



# Navigating the Low Interest Rate Environment



Scott Daniels, CFA, CPA

Managing Director



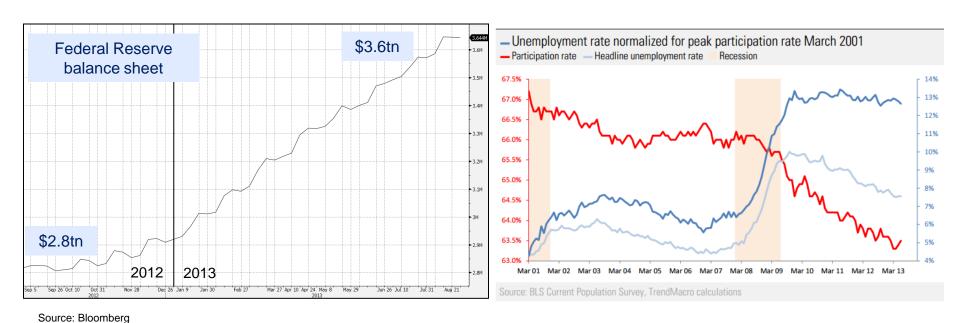
# **Overview**

- Current economic environment
- Interest rates
- Impact on insurers
- Strategy options
- Modelling an asset allocation strategy



## **Economics - U.S.**

- What is sequestration worth?.....1.0-1.5%?
- What is QE worth?.....and what will tapering look like?
- So, what is sustainable rate of economic growth?
- ◆ Fed Balance sheet continues to expand up 25% since end 2012
- Fed 'forward guidance' clarity?....only in its uncertainty
- Unemployment target flawed?

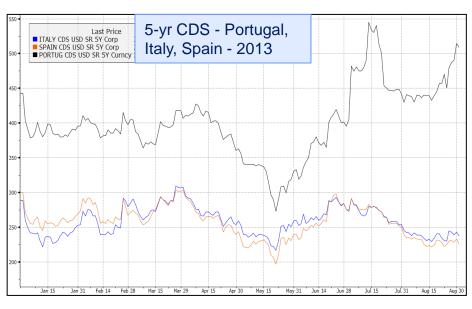


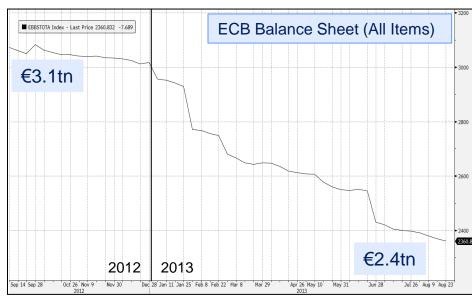




## **Economics – Europe**

- Political risk moving back towards the top of the agenda
- Italy the Berlusconi effect
- Portugal split in fragile coalition
- Spain Corruption scandal is Rajoy next?
- Germany focus on September elections
- ◆ ECB "do whatever it takes" .....continues to act as backstop for markets
- ECB do nothing for now balance sheet declining down 20% YTD





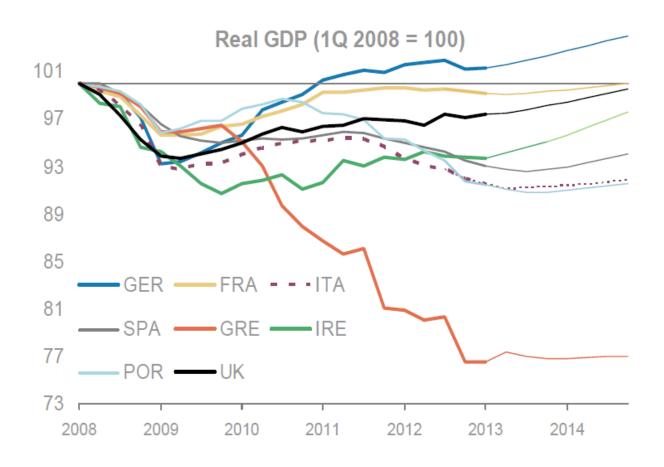
Source: Bloomberg Source: Bloomberg





# **Economics – Europe**

#### Most Countries Not Yet Back at Pre-Crisis Levels



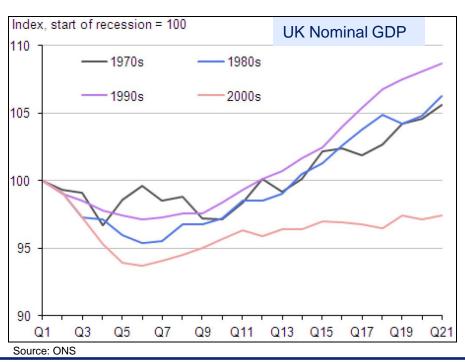
Source: Eurostat, Morgan Stanley Research estimates (2012-14)

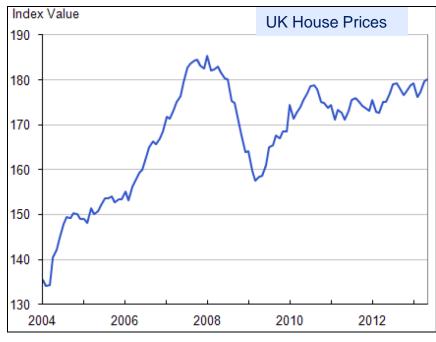




### **Economics – U.K.**

- Nominal GDP now 4% below 2008 peak unlike previous recessions
- House prices up: big gains in London, weaker elsewhere more FLS
- MPC: expected rise "not warranted"; forward guidance has not convinced markets
- Last meeting: Bank Rate, QE, forward guidance unchanged
- ◆ BOE Balance sheet unchanged (approx. £750bn)

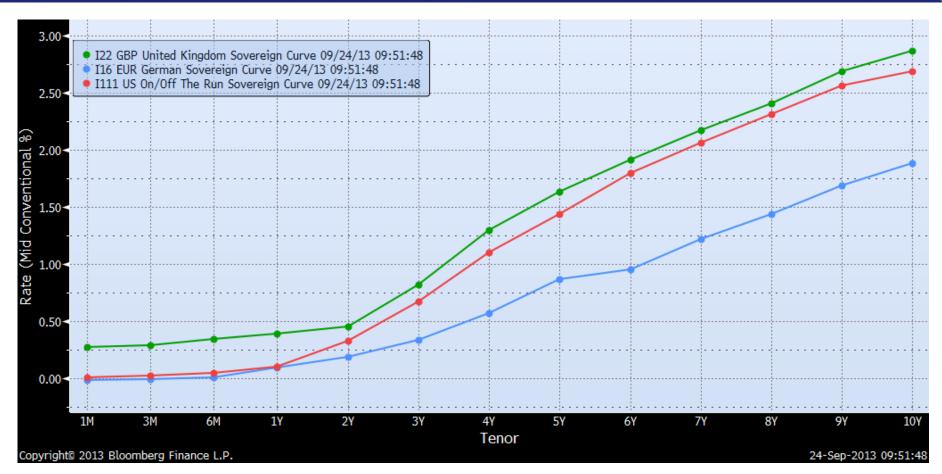








## **Markets – Yield Curves**



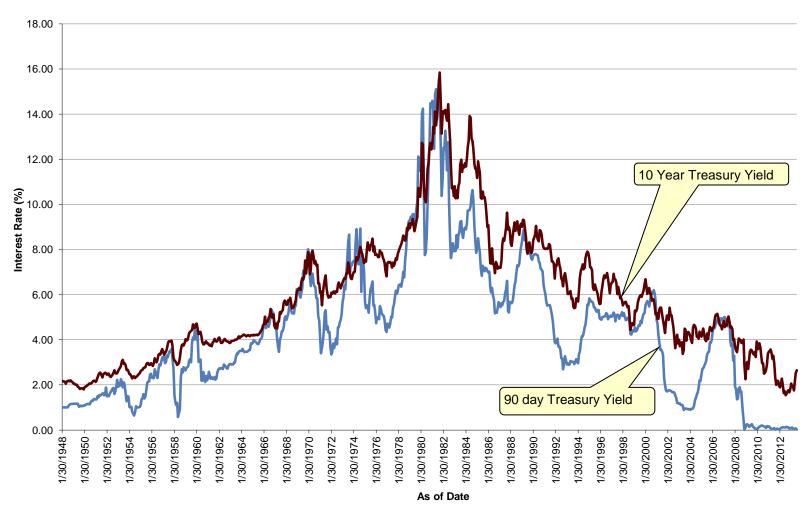
Source: Bloomberg

- Government bond yields <1.7% out to 5 year maturities, <2.9% out to 10 years</li>
- Short yields to remain anchored by monetary policy and flight to quality.....for now
- Yield curves have steepened this year





## **US Interest Rates**



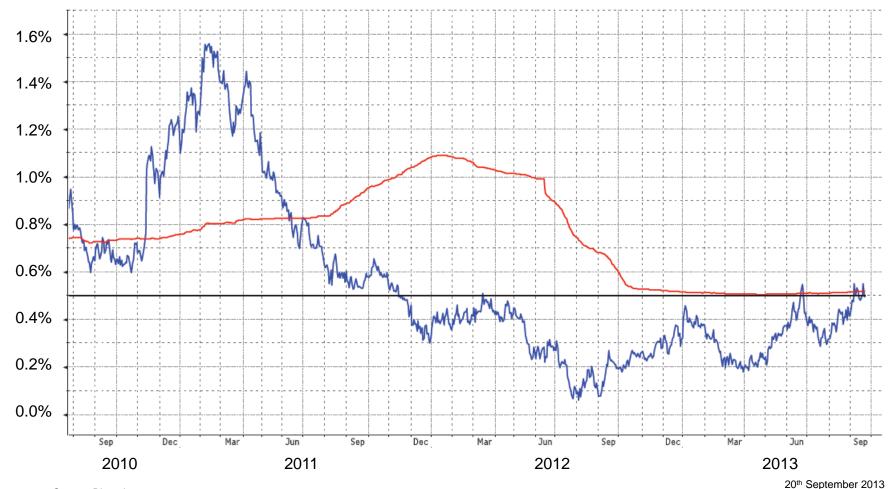
Source: Global Financial Database; Bloomberg



# **W** UK Interest Rates

GUKG2 Index (UK Govt Bonds 2 Year Note Generic Bid Yield)
BP0003M Index (BBA LIBOR GBP 3 Month)
UKBRBASE Index (UK Bank of England Official Bank Rate)

#### UK Gilt 2 Year Yield, Bank of England Bank Rate and 3 Month LIBOR



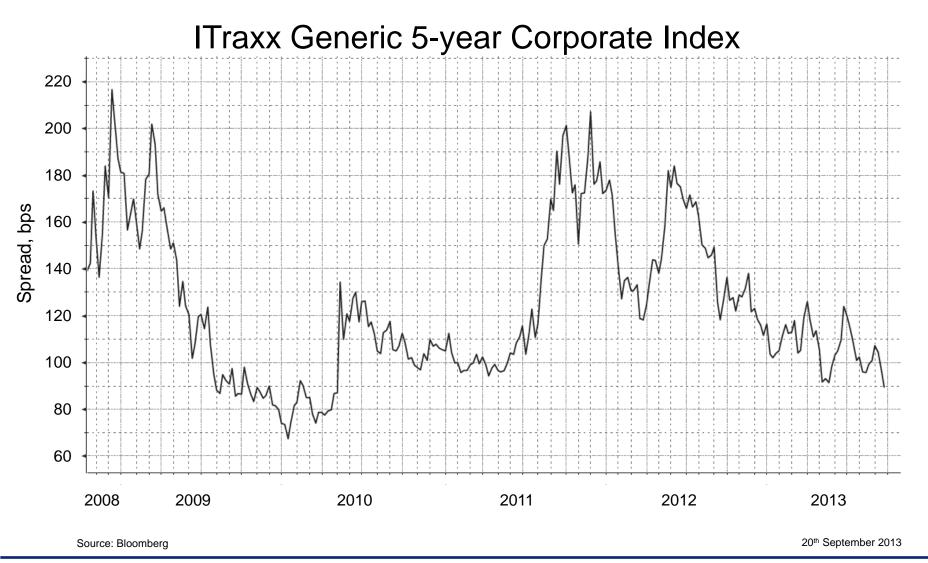






# **European Corporate Credit Spreads**

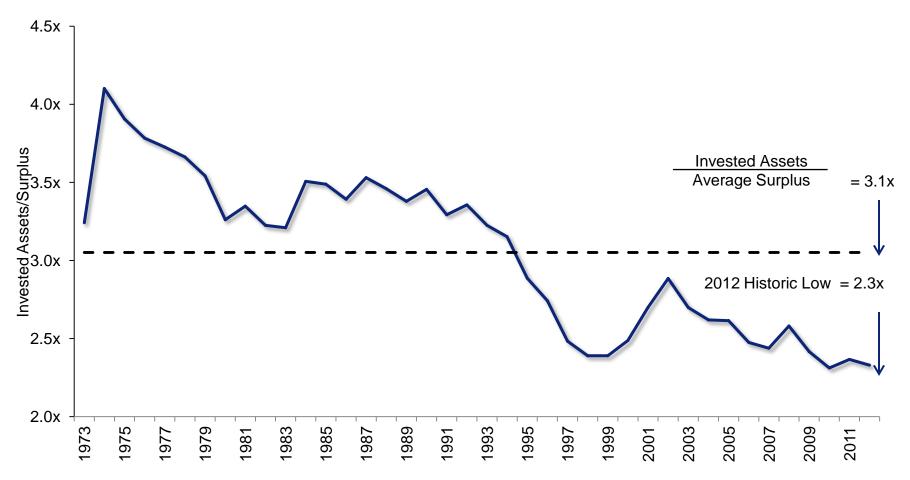
ITRXEBE Curncy (MARKIT ITRX EUROPE 12/18)





# ❖

## **Property-Casualty Industry\* Invested Asset Leverage**



- Investment to capital leverage is at an all-time low
- Capacity for additional risk
- Need higher income to earn a given return

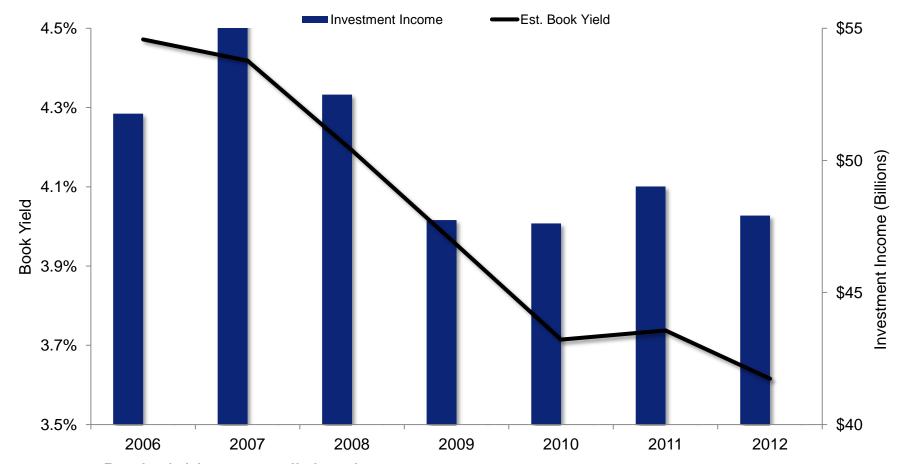
Source: ©A.M. Best Company—used by permission, Conning analysis and forecast

\*Total U.S. Property-Casualty Industry

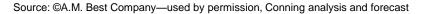


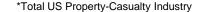


## **Property-Casualty Industry\* Yields and Income**



- Book yields are at all-time lows
- Absolute value of investment income maintained by positive cash flows
- Investment income relative to premiums and capital declined precipitously









# **Evolving US Investment Portfolios**

Asset Allocation	2007	2008	2009	2010	2011	2012
Net Cash	2.1%	2.1%	1.1%	1.8%	1.4%	2.1%
AAA-A Bonds	76.8%	78.3%	77.6%	75.9%	74.6%	71.9%
BBB Bonds	4.9%	7.0%	8.0%	8.2%	9.3%	10.7%
High Yield Bonds	1.7%	1.6%	1.8%	2.2%	2.3%	2.6%
Common Stock	8.1%	5.0%	5.9%	6.4%	6.4%	7.1%
Schedule BA	3.5%	3.4%	3.3%	3.4%	3.8%	3.6%
Other	2.8%	2.4%	2.1%	2.0%	1.9%	1.9%
Bond Sector Allocation	2007	2008	2009	2010	2011	2012
US Govt	12.7%	12.4%	13.8%	13.6%	13.2%	10.6%
Credit	23.2%	24.6%	26.9%	29.6%	31.0%	32.9%
Agency / Muni	40.3%	40.7%	37.4%	35.3%	32.5%	33.7%
Other Govt	1.3%	1.0%	1.5%	1.9%	2.3%	2.3%
Structured Securities	21.6%	20.2%	19.1%	18.2%	19.8%	19.5%
Bond Market Allocation	2007	2008	2009	2010	2011	2012
Publically-traded Bonds	96.4%	96.1%	95.0%	93.7%	92.2%	90.6%
Private Placement Bonds	3.6%	3.9%	5.0%	6.3%	7.8%	9.4%

Source: ©A.M. Best – used with permission; Conning analytics.

US P/C Industry, ex. Berkshire Hathaway and State Farm





# **Evolving US Bond Portfolios**

Quality Distribution	2007	2008	2009	2010	2011	2012
A to AAA	92.2%	90.1%	88.8%	87.9%	86.5%	84.4%
BBB	5.9%	8.1%	9.2%	9.5%	10.8%	12.6%
Ва	1.0%	0.9%	1.1%	1.3%	1.4%	1.5%
В	0.7%	0.5%	0.6%	0.8%	0.9%	1.1%
С	0.2%	0.3%	0.2%	0.3%	0.2%	0.2%
D	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%
	2007	2008	2009	2010	2011	2012
Investment Grade	98.0%	98.1%	97.9%	97.5%	97.3%	97.0%
Below Investment Grade	2.0%	1.9%	2.1%	2.5%	2.7%	3.0%
8 destruits - Distribution	2007	2008	2009	2010	2011	2012
Maturity Distribution						
<=1 Yr	14.1%	15.6%	15.2%	15.0%	14.2%	15.5%
1-5 Yrs	30.7%	32.8%	36.9%	40.3%	41.9%	41.3%
5-10 Yrs	33.0%	29.9%	28.0%	26.5%	26.4%	26.7%
10-20 Yrs	13.4%	13.2%	12.1%	11.4%	10.7%	10.1%
>20 Yrs	8.8%	8.6%	7.7%	6.8%	6.9%	6.5%
Avg.	7.7	7.4	7.0	6.7	6.6	6.4

Source: ©A.M. Best - used with permission; Conning analytics.

US P/C Industry, ex. Berkshire Hathaway and State Farm



# ❖

### **Investment Risk**

#### Political Risk:

- Difficult to predict
- Reactionary, driven by local political forces- Five Star movement/Spanish bribery scandal
- Headline risk
- Significant impact on macroeconomic outcome Peripheral Europe

#### Interest Rate Risk:

- Yield levels remain low
- Risk is skewed away from 'normal' distribution
- Probability of negative total returns in 2013 is high
- Negative real interest rates

#### Systemic Risk:

- Banks remain at risk regulatory, balance sheet, political risk
- National differences Government exposures/control central bank support
- Liquidity

### Idiosyncratic Risk:

- Still have fragmented and unclear recovery story
- New products are introducing new risks Bank Loans/CLOs/Trade Finance



# Challenges

### **New Environment:**

Risks have little or no historical precedent

### Skewed risk profiles:

- Being at the extreme of any range
- Normalisation skewed, non-normal risk distribution

### **New Products:**

- Increase in structural/legal risk
- Bank balance sheets finding way onto Ins Co's balance sheet



# Strategic Responses

- Underwriting strategy
  - Write more short tail, less long tailed business
  - Increase premium rates
  - More selective underwriting
  - Reduce expenses
  - Increase loss control efforts
  - Change product features (for life insurers with interest sensitive liabilities)
- Evaluate a wide range of options in a consistent framework
- Consider asset, liabilities, and underwriting; risk and reward; a wide range of possible outcomes





# **Investment Strategy Options**

#### **Diversification:**

- Reduce idiosyncratic risk
- Mitigate political and systemic risk

### **Optimize Carry Trade:**

- Mitigate interest rate risk
- Mitigate political and systemic risk

### **Duration/Curve Positioning:**

Mitigate interest rate risk, particularly combined with spread trade

### Fundamental Analysis:

- Reduce idiosyncratic risk
- Mitigate systemic risk

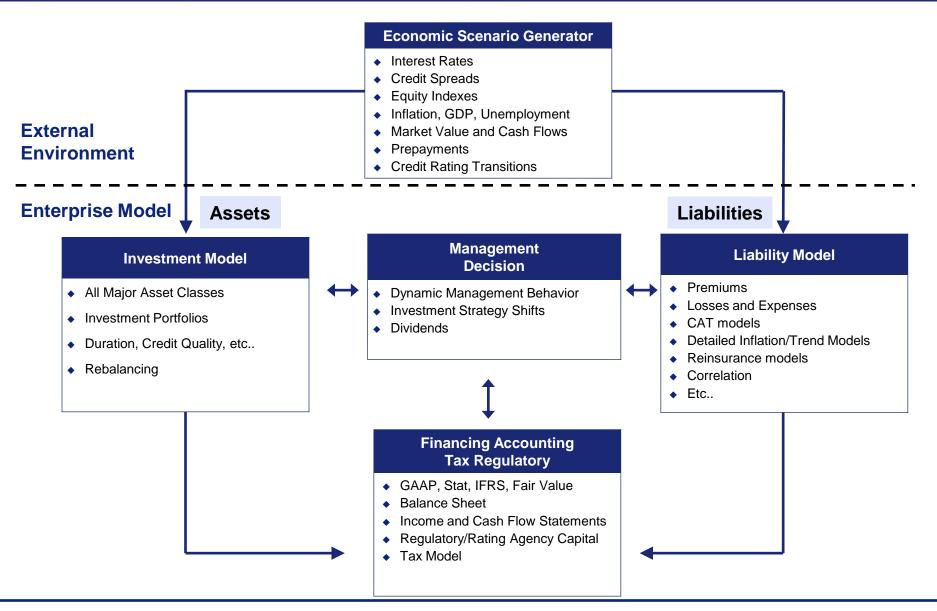
#### **Tactical Trades:**

• Diversifies sources of risk –  $\alpha$  vs.  $\beta$ 





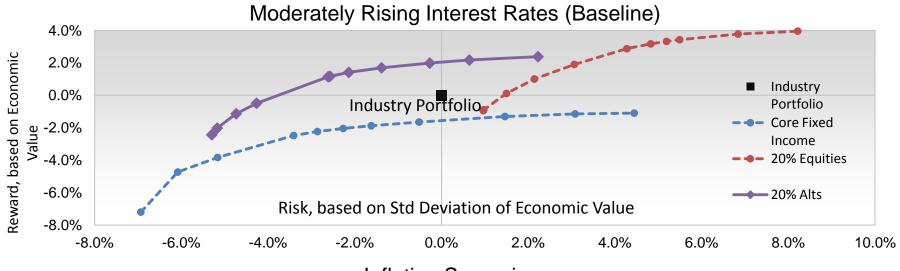
## **Modelling System for Strategy Evaluation**



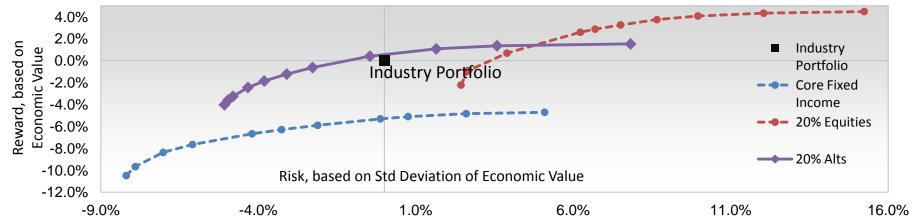




### **Alternatives Can Add Value in Many Different Environments**



#### Inflation Scenarios



Industry portfolio: US P/C industry, ex. Berkshire Hathaway and State Farm

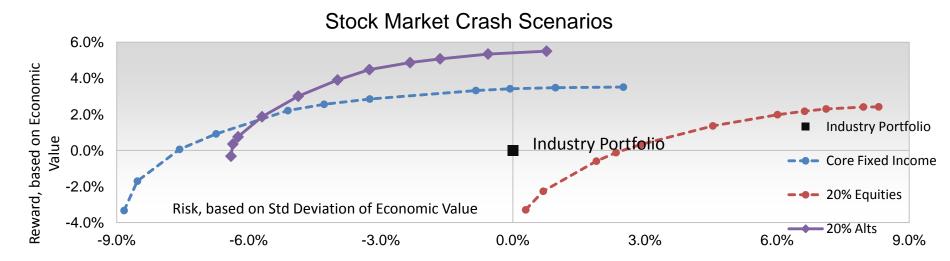
Risk and Reward: Percentage change over five years, relative to the industry portfolio

Source: @A.M. Best - used with permission; Conning analytics. Please see page 22 for full disclosure of our data sources and methodology.

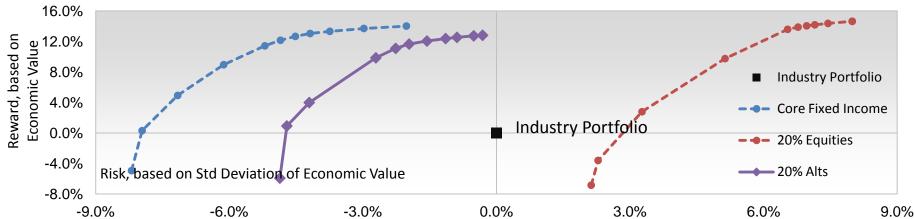




## **Alternatives Can Add Value in Many Different Environments**







Industry portfolio: US P/C industry, ex. Berkshire Hathaway and State Farm Risk and Reward: Percentage change over five years, relative to the industry portfolio

Source: @A.M. Best - used with permission; Conning analytics. Please see page 22 for full disclosure of our data sources and methodology.





## **Considerations for Insurers**

- Impact on other financial metrics, including income and regulatory capital
- Defining and measuring risk and risk tolerance
- Tail risk in the extreme scenarios
- Accuracy of model assumptions and model dynamics
- Implementation of the new investment strategy



# Disclosures

Frontiers were generated using ADVISE®, Conning's proprietary DFA model. The property-casualty industry, excluding State Farm and Berkshire Hathaway, was modeled as of year end 2012 using data from A.M. Best. Five years of future underwriting operations were modeled using premium growth, loss ratio and expense ratio assumptions from Conning's Property-Casualty Industry Forecast and Analysis as of the first quarter of 2013. Volatility and loss payout patterns assumptions were based on historical industry data from A.M. Best.

The industry's financial results were projected for 100,000 five-year economic scenarios. Subsets of 1,000 five-year projections were selected that matched our definitions of the four macro economic scenarios of rising interest rates, inflation, stock market crash, and flat interest rates.

Reward is based on average economic value at the end of the five-year horizon for the 1,000 scenarios in that macro economic scenario. Economic value is the sum of the fair values of all assets less the present values of all liabilities plus the discounted present value of operations beyond the five-year horizon. Reward is graphed as the percentage by which the economic values earned by an investment strategy differs from the economic value generated by the industry portfolio for that macro economic set of scenarios. Risk is percentage by which the standard deviation of ending economic values across the 1,000 economic scenarios for a given investment strategy differs from the standard deviation of economic value for the industry portfolio.

Three efficient frontiers were constructed for each macro economic scenario. For the first frontier, investments were constrained to core fixed income securities. Credit risk, structure risk and interest rate risk are the variables which affect future risk and reward. For the second frontier, 20% of fixed income was replaced by U.S. large cap stocks. For the third frontier, stocks were excluded and 20% of fixed income was replaced with non-traditional investments. Non-traditional investments ("Alternatives") consisted of an even weighting of Hedge Funds, Insurance-Linked Securities ("ILS"), Convertible Securities, and Master Limited Partnerships ("MLPs")..

For comparison, the result after five years for the property-casualty industry's existing investment strategy is shown for each macro economic scenario.



# Disclaimer

This document is prepared and issued by Conning Asset Management Limited ("CAML"). The information contained in this document is confidential and is intended solely for the recipients to whom it is transmitted by CAML.

The information in this document is not and should not be construed as any advice, recommendation or endorsement from CAML to any legal, tax, investment or other matter. Nothing in this document constitutes an offer to deal in investments, to buy or sell any security, future, option or other financial instrument, to provide advisory services or to form the basis of any contract or contractual obligation. This document is not to be reproduced or used for any purpose other than the purpose for which this document was prepared and transmitted by CAML. It should not be distributed to or used by any persons other than the intended recipients without the prior consent of CAML.

CAML is authorised and regulated by the Financial Conduct Authority.

CAML is a member of the Conning group of companies and may provide investment management and advisory services together with group companies in the United States of America, Ireland, Germany and Hong Kong. Such clients may not have the benefit of rights designed to protect investors under the regulatory system of the United Kingdom. Clients dealing directly with CAML's affiliate Conning Asset Management (Europe) Limited may be protected under the Markets in Financial Instruments Directive ("MiFID") and the regulatory requirements of the Central Bank of Ireland.

Any statistics contained within this document have been compiled in good faith and do not constitute a forecast, projection or illustration of the future performance of investments. The past performance of investments is not necessarily a guide to future returns. Values of investments may fall as well as rise, and changes in rates of exchange may cause the value of investments to rise or fall in value, such that investors may not receive full return of capital invested.

The information contained in this document is compiled from internal and other sources which we consider to be reliable or are expressions of our opinion. Whilst every effort has been made to ensure that the information is correct at the date of publication, CAML does not guarantee the accuracy or completeness of the information. Recipients of this document need to evaluate the merits and risks of the information provided. Decisions based on the information contained within this document are the sole responsibility of the recipient. With the exception of statutory obligations, CAML, its Directors, officers and employees accept no liability whatsoever for any loss or damage which may arise in relying on any opinion, expression or conclusion contained within this document, its content or otherwise arising in connection with this document.

Registered in England No. 3654447 FCA Firm Reference Number: 189316

Registered Office: 55 King William Street, London, EC4R 9AD



# Contact Details

Russell Büsst (Chief Investment Officer - Europe) (Chief Executive – Conning Asset Managem	020 7337 1938 ent Limited)	russell.busst@conning.com
Simon Hawkins (Senior Portfolio Manager)	020 7337 1947	simon.hawkins@conning.com
Christopher Greaves (Senior Portfolio Manager)	020 7337 1946	christopher.greaves@conning.com
Ben Hamilton (Portfolio Manager)	020 7337 1945	ben.hamilton@conning.com
James Kelly (Head of Investment Operations)	020 7337 1948	james.kelly@conning.com
Daniel Wilder (Senior Associate Investment Operations)	020 7337 1949	daniel.wilder@conning.com
Katherine Owen (Assistant Vice President)	020 7337 1934	katherine.owen@conning.com

