The Actuarial Profession

making financial sense of the future

GIRO conference and exhibition 2010 James Tanser and John Lewandowski



Ratemaking Survey Working Party

Initial results

12-15 October 2010

Agenda

- Purpose
- Survey
- Response rate
- Selected results

Purpose

- Proposed in GRIP paper
- Understand what current practice is
- Cover all aspects of pricing
- Cover as much of the world as possible
- Compare responses by region
- Report back to the professions

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Survey Starting point

- UK, US and Australian working parties
- Starting with Reserving questions
- Three separate sets of questions
- Three alternate interpretations of scope
- Three very different time zones

Survey Process

- Each group came up with questions, and reviewed other teams questions
- Chairs had discussions to agree:
 - Common global questions
 - Region specific questions
- Due to other commitments, final survey was US/UK
 - Separate Australian survey was also ran but not included here

Survey Final version

- Bigger than expected
 - 34 Common Questions
 - 11 US questions
 - 14 UK questions
- Went live early July until mid-August

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Response rate

- Invitations sent out to:
 - CAS mailing list
 - GIRO mailing list
 - LMAG
 - CAE
 - **–** ...

Response rate

- 1295 responses to first question
 - 1002 from the US
 - 135 from the UK
 - 46 from Europe
 - 112 from Rest of the World
- 566 (44%) finished the survey
 - 416 (42%) US
 - 64 (47%) UK
 - 34 (74%) EU
 - 52 (46%) ROW

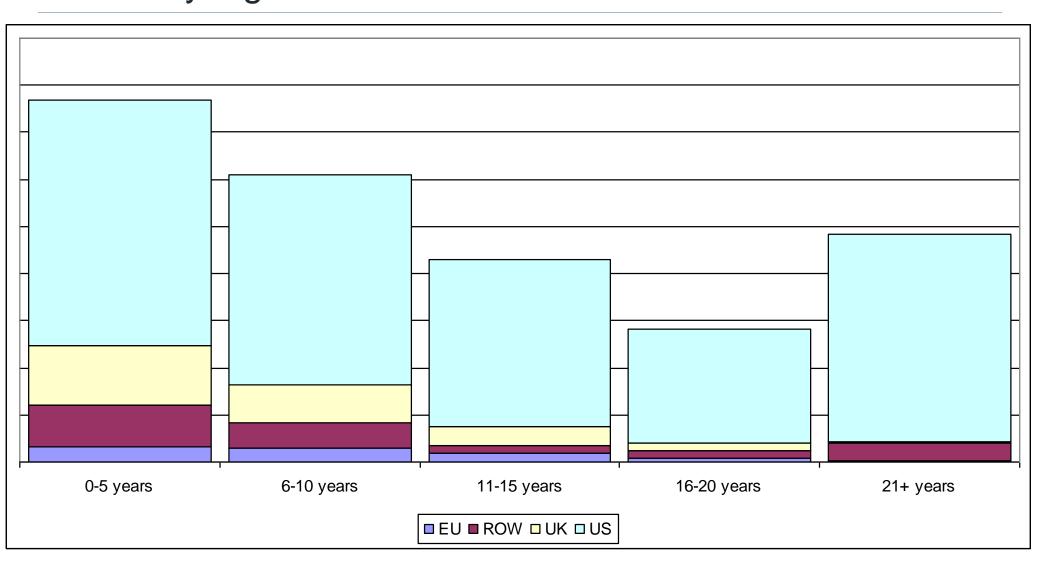
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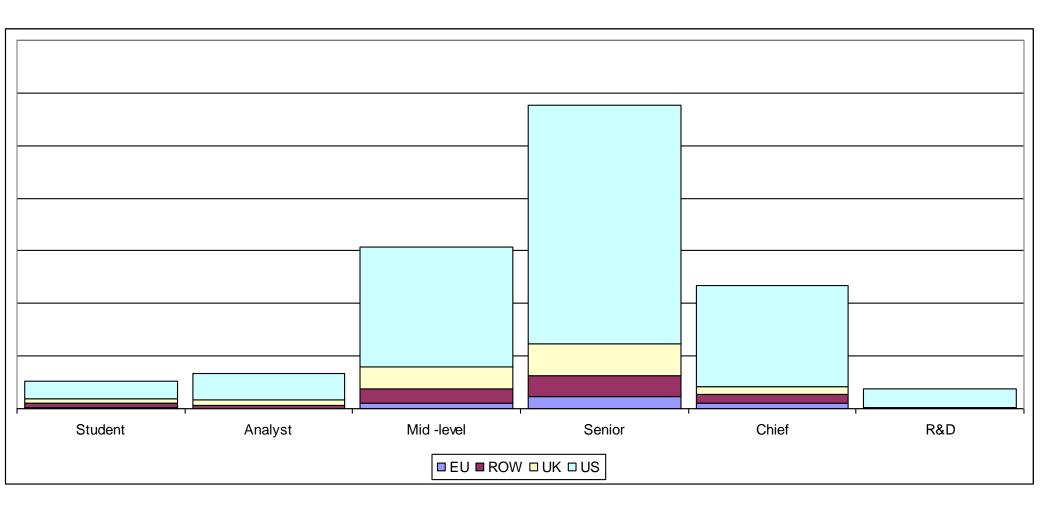
Mainly primary insurers

	EU	ROW	UK	US	Total
Broker/Intermediary	0%	0%	1%	2%	3%
Small consulting	0%	0%	0%	4%	4%
Large consulting	0%	0%	1%	4%	6%
Insurance Information Entity (ISO, NCCI, etc.)	0%	0%	0%	3%	3%
Lloyds Syndicate	0%	0%	2%	0%	2%
Primary Insurer (Multi-National Multiline)	1%	2%	4%	12%	18%
Primary Insurer (National Multiline)	0%	2%	2%	32%	36%
Primary Insurer (Regional or Monoline)	0%	1%	0%	14%	16%
Regulatory Body	0%	0%	0%	2%	2%
Reinsurer	1%	2%	1%	5%	9%

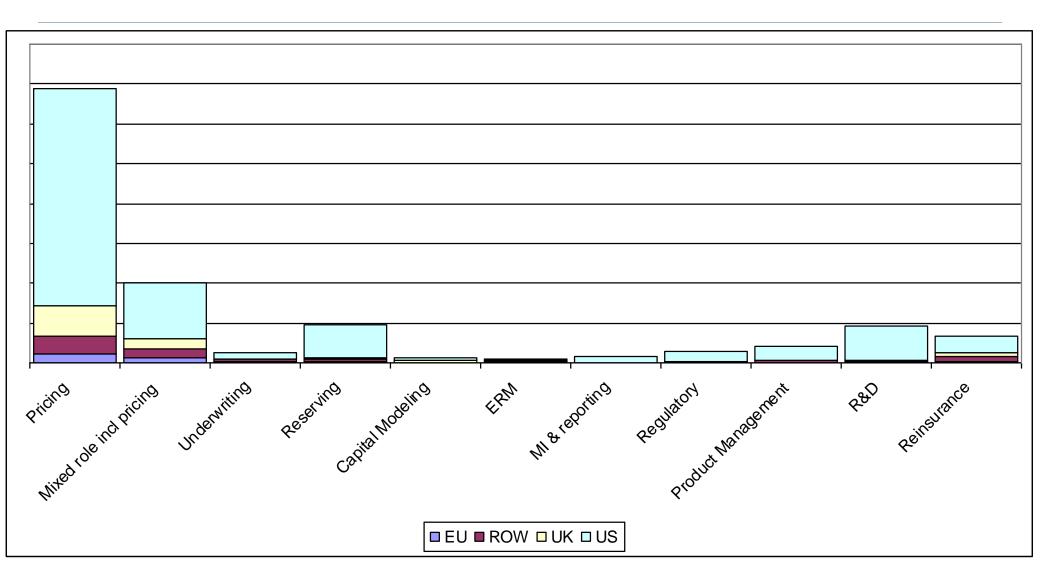
Reasonable cross section by experience Seniority higher from US



Well targeted at senior individuals...

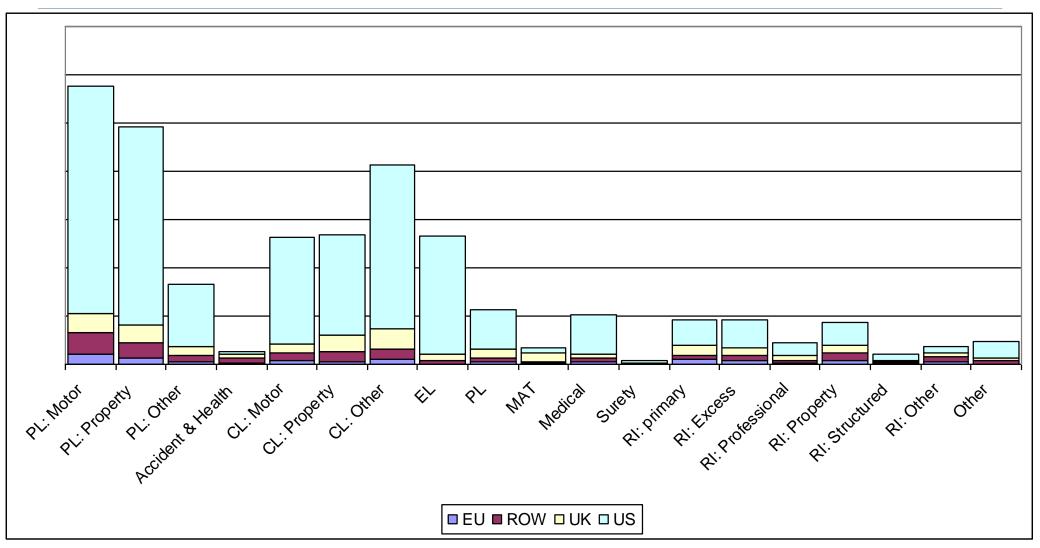


... who work in pricing!

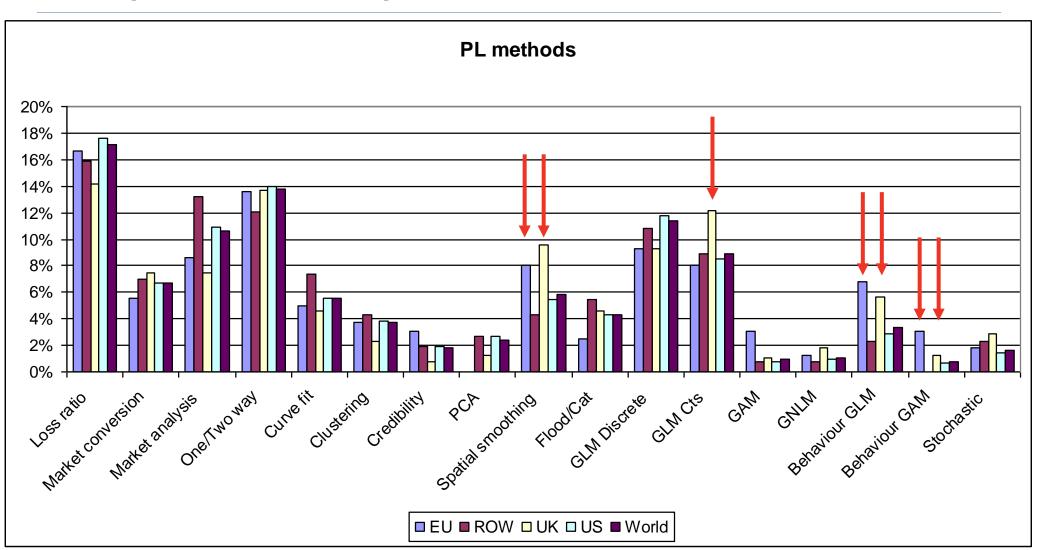


Reasonable mix of lines

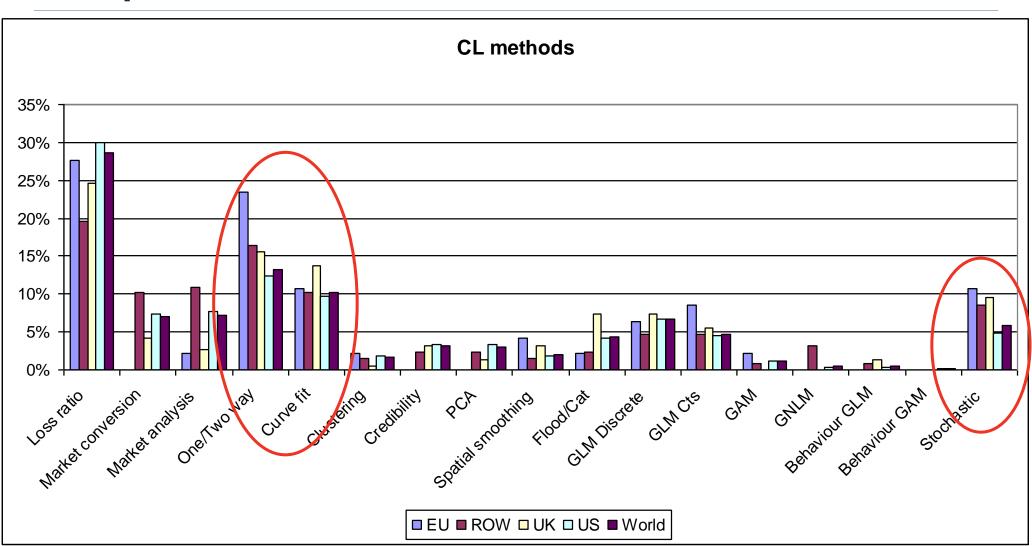
- slightly more personal lines



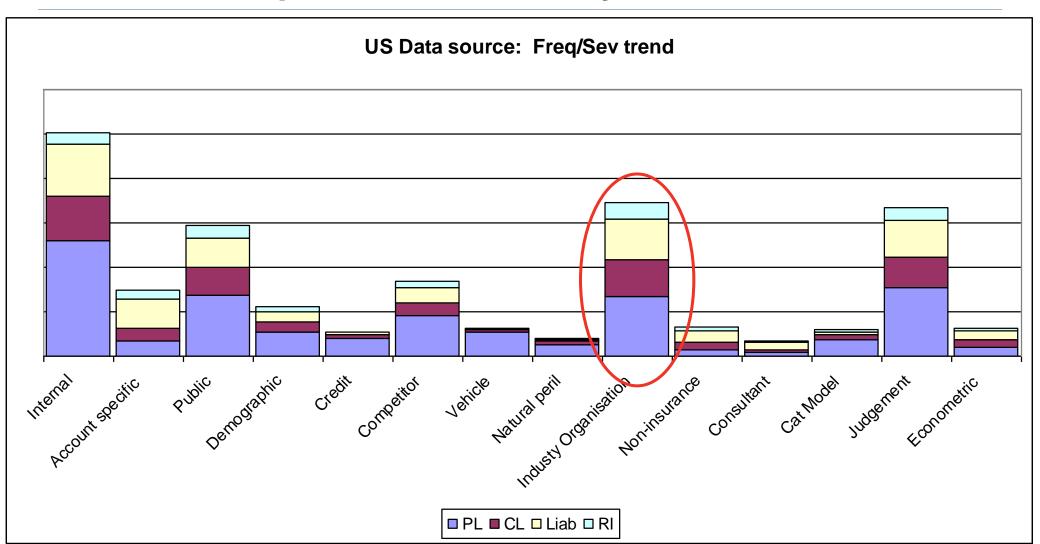
Personal Lines Methods Europe uses more sophisticated models



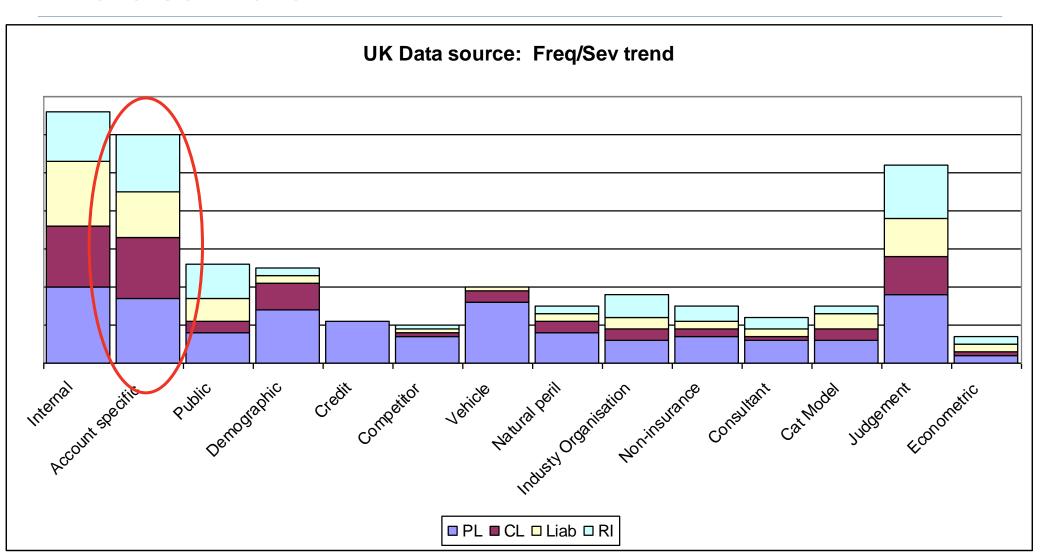
CL methods Simpler and stochastic methods



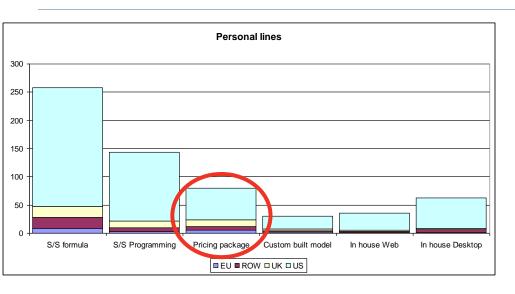
US Data sources Wide use of public and industry data

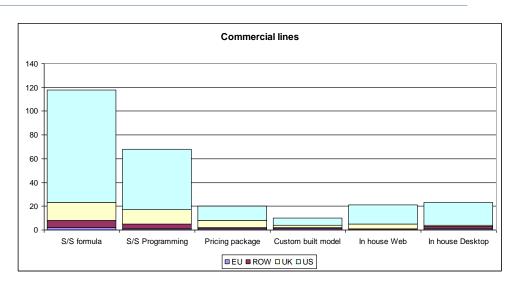


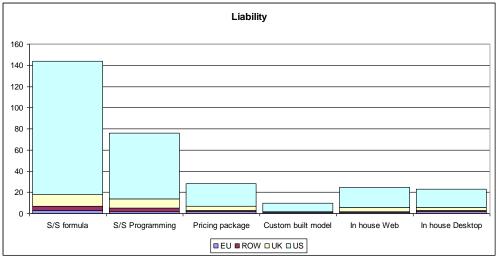
UK data source More self reliant?

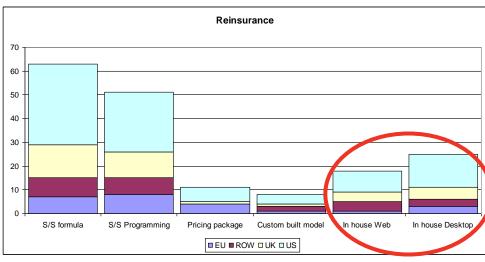


Use of packages: S/S formula, S/S Programming, Pricing package, Custom built model, In house Web, In house Desktop

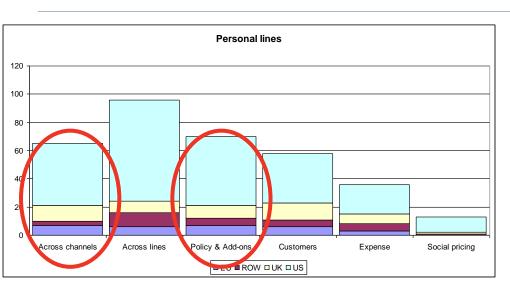


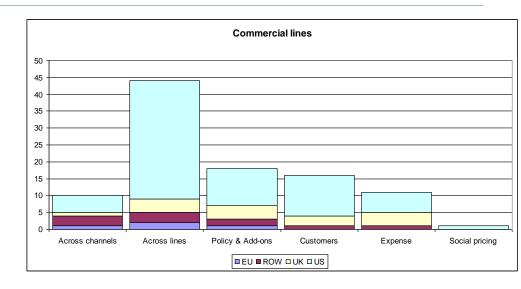




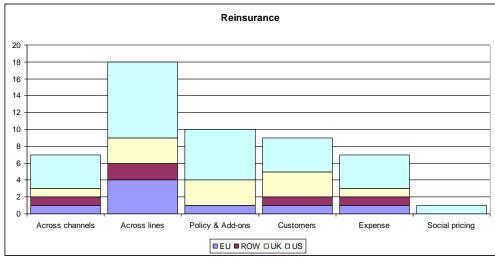


Cross subsidies: Across channels, Across lines, Policy and add-ons, Customers, Expense, Social pricing

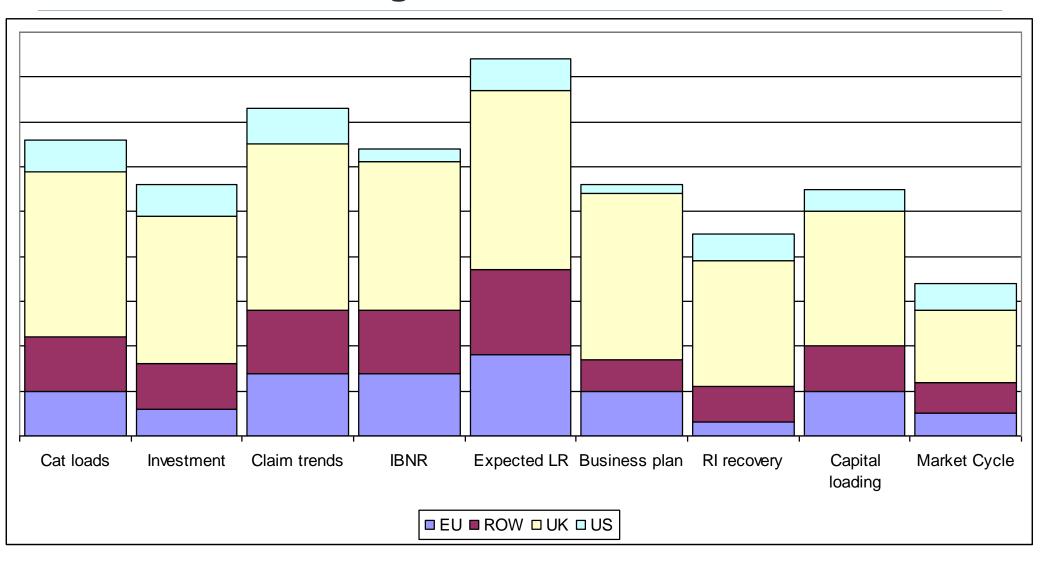




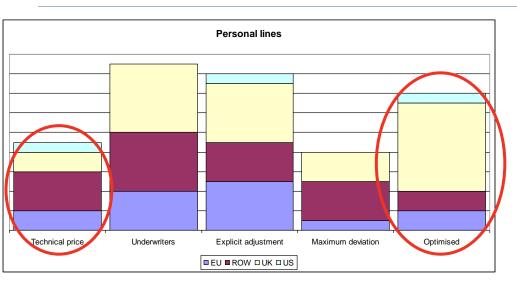


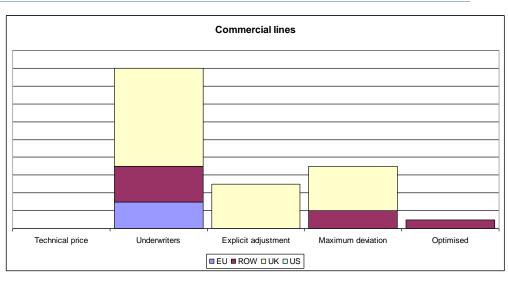


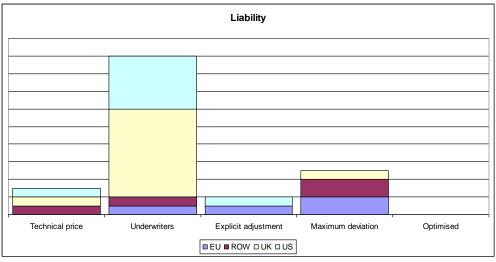
Integration with reserving and capital More with reserving, it seems

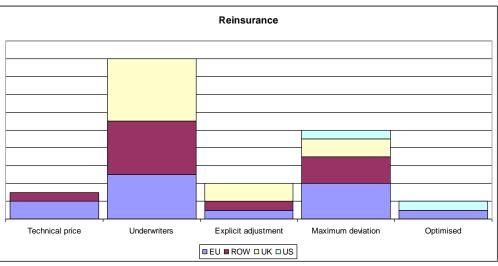


Technical to street price: Technical price, Underwriters, Explicit adjustment, maximum deviation, optimised

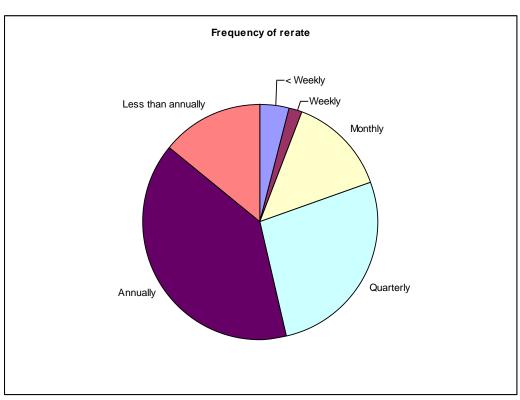


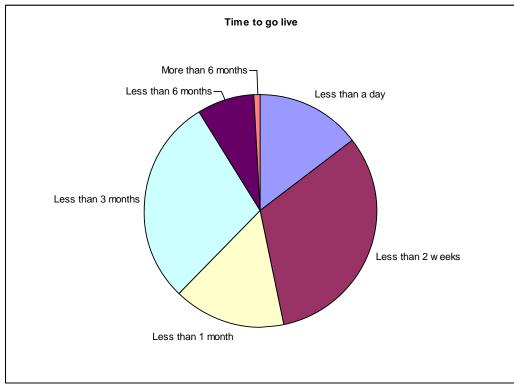




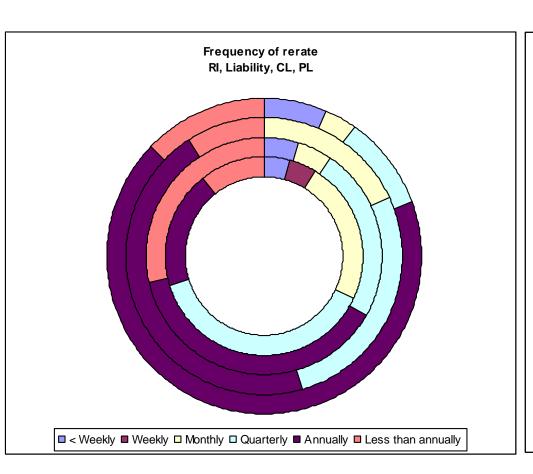


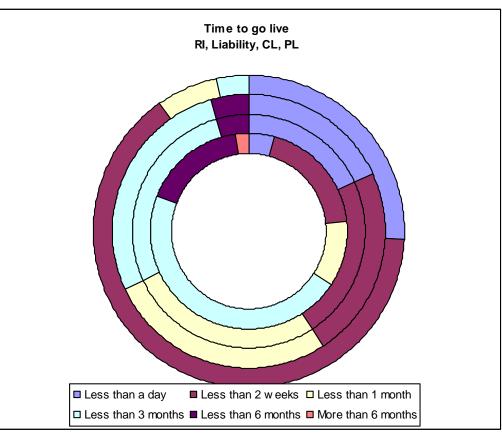
How often do you price, and how long to go live



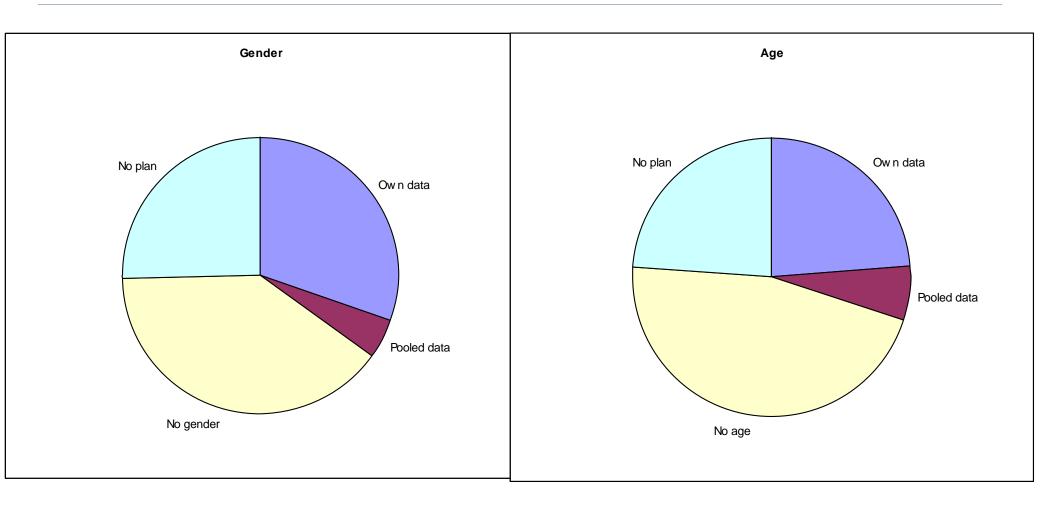


How often do you price, and how long to go live RI annual but quick, PL regular but slow

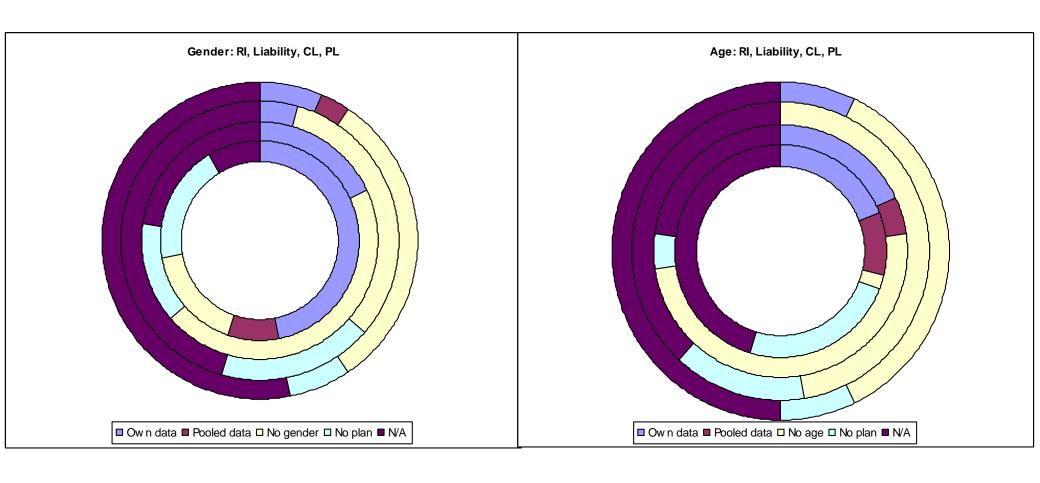




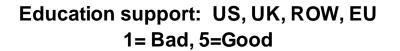
UK Gender and Age regulation

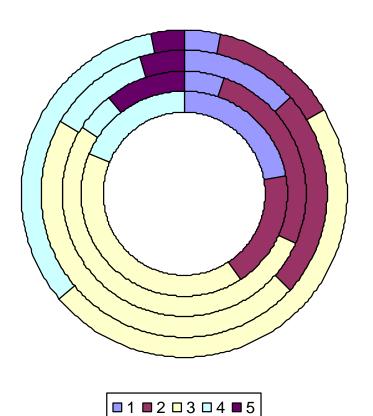


UK Gender and Age regulation PL uses own data more



US seem to lead in education





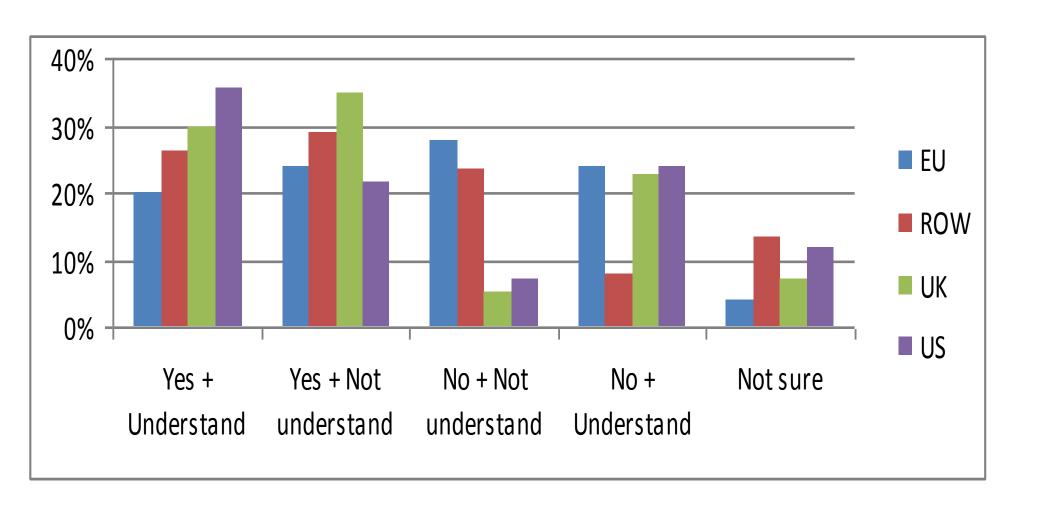
How can the professional organizations improve educational opportunities for pricing actuaries?

- Seminars (preferably webinars) that cover a detailed technical example
- More hands on training (e.g., computer lab sessions)
- Downloadable spreadsheets that work through a particular method/ approach
- Publication of a pricing handbook
- More information on methods that are being used overseas
- Sessions at (CAS) meetings tend not to be balanced (too focused or too general) and are too short.

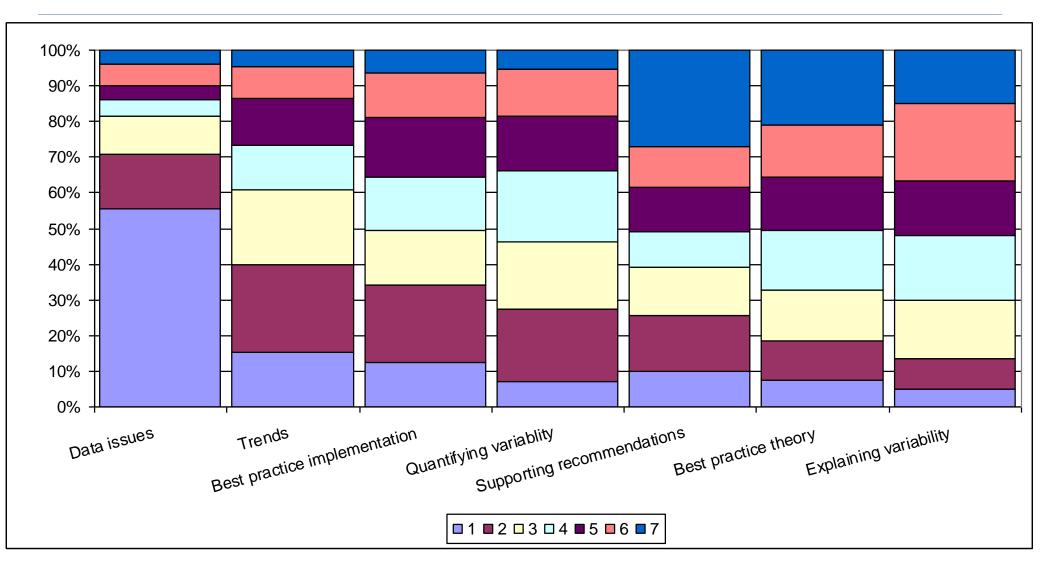
What is the role of various members in producing the pricing deliverable?

- Underwriters Leads Process (UK-26%, US-10%)
- Statisticians Core Member or Leads Process (approximately 20% globally)
- Senior Mgmt Core Members or Leads Process (UK-29%, US-45%)
- Brokers No Involvement (UK-45%, US-58%)
- Actuarial Consultants No Involvement (UK-79%, US-59%)

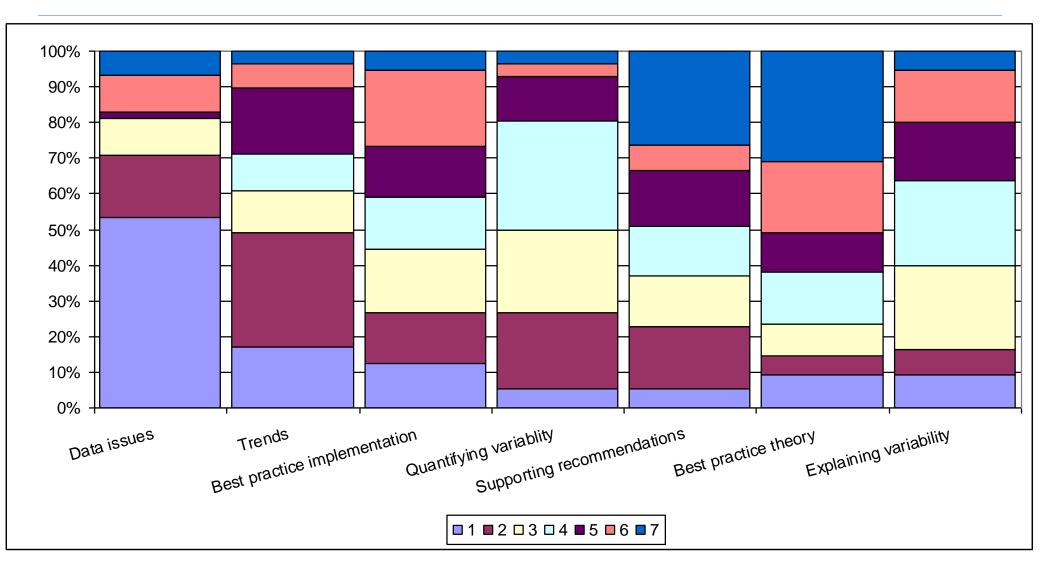
Do you believe that the price monitoring process at your company/client is sufficiently robust and reasonable enough for the intended purpose and the clients/senior management have sufficient understanding of the uncertainty inherent in the results?



Major challenges: 1 = most important Global view



Major challenges: 1 = most important UK view



Next steps

- Full survey will be analysed, sliced, diced and write-in responses analysed
- Long report written up and published
- Further presentations booked
 - CAS Annual meeting
 - CAS RPM Seminar
- Further presentations considered:
 - Staple Inn
 - UK Pricing Seminar