

The Case for a Risk-First Approach to Stock Selection

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Time for a Change in Approach?

- Active management is losing its appeal to investors
 - Past performance hasn't justified higher fees
- Traditional stock selection research still focuses on earnings
 - Earnings expectation game is entrenched and played by all parties companies, analysts, portfolio managers
- Quantitative factor models, once an alternative approach, have also become commonplace
 - Stock mispricing 'anomalies' are well known
- Investors and their agents are more short-term and risk averse
- \succ Key Takeaway: How might an active equity manager evolve in response to these trends, and maybe even take advantage of them? 2



Purpose of this Presentation

- Revelation Investment Research believes that active equity managers must evolve to thrive
- In this presentation, we provide <u>9 reasons</u> why adding a risk-first, 'what could go wrong?' research perspective can:
 - Enhance equity performance
 - Enhance client satisfaction
 - Enhance business results

"The essence of portfolio management is the management of risks, not the management of returns. Well-managed portfolios start with this precept." Benjamin Graham



• Consider the textbook Fair Value equation:

$$Price = \sum_{t=1}^{\infty} [CF_t / (1+r)^t]$$

- Most researchers focus on the numerator: estimating future cash flow or earnings levels, growth rates, and 'surprises'
- Few researchers pay much attention to the denominator: estimating a discount rate that reflects the uncertainty of future cash flows
- Yet changes in risk perception move stock prices just as directly as changes in growth expectations
- Key Takeaway: Could a risk-first approach to stock selection be beneficial?



- 1. Most stocks underperform "Creative destruction" at work
 - According to a JP Morgan study ("Eye on the Market", Sept 2014) of Russell 3000 members 1980 – 2014
 - 64% of individual stocks underperformed the index
 - 40% of all stocks had negative absolute returns
 - 40% of all stocks experienced "catastrophic losses" (defined as a 70% drop from peak price with no recovery above 60% blow peak price)
 - According to recent studies of S&P 500 Index members
 - From 2000-2014, an average of 180 stocks each year had negative absolute returns (source: S&P Dow Jones Indices)
 - Since 1980, 320 S&P 500 members were removed from the index for business distress reasons (source: JP Morgan)

Key Takeaway: Avoiding big losers can improve an active manager's performance



2. Return volatility hurts wealth compounding

- 'Volatility drag' can be estimated using: $G = A (S^2/200)$
 - Where G = Annual Geometric (compounded) Return, A= Annual Arithmetic Return, S = Standard Deviation of Annual Return

Impact of Volatility on Return Compounding					
Investment Strategy	Avg Return	Stdev of Returns	Geometric Return	20 Year Growth of \$1000	
1 (high volatility)	10%	22%	7.58%	\$4310	
2	10%	18%	8.38%	\$5000	
3	10%	14%	9.02%	\$5630	
4 (low volatility)	10%	10%	9.50%	\$6140	

- For strategies with the same *average* return, lower volatility produces higher *compounded* return
- Key Takeaway: Reducing return variability alone can improve long-term portfolio returns



- 3. Even professional investors are 'loss averse', not just risk averse as finance theory dictates
 - Loss aversion can trigger two related and damaging behavioral tendencies
 - Anchoring tendency to add cost basis (something unknown to the market and irrelevant to a stock's prospects) as an input to hold vs sell decisions
 - Disposition effect tendency to sell winners too soon (so they don't become losers) and hold losers too long (in hope they recover and become winners)

Key Takeaway: Investing in lower risk stocks can reduce losses on individual positions and at the portfolio level



- Loss aversion can lead employers and clients to make illtimed business decisions that are damaging to you and/or your firm
 - Riskier strategies (by chance alone) are more likely to produce larger short-term losses or longer runs of underperformance
 - Riskier strategies tend to perform worst in down markets, when investor/decision-maker loss aversion is highest

Key Takeaway: Reducing investment strategy risk, especially in down markets, can reduce business risk and career risk



- 5. Research focus on stocks' growth potential can lead to excessive optimism and overconfidence, which can trigger more damaging behavioral tendencies:
 - Lottery effect extreme payoffs tend to influence decisions more than their low probability of occurrence
 - Representativeness bias tendency to see unwarranted familiarities (this stock is the next _____)
 - *Confirmation bias* tendency to accept information that supports the original decision to buy and to discount conflicting information
 - *Endowment effect* tendency for investors to place a higher value on what they own than non-owners do
- Key Takeaway: Greater focus on 'what could go wrong?' can add new perspective and help prevent overvaluing upside potential



- 6. Forecasting earnings levels and growth rates is difficult and largely ineffective
 - Analyst EPS forecasts are highly inaccurate and biased
 - 45% of reported quarterly EPS deviate by more than 5% from consensus forecasts from 2001-2015
 - Consensus 5Y EPS Growth Rate forecasts typically average 12-15% annually, while stocks' actual EPS growth has averaged 6-8% annually
 - Analyst EPS growth forecasts have little stock selection usefulness
 - The 20% of stocks with the highest forecasted 1Yr EPS Growth have lagged by 2.0% annually from 2001 2015
 - The 20% of stocks with the highest forecasted 5Yr EPS Growth have lagged by 2.8% annually from 2001 – 2015
- Key Takeaway: Focusing on the numerator of the Fair Value equation is a challenging approach to finding mispriced stocks



 Investing based on earnings-related 'factors' – another approach linked to the Fair Value equation numerator – produces mixed results

Earnings Screen Historical Performance				
(Top 2300 Mktcap Universe, 2001-2015)				
	Avg 12M	Avg 12M		
Best 20% of Stocks Based on	Return vs	Volatility vs		
Screening Variable Below	Universe	Universe		
FY1 EPS / Price	2.1%	0.1%		
PE / Estd 5Y EPS Growth	1.1%	1.5%		
Earnings / Sales	0.5%	-1.6%		
Earnings Quality (ie, accruals)	-2.0%	4.4%		
Last 3M EPS Estimate Revisions	1.4%	0.5%		
Last Qtr EPS Surprise	-0.1%	2.1%		
Last 4Q EPS Growth	-0.7%	3.2%		
Average	0.3%	1.5%		

Key Takeaway: earnings-related metrics are insufficient for consistently finding mispriced stocks



- 8. By contrast, even some simplistic risk-related factors have been highly effective stock selection tools
 - For example, low volatility stocks have consistently *outperformed*, while high volatility stocks have *underperformed*



Key Takeaway: Focusing on the denominator of the Fair Value equation may be a more productive path to excess returns 12



9. If many equity managers have a similar research focus, e.g.,

- Looking for reasons to buy a stock, not for reasons to avoid a stock
- Forecasting EPS growth, not EPS uncertainty
- Actively participate in the quarterly EPS reporting game
- Managing portfolio risk, not stock-specific risk
- Constructing portfolios to match the benchmark risk level

• Are opportunities being created for users of a different approach?

- Could earnings-related stock selection metrics be increasingly overused?
- Could stocks held in benchmark-tracking portfolios be a 'crowded trade'?
- Could stocks' absolute risk level be mispriced?
- Could a research focus on downside risk prediction reveal new alpha factors?

➢Key Takeaway: A risk-first research focus may enhance returns and increase your strategy's differentiation in the marketplace



Risk-First Stock Selection: Next Step

- If you agree that a greater emphasis on stock specific risk in your equity research approach may make sense, how do you proceed?
 - Option 1: do it yourself
 - It's definitely possible...
 - But the effort would consume time and dollars that might best be allocated elsewhere in your business
 - Option 2: work with Revelation Investment Research!
 - We specialize in 'downside risk avoidance' research
 - Our Downside Risk Alert tool is highly effective and easy to use
 - We will work with you to integrate Downside Risk Alert into your unique investment process with minimal disruption and cost
- For further information on how Revelation Investment Research can help you, please contact us at <u>info@RevelationIR.com</u> or call us at 219-213-2531