Improving portfolio efficiency with multi-asset absolute return strategies

Key takeaways

Benchmark-agnostic absolute return strategies can help improve portfolio efficiency and diversification.

Absolute return strategies may be used to pursue a specific historic rate of return with less volatility or to increase portfolio return potential without a significant boost in volatility.

Despite significant above-trend returns for equities since the 2008 credit crisis, investors have still benefited from including absolute return strategies in their investment portfolios.

With many asset markets priced near all-time highs and at risk of volatility from policy uncertainty around the world, investors stand to benefit from seeking more resilient strategies likely to enhance risk-adjusted returns (measured by Sharpe ratio) without sacrificing performance goals. Two approaches dominate: pursuing a portfolio’s desired rate of return with less volatility and seeking to increase returns without a significant boost in volatility. In recent years, investors have made progress toward these goals by refining the optimal asset allocation mix.

At Putnam, we believe a more powerful tool for further improvement comes from adding a new layer of diversification with absolute return strategies. In our investment research and practice, we find that absolute return strategies, which we define as unconstrained, benchmark-agnostic strategies that focus on more efficient returns with less systematic risk (beta), can help improve the overall efficiency of an investment plan.
Investors have historically maintained balanced asset allocations

Despite recent progress, most investors continue to hold a portfolio that closely resembles a traditional 60% stock/40% bond allocation. Evidence of this can be found by looking at the historical equity allocation from the American Association of Individual Investors (AAII) Asset Allocation Survey, where the historical equity allocation is 60%.

In recent decades, this reliance on traditional asset classes has served investors well, as rising equity markets accompanied by falling interest rates have created a favorable environment. Using historical asset class data going back to 1990 (Figure 1 and Figure 2), if the average investor maintained a 60% equity/40% fixed-income allocation and rebalanced it quarterly, it would have generated a hypothetical annualized return of 8.18% with 9.56% volatility.

With the memory of the 2008 financial crisis still in mind and with potential sources of volatility on the horizon — including a change in the U.S. administration, the political restructuring of the European Union, and China’s efforts to manage a heavy debt burden while shifting away from export-led growth — many investors may be looking for new ways to outfit their portfolios for a more uncertain global market landscape while pursuing their funding needs.

We think it is particularly timely, then, to revisit portfolio allocations, recognizing that equity and fixed-income performance has been extremely strong for over five years thanks to unusually low interest rates and policy accommodation. Now is the time to build more efficient portfolios that are less dependent on benchmark-oriented strategies by including alternative investments. We believe diversifying allocations to include absolute return strategies can enhance a portfolio’s efficiency in pursuing risk-adjusted returns.

Impact of absolute return on portfolio efficiency

To test the effects that absolute return strategies can have on an overall portfolio, we first constructed a re-sampled frontier utilizing a combination of global stocks, bonds, and real assets such as commodities. Next, we calculated a new re-sampled frontier that included an allocation to absolute return strategies, ranging from 0% to 40%. Figure 2 shows the proxies in which asset classes were represented.

It is also important to understand that although alternatives often get classified as one broad asset class, there are many categories of alternative strategies, with each offering its own unique risk and return characteristics. For example, there are strategies offering inflation protection that typically involve investments in real assets like commodities or REITs. Another category of alternatives could focus on growth amplification and...
incorporate private equity or direct real estate investments. Although there is value in each of these categories, at Putnam we believe absolute return strategies that focus on volatility management are of significant importance to individual investors’ portfolio construction.

To represent absolute return, we chose an index that exhibits the characteristics we are seeking: unconstrained, benchmark-agnostic strategies that focus on volatility management, and more efficient returns with less systematic risk (beta). The HFRI Fund Weighted Composite Index proved to be the best proxy with the most available data.

From 1990 to December 31, 2015, the HFRI Fund Weighted Composite Index produced an annualized excess return of 6.77%, with a standard deviation of 9.19%, resulting in a Sharpe ratio of 0.74*, and an equity beta of 0.37. Employing the HFRI Fund Weighted Composite Index runs the risk of introducing survivorship bias; however, its longer track record and performance characteristics still make it a reasonable proxy for absolute return strategies in general.

* Returns adjusted, assuming a first-order auto correlation.

Figure 3 compares two efficient frontiers: one with an allocation to equities, fixed income, and commodities, and a second that includes an allocation to absolute return strategies. It also shows the hypothetical return of a 60% equity/40% fixed-income portfolio. One may notice that a 60% equity/40% fixed-income portfolio lies close to the first frontier, but this is to be expected as our first frontier contains healthy allocations to stocks and bonds, with a small amount allocated to commodities.

For the analysis, the following constraints were implemented in order to limit complexity and maintain diversity:

• No negative asset class values (i.e., no short positions in an asset class/strategy)

• Portfolio must remain fully invested and unlevered

Analysis shows an allocation to absolute return improved efficiency by shifting the entire efficient frontier up and to the left. This provides further evidence of the diversification benefit that comes with including strategies that are focused on producing attractive risk-adjusted returns while remaining less dependent on traditional benchmarks.

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Figure 4 shows the efficient frontier of allocations to the various asset classes/strategies, including absolute return, by portfolio volatility. It is important to note that although the average excess return for absolute return is less than that of equities at 7.11%, an allocation to absolute return still proves to be useful in improving portfolio efficiency. As Figure 4 depicts, a sizable allocation to absolute return is justified across several risk levels. The only case in which an allocation to absolute return is not warranted is when an investor wishes to maximize return without regard for volatility. In that extreme scenario, however, the resulting portfolio would be completely concentrated in equities and would likely expose investors to greater potential risks. The goal of absolute return strategies is not necessarily to be the highest-returning asset class, but to provide higher efficiency with lower equity beta.

A closer look at the typical 60% equity/40% fixed-income portfolio

We also looked closely at the hypothetical performance of the traditional investor portfolio allocation of 60% equity and 40% fixed income. When it is included on the efficient frontier comparison (Figure 5), it is quite noticeable that the hypothetical return for this portfolio lies near the traditional efficient frontier, but falls considerably below the efficient frontier that includes an allocation to absolute return. It is clear that most investors are missing out on improved portfolio efficiency (i.e., a better Sharpe ratio).

To improve the average investor’s portfolio and resulting Sharpe ratio, two scenarios were tested: maintaining the historic rate of return with less volatility and increasing returns without a significant boost in volatility. As Figure 5 illustrates, both scenarios require the portfolio to move toward the efficient frontier, either to the left or up.

Figure 6 illustrates the two scenarios. Notice that the Scenario 1 portfolio delivers very similar return while reducing annualized volatility by 262 bps (9.56% less 6.94%). The Scenario 2 portfolio generates an additional 90 bps of annualized return (9.08% less 8.18%) with similar volatility.

In Scenario 1, with the addition of an allocation to absolute return, exposure to equities is reduced significantly, while the allocation to fixed income is largely unchanged.

In Scenario 2, with the addition of an allocation to absolute return, exposure to fixed income is reduced significantly, while the allocation to equities is only marginally reduced.
FIGURE 5
The typical 60% equity/40% fixed-income portfolio can become more efficient with an absolute return allocation.

![Graph showing efficient frontiers with and without absolute return strategies.]

Sources: Putnam Investments, Morningstar, and Evestment. Data represent the period 1/31/90–12/31/15. The index standard deviation shown is for illustrative purposes only and is not indicative of the performance of any specific Putnam strategy.

FIGURE 6
Funding an absolute return allocation depends upon investor goals.

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Sharpe Ratio</th>
<th>Hypothetical Return</th>
<th>Standard Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical 60% equity/40% fixed-income portfolio — 1990–2015</td>
<td>0.53</td>
<td>8.18%</td>
<td>9.56%</td>
</tr>
<tr>
<td>SCENARIO 1</td>
<td>0.74</td>
<td>8.20%</td>
<td>6.94%</td>
</tr>
<tr>
<td>Applying absolute strategies to maintain return with lower volatility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCENARIO 2</td>
<td>0.63</td>
<td>9.08%</td>
<td>9.43%</td>
</tr>
<tr>
<td>Applying absolute strategies to increase return, while maintaining volatility</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Sources: Putnam Investments, Morningstar, and Evestment. Due to rounding, totals may not equal 100%. Data represent the period 1/31/90–12/31/15. The index standard deviation shown is for illustrative purposes only and is not indicative of the performance of any specific Putnam strategy. Past performance is not a guarantee of future results.

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Funding approach depends on investors’ goals
A common question among investors is how to fund an increased allocation to absolute return strategies. The answer may not be entirely straightforward, as it largely depends on each investor’s goals. In one case, an investor more concerned with reducing volatility and keeping risk low might consider selling equities to fund allocations to absolute return. In another case, as investors move out on the risk spectrum, they might consider selling bonds to fund the absolute return allocation.

The scenarios in Figure 6 illustrate these approaches well. In Scenario 1, which is the allocation that targets the same return with lower volatility, the allocation to fixed income remains significant at 40%, while the equity allocation is reduced to 20%. In Scenario 2, which seeks a higher rate of return with no increase in volatility, the allocation to fixed income falls to 20%, while the allocation to equities remains significant.

Analyzing more recent history, and the effect of absolute return strategies
Many have questioned the usefulness of incorporating absolute return strategies in a broader portfolio context and specifically cite recent performance. Since the 2008 credit crisis, many absolute return strategies have failed to keep pace with traditional risky assets, especially equities. This has caused some investment plans that incorporate more absolute return strategies to lag traditional portfolios.

We would argue that it is potentially ill-advised for investors to use equity performance since 2008 to estimate the long-term return expectations of this asset class. As seen in Figure 7, equities had extraordinarily high returns, while other asset classes as well as absolute return strategies had results more in keeping with their long-term performance. Since 2008, the S&P 500 Index produced an excess return over cash of 14.94%, more than doubling its average 7.29% return over cash for the 25 years that ended December 31, 2015. Meanwhile, its volatility measured by standard deviation was essentially the same in the 7-year and 25-year periods, at 14.59 versus 14.60, respectively. In the same time frame, absolute return strategies had results that were more consistent with their long-term performance. The excess return over cash was 5.67% in the 7-year period, a difference of only 110 basis points from the 6.77% excess return for the 25-year period.

In addition, as Figure 8 illustrates, during the shorter time period of December 31, 2008, through December 31, 2015, an investor who maintained a 60% equity and 40% fixed-income allocation would have generated a return of 9.24%, with annualized volatility of about 10.24%, resulting in a Sharpe ratio of 0.89. Clearly, this traditional allocation has received a significant boost from the above-trend equity returns experienced beginning in 2009. Replicating the previously mentioned Scenario 1 and Scenario 2, we can test whether or not an investor is able to deliver the same type of return or volatility as the 60% equity/40% fixed-income portfolio while maintaining
a 20% allocation to absolute return. In Figure 8, we can see that the Scenario 1 portfolio generates the 9.18% return, with 9.33% annualized volatility, for a Sharpe ratio of 0.97. The Scenario 2 portfolio is able to generate a return of 9.84% only, with 10.32% annualized volatility, resulting in a Sharpe ratio of 0.94.

Examples like these cause many investors to question the usefulness of absolute return. Interestingly, these investors often ignore the fact that the past five years have seen equities deliver more than twice the return experienced over longer periods. In our opinion, the relative underperformance of absolute return strategies has been overstated. Looking deeper into performance over the seven years of strong equity results since the financial crisis of 2008, illustrated in Figure 8, an investor in both Scenario 1 and Scenario 2 could still generate impressive excess returns with Sharpe ratios of 0.97 and 0.94, respectively. This performance is quite respectable when compared with the 0.89 Sharpe ratio of a 60% equity/40% fixed-income portfolio. In addition, investors should be able to take comfort in the fact that by including absolute return, they likely have a more balanced, more diversified portfolio that does not rely on equity markets to outperform their long-term averages in order to potentially generate positive returns and a competitive Sharpe ratio.

**Conclusion**

Whether one is looking to generate a specific historic rate of return with less volatility or to increase portfolio returns without a significant boost in volatility, we believe that incorporating benchmark-agnostic absolute return strategies can help improve portfolio efficiency and diversification. When analyzing the effects over longer periods, the potential benefit of the inclusion of more absolute return strategies appears to be quite significant. Even when looking at more recent history, however, despite significant returns from equities, investors who incorporate absolute return strategies in a thoughtful manner have still managed to generate attractive risk-adjusted returns. This analysis provides strong evidence that unconstrained, benchmark-agnostic strategies that focus on more efficient returns with less systematic risk (beta) can be a powerful tool for improving the efficiency of an investment portfolio.
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