4 T H A N N U A L

Innovative ALTERNATIVE INVESTMENT STRATEGIES

Tail Risk Management: Using Tactical Strategies to Capture Trends

MODERATOR

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Managing Director
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CIO and Founder IPS Strategic Capital





Innovative ALTERNATIVE INVESTMENT STRATEGIES

Behavioral Portfolio Management Tail Risk Management

C. Thomas Howard, PhD

Emeritus Professor of Finance Daniels College of Business

CEO and Director of Research
Athenalovest, Inc

Portfolio Manager

AdvisorShares Athena International Bear ETF (HDGI: NYSE arca)





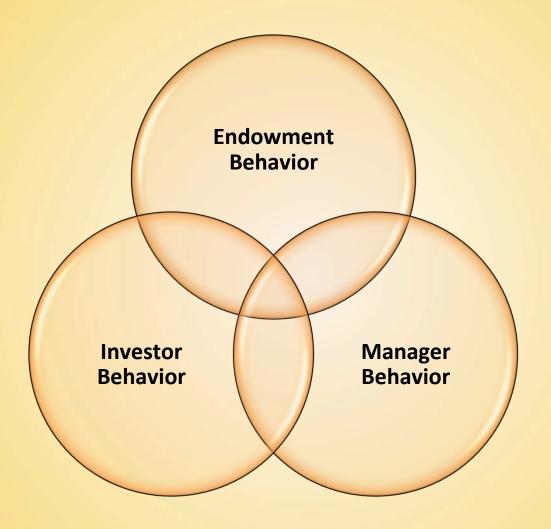
Three Eras of Finance

Fundamental	MPT	Behavioral	
1934-1973	1974-2013	2014	
Graham & Dodd Market	Efficient Market	Behavioral Market	
Analyst & Manager	Engineered Solutions	Harnessing Market	
Skill	Formulas	Emotions	
Fundamental	Mathematical	Behavioral	
Intrinsic Value	Models	Factors	





Athena Behavioral Research







Tail Risk Management Strategies

- ✓ Asset Allocation
 - ✓ Separate Short & Long
 - ✓ Endowment Model
- ✓ Investment Selection
 - ✓ Active Management
 - ✓ Hedging
- ▼ Tactical Management
 - ✓ Defensive
 - **✓ Opportunistic**

At What Cost?





Traditional Approaches Are Not Working

60/40

- Multiple Objectives
- High Correlations
- Low Bond Yields

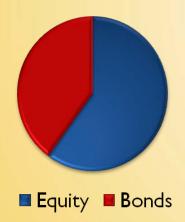
Style Boxes

- Hurts Performance
- Highly Correlated

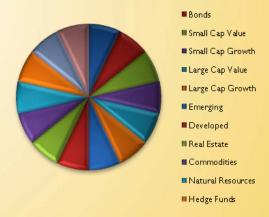
Complex

- Over-diversified
 - Global Mush
- Weak Performance
 - High Cost

■ Cash



	Value	Core	Growth
Large			
Mid			
Small			







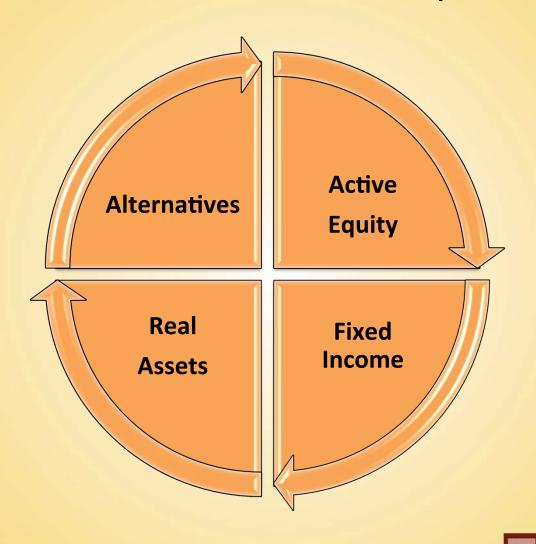
Endowment Framework

Component	Point of View	
Goals & Needs	Separate Short & Long	
Time Horizon	10-20-30+ Years	
Asset Class	Expected Returns	
Investment Selection	Excess Returns	
Investment Risk	Underperformance	





Endowment Allocation Components







Academic Research Foundation

Active Management (Active)

- Amihud & Goyenko
- NYU
- R squared

Best Ideas (Conviction)

- Cohen & Polk
- Harvard
- Relative Weight

Strategy (Consistency)

- Howard
- Denver University
- Own Strategy Stocks

Consistent Research Results

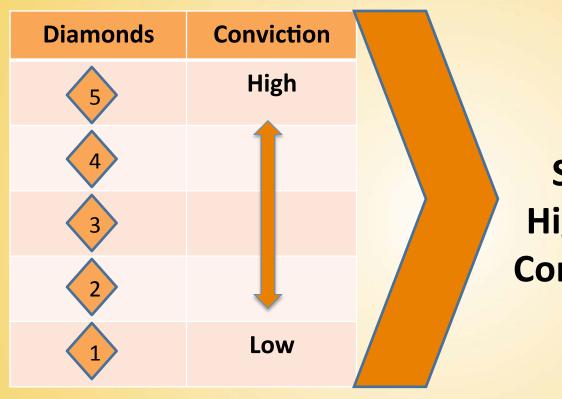
4%-6% **Excess Returns Above The Market**







Active Management Behavioral Spread



400-600bps
Spread Between
Highest and Lowest
Conviction Managers

Advisor Perspectives - Tom Howard

"Improving on Morningstars Ratings" June 22, 2010, "
"Using Buy Side Analytics to Improve Stock Selection" November 16, 2010

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Protected by US Patents 7734526, 8352347, and Singapore Patent 150371.





Tactical Model Behavioral Components

Athena Market
Barometer

Investor Relative Preference for US & International Strategies

Baker and Wurgler
Sentiment Index

Investor Sentiment for Small & Large stocks

Expected Returns Signal Strength

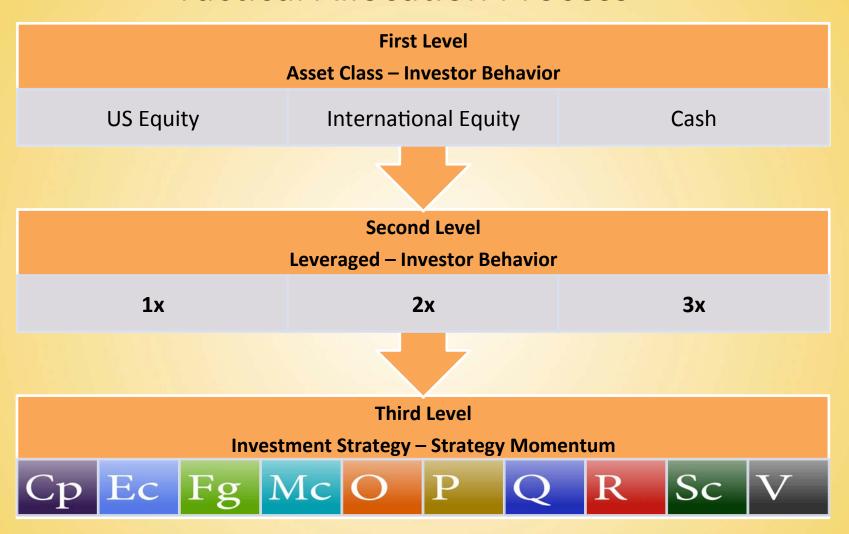
Market Selection Strategy Momentum

> Strategy Selection





Tactical Allocation Process







Summary Model Characteristics

	Index MSCI ACWI	Endowment Allocation	Tactical Allocation	Best Ideas Hedged	Tactical Leveraged
Annual Return	7.6%	9.8%	9.9%	11.6%	21.3%
Standard Deviation	16.5%	11.6%	14.0%	16.5%	24.0%
R Squared	.92	.82	.82	.64	.42
Beta	1.09	.73	.87	.68	1.07
Up Side	108	88	103	94	171
Down Side	108	68	89	78	116

Results are based on the 10yr time period June 2003 through June 2013. Endowment results are based on AthenaInvest Moderate Wealthbuilder. The Best idea hedge is 75% international DR5 stocks minus 25% DR1 stocks. The Tactical allocation is based on the Athena Strategy Market Barometers and Capital Barometer and trades across US large and small stocks, International stocks, and T-bills. Tactical Leveraged uses the same methodology, but takes leverage positions when a Barometer registers a strong reading. R-squared, beta, up_side, and down side_based on S&P 500 total return index. For more details, visit AthenaInvest.com.





Important Information

- The figures shown are past results. Past performance does not guarantee future results. There are risks involved with mutual
 fund and stock investing, including the risk of loss of principal. There is no assurance that the investment process will consistently
 lead to successful results. Investing in securities involves inherent risks, including the risk that you can lose the value of your
 investment.
- The unmanaged Standard & Poor's (S&P) 500 Index is a market value-weighted index of large-cap common stocks considered
 representative of the broad market. Total returns for the unmanaged index include the reinvestment of dividends and capital
 gain distributions but do not reflect the costs of managing a mutual fund.
- The Strategy Based Investing methodology is based on the concept of constructing portfolios along the strategy dimension. This
 entire system also looks at managers this way, assembling peer groups, allocates among them, and analyzes the sources of alpha
 as a result. This methodology is patented.
- Opinions and forecasts regarding industries, companies, countries and/or themes, and portfolio composition and holdings, are all subject to change at any time, based on market and other conditions, and should not be construed as a recommendation of any specific security.
- Expressed in percentage terms, Thomson's calculation of total return is determined each month by taking the change in monthly
 net asset value, reinvesting all income and capital-gains distributions during that month, and dividing by the starting NAV.
 Reinvestments are made using the actual reinvestment, and daily payoffs are reinvested monthly. Thomson does not adjust total
 returns for sales charges (such as front-end, deferred or redemption fees). The total returns do account for management,
 administrative and 12b-1 fees and other costs automatically taken out of fund assets.
- There are risks involved with mutual fund and stock investing, including the risk of loss of principal. There is no assurance that
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 appropriate for all individuals, always consult a qualified professional prior to making any investment decision.
- You should consider the investment objectives, risks, charges, and expenses of mutual funds carefully before investing. The
 prospectus contains this and other information, and may be obtained from AthenaInvest at 877-430-5675. Be sure to read the
 prospectus carefully before investing.
- For more information please visit us on the web at <u>www.Atheninvest.com.</u>
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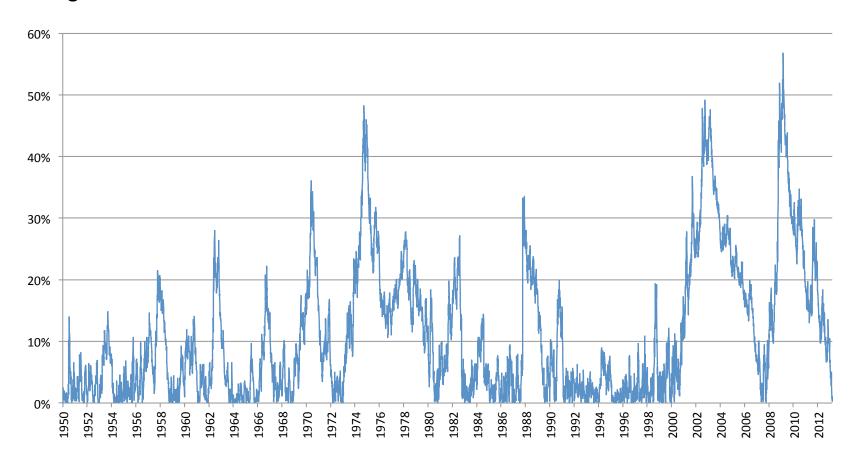


Managing downside risk using trend following strategies

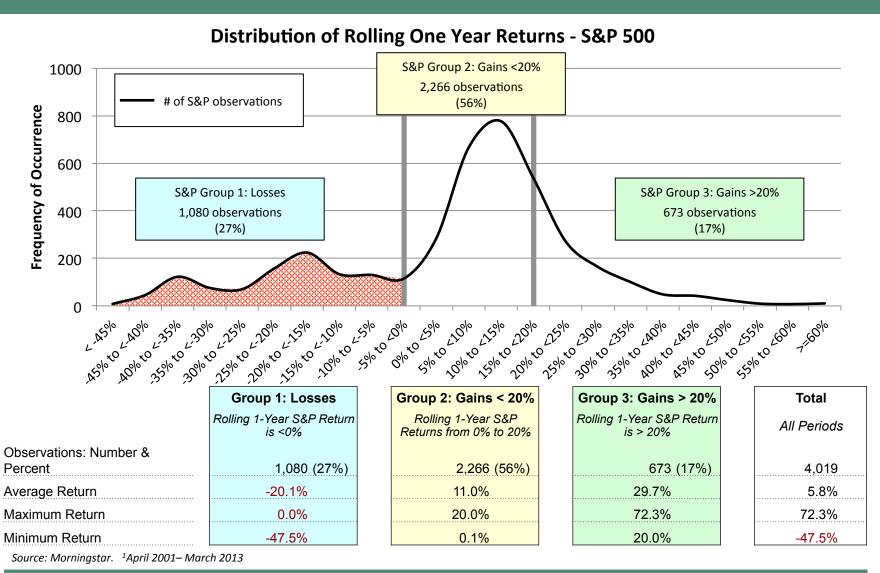
July 2013

Drawdowns occur with amazing regularity

Magnitude of S&P500 drawdowns since 1950*

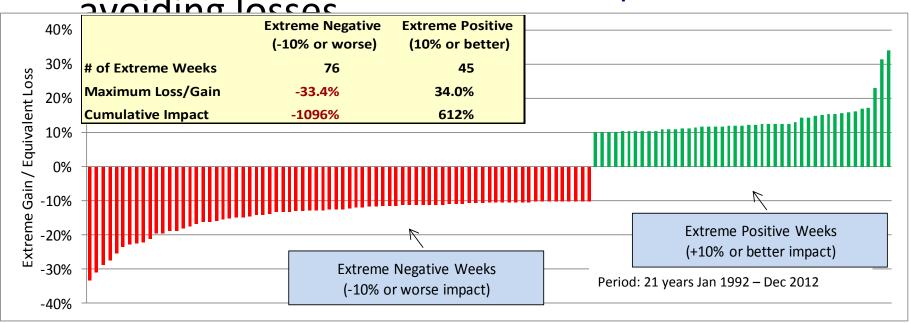


Rolling one year returns for the S&P 500: Key insight to distribution of its historical performance¹



Investment rationale of AlphaSector is based on statistical advantages of avoiding losses

- Traditional "valuation-based" investment model is based on upside capture
- AlphaSector investment model is based on S&P 500 Sector Returns Extreme Gains and Equivalent Losses¹



¹ Source: Morningstar and F-Squared Investments.

AlphaSector Strategy Model description

Model objective

- Makes a "probabilistic" determination of risk of loss for each sector-based ETF
- Does not use valuation metrics, and does not determine relative high or low valuations

Key inputs to the Model

- Historical price returns for each ETF
 - Used to generate rolling moving averages for each sector-based ETF
- Volatility
 - Utilizes a proprietary measure of volatility which includes intra-day volatility
 - Volatility is a key risk factor, but NOT a sell trigger
- Changing levels of volatility
 - Increasing levels of volatility results in the window size for the rolling moving averages to compress, increasing sensitivity to near market results
 - Decreasing volatility levels expands the window size, increasing stability

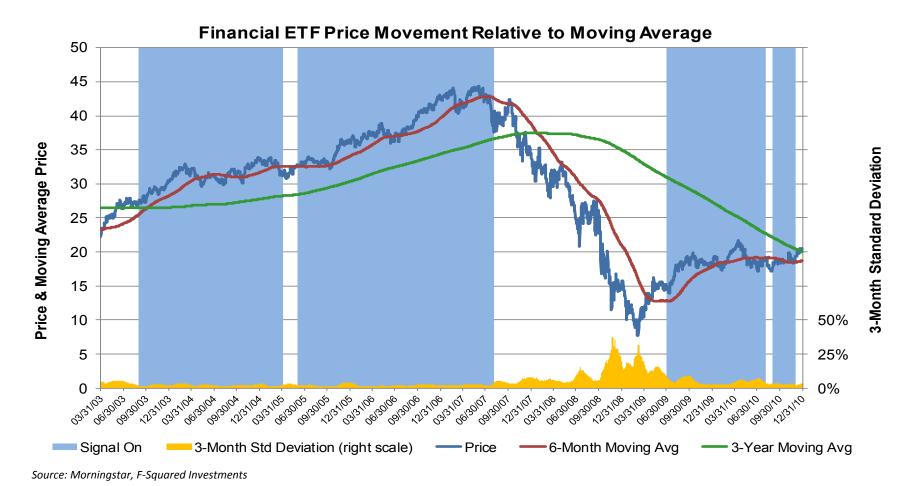
Output from the Model

Determination of forecasted performance relative to cash returns (binary decision)



AlphaSector Strategy: Financial ETF showing price returns, rolling moving averages, and volatility

Shown below is a <u>conceptual</u> example of how different moving average windows and volatility can provide insight into AlphaSector decisions



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The *Premium AlphaSector Index* is based on an active strategy with an inception date of April 1, 2001. Inception date is defined as the date as of which investor assets began tracking the strategy. The process of converting the active strategy to an index implies that the returns presented, while not backtested, reflect theoretical performance an investor would have obtained had it invested in the manner shown and does not represent returns that an investor actually attained, as investors cannot invest directly in an index.

The *Dynamic AlphaSector Index* has a live inception date of February, 2012. Inception date is defined as the date where investor assets were tracking the strategy. Performance information presented prior to the inception date is backtested, simulated performance where the investment decision signals are based on those of the AlphaSector Premium Index, but the application of leverage and short exposure is generated through the use of a backtested, rules-based, quantitative overlay. The Dynamic AlphaSector Index does not reflect the actual trading of any client account. No representation is being made that any client will or is likely to achieve results similar to those presented herein.



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The results shown do not reflect the deduction of any advisory fees or expenses, nor trading costs, both of which will decrease the return experienced by a client. The performance is adjusted to reflect the reinvestment of dividends. The fees and anticipated expenses will be specified in each client agreement. F-Squared's fees will be made available upon request and are disclosed in its publicly-available Form ADV Part 2A.

The following Indexes were constructed to reflect the intended portfolio composition for client accounts that will trade utilizing the Index as its Model Portfolio:

The *Premium AlphaSector Index*. It is an index of U.S. equity sector-based ETFs and an ETF that reflects short-term Treasury securities. It is based on an active strategy with an inception date of April 1, 2001.

Russell 3000 Index – measures the performance of the largest 3000 U.S. companies representing approximately 98% of the investable U.S. equity market.

Russell 2000 Index – measures the performance of the small-cap segment of the U.S. equity universe.

Russell 1000 Value Index – measures the performance of the large-cap value segment of the U.S. equity universe.

Russell 1000 Growth Index – measures the performance of the large-cap growth segment of the U.S. equity universe.

MSCI EAFE Index – an equity index which captures large and mid cap representation across Developed Markets countries* around the world, excluding the US and Canada.

MSCI Emerging Markets Index – An equity benchmark for emerging market stock performance. It is a capitalization-weighted Index that aims to capture 85% of the (publicly available) total market capitalization.

Spot Gold – The current price at which gold can be bought or sold at a specified time and place. A security's spot price is regarded as the explicit value of the security at any given time in the marketplace.



IMPORTANT INFORMATION:

Dow-Jones UBS Commodity Index – offers exposure to 20 commodities, representing the following commodity sectors: energy, precious metals, industrial metals, livestock and agriculture.

The *Dynamic AlphaSector Index* was constructed to reflect the intended portfolio composition for client accounts that will trade utilizing the Index as its Model Portfolio.

The S&P 500 Index is a broad-based unmanaged index of 500 stocks, which is widely recognized as a representative of the equity market in general.

None of the indices referred to herein reflect the deduction of the fees and expenses to be borne by a client, whose managed account may trade and invest in different financial instruments than those in a particular index. Concentration, volatility and other risk characteristics of a client's account also may differ from the indices shown herein. Index data is provided only for reference purposes and is not intended to suggest that any client will achieve performance similar to, or better than, an index.

F-Squared Investment Management, LLC or one of its subsidiaries is the source and the owner of all AlphaSector Indexes, and their performance information.

The peer groups are comprised of all open end mutual funds tracked by Morningstar that, according to Morningstar, meet the listed investment category and was selected as a relevant comparison due to the similarity in investment objective of the profiled F-Squared index.

Past performance is no guarantee of future results.

Sources: Morningstar, F-Squared Investments. All rights reserved.

A definition of all standard terms used in this presentation can be found at www.morningstar.com.

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For more information including risks of investing in our strategies, visit our website at www.f-squaredinvestments.com



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Tail Risk Management

Protective Puts

Very Expensive-Negative Carry Not Dynamic

Mathematically Defined

Vix Calls

Expensive-Negative Carry

Dynamic

High Beta Response

Not Mathematically Defined

Vix Futures

Obligation-undefined risk

Dynamic

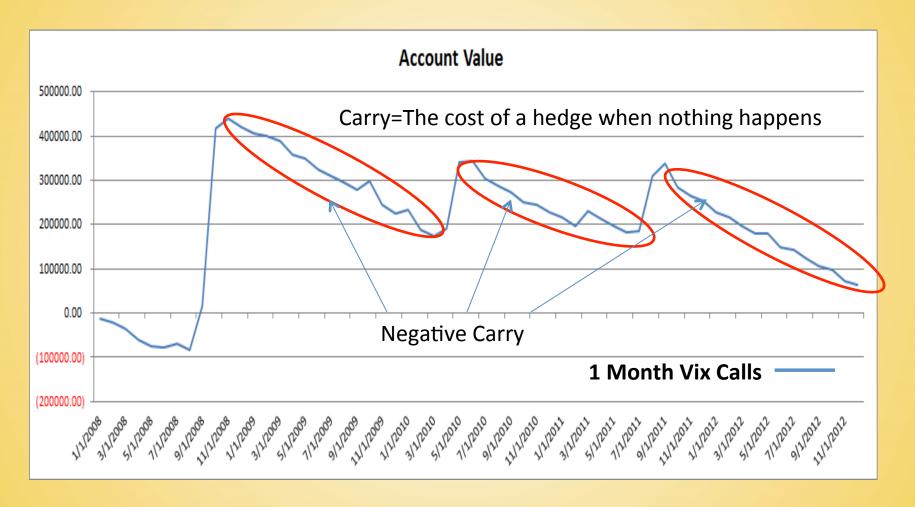
High Beta Response

Not Mathematically Defined





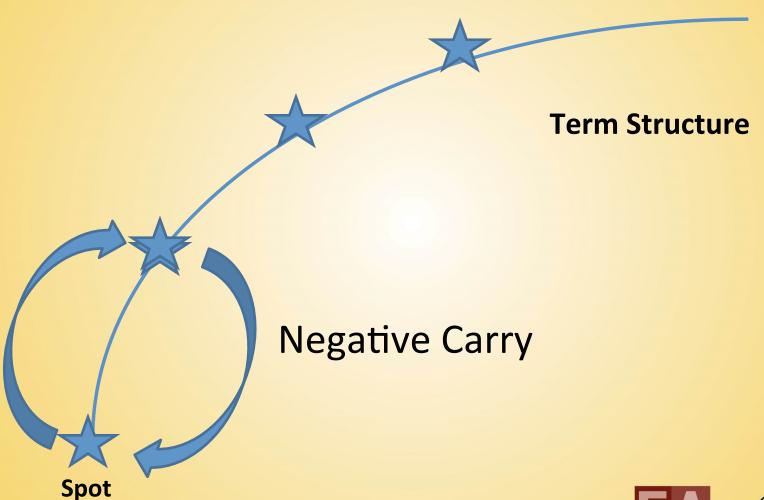
Great Tail Protection but Expensive







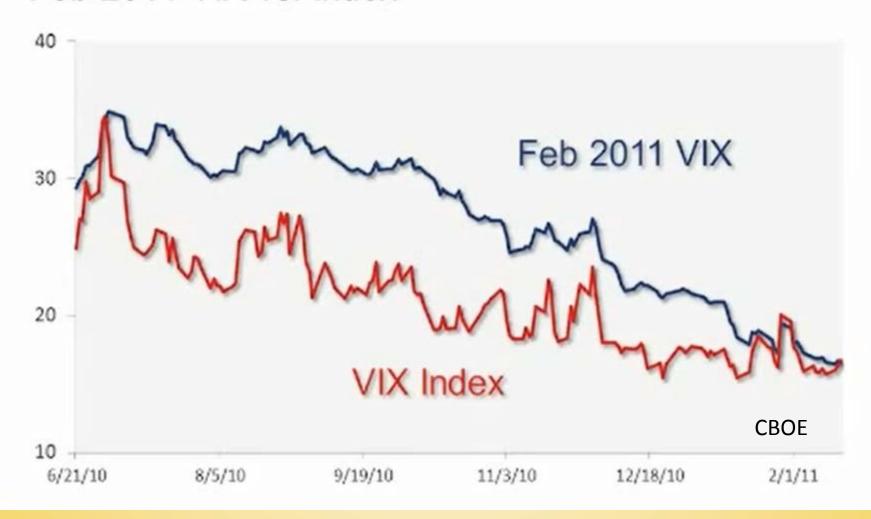
Negative Roll in Contango







Feb 2011 VIX vs. Index







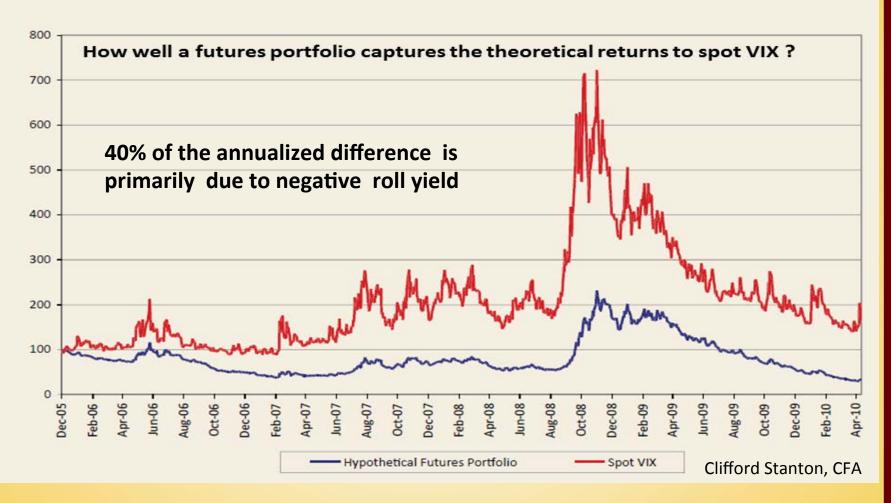
Nov 2011 VIX vs. VIX Index







VXX vs Spot Vix

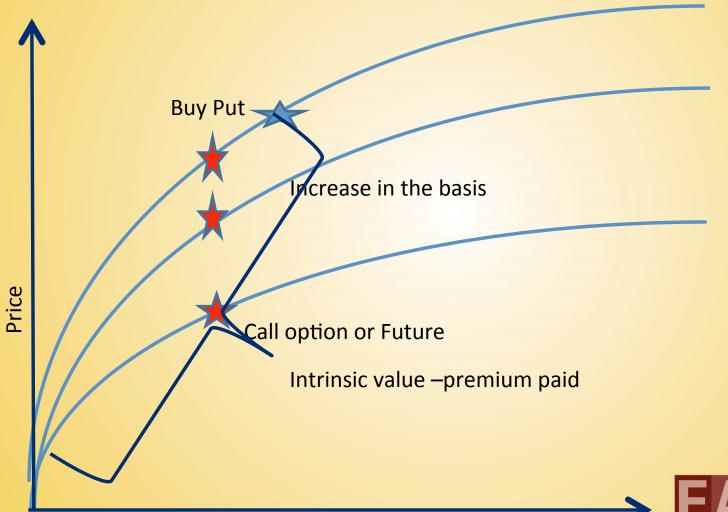






Steepening of the term structure presents an opportunity

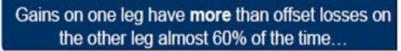
Term Structure: Difference in price between the spot and the future

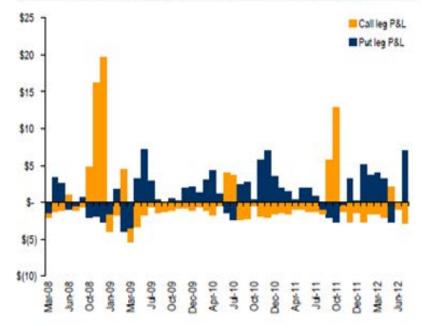




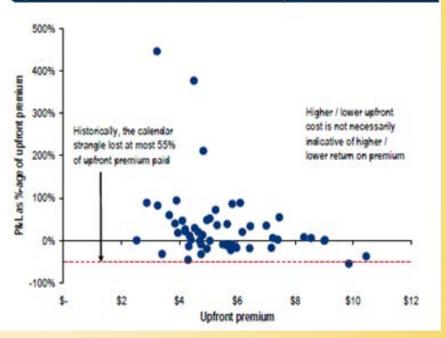


Turn a negative carry hedge to a neutral to positive carry





...and when they didn't, a fraction (<55%) of the premium was lost - this was independent of the cost

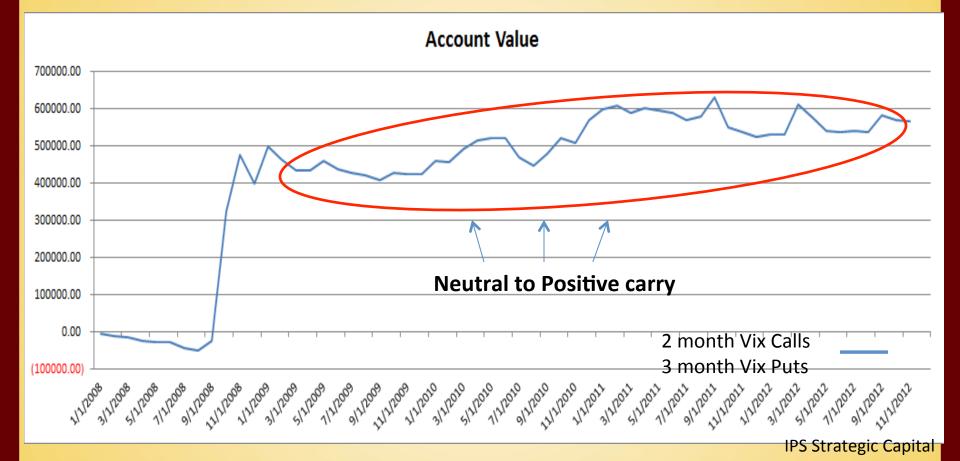


BOA Derivatives Research





Calendar Strangles turns the Vix into an asset class







60% Stock/ 37 Bond/ 3% Vix Strangle

