InvestingII Can You Beat The Market?

Building a Diversified Portfolio

Step 1. Personal Investor Profiler, PIP

Step 2. Investment Policy Statement, IPS

Step 3. Design the portfolio by selecting specific securities for each asset class

Step 4. Implement the portfolio by purchasing the securities

Step 5. Monitor and rebalance as appropriate

Modern Portfolio Theory, MPT

Developed by Harry Markowitz; first published in 1951 Capitalizes on the lack of correlation between certain asset classes to reduce risk

Efficient Market Hypothesis, EMH

Developed by Eugene Fama in the 1960s Asset prices reflect all available information Stock prices always trade at their "fair value" Implications: Impossible to beat the market by stock picking or market timing Research is a waste of time and \$\$\$ Only path to higher returns is thru higher risk

Capital Asset Pricing Model, CAPM

Developed by Harry Markowitz and Bill Sharpe

Expected portfolio return = Alpha + Beta times market return Alpha is the excess return above an appropriate risk-adjusted benchmark Beta is a multiplier for the market return; measures volatility vs. a benchmark

Definitions: Passive investor attempts to replicate the market at minimum cost

 i.e. anyone who is happy to realize the market beta by building a diversified portfolio of low cost index funds and rebalancing as needed.

 Active investor is anyone who is not a passive investor

 i.e. attempts to beat the market (generate alpha) by superior stock picking and/or market timing.

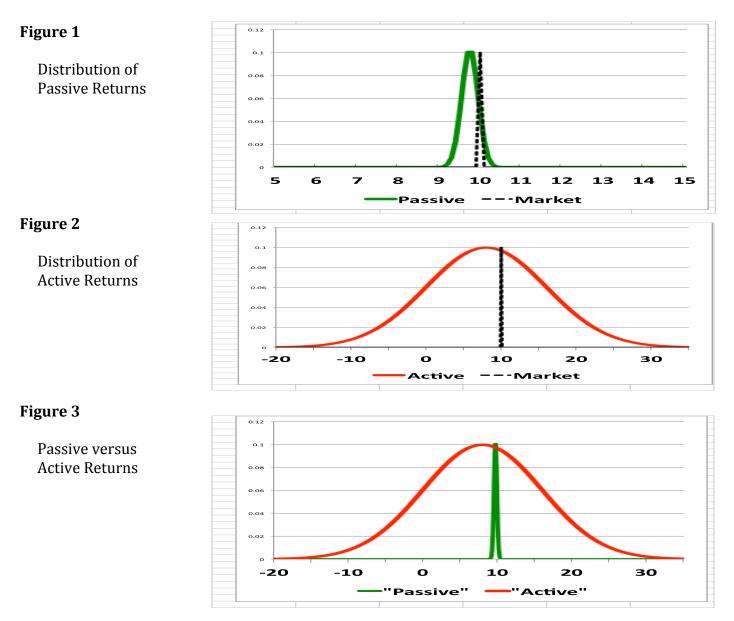
SincePassive investors + Active investors = Total marketandReturn of passive investors = market return on average, less cost, by definitionTherefore:Return of active investors = market return on average, less cost

Assume Market return = 10% and passive costs = 0.25% Then Passive return = 9.75% on average +/- narrow distribution (see Figure 1 overleaf)

But active investors costs are higher, say 2.0%

Trade more often, higher bid/ask spreads, higher expense ratio, pay for research, etc. and distribution is much wider because they have concentrated portfolios aiming at diverse targets Then Active return = 8.0% on average +/- wider distribution (see Figure 2 overleaf)

Now compare the distribution of returns for passive and active investors (see Figure 3 overleaf) In practice approximately 70% of all investors who attempt to beat the market fail to do so. Those who do beat the market cannot do so consistently, and are unpredictable. 1 in 1024 dart-throwing monkeys can beat the market for 10 consecutive years by luck alone.



For every winning trade an active investor makes, there's a losing trade.

Do you have an advantage over the other guy? Are you smarter? Have access to better data?

Who is on the other side of the transaction?

Pension funds, endowment plans, mutual funds, individual investors (smart / not so smart) Are there enough "not so smart "individuals to take the other side of your trade?

Most investors trade too often. Trading is detrimental to your financial health.

To beat the market you have to predict the future better than everyone else.

If you predict the same future as everyone else you get the same market returns as everyone else. Fred Smith opinion: We can't predict the future, but we can prepare for it.

The Frustrating Law of Active Management

For a strategy to outperform in the long run, it <u>must</u> underperform in the short run to forcethe weak hands to fold.Corey Hoffstein and Justin Sibears, Newfound Research, October 2, 2017.

Next month, December 11th, 2019: Retirement Planning I Accumulation and distribution phases My email: <u>fred.svaaii@gmail.com</u> 10/1/19 Chapter website: <u>www.siliconvalleyaaii.org</u> FSF/FP_SIG/FP1911Invest_II.docx