


**The Actuarial Profession**  
making financial sense of the future

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## Impact of Solvency II on investment strategy and the financial markets

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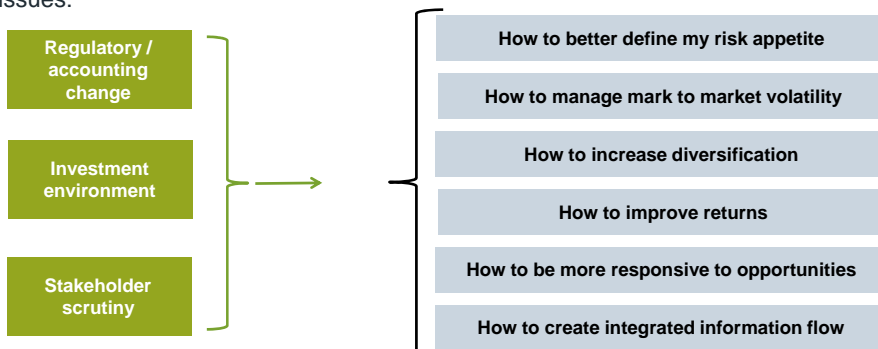
## Agenda

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- Regulatory change brought about by SII
- What SII might mean for investment strategy
- Getting the most from your investment strategy
- Conclusion

## Investment for insurers – the headline issues

- Risk management and investment management are core to insurers' businesses.
- Companies have always sought to manage their assets and liability positions
- In recent years three fundamental drivers have caused insurers to re-address many key issues:



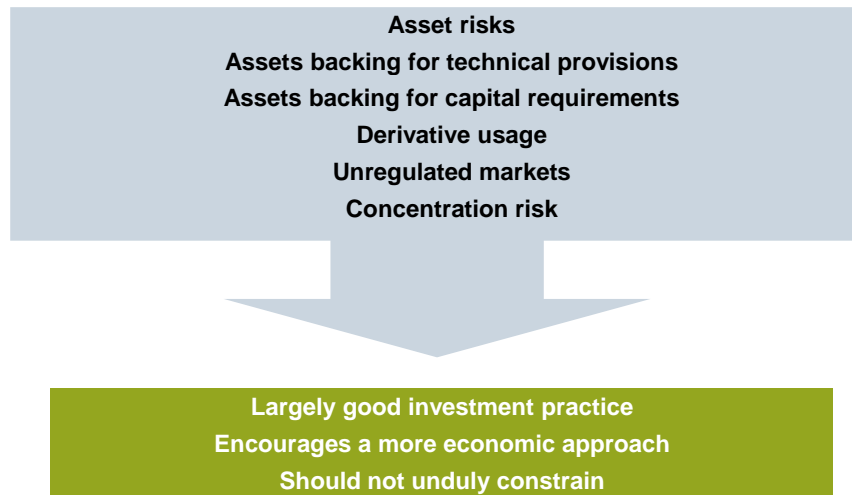
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## Moving from Solvency I to Solvency II: Investment related aspects

Solvency I	Solvency II
Statutory basis	SCR
ICA	Standard formula / internal model
Prudent risk adjusted yields	LIBOR
Liquidity premium	Matching premium & countercyclical premiums
Arrow visits	ORSA
ICA not publicly disclosed	SCR publicly disclosed
Limited documentation & evidence	Lots of documentation & evidence
Asset admissibility limits	Prudent person principle
Counterparty limits	Prudent person principle
Localisation	Freedom of investment

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## Prudent person principle



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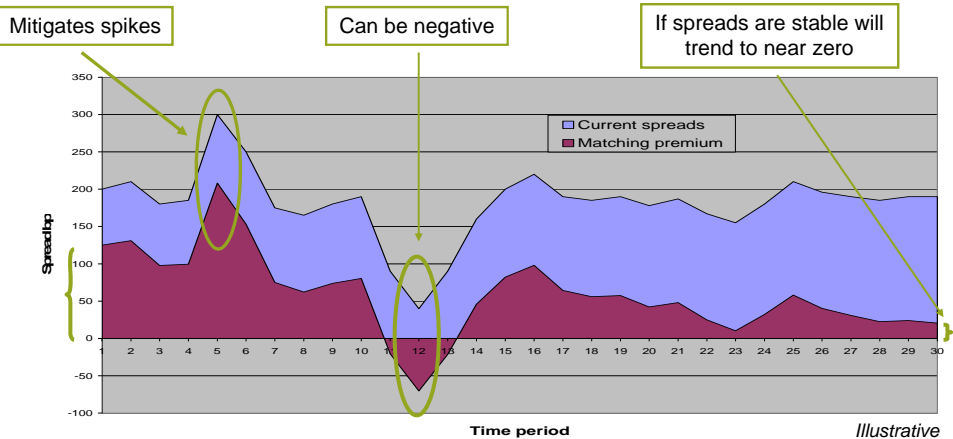
## Current matching premium proposals<sup>1</sup>

- Buy and hold asset strategy using “bond-like” assets that cashflow match projected liability cashflows
- Matching premium = current credit spread – fundamental spread
- Fundamental spread = expected loss on defaults + expected loss on downgrade + % of spread based on long term average spreads
- Adjustments to avoid matching premium increasing with deteriorating credit quality
- Unclear how the matching premium approach interacts with spread risk capital calculations

<sup>1</sup> End September 2011

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## Characteristics of the matching premium proposal



Likely to increase demand for assets that meet the Matching Premium criteria with the converse applying

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## The benefits of a more diverse investment strategy

### Case study: UK WP Fund

	Before	Amenable to dynamic hedging	Diversification and active management
<b>1. Government bonds/cash</b>	<b>38</b>	<b>27</b>	<b>27</b>
Govt	32	27	27
Cash	6	-	-
<b>2. Credit</b>	<b>27</b>	<b>26</b>	<b>28</b>
Domestic corporate bonds	27	24	23
Global IG corporate bonds	-	-	1
Loans	-	-	1
High yield	-	2	2
MBS/ABS	-	-	1
EM debt	-	-	2
<b>3. Equities</b>	<b>32</b>	<b>35</b>	<b>30</b>
Domestic equities	20	-	23
Global equity (large cap)	10	35	7
EM equities	-	-	-
<b>4. Alternative asset – med liquidity</b>	<b>-</b>	<b>7</b>	<b>12</b>
Reinsurance (ins-linked securities)	-	-	2
Commodities	-	2	3
EM Cash	-	-	-
Basket of direct hedge funds	-	5	7
<b>5. Alternative asset – low liquidity</b>	<b>3</b>	<b>5</b>	<b>3</b>
UK property	3	-	-
Core global property	-	5	3
<b>Total assets</b>	<b>100</b>	<b>100</b>	<b>100</b>
5 year median return over LIBOR (% pa)	2.1	2.8	4.2
Market Risk ICA / Internal Model SCR %	8%	8%	8%
Return/risk ratio	0.24	0.3	0.40

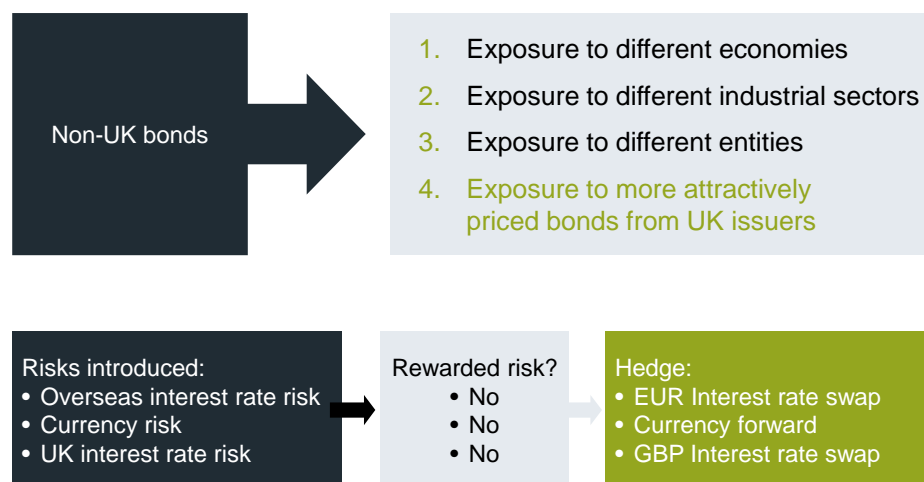
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## The benefits of diversification: Why invest in non-UK bonds?

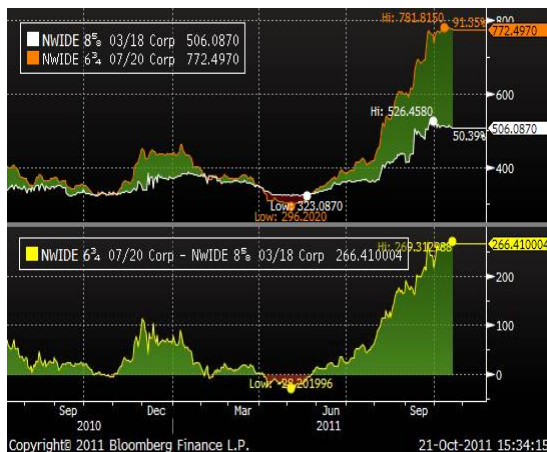


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## The benefits of diversification: Relative value for same risk

### An example:

- Nationwide 6.75% 2020 GBP
- Nationwide 8.625% 2018 EUR
- Spread difference = +260bps
- Hedge cost = <50bps
- Net 210bps pick up for basically the same risk

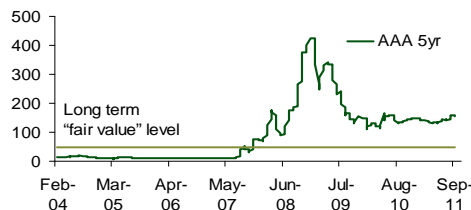


## Diversification into other fixed income assets: Asset-backed securities

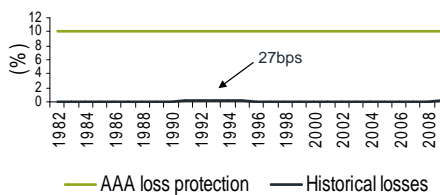
### Might appeal to insurers because:

- + High credit ratings
- + Financially separate from banks and governments
- + Losses and arrears are relatively low compared to credit enhancement
- + Coupons linked to Libor provide attractive returns in a rising rate environment

AAA RMBS yield spread over Libor (bp)



Robustness of UK prime AAA RMBS: credit risk

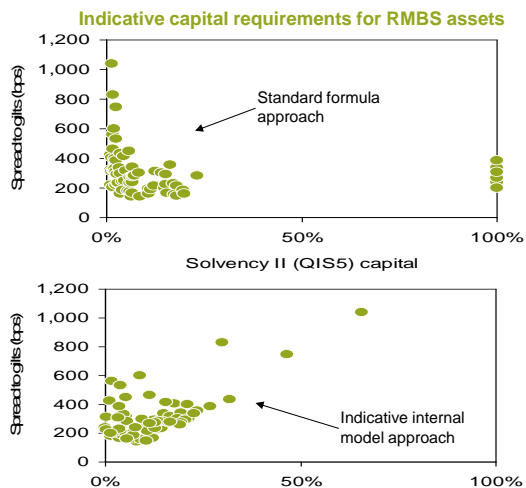


Source: JP Morgan, Merrill Lynch, Bloomberg as at 31 March 2011

## Diversification into other fixed income assets: Asset-backed securities

### Might not appeal to insurers because:

- Maybe less liquid than mainstream corporate bonds
- Complexity of transactions:
  - Impact of changing economic conditions
  - Originator diligence
  - Collateral characteristics
  - Asset structure
- Insurance capital treatment (Solvency II) is complex



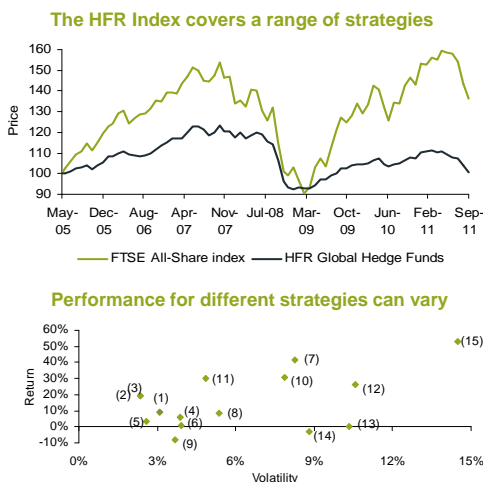
## Diversification into other return seeking assets: Absolute return / hedge funds

### Might appeal to insurers because:

- + Low correlation with mainstream assets
- + Expected lower mark-to-market volatility
- + May be more capital efficient than equities

### Might not appeal to insurers because:

- What happens in a crisis: are risk exposures really diversified?
- Complexity: do you really understand the risks?
- How much transparency is there (look through for standard formula approach)?



Source: Lipper, as at 30 September. Performance from 31 March 2008

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## Diversification into other assets: Conclusions

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### Diversification can provide...

- + Real world benefits: genuine reduction in economic risk
- + Regulatory benefits: depending on approach taken
- + More efficient portfolio: accessing new opportunities

### ...but care needs to be taken

- Need to ensure that you fully understand all the risks (and hedge those risks which are considered unrewarded)
- Some asset classes are more complex than others and may require specialist management
- Need to ensure your asset manager understands your constraints!

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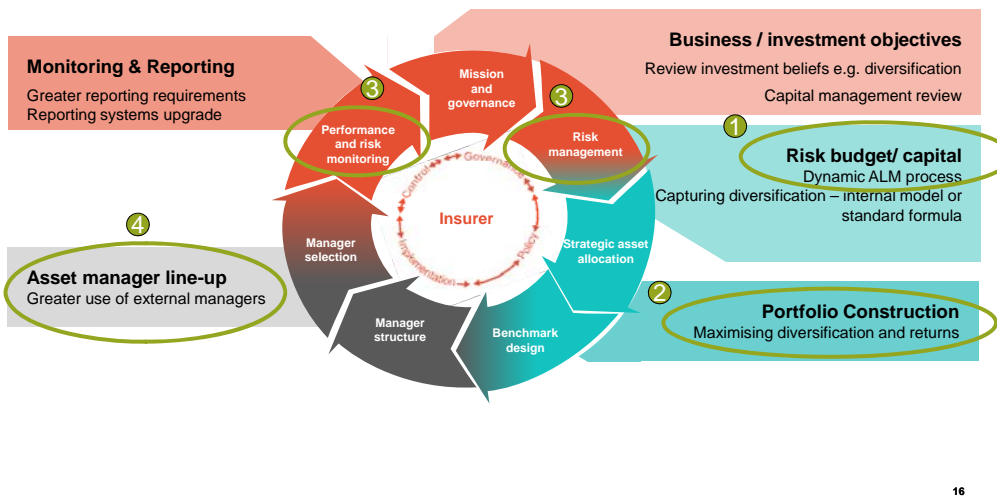
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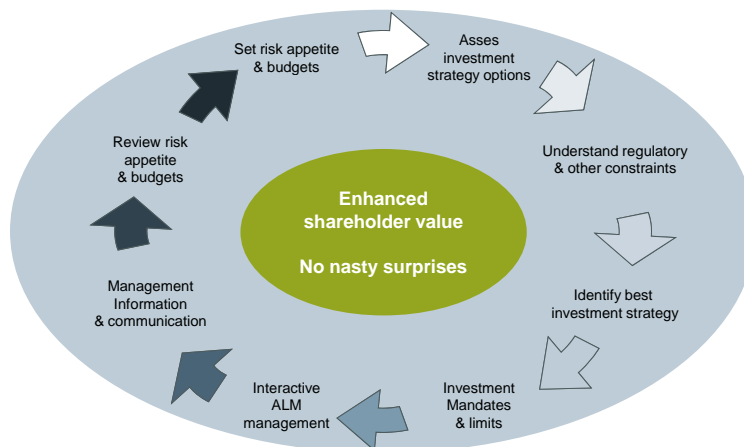
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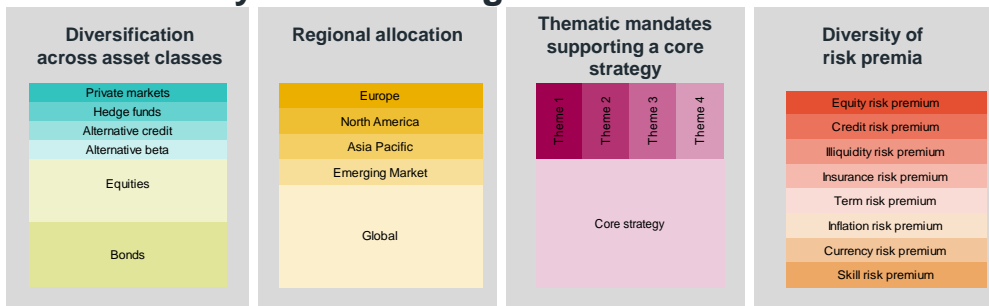
## The investment cycle



## 1 Risk budgeting: Dynamism, clarity and quantification



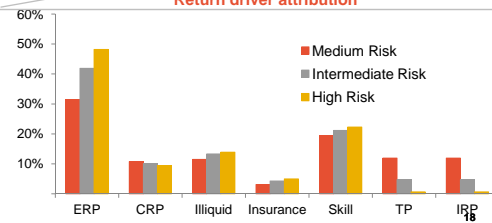
## ② Portfolio construction: Different ways of achieving diversification



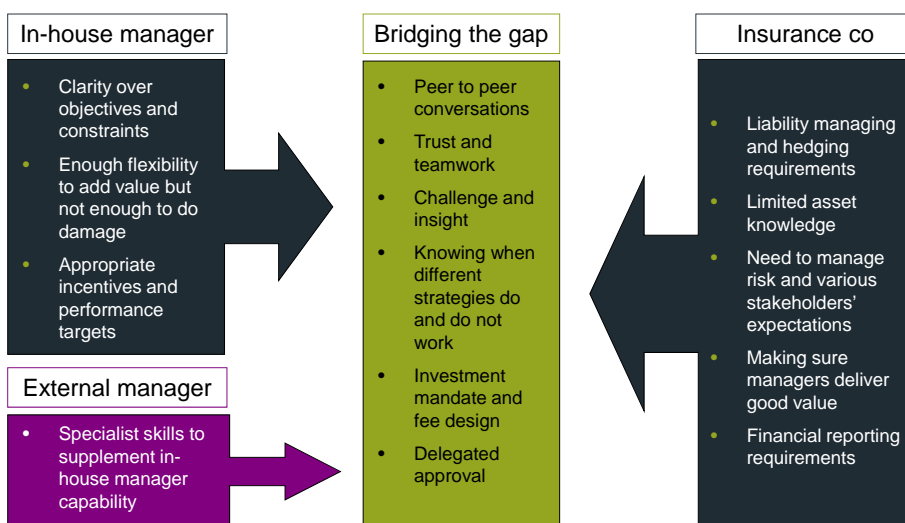
### Key takeaways

- Review portfolio structure under these groups?
- Are your risk drivers more correlated than you think?
- Can diversification be increased using more overseas and alternative assets?

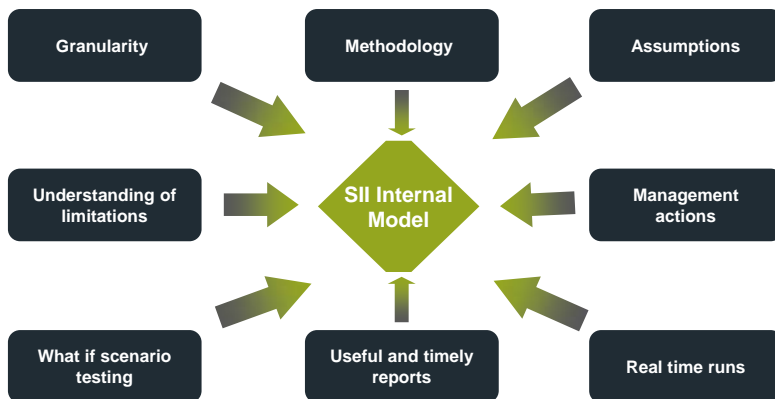
Return driver attribution



## ③ Asset manager line up: Getting the most from your fund manager(s)

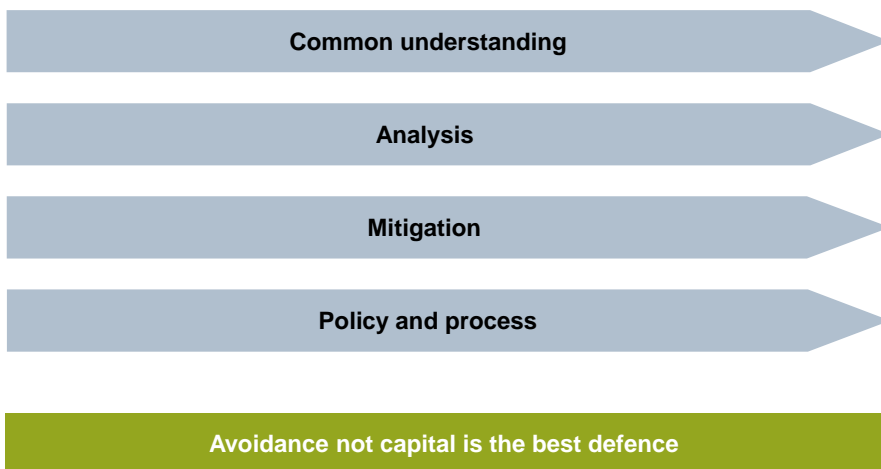


④ Risk management:  
What you should expect from your internal model



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④ Risk management:  
Do not forgot liquidity management



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## Conclusions

Solvency II provides  
impetus for change



- Diversification benefits & Own model option
- Matching premium → bonds
- Relaxation of home country bias

Changes in assets



- Diversification
- Globalisation
- Externalisation

Management approach  
adopted



- Surrender / claw-back / adverse scenario charges
- Dynamic and/or Diversified strategy
- Current protection or future promise

Specific context



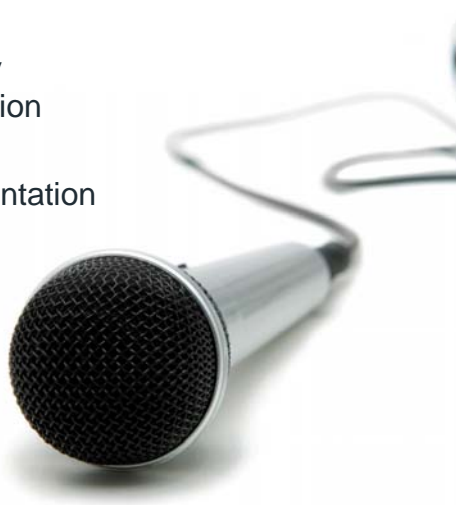
- Internal capability, and internal investment theses
- Liquidity, scalability and amenability to hedging

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## Questions or comments?

Expressions of individual views by  
members of The Actuarial Profession  
and its staff are encouraged.

The views expressed in this presentation  
are those of the presenter.



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