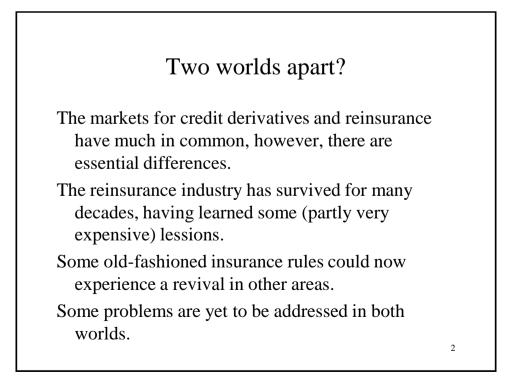
GIRO Conference, Brussels, September 2012

The Financial Crisis – Risk Transfer, Insurance Layers, and (no?) Reinsurance Culture

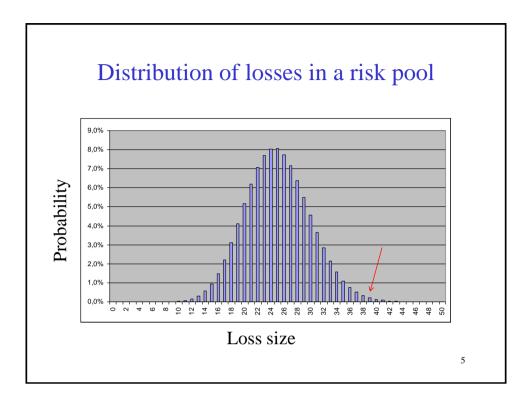
Michael Fackler

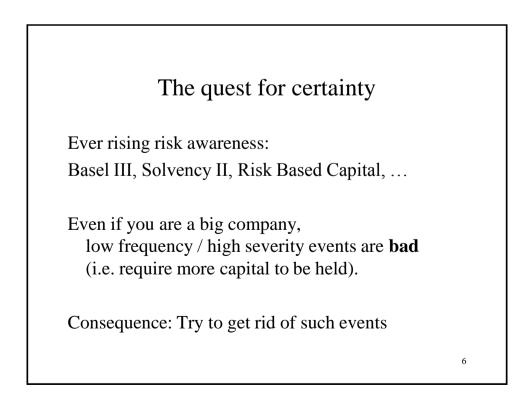
freelance actuary Munich (Germany)









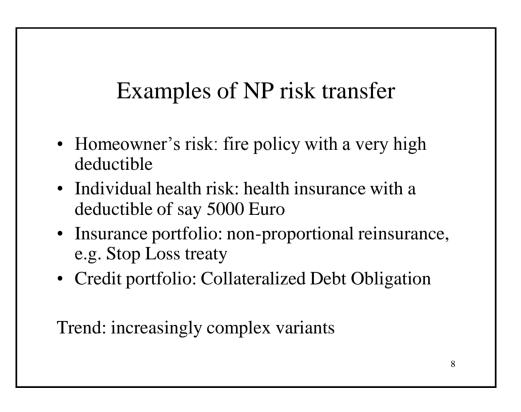


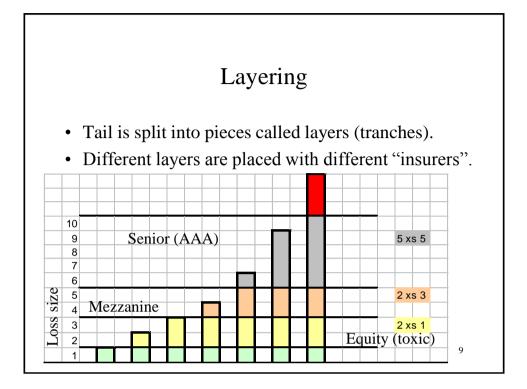
Idea

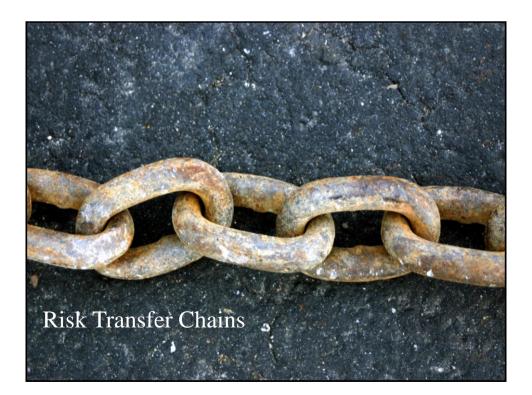
Determine the maximum tolerable loss and transfer losses exceeding it to someone else:

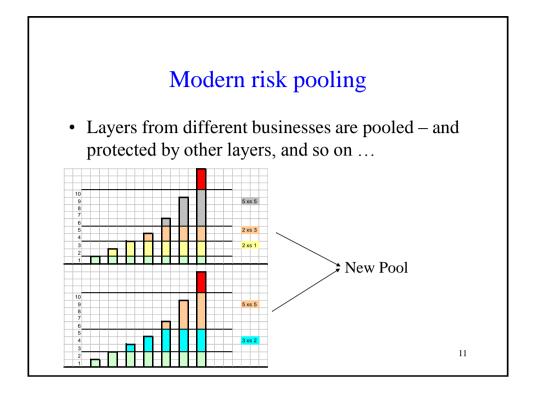
You pay a fee – they take the excess risk.

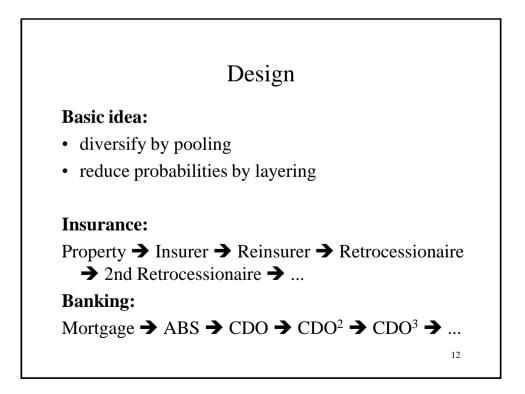
This is called: non-proportional risk transfer

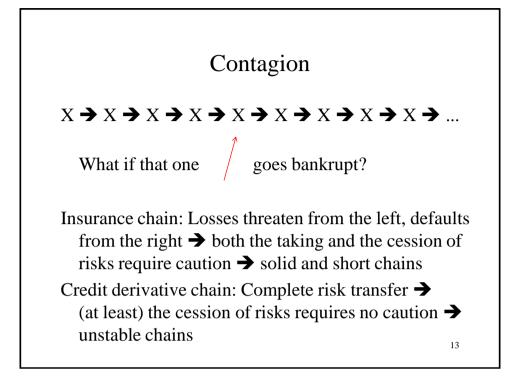


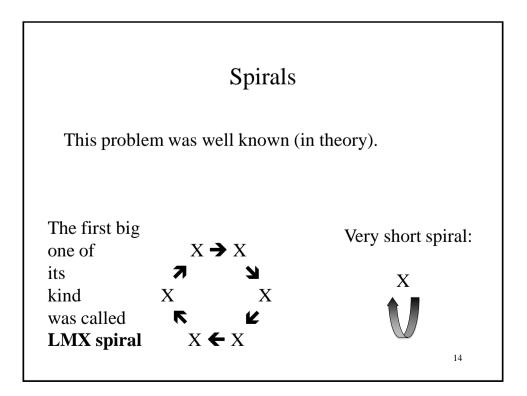


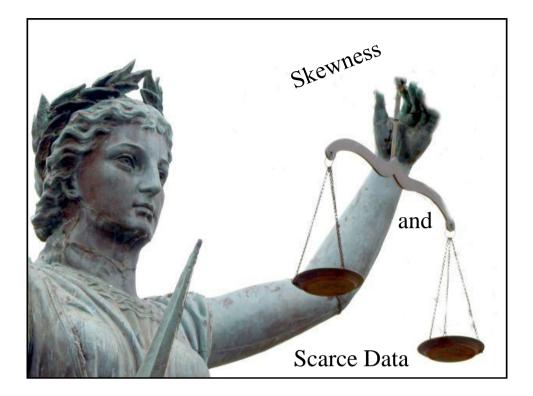


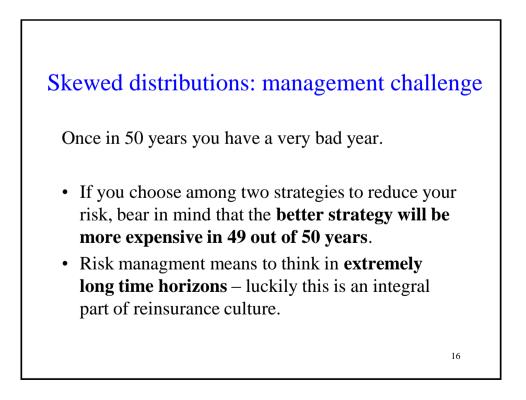


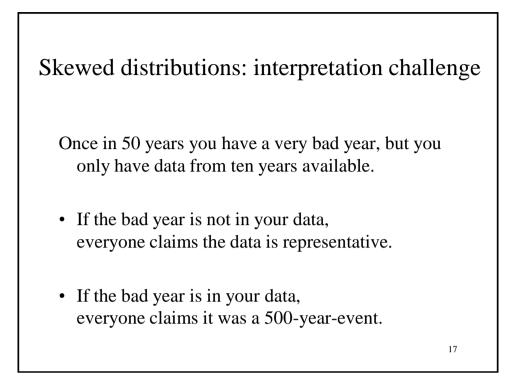


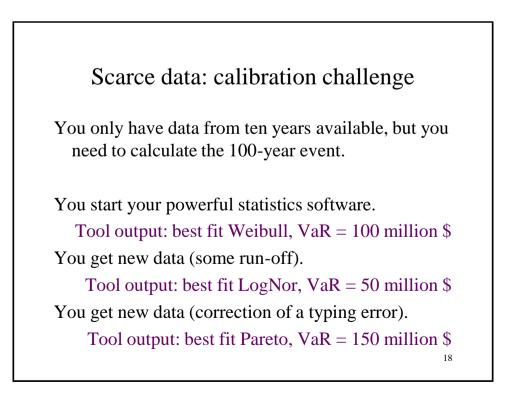








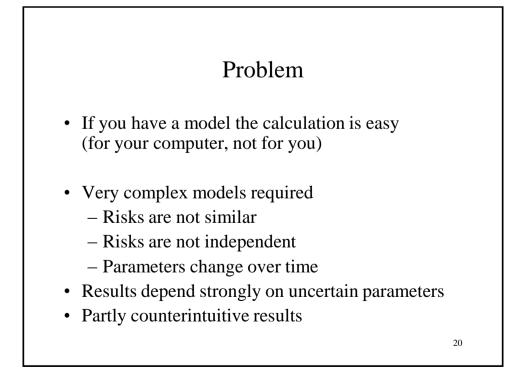




Consequences

- A lot of new ways to transfer risk,
- a lot of new analyses to be done,
- a lot of new calculations to be done,
- a lot of new jobs for quants,
- ...
- a lot of things that can go wrong.



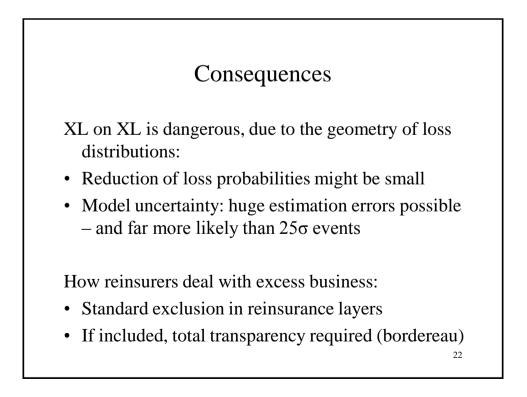


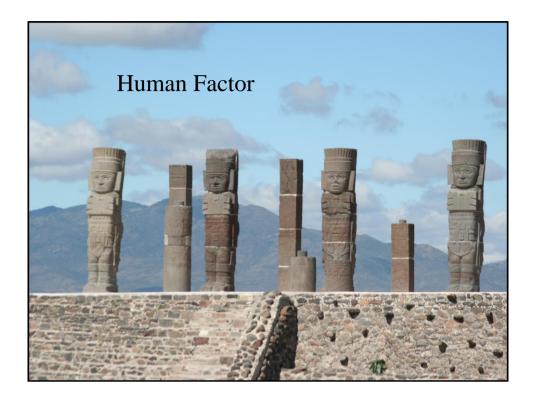
The big dilemma

- If you use simple models they might give you an **illusion** of certainty rather than describing reality.
- If you use complex models to cater for all uncertainties data will be insufficient for robust parameter estimation.

To reduce the volatility of your inference process you will need to employ exogeneous information, e.g. expert judgement.

This means you rely on a kind of **rating** – hopefully with some skepticism.





The usual game:

How certain uncertain deals come about

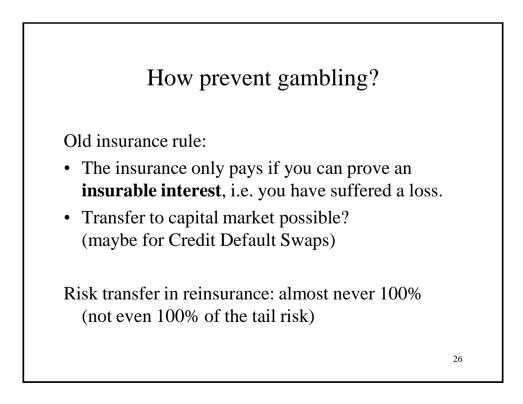
For a very uncertain deal there is always ...

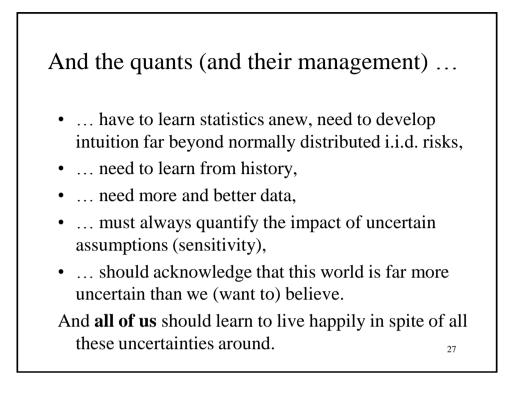
- not enough time to do it well,
- hectic activism,
- a market player (inadvertently) offering it at a too cheap price,
- others who hope that he/she is right and take a share in the deal.

The main problem ... is human, not mathematical

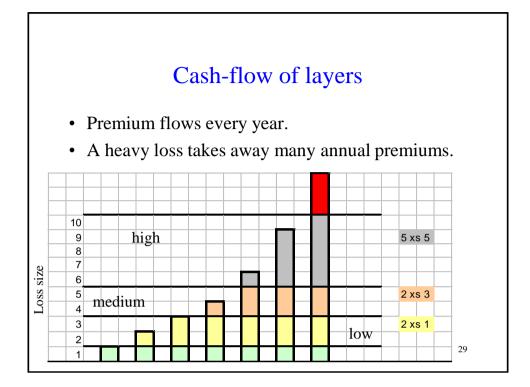
- People go with the crowd.
- Admitting uncertainty is uncool.
- If you take it into account this may affect your bonus or, even worse, the bonus of your boss / your colleagues.
- If you don't take it into account everyone around you will be happy.

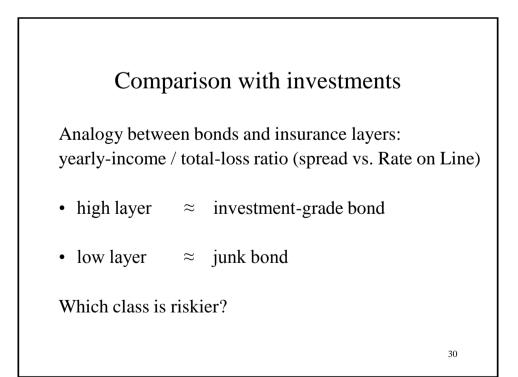
You almost certainly will get away with being very optimistic – if bad things occur everyone will agree it was unforeseeable.

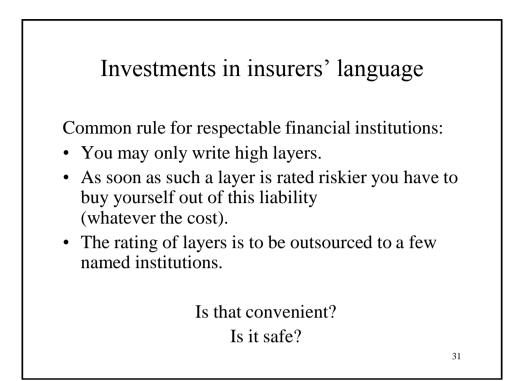


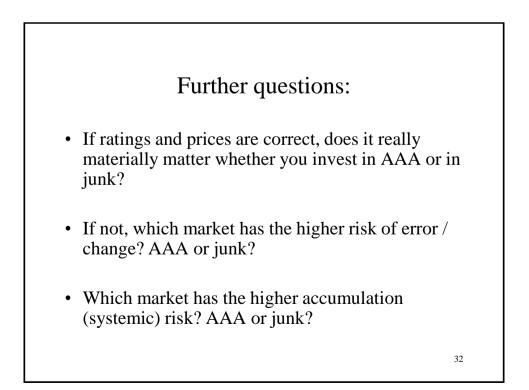












The End

Thanks for joining this talk.

Feedback welcome.

Paper about the topic (see Parallel Session 2): http://www.actuaries.org/ASTIN/Colloquia/Madrid/ programme.htm

michael_fackler@web.de