

Risk, uncertainty and the credit crisis – could we have known better?

Presentation to PortfolioConstruction Conference 2008



"Don't worry, it's only mist"

Beijing Official

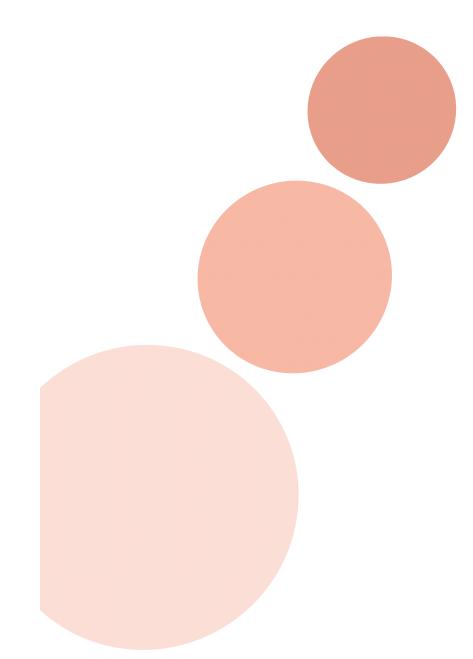




Constancy

- Education and experience
- Evidence and compulsion
- The human paradox
- The risk return trade off



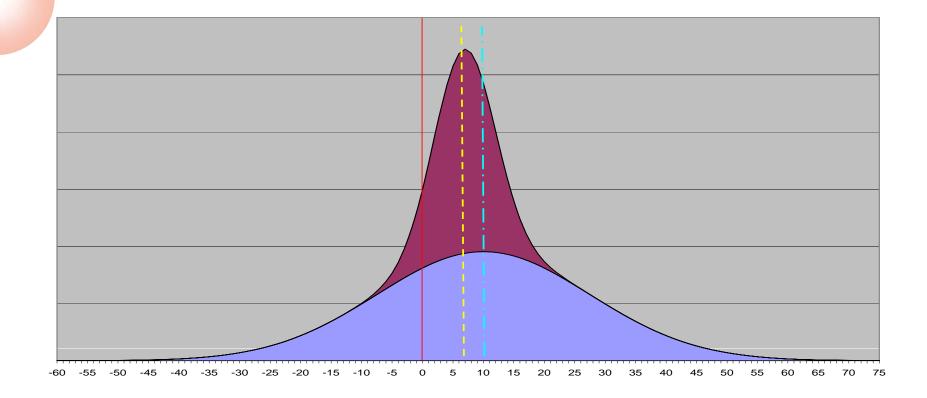




Education and Experience



Normal Distribution





Mandelbrot's Madness

- "Clouds are not spheres, mountains are not cones, coastlines are not circles, and bark is not smooth, nor does lightning travel in a straight line"
- A few very big, many very small, not very many medium sized movements
- But there are patterns if price changes start to cluster the have a tendency to do so for a while and then unexpectedly they stop.
- Bubbles are inevitable





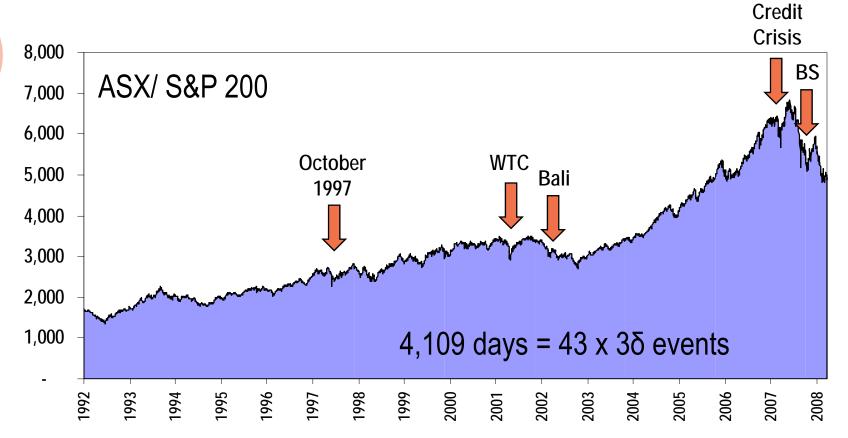
Observations

- Dow Jones Industrial Average from 1916 to 2003:
 - >3.4% movement in a day expected 58 times, but witnessed 1,001 times
 - >7% expected once every 300,000 years, but we've seen 48
- Foreign exchange markets USD/ Yen
 - 7.9% daily change, 10.7 times the standard deviation
 - Between 1986 and 2003 dollar fell substantially, but nearly half that decline occurred on 10 (out of 4,695) days
- Market bust of 1987
- Collapse of the internet bubble late 90's



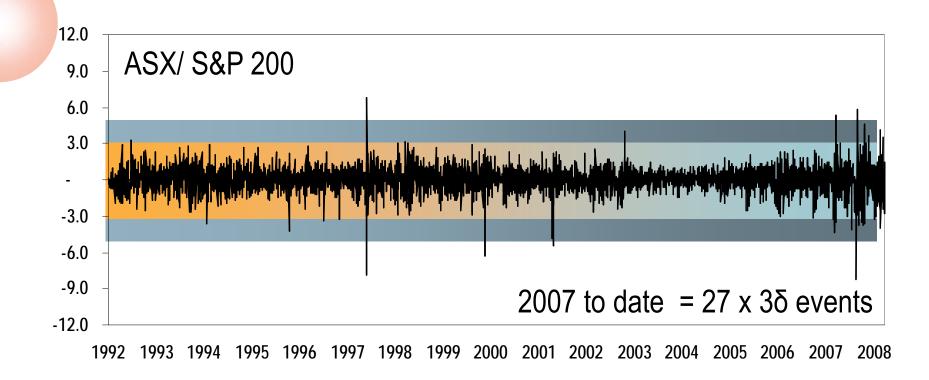


Australian Observations





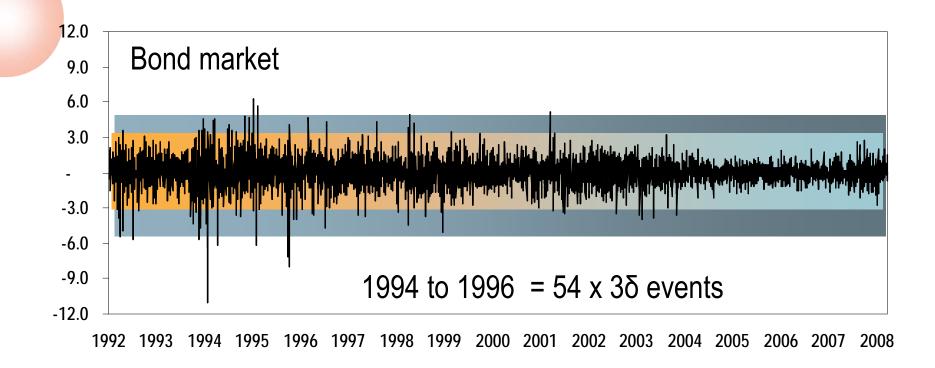
Australian Observations



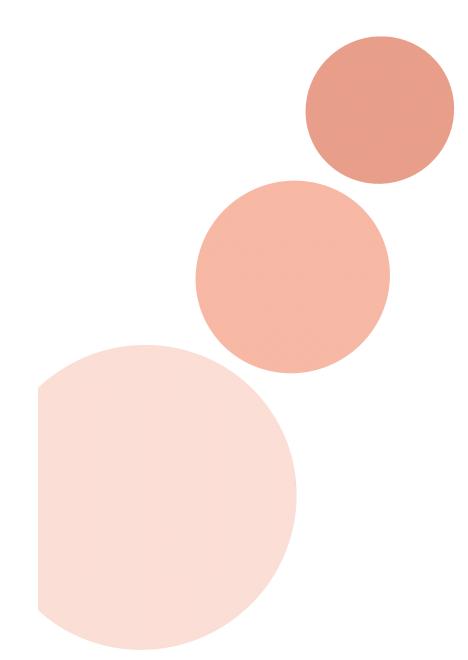




Australian Observations





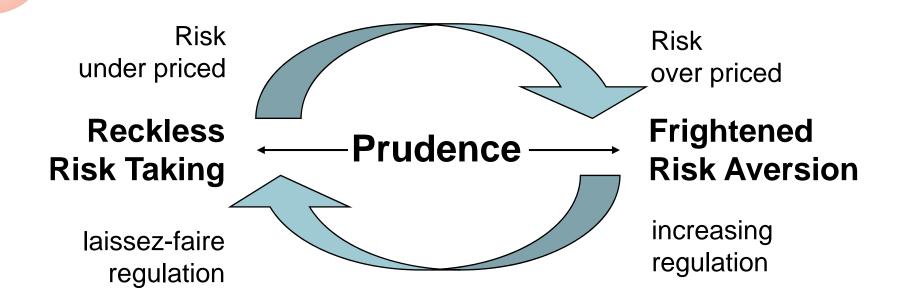




Evidence and Compulsion



A Prudent (but elusive) Equilibrium





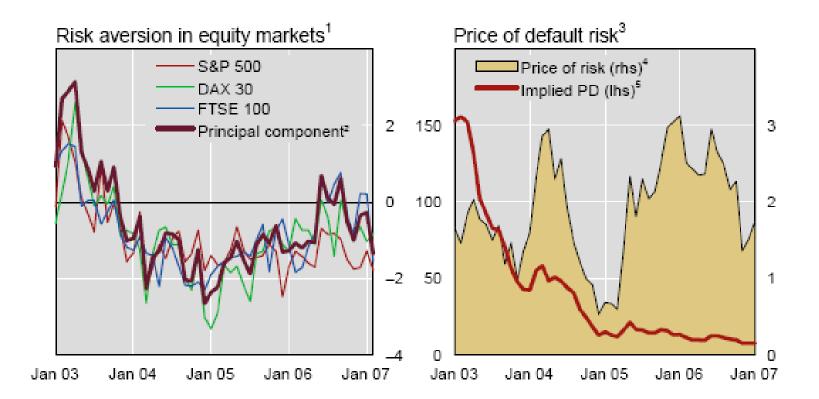
Financial Instability is Inherent

Inv

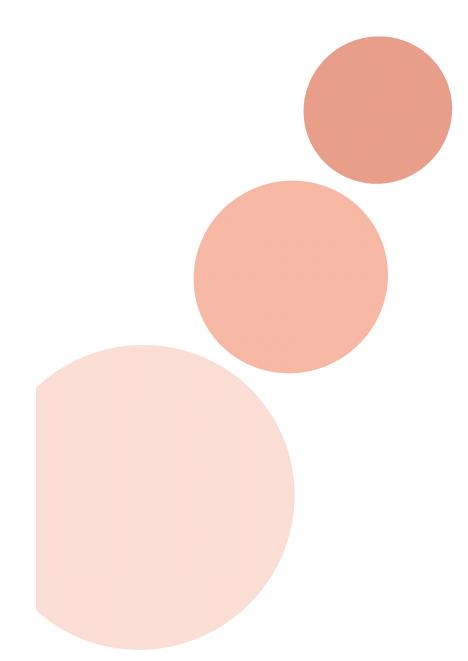
	Market Status	Instability <		Stability
	Investor Behaviour	Frenzy	Optimisation	Conservative
	Marginal debt unit	'Ponzi'	'Speculation'	'Hedge'
	Balance sheet effects	Income< interest coverage, borrow (or sell assets) to pay interest	Asset income = interest payments	Asset income = interest payments and loan principal amortization
	Risk Spectrum	Risk taking <		Risk averse
ve	stments			



Risk Aversion, Sentiment, Madness









The Human Paradox



Misbehaviour of the Human Psyche

- Examples of iteration and their corrosive influence
- Miss market trends
- Intuit market trends where none exist
- Price departures from fundamentals



Mainstream Tested

Products	Uptake		Abandon	
Capital stable	bear markets		bull markets	
-		disinflation		inflation
Balanced Funds		rangebound markets		trending markets
		low conviction		high conviction
Passive Management	Mid 2000's	bull markets	Late	bear markets
.			2000's	
Multi manager		inefficient markets		efficient markets
C C		low transparancy		high transparency
Hedge funds	Early	high volatility, low return, net inflow		during or after crisis
	2000's	environments		
Infrastructure		PPP all the rage		PPP debacle
Portfolio Protection		bear markets		bull markets
IT funds	90's	new wave	00's	crashes to shore
Emerging Markets		low volatility		high volatility
Exotic Credit	2002	low risk aversion	2007	heightened risk aversion
		increasing regulation		increasing scrutiny



The Allure of Growth

- Money is cheap and available
 - Superannuation fund flows
 - Cost of debt
- The corrosive power of success
 - Asymmetry of returns
 - Boom mentality
- Diminishing view of risk
 - Erosion of due diligence





Destruction of Conviction

- The internet will drive revolutionise the market
- The commodity boom will ride on the tail of the Chinese dragon
- Evolution of property management benefits shareholders
- Central banks are more experienced



Normality, Myopia and Amnesia

• \$AUD at parity

• Oil at \$200 a barrel

• Trading range of ASX 4300-5000?



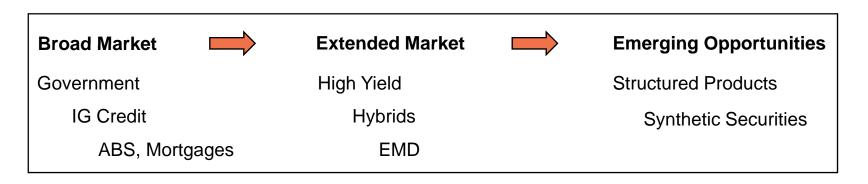


The Risk/ Return Trade-off



Fixed Interest Evolution

Return

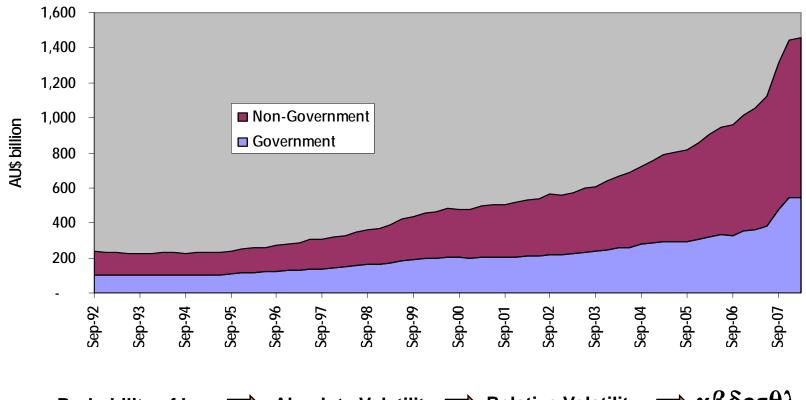


Risk





Risk and Intention



Probability of Loss \Longrightarrow Absolute Volatility \Longrightarrow Relative Volatility $\Longrightarrow lpha \beta \delta \epsilon \tau \theta \lambda$



Fixed Interest

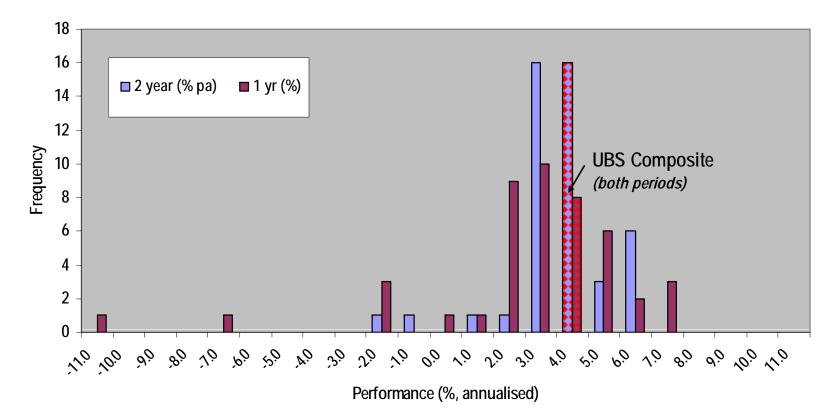
• The Noise

- "Australia Rides Commodity Boom Wave"
- "Shares Set to Rise"
- "Wall Street Back on High"
- The Environment
 - Global financial system awash with liquidity
 - Consumer confidence (and spending) healthy
 - Long term yields at historic lows
- The Decision
 - Extrapolate, speculate, sit on the fence



Fixed Interest

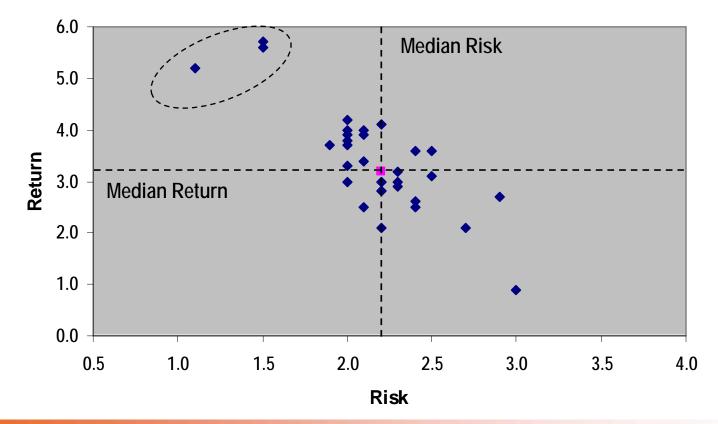
The Outcome





Fixed Interest

• The Outcome – risk dispersion



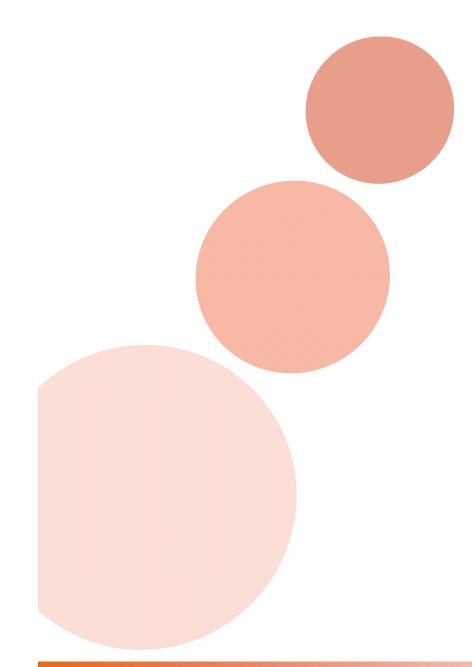


Active Management

• Role

• Objective

• Facility





Conclusion

Let's start thinking about...

This session was:

- 1. awful
- 2. mediocre
- 3. good
- 4. excellent

Gizmos brought to you by







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