

Agenda

- What is price optimisation?
- Price optimisation in the life market benefits and practicalities
- Conclusions and questions



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Price optimisation in insurance

Insurance is different!

- Customers are used to providing lots of information
- Fewer "physical" constraints
- but stronger TCF requirements

Use of customer demand to set prices

- Analyse the likelihood of different segments to purchase
- ... and use this as a quantitative input
- Traditionally done only at a very high level
- Separate "risk" and "demand and elasticity" components



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Risk modelling

- The underlying cost of providing the insurance policy
- · Covering commission, benefits, expenses, cost of capital
- Typical cashflow model, with assumptions
- Nothing new!
- But an opportunity to improve risk modelling



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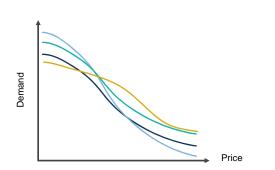
Demand and elasticity modelling

Demand – assess probability of sale

- As a function of different factors
- At a granular level
- Uses historical quote data
- GLMs typically used

Elasticity

- Randomised price trials can be used
- Alternatives are available





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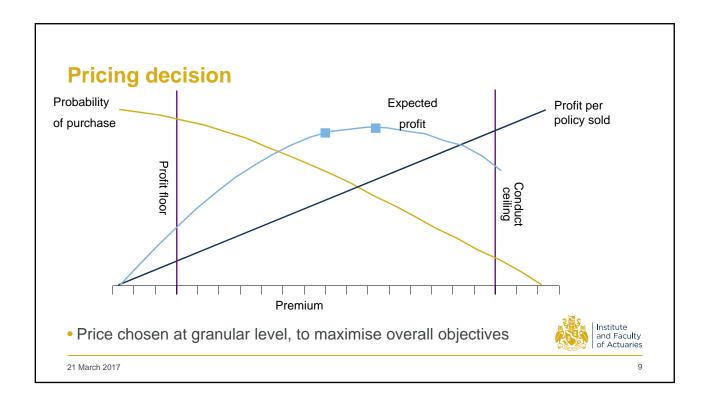
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Pricing constraints

- Consider overall objectives
- Essential to work through all criteria possible affecting prices:
 - Distribution agreements
 - -Existing quote delivery systems
 - -High-level pricing principles
- · Use as quantitative constraints on rate decision-making



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Current use of price optimisation

GI

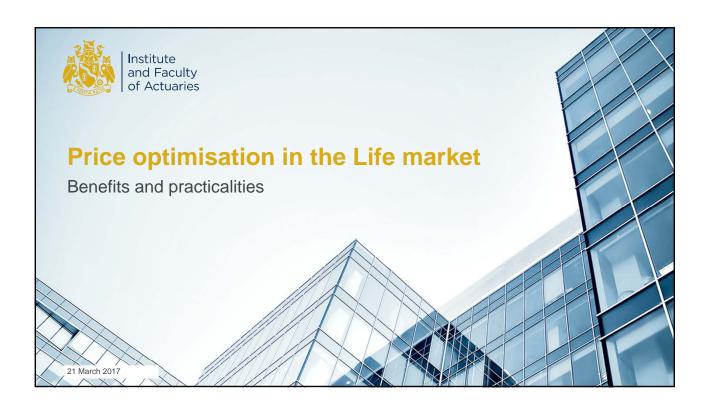
- Well entrenched in UK motor market
- Also used in other markets
- Lots of factors, very competitive market, rapid repricing,
- Move to real time price optimisation

Life

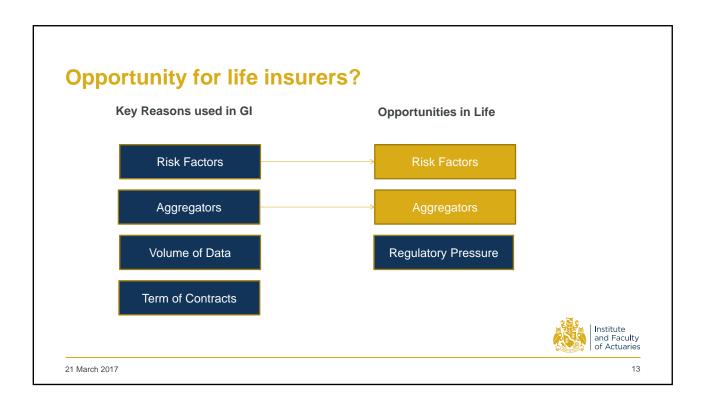
Most applicable to annuity and protection products

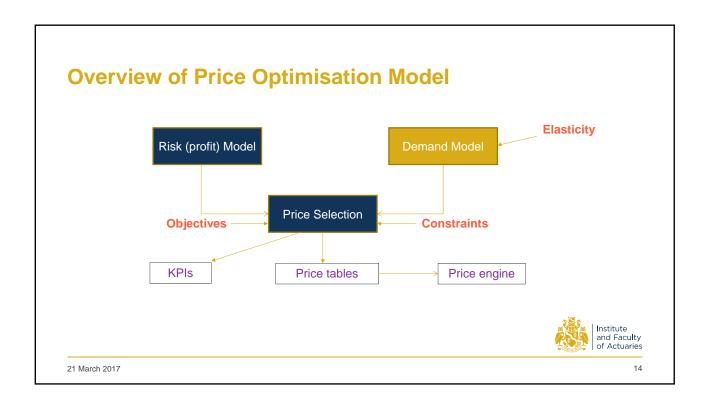


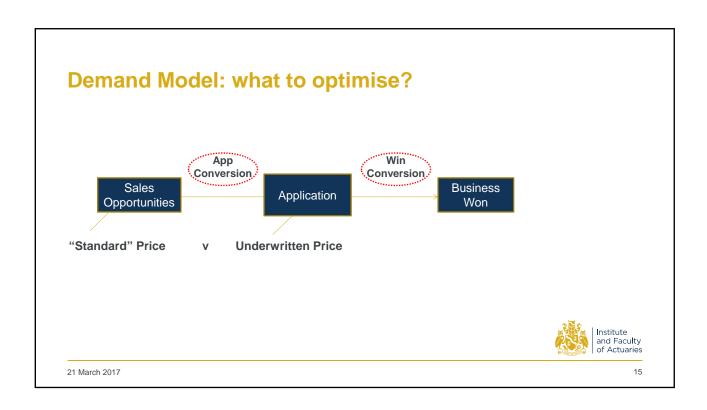
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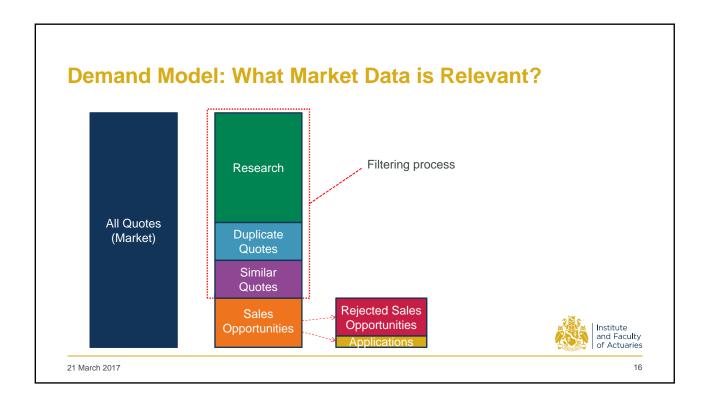


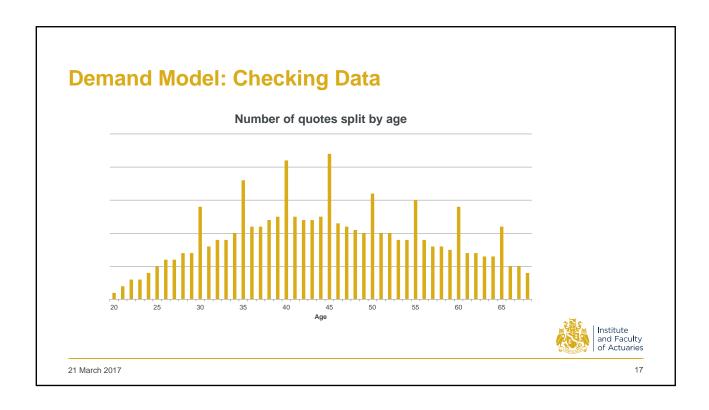


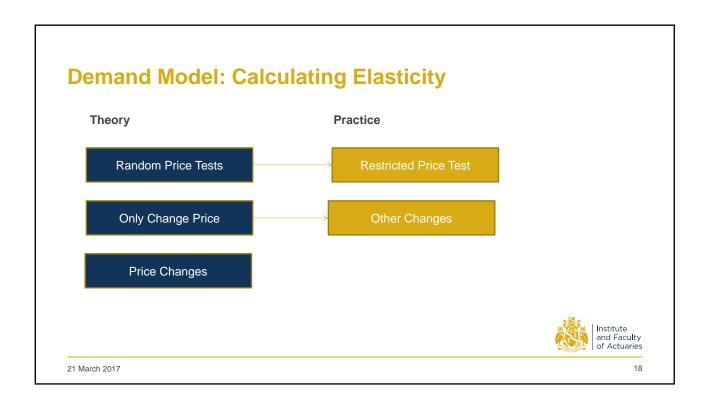


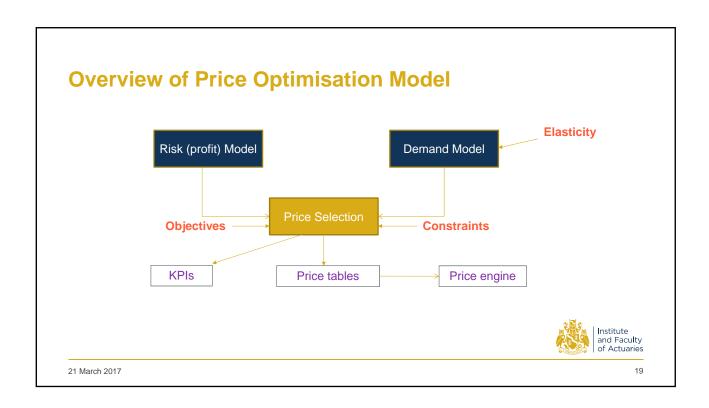




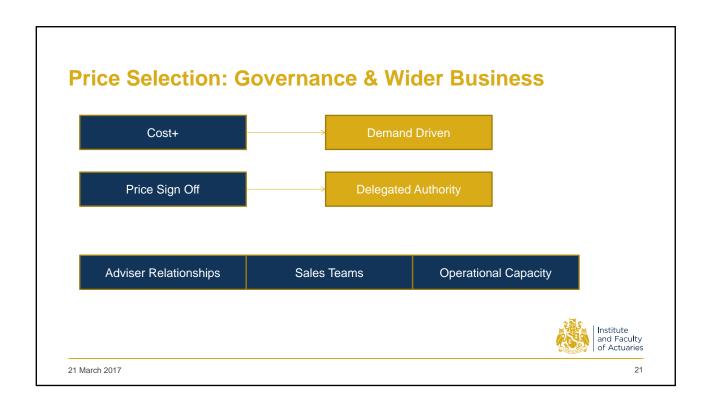


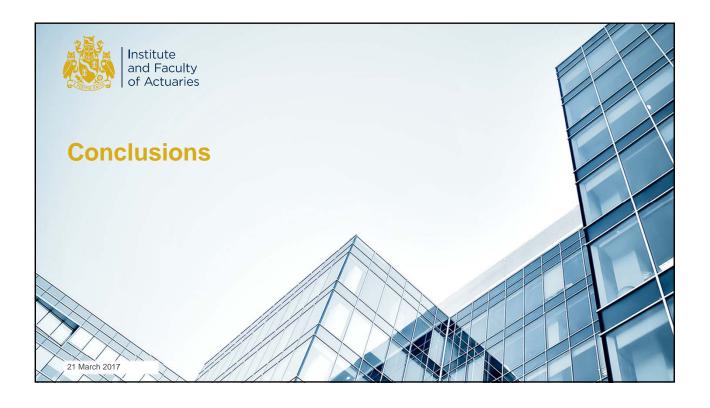












Price optimisation has arrived in Life insurance!

- Well proven techniques that add significant business value
- Additional challenges in Life insurance
- Enhanced understanding of customers
- · Already being used in the market
- Will become a necessity to compete



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Questions Comments

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