

## DIVERSIFICATION OVER TIME



Diversification is an investment strategy that involves investing in a variety of different asset classes to reduce risk. Diversification involves holding a range of assets with varying performances over time, without over investing in any sector. This strategy helps protect against significant losses that could result from a concentrated portfolio. For stock investing, a diversified portfolio would include 20-30 (or more) different stocks from various industries. However, a diversified portfolio could also consist of other assets such as Bonds, Real Estate, Commodities, Mutual Funds/ETFs, Cash/Cash equivalents and Alternative Investments. As you can see in the chart below, different assets and/or sectors perform differently in any given year. Diversification will allow an investor to avoid being over allocated or concentrated in an underperforming sector over a specific time period.

| 2012                        | 2013                        | 2014                        | 2015                        | 2016                        | 2017                        | 2018                        | 2019                        | 2020                        | 2021                        | Return                     | Std Dev                    |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|
| EM<br>18.2%                 | US Sm Cap<br>38.8%          | US REITs<br>30.3%           | US REITs<br>2.5%            | US Sm Cap<br>21.3%          | EM<br>37.3%                 | T-Bills<br>1.9%             | US Lg Cap<br>31.5%          | US Sm Cap<br>20.0%          | US REITs<br>43.1%           | US Lg Cap<br>16.6%         | Comm.<br>23.4%             |
| US REITs<br>18.0%           | US Lg Cap<br>32.4%          | US Lg Cap<br>13.7%          | US Lg Cap<br>1.4%           | High Yield<br>Bond<br>16.6% | Int'l Dev<br>25.0%          | Core Bonds<br>0.0%          | US Sm Cap<br>25.5%          | US Lg Cap<br>18.4%          | Comm.<br>40.4%              | US Sm Cap<br>13.2%         | EM<br>16.8%                |
| EM Bonds<br>17.9%           | Int'l Dev<br>22.8%          | Core Bonds<br>6.0%          | EM Bonds<br>1.3%            | US Lg Cap<br>12.0%          | US Lg Cap<br>21.8%          | TIPS<br>-1.3%               | US REITs<br>24.4%           | EM<br>18.3%                 | US Lg Cap<br>28.7%          | US REITs<br>11.2%          | US REITs<br>16.2%          |
| Int'l Dev<br>17.3%          | Diversified 13.9%           | US Sm Cap<br>4.9%           | Core Bonds<br>0.5%          | Comm.<br>11.4%              | Diversified 16.8%           | Int'l Dev<br>Bonds<br>-2.1% | Int'l Dev<br>22.0%          | TIPS<br>11.0%               | US Sm Cap<br>14.8%          | Diversified 8.5%           | US Sm Cap<br>14.5%         |
| US Sm Cap<br>16.3%          | High Yield<br>Bond<br>6.6%  | EM Bonds<br>4.8%            | T-Bills<br>0.0%             | EM<br>11.2%                 | US Sm Cap<br>14.6%          | EM Bonds<br>-2.5%           | Diversified<br>19.5%        | Diversified 10.5%           | Int'l Dev<br>11.3%          | Int'l Dev<br>8.0%          | Int'l Dev<br>13.2%         |
| US Lg Cap<br>16.0%          | US REITs<br>2.4%            | TIPS<br>3.6%                | Int'l Dev<br>-0.8%          | EM Bonds<br>9.9%            | Int'l Dev<br>Bonds<br>10.5% | High Yield<br>Bond<br>-2.6% | EM<br>18.4%                 | Int'l Dev<br>Bonds<br>10.1% | Diversified<br>11.1%        | High Yield<br>Bond<br>6.3% | US Lg Cap<br>12.2%         |
| High Yield<br>Bond<br>15.4% | T-Bills<br>0.1%             | Diversified 3.2%            | TIPS<br>-1.4%               | Diversified<br>8.7%         | EM Bonds<br>8.2%            | US REITs<br>-3.8%           | Comm.<br>17.6%              | Int'l Dev<br>7.8%           | TIPS<br>6.0%%               | EM<br>5.5%                 | Diversified 8.5%           |
| Diversified 14.1%           | Comm.<br>-1.2%              | High Yield<br>Bond<br>2.1%  | Diversified -2.3%           | US REITs<br>8.5%            | High Yield<br>Bond<br>6.8%  | US Lg Cap<br>-4.4%          | High Yield<br>Bond<br>15.3% | Core Bonds<br>7.5%          | High Yield<br>Bond<br>4.5%  | EM Bonds<br>5.1%           | High Yield<br>Bond<br>7.5% |
| TIPS<br>7.0%                | Core Bonds<br>-2.0%         | T-Bills<br>0.0%             | US Sm Cap<br>-4.4%          | TIPS<br>4.7%                | Comm.<br>5.8%               | Diversified -7.2%           | EM Bonds<br>13.1%           | EM Bonds<br>6.5%            | T-Bills<br>0.0%             | TIPS<br>3.1%               | EM Bonds<br>7.2%           |
| Core Bonds<br>4.2%          | EM<br>-2.6%                 | EM<br>-2.2%                 | High Yield<br>Bond<br>-5.3% | Core Bonds 2.6%             | US REITs<br>4.3%            | US Sm Cap<br>-11.0%         | Core Bonds<br>8.7%          | High Yield<br>Bond<br>5.9%  | Core Bonds<br>-1.5%         | Core Bonds 2.9%            | Int'l Dev<br>Bonds<br>6.3% |
| Int'l Dev<br>Bonds<br>4.1%  | Int'l Dev<br>Bonds<br>-3.1% | Int'l Dev<br>Bonds<br>-3.1% | Int'l Dev<br>Bonds<br>-6.0% | Int'l Dev<br>Bonds<br>1.5%  | Core Bonds 3.5%             | Int'l Dev<br>-13.8%         | TIPS<br>8.4%                | T-Bills<br>0.6%             | EM Bonds<br>-1.7%           | Int'l Dev<br>Bonds<br>0.8% | TIPS<br>5.7%               |
| Comm.<br>0.1%               | EM Bonds<br>-4.1%           | Int'l Dev<br>-4.9%          | EM<br>-14.9%                | Int'l Dev<br>1.0%           | TIPS<br>3.0%                | Comm.<br>-13.8%             | Int'l Dev<br>Bonds<br>5.1%  | US REITs<br>-7.5%           | EM<br>-2.5%                 | T-Bills<br>0.6%            | Core Bonds<br>3.7%         |
| T-Bills<br>0.1%             | TIPS<br>-8.6                | Comm.<br>-33.1%             | Comm.<br>-32.9%             | T-Bills<br>0.3%             | T-Bills<br>0.8%             | EM<br>-14.6%                | T-Bills<br>2.3%             | Comm.<br>-23.7%             | Int'l Dev<br>Bonds<br>-7.0% | Comm.<br>-5.5%             | T-Bills<br>0.8%            |

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