

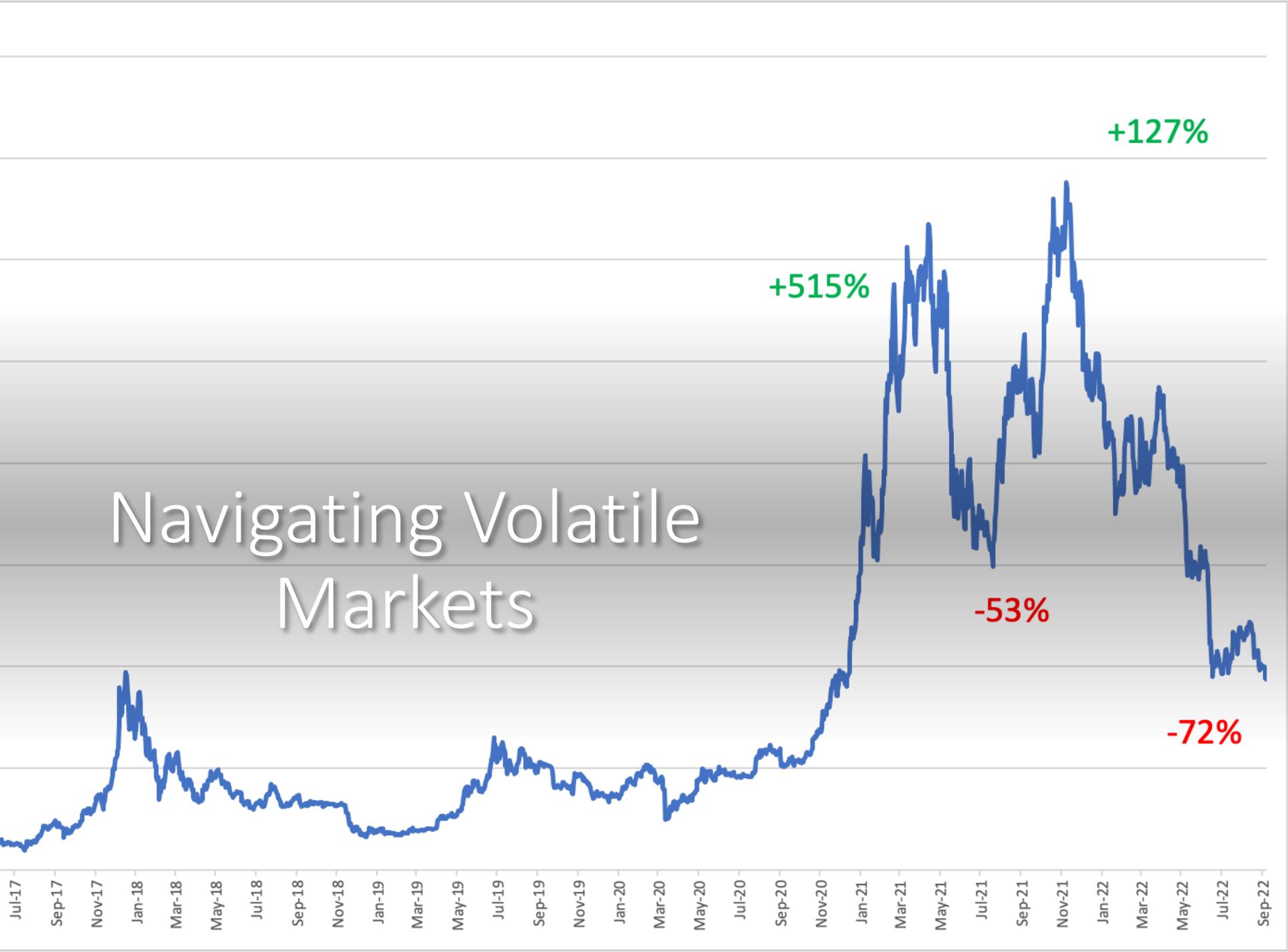
+127%

+515%

-53%

-72%

Navigating Volatile Markets

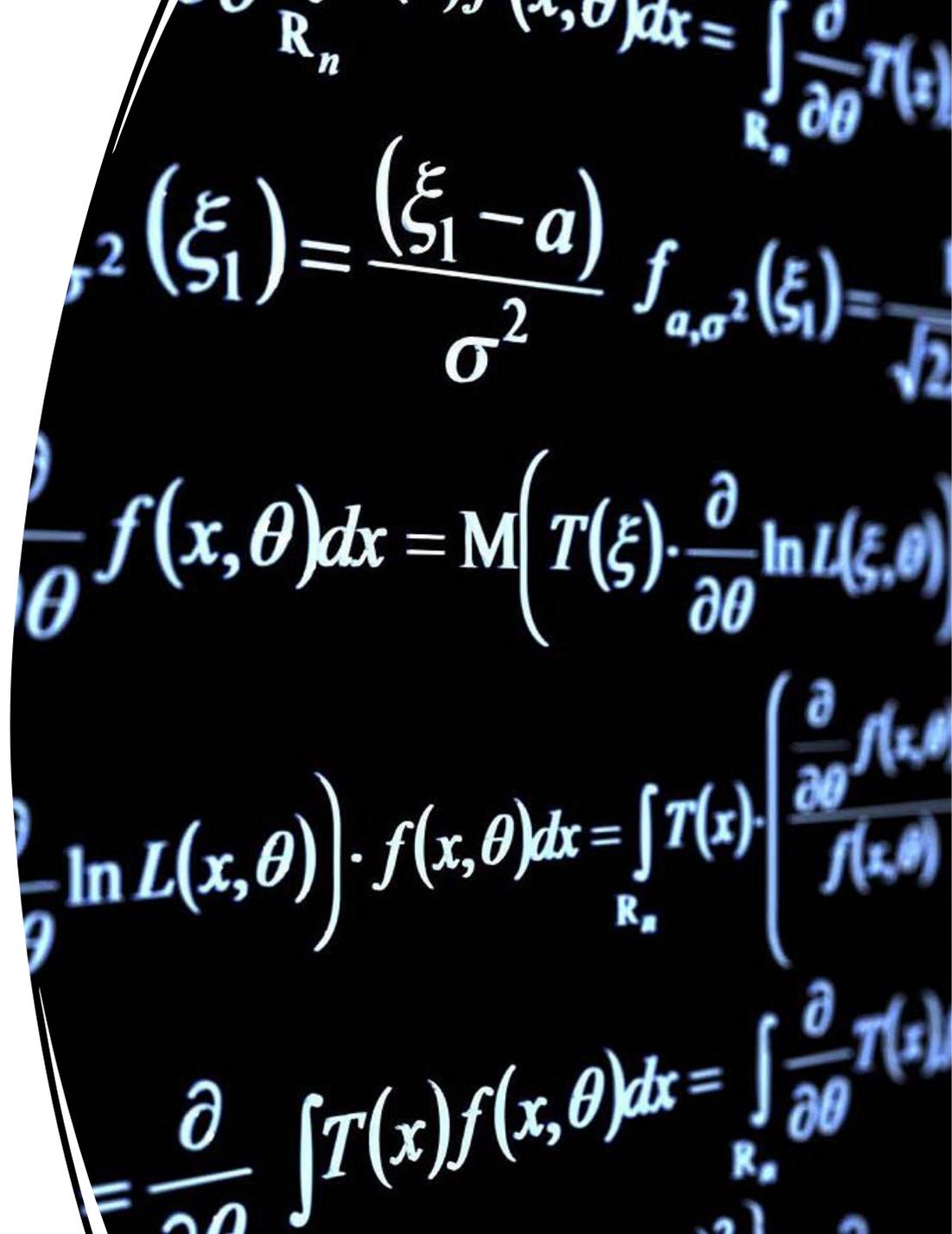


The Case to Revisit Relative Value

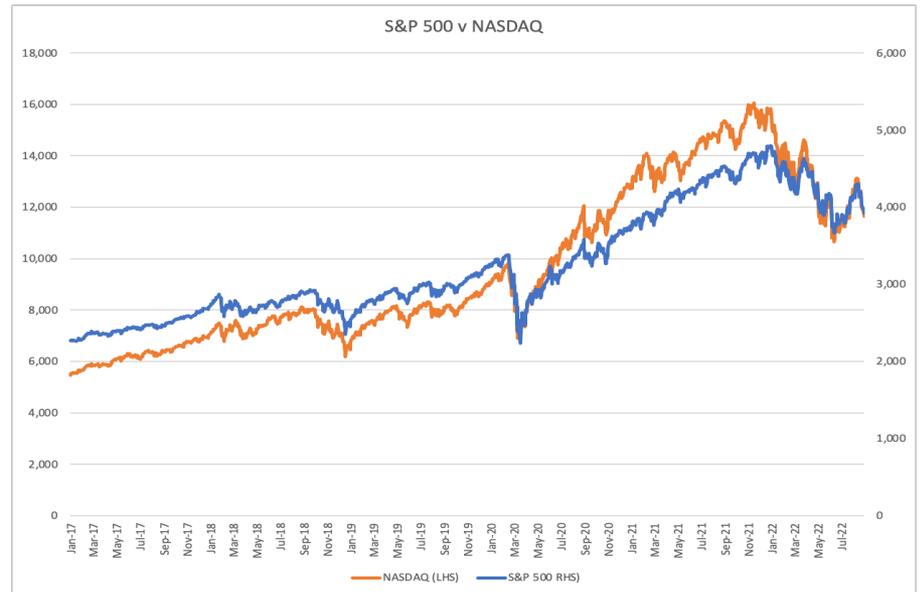
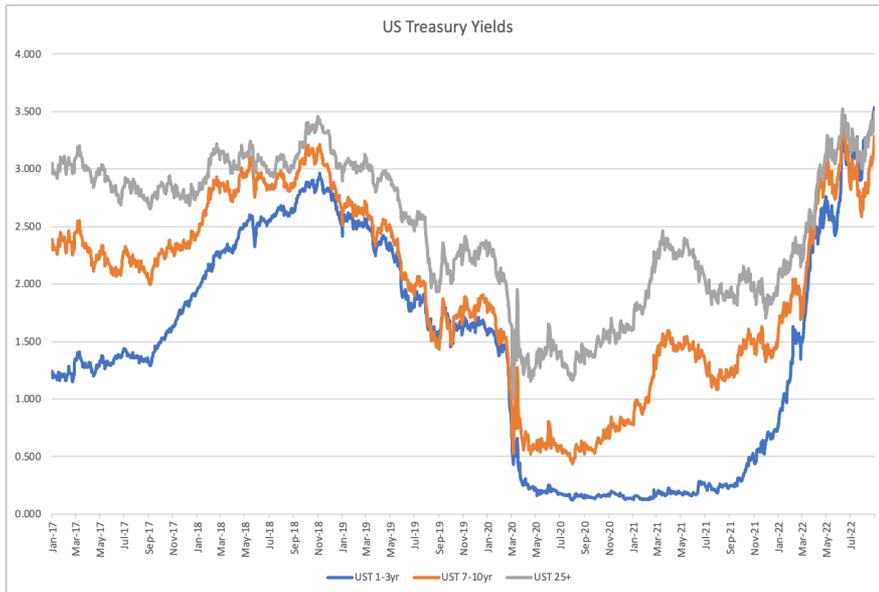
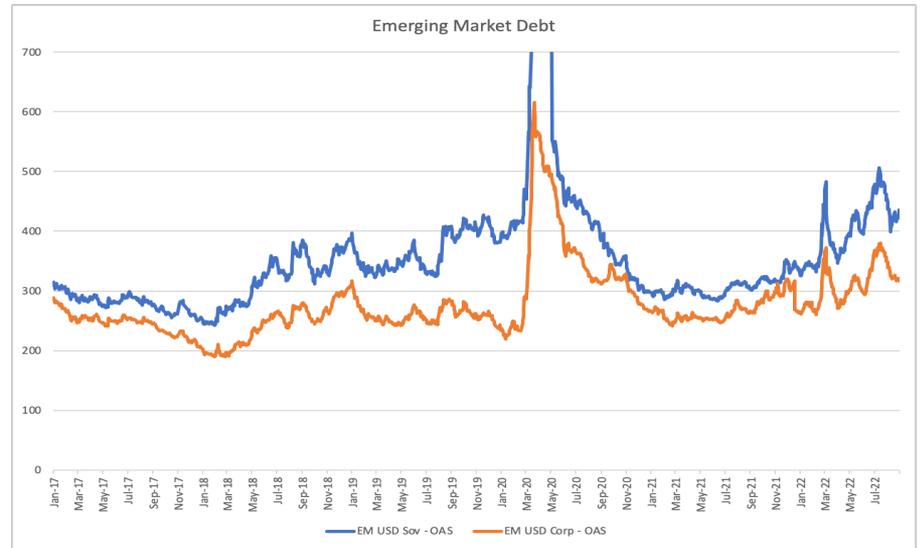
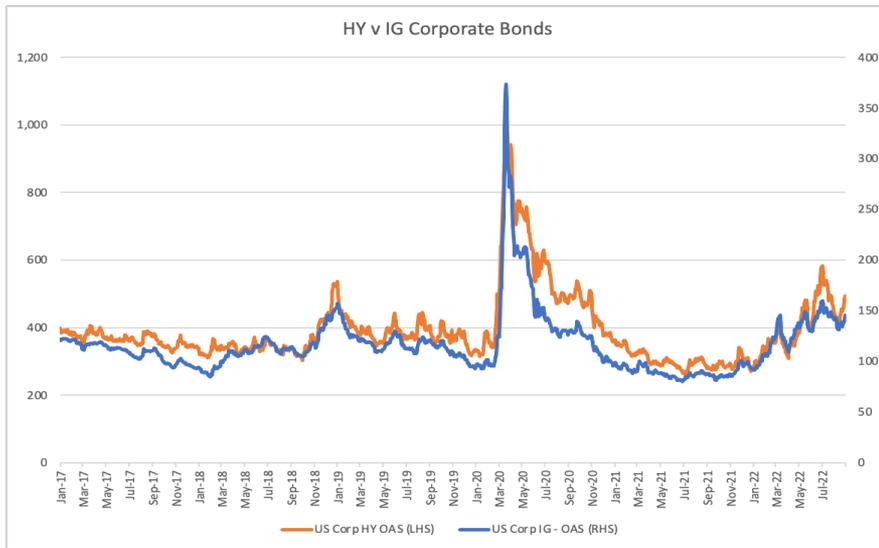
- Insurance investing is complicated due to multi-dimensional constraints and the competitive nature of the products offered
- Given the competitive environment, recent trends in insurance investing include reducing unnecessary liquidity and in some cases, taking on more risk
- Due to recent macroeconomic developments driven by changes in monetary policy and exogenous forces, markets are becoming dislocated and more volatile which widens the opportunity set
- While all aspects of insurance investing are important, having a well designed relative value process within asset classes and across asset classes will be critical to investment performance going forward

Insurance Investing is Complicated

- Capital Efficiency
- Risk Appetite / Stress Testing
- ALM / LDI
- Liquidity
- Relative Value

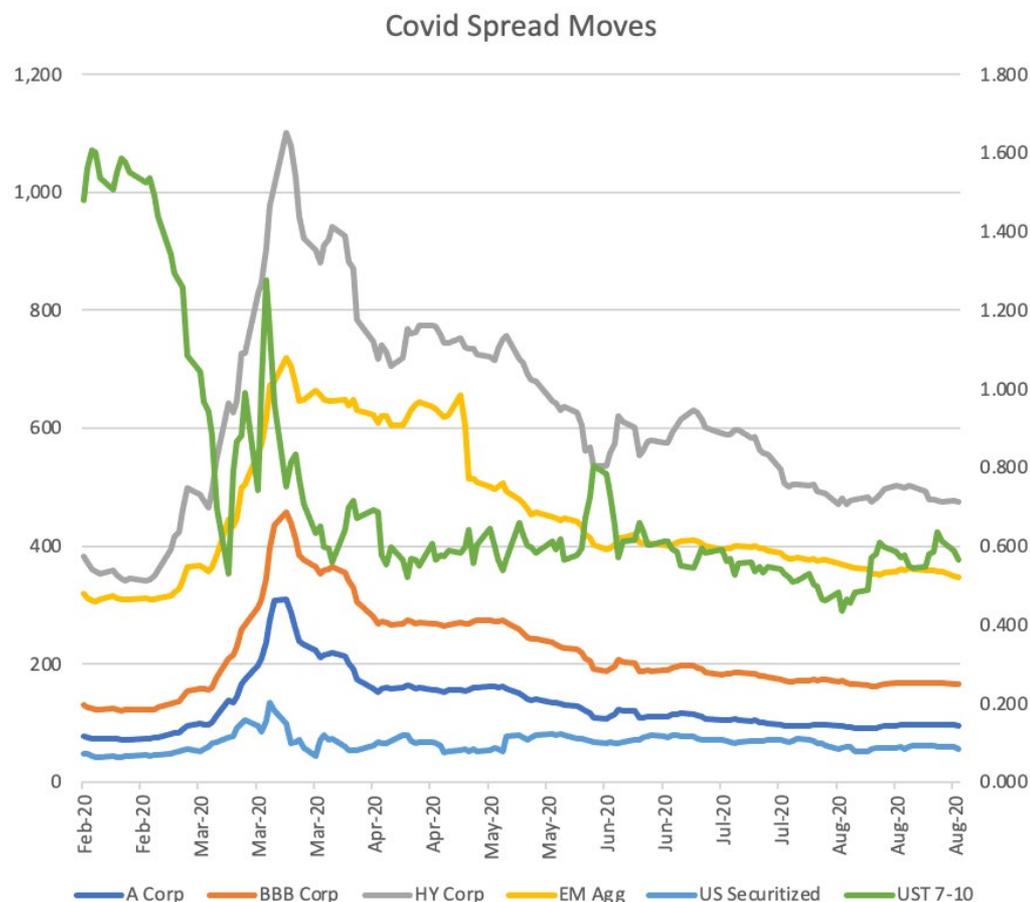


Markets Are Undergoing a Major Shift



In Times of Stress, Markets Move Fast

- When markets undergo major paradigm shifts, they move at different speeds
- COVID was a good example of this
- Private corporate and structured debt lagged the move higher in spreads and stayed higher for almost a year as investor preferences for risk and liquidity adjusted
- Mortgage REITs suffered a significant liquidity event due to leverage and collateral calls
- CMLs lagged all publicly traded markets and offered significant premiums to public debt as investors tried to sort out how COVID would affect subsectors like office and retail



Developing a Relative Value Framework



Quantitative Analysis

Statistical measures of richness and cheapness
Capital based flexible tools



Qualitative Analysis

Fundamental analysis (F-V-T)
Structure / Capital Stack to optimize risk and capital treatment



Comparisons among similar collateral types

REIT v CML v CMBS
Public v Private corporate
Residential v Commercial Real Estate
Debt v Equity

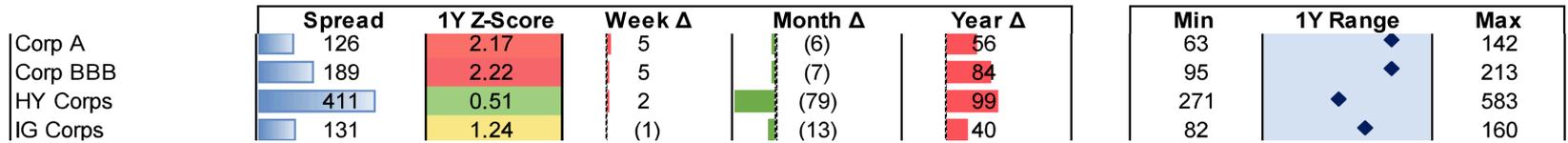


Control the process

Rules based framework
Capture results in database

Quantitative Analysis

- Statistical Metrics



- Capital Based Metrics

Asset Class	Rating	Gross Yield	Net Yield	Option Cost	Funding	Net Spread	Capital Charge 1	Capital Charge 2	ROC 1	ROC 2
1	A	4.44	4.40	-	4.09	0.31	1.49	2.52	20.8%	12.3%
2	BBB	4.80	4.70	-	4.09	0.61	5.01	4.71	12.2%	13.0%
3	BB	5.80	5.30	-	4.09	1.21	20.10	14.01	6.0%	8.6%

Qualitative Analysis

- Incorporate expert views to avoid value traps
 - F-V-T framework
 - Return projections over intermediate timeframes
- Determine best way to source the underlying risk
 - Private versus public
 - CMBS versus CML
 - Various forms of real estate
 - Debt versus equity
- Control the process and track results
 - Rules around return projections
 - Develop databases to capture data

Investing is a Team Sport

- How often you meet to discuss markets and shifts in investing
- Who is included in the process and what are their roles
- Create a culture of debate
- Who is ultimately accountable
- Importance of having diverging views in the room

