

The Clash of Conventional Wisdom and Science

To expose the many shortcomings of the conventional approach and provide a road map to investing success, our white paper, *Evidence-Based Investing* (EBI), and this brief summary of the paper illustrate the methods and conclusions of EBI. The goal of EBI is to maximize after-tax returns for the individual investor while minimizing risk and protecting portfolios from market downturns.

Approaching a problem or a set of questions from an evidence-based point of view has profoundly affected the field of medicine, and now investing. EBI offers a way to answer investment questions in a systematic, analytical, and scientific manner as described in the four steps below.



1 Eliminate Meaningless Questions

The conventional investment approach rests on spurious assumptions and false hopes. Whether one seeks investing success by picking stocks, timing the market, or by picking skilled money managers, the costs of these speculative techniques are greater than any gains derived by their practice.

What is the best way to capture market returns?

Typically, conventional investors focus on stock selection and market timing while ignoring the primary driver of future return – optimal allocation between different asset classes. We believe asset allocation is, by far, the most effective means of capturing market returns.

Do professional money managers perform better than market indexes?

History shows that on average they do not perform better. The average actively managed fund compared to its relevant passive index for the past 15 years ending 12/31/18 has underperformed by a range of 0.4% to 2.4% annually across the various stock categories.¹

Can you beat the market by identifying great money managers?

If one attempts to actively select stock funds, there is a good possibility that the fund will not even exist in the future, let alone outperform. In fact, over the past 15 years only 51% of stock funds survived and only 14% of those survivors actually outperformed their benchmark.² Chasing performance doesn't work.

Can market timing improve returns?

Evidence shows that the behavior and ranking of asset classes defies prediction from year to year. Even patterns that seem to appear can often reverse quickly and backfire on investors who chase returns. In fact, just missing the best 25 days in stocks since 1988 would have reduced an investor's return by almost 5% on average per year.³

Can investors overcome the fees charged and taxes generated by money managers?

The cost of active management is considerable, and there are many different layers of costs to consider. In short, costs matter. Funds with the highest expense ratios trail their benchmarks by much more than funds with lower costs.⁴

2 Ask Meaningful Questions

Meaningful questions need to be formulated. That means asking questions that can be proven or disproven with reference to evidence. The questions must also have significance for the individual investor. This requires the experience and knowledge of an objective financial advisory team.

What is the role of bonds and what types of bonds are most appropriate?

Bonds have always been a preferred means of protecting principal and providing income. In order to create a strong, defensive bond allocation, intermediate and short-term bonds should be blended with inflation-protected and international bonds to protect against a variety of market conditions.

Is it advantageous to diversify overseas?

The U.S. market only makes up about half of the world's market capitalization. International stocks behave differently than U.S. stocks, making them an excellent source of diversification. Portfolios that include both U.S. and international stocks historically experienced higher returns and lower risk than a portfolio composed solely of either U.S. or international stocks.⁵

Can small stocks be safely included in diversified portfolios?

While it is true that small stocks are more volatile than large stocks, they account for the highest number of stocks globally. There is no way to capture overall stock market returns without including small stocks. They offer higher expected returns and historically have earned an average annual premium of 1.9% over large stocks.⁶

Are value stocks preferable to growth stocks?

Yes, both history and evidence vindicate the value investor over the growth investor. Since 1927, value stocks have outperformed growth stocks by an average annual return of 1.7%.⁷ There are, however, some periods when growth outperforms value so it is wise to include both to maintain broad diversification.

Should diversified portfolios invest in assets other than stocks and bonds?

Portfolios can benefit from alternative investments when they are transparent, liquid, and have low correlations to other major asset classes. REITs, commodities, managed futures, and reinsurance are four examples of asset classes that demonstrate these traits and are the logical completion of a broadly diversified portfolio.

3 Apply the Evidence

Once the right questions have been asked, evidence can be applied to solve problems and integrate both advisor expertise and the individual investor's values and goals. The implementation of the portfolio includes several key areas: investment selection, rebalancing, and managing taxes.

- For investment selection, both passive (indexed) and broad-based market funds have the essential characteristics of being low cost, tax-efficient, and transparent.
- Rebalancing ensures a commitment to long-term risk control and can enhance return. Simply put, rebalancing allows you to systematically purchase investments that have declined in price and sell investments that have increased in price.
- As legendary investor Sir John Templeton said, "For all long-term investors, there is only one objective: maximum total return after taxes." We couldn't agree more! Fortunately, there are numerous strategies that can be utilized to maximize after-tax returns, including the use of low turnover funds, tax-managed funds, municipal (tax-free) bonds, tax-loss harvesting, and asset location (tax engineering).

4 Monitor for Effectiveness

The last step, monitoring for effectiveness, is a very important part of the process. We refer to it as "robust investment oversight" which we believe significantly enhances investment results by eliminating needless risk.

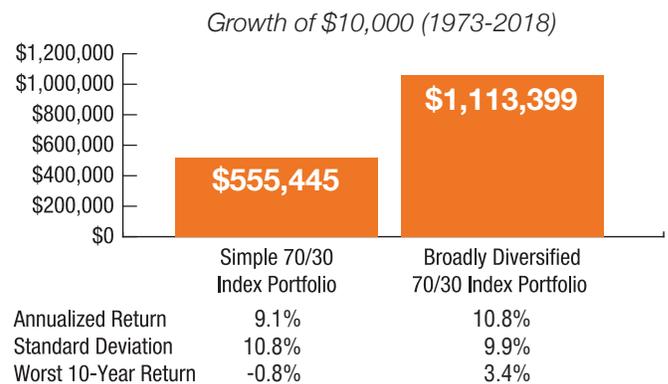
The Investment Committee is at the helm of Savant's investment management and is responsible for overseeing all investment-related activities including the firm's investment philosophy / process, forward-looking return expectations, asset allocation, investment selection, ongoing due diligence, and implementation. The Committee consists of Savant's executive team, senior investment research analysts, and senior advisors. The investment environment is constantly changing (capital markets, tax code, investment universe), and leveraging a formal committee and process is more important than ever.

Evidence-Based Investing—The Positive Results

Evidence clearly shows that the added wealth generated by a broad, globally diversified portfolio is substantial. Investors in a broadly diversified global index portfolio (using the aforementioned EBI principles) accumulated more than twice the wealth of investors owning a simple index portfolio. It pays to defy conventional wisdom and follow the evidence. We encourage you to read the full white paper which contains details of the evidence.

Simply put, we believe the broadly diversified global index portfolio is a better investment solution. This approach can be used to create portfolios ranging from 100% stocks to 100% bonds, depending on the goals and risk tolerance of the individual investor. This evidence presents a scientific framework investors can use to help enhance the art of investing.

Broadly Diversified Portfolios Deliver Higher Returns and Less Risk⁸



About Savant Capital Management

Savant Capital Management is a nationally recognized fee-only wealth management firm that has been serving clients since 1986. At Savant, our goal is to empower people to reach their life and financial goals. Our proprietary *Building Ideal Futures*SM planning and investment processes strive to bring clarity, focus, and simplicity to our clients' financial situation. Our team of professionals takes the time to get to know our clients' goals, aspirations, and what is most important to them. We help them devise a financial plan that guides them to their end goals and then we help make sure they stay on track along the way.

As a fee-only Registered Investment Advisor, Savant acts in the best interest of our clients; we stand in their shoes and advise them as if we are looking through their eyes. Savant fully acknowledges and actively embraces our fiduciary responsibilities, employing prudent investment processes and providing full transparency of fees. Because of this we believe we can provide truly objective advice. Savant offers integrative investment management and financial planning tools to individuals, families, foundations, trust funds, retirement plans, and nonprofit organizations. We also provide portfolio design, tax planning, advanced estate and wealth transfer planning, and business consulting services.

References, Notes, Sources of Data and Methodology

Data source is Morningstar Direct unless otherwise noted.

1. Active fund returns are Morningstar open-end fund category average returns for U.S. Large-Cap, U.S. Mid-Cap, U.S. Small-Cap, Developed International, Emerging Markets.
2. Source: Dimensional Fund Advisors, 2018. Equity funds – performance periods ending 12/31/2017.
3. S&P 500 Index data 1/1988-12/2018.
4. Low expense funds are defined as funds in the first quartile of expense ratios in their category. High expense funds are defined as funds in the fourth quartile of expense ratios in their category. For example, over the 10-year period ending as of 12/31/2017, low expense funds in the U.S. Large Cap category had an annualized average return of 8.2% versus high expense funds having an average return of 6.2%.
5. Data period: 1/1973-12/2017. U.S. Large Stocks - S&P 500 Index (10.4% return, 15.1% risk (standard deviation)). International Developed (9.0% return, 17.0% risk), Emerging Markets (12.3% return, 21.1% risk), Global Blend (10.5% return, 14.5% risk) - 67% U.S. Large Stocks, 24% International Developed, 9% Emerging Markets. International Developed: A blend of the MSCI EAFE and International Small (DFA International Small Company Index 1/1973 - 9/1996, S&P EPAC after 9/1996). Emerging Markets: MSCI EAFE 1/1973-12/1987, MSCI EM GR 1/1988-12/1998, MSCI EM NR 1/1999-12/2017.
6. Data period: 1/1926-12/2018. Annualized return for the S&P 500 Index is 10% and for the Ibbotson Small Stock Index is 11.8%.
7. Data period: 8/1927-12/2018. Annualized return for the Fama-French Large Value Index is 11.0% and for the Fama-French Large Growth Index is 9.3%.
8. Simple 70/30 Index Portfolio: 15% U.S. Short-Term Bonds (Ibbotson U.S. 1-Year Treasury Index), 15% Interm.-Term Bonds (BbgBarc Interm. Government/Credit Bond Index), 70% U.S. Large Stocks (S&P 500 Index). Broadly Diversified 70/30 Index Portfolio: 6.6% Short-Term Bonds, 7.7% Interm.-Term Bonds, 2.2% Inflation-Protected Bonds (50% BbgBarc Interm. Government/Credit Bond Index and 50% Ibbotson U.S. 1-Year Treasury Constant Maturity Index 1/73 – 2/97, BofAML U.S. Treasury Inflation-Linked Securities Index after 2/97), 5.5% International Bonds (BbgBarc Interm. Government/Credit Bond Index 1/73 – 4/93, JPM Global GBI ex U.S. Hedged Index after 4/93), 16.6% U.S. Large Stocks, 14.7% U.S. Large Value Stocks (Fama-French Large Value Index), 3.5% U.S. Small Stocks (Ibbotson U.S. Small Stock Index 1/73 – 6/92, MSCI U.S. Small Cap 1750 Index after 6/92), 5.9% U.S. Small Value Stocks (Fama-French Small Value Index 1/73 – 6/92, MSCI U.S. Small Cap Value Index after 6/92), 4.1% Int'l Large Stocks (MSCI EAFE Index), 5.2% Int'l Large Value Stocks (MSCI EAFE Index 1/73-12/74, MSCI EAFE Value Index after 12/74), 4.6% Int'l Small Stocks (DFA International Small Company Index 1/73 – 8/89, S&P EPAC Small Cap Index after 8/89), 4.6% Int'l Small Value Stocks (DFA International Small Company Index 1/73 – 8/89, S&P EPAC Small Value Index after 8/89), 5.9% Emerging Markets Stocks (MSCI EAFE 1/73-12/87, MSCI EM GR 1/1988-12/1998, MSCI EM NR after 1/99), 2.6% REITs (FTSE NAREIT U.S. Equity REIT Index 1/73 – 1/95, S&P Global REIT Index after 1/95), 2.6% Commodities (S&P GSCI Commodity Index 1/73 – 1/91, Bloomberg Commodity Index after 1/91, 3.5% Managed Futures (AQR equal weighted Trend Following Strategy quantitative backtests 1/73 – 1/98, Credit Suisse Managed Futures Liquid Index after 1/98) 4.3% Reinsurance (59.5% IA SBBI IT Govt Index, 40.5% IA SBBI US 1 Yr Trsy Const Mat Index (1/73 – 12/01), SwissRe Global Cat Bond Index after 1/2002).

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