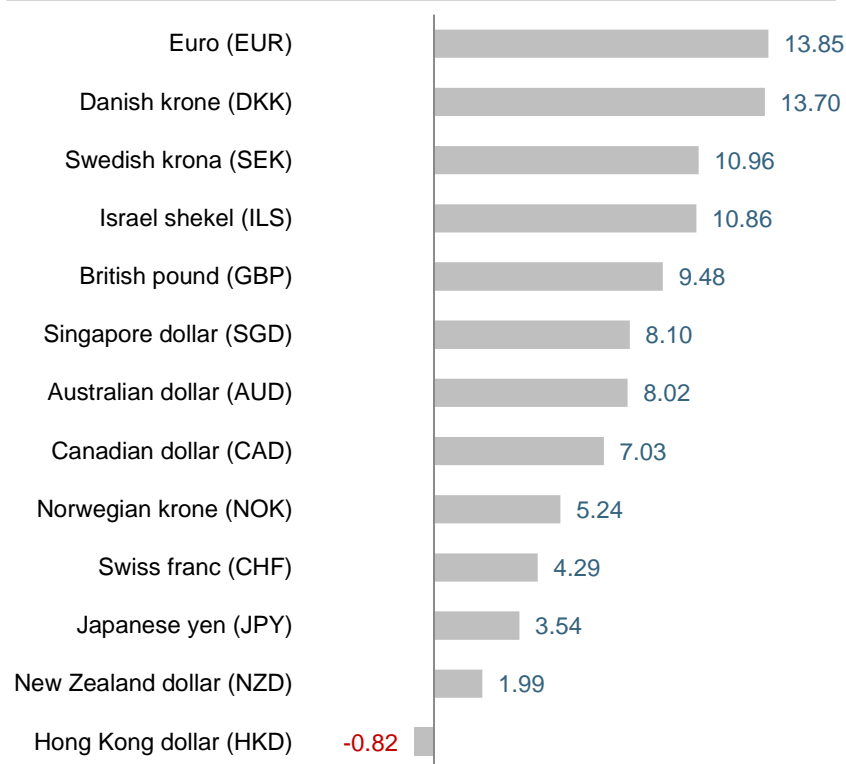


# Select Currency Performance vs. US Dollar

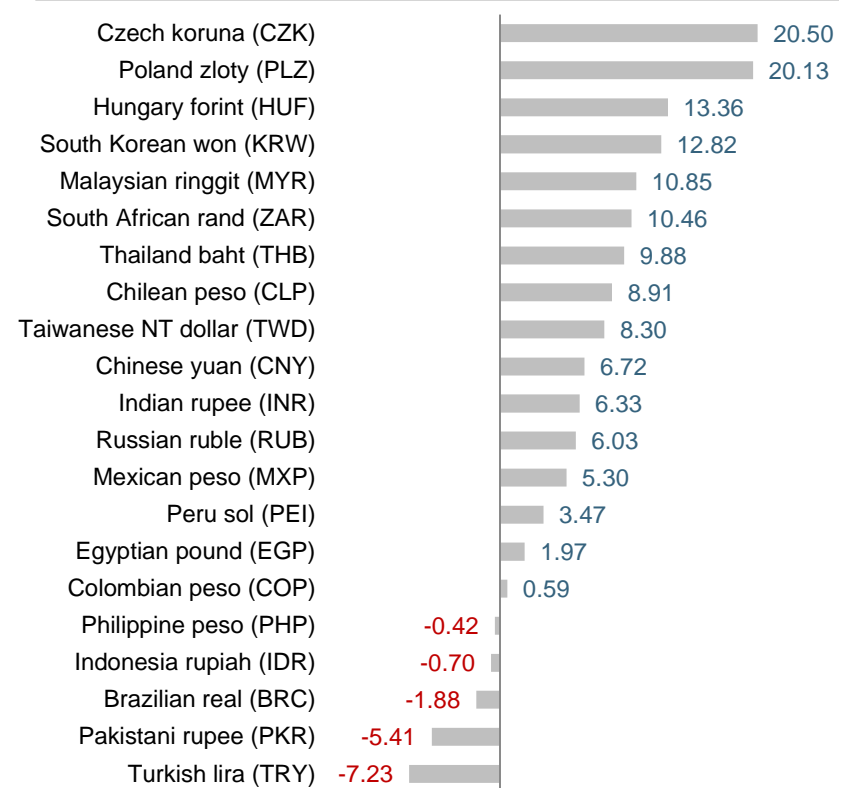
## 2017 Index Returns

Most developed market currencies appreciated against the US dollar in 2017. The euro and Danish krone appreciated the most with gains of almost 14%, while the Hong Kong dollar depreciated. In emerging markets, the Polish zloty and the Czech koruna appreciated more than 20%, while the Turkish lira depreciated over 7%.

### Ranked Developed Markets (%)



### Ranked Emerging Markets (%)

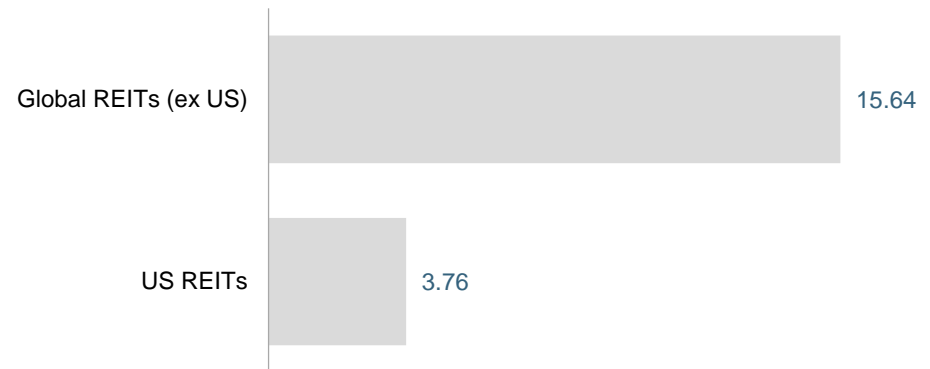


# Real Estate Investment Trusts (REITs)

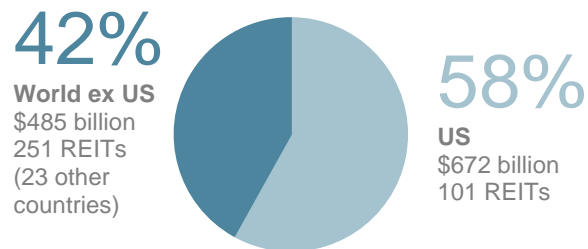
## 2017 Index Returns

Non-US real estate investment trusts outperformed US REITs in 2017.

### Ranked Returns for 2017 (%)



### Total Value of REIT Stocks



### Period Returns (%)

| Asset Class          | * Annualized |          |          |           |
|----------------------|--------------|----------|----------|-----------|
|                      | 1 Year       | 3 Years* | 5 Years* | 10 Years* |
| Global REITs (ex US) | 15.64        | 4.78     | 5.49     | 2.05      |
| US REITs             | 3.76         | 4.97     | 9.09     | 7.07      |

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Number of REIT stocks and total value based on the two indices. All index returns are net of withholding tax on dividends. Total value of REIT stocks represented by Dow Jones US Select REIT Index and the S&P Global ex US REIT Index. Dow Jones US Select REIT Index used as proxy for the US market, and S&P Global ex US REIT Index used as proxy for the World ex US market. Dow Jones US Select REIT Index data provided by Dow Jones ©. S&P Global ex US REIT Index data provided by Standard and Poor's Index Services Group © 2018.

# Commodities

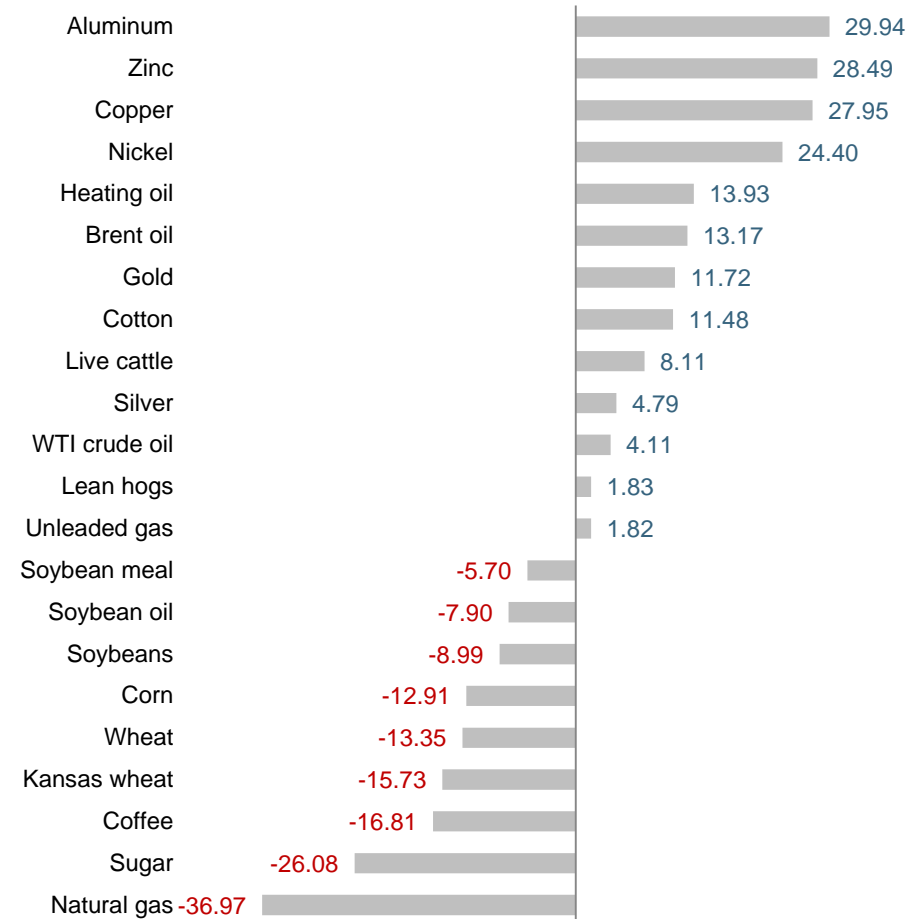
## 2017 Returns

The Bloomberg Commodity Index Total Return advanced 1.70% in 2017.

Aluminum was the strongest performer, posting a return of 29.94%. Zinc and copper followed with respective returns of 28.49% and 27.95%. Natural gas was the weakest performer, falling 36.97%.

| Period Returns (%) |        | * Annualized |          |           |
|--------------------|--------|--------------|----------|-----------|
| Asset Class        | 1 Year | 3 Years*     | 5 Years* | 10 Years* |
| Commodities        | 1.70   | -5.03        | -8.45    | -6.83     |

### Ranked Returns for Individual Commodities (%)



# Fixed Income

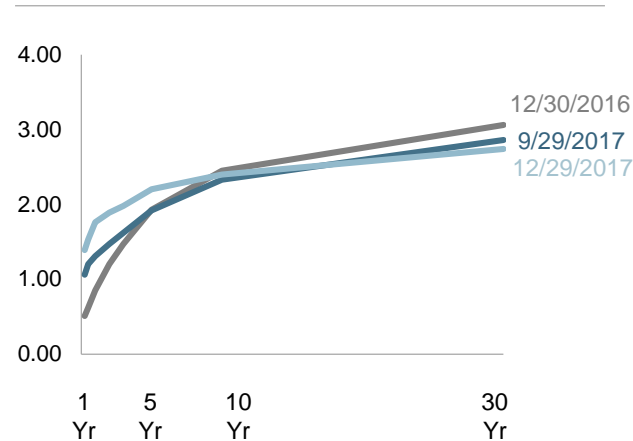
## 2017 Index Returns

Interest rate changes across the US fixed income market were mixed during the fourth quarter. The yield on the 5-year Treasury note rose 28 basis points (bps), ending at 2.20%. The yield on the 10-year Treasury note increased 7 bps to 2.40%. The 30-year Treasury bond yield decreased 12 bps to finish at 2.74%.

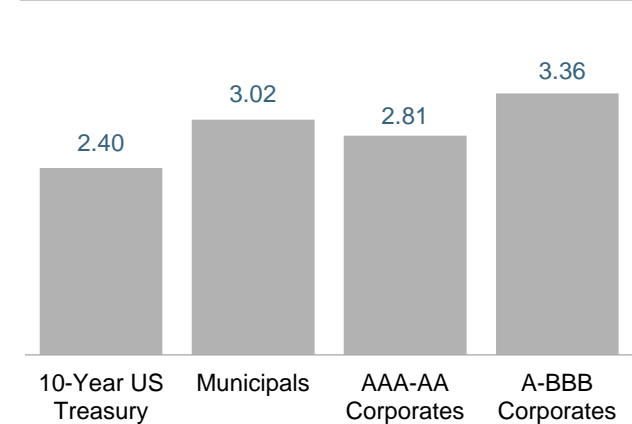
In terms of total returns, short-term corporate bonds declined 0.04% during the quarter but increased 1.85% for the year. Intermediate-term corporate bonds gained 0.17% for the quarter and 3.92% for the year.

The total returns for short-term municipal bonds were -0.65% for the quarter and 1.61% for the year. Intermediate-term municipal bonds fell 0.09% for the quarter but gained 4.70% for the year. Revenue bonds outperformed general obligation bonds for the year.

US Treasury Yield Curve (%)



Bond Yields across Issuers (%)



Period Returns (%)

| Asset Class  | * Annualized |          |          |           |
|--|--------------|----------|----------|-----------|
|  | 1 Year       | 3 Years* | 5 Years* | 10 Years* |
| Bloomberg Barclays Long US Government Bond Index           | 8.53         | 2.85     | 3.49     | 6.49      |
| Bloomberg Barclays US Corporate High Yield Index           | 7.50         | 6.35     | 5.78     | 8.03      |
| Bloomberg Barclays Municipal Bond Index                    | 5.45         | 2.98     | 3.02     | 4.46      |
| Bloomberg Barclays US Aggregate Bond Index                 | 3.54         | 2.24     | 2.10     | 4.01      |
| Bloomberg Barclays US TIPS Index                           | 3.01         | 2.05     | 0.13     | 3.53      |
| Citi World Government Bond Index 1-5 Years (hedged to USD) | 1.13         | 1.21     | 1.23     | 2.13      |
| ICE BofAML 3-Month US Treasury Bill Index                  | 0.86         | 0.41     | 0.27     | 0.39      |
| ICE BofAML 1-Year US Treasury Note Index                   | 0.57         | 0.49     | 0.38     | 0.90      |

One basis point equals 0.01%. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Yield curve data from Federal Reserve. State and local bonds are from the S&P National AMT-Free Municipal Bond Index. AAA-AA Corporates represent the Bank of America Merrill Lynch US Corporates, AA-AAA rated. A-BBB Corporates represent the Bank of America Merrill Lynch US Corporates, BBB-A rated. Bloomberg Barclays data provided by Bloomberg. US long-term bonds, bills, inflation, and fixed income factor data © Stocks, Bonds, Bills, and Inflation (SBBBI) Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefeld). Citi fixed income indices © 2018 by Citigroup. ICE BofAML index data © 2018 ICE Data Indices, LLC. The S&P data are provided by Standard & Poor's Index Services Group.

# Impact of Diversification

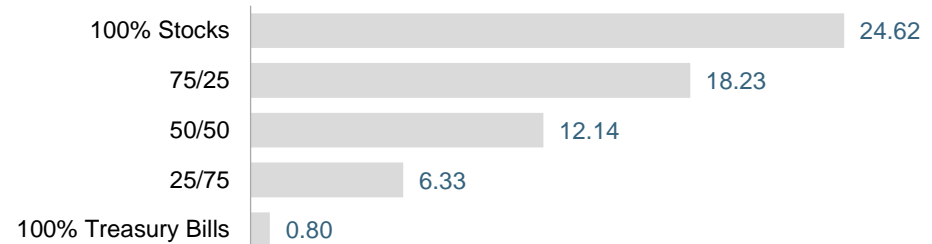
## 2017 Index Returns

These portfolios illustrate the performance of different global stock/bond mixes. Mixes with larger allocations to stocks are considered riskier but have higher expected returns over time.

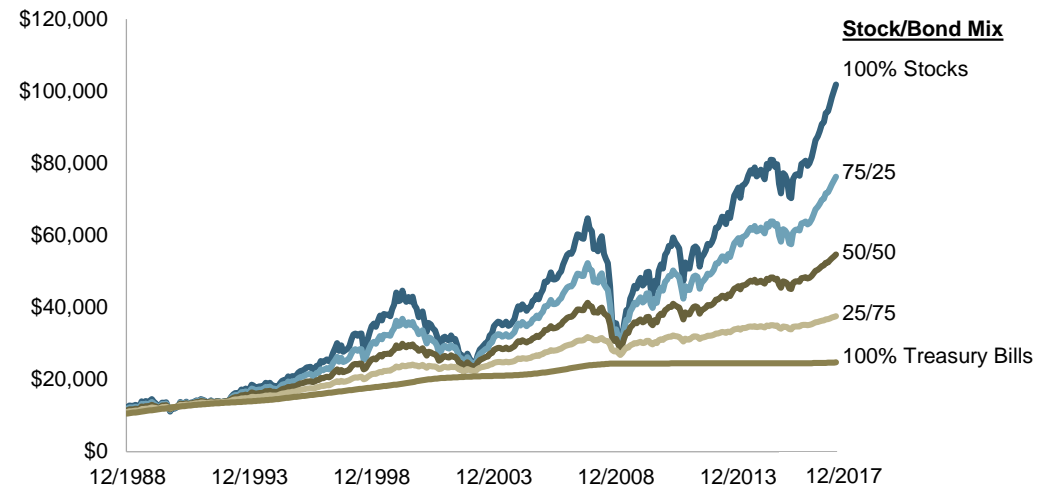
Period Returns (%) \* Annualized

| Asset Class         | 1 Year | 3 Years* | 5 Years* | 10 Years* | 10-Year STDEV <sup>1</sup> |
|---------------------|--------|----------|----------|-----------|----------------------------|
| 100% Stocks         | 24.62  | 9.89     | 11.40    | 5.22      | 16.80                      |
| 75/25               | 18.23  | 7.54     | 8.59     | 4.26      | 12.59                      |
| 50/50               | 12.14  | 5.15     | 5.79     | 3.11      | 8.38                       |
| 25/75               | 6.33   | 2.75     | 3.00     | 1.78      | 4.18                       |
| 100% Treasury Bills | 0.80   | 0.34     | 0.21     | 0.30      | 0.16                       |

## Ranked Returns for 2017 (%)



## Growth of Wealth: The Relationship between Risk and Return



1. STDEV (standard deviation) is a measure of the variation or dispersion of a set of data points. Standard deviations are often used to quantify the historical return volatility of a security or portfolio. Diversification does not eliminate the risk of market loss. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect expenses associated with the management of an actual portfolio. Asset allocations and the hypothetical index portfolio returns are for illustrative purposes only and do not represent actual performance. Global Stocks represented by MSCI All Country World Index (gross div.) and Treasury Bills represented by US One-Month Treasury Bills. Globally diversified allocations rebalanced monthly, no withdrawals. Data © MSCI 2018, all rights reserved. Treasury bills © Stocks, Bonds, Bills, and Inflation Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefeld).