

Sharpening up the balance sheet

- 1. The optimisation problem
- 2. Case study 1 Who calls the shots?
- 3. Case study 2 The secret of a long life (is knowing when it's time to go)
- 4. Case study 3 Mixing it up...
- 5. Conclusion Getting more useful?

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But first...

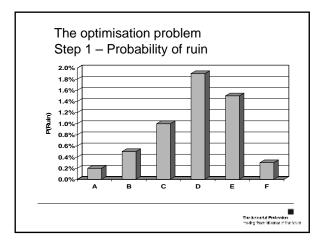
- ICA regime
 - Lots of good work done
 - Lots of approaches taken
 - Many companies have modelled/considered standalone risks and aggregated them
 - FSA requirement to 'pass the Use test' and 'embed in the business'
- How to leverage what has been done so far

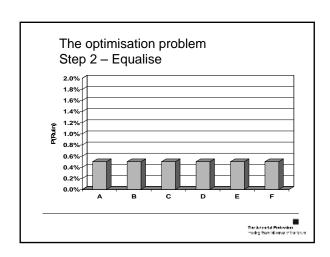
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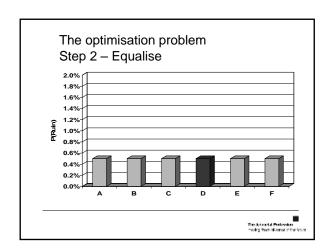
So...

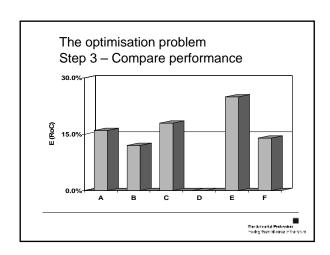
- We need to demonstrate to the FSA that the model is 'in use'
- Make the model pay for itself!
- Actuarial involvement in strategic decisions

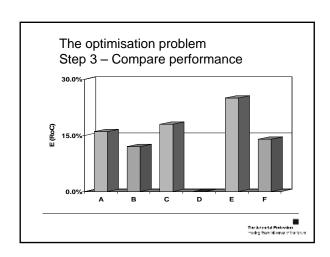
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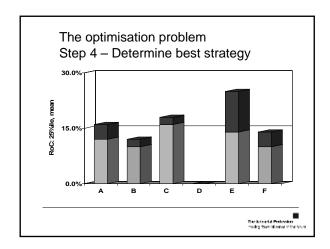


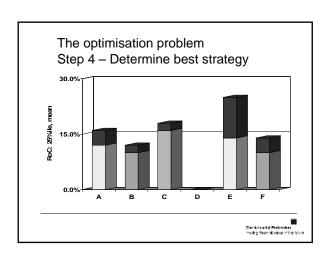


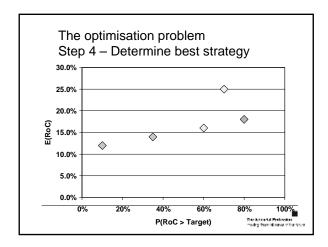












The optimisation problem

- Constraints:
 - Regulatory capital or other target?
 - Defining / allocating target RoE?
- Objective function
 - What is definition of "best"?
 - Best for whom?

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Who calls the shots?

- Exercise for all
- Three groups (Shareholders, senior management, underwriters)
- Question: What reinsurance retention to hold?
- Fairly simple deterministic example needed
- Shows that all will rationally choose differing level of RI

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Who calls the shots?

- Company ABC
- 3 line all £100m premium income
- Motor, Property, Energy
- Exposed to the usual perils
- What reinsurance program to purchase

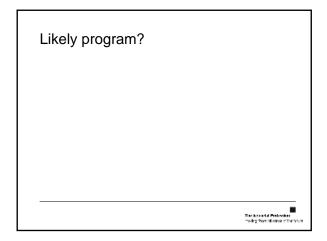
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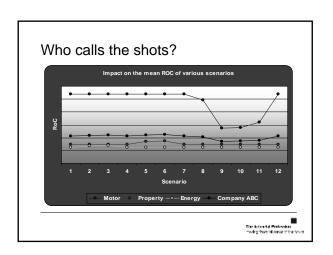
Who calls the shots?

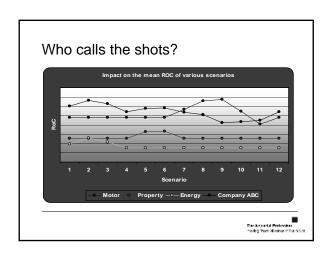
- Available cover
- Motor
 - 4m xs 1m
 - 5m xs 5m
 - Unlimited xs 10m
- Property XL
 - 5m xs 5m
 - 10m xs 10m
- Energy
 - 10m xs 10m
 - 20m xs 20m

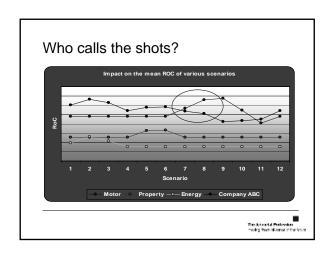
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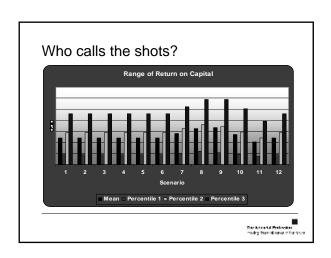
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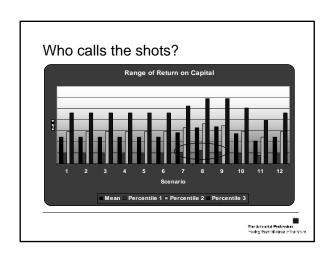


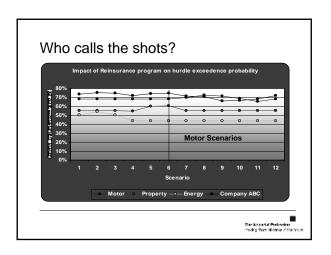


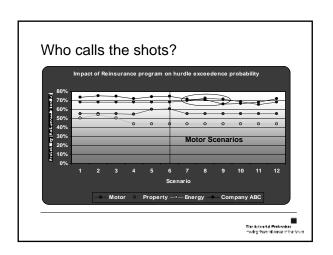


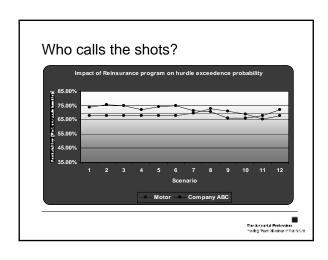


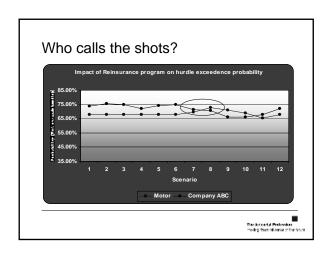


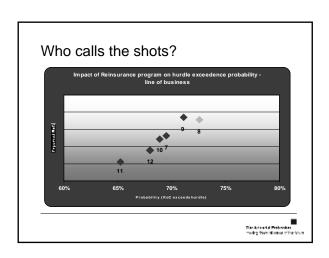


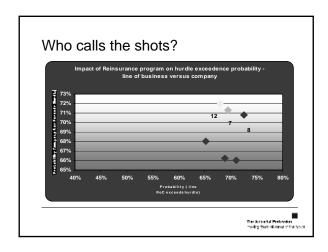












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Knowing when it's time to go...

- Problem: When should you exit a run-off line of business?
- Issue: It's a dead-weight on capital resources. Suppresses RoE compared to peers without run-off exposure.
- But shedding it incurs significant capital cost...
- While waiting for certainty runs risk of deterioration
- Some forms of finality are better than others, but not all will be available
- Can the actuary use their DFA model to enhance this decision?

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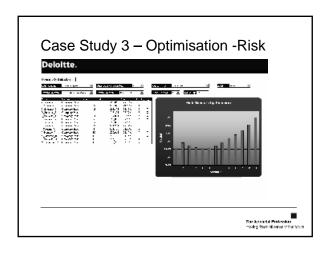
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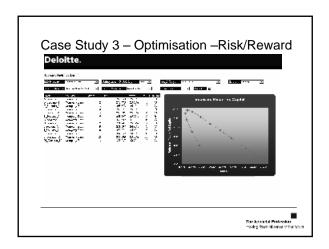
Mixing it up

- Optimisation Techniques
- Ranking Scenarios
- Case Study Asset Mix

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Case Study 3 – Optimisation -Reward Deloitte.





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Getting more useful?

- Key test for current generation of DFA models is whether they actually help with business decisions
- ICA regime has provided useful impetus to companies to invest time building models...
- ... but has focus been too much on regulatory needs, not on building models that help run the business
- For models to be taken seriously by investors and regulators, companies need to crack the problem of getting them to pass the "in-use" test
- To get there, the models need to be at the heart of key business decisions eg those outlined today

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