Open Source ICA Model

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Working party members

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Where we…

- ...came from
- …are
- …would like to go

"Harness collective intelligence"

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Where we **came from**

- Toolkit working party, proposed a "manifesto"
  - Pick the best tool for the job
  - Search out and use prior art
  - If you find a useful tool, post it and tell the world
  - Harness Collective Intelligence
  - We need a new relationship with IT

"Pick the best tool for the job"   The Actuarial Profession
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Where we **came from**

- They raised some problems with working parties
  - Based on "Closed source" models
  - Restricted to what members' companies have
  - Don't pass on collective intelligence
  - Hard to work with academia
  - Don't always focus on tools in the toolkit
- So…
- …we set out to build an open source model

"Search out and use prior art"   The Actuarial Profession
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Where we **are**

- Pick the best tool for the job
  - We looked at lots (excel, R, Java, C++)
- Search out and use Prior Art
  - GUIs – all there
  - XML – for data structures
  - R for graphing and distributions
- If you find a useful tool, post it and tell the World
  - http://icamodel.pbwiki.com

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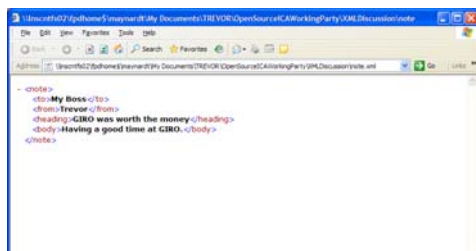   making financial sense of the future

XML

- XML stands for eXtensible Markup Language.

- XML is designed to **describe** data and…
…. to focus on what data is.

- Equivalent to a "ragged array"

- Why is it "new"…
…..because memory is not an issue any more

http://www.w3schools.com/xml

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XML

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XML

- You can save excel files in XML format….
…. http://msdn2.microsoft.com/en-us/library/aa140062(office.10).aspx

- Click to more complex example….
…. E:\consult\actuaries\ICAmodel\geodata.xml

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Where we **are**

- Harness collective intelligence
  - Web-ex with US involvement
  - Enabler for other working parties
- We need a new relationship with IT
  - Some of us tried and failed
  - Own laptop is a solution
  - Its still a big problem

"If you find a useful tool…"

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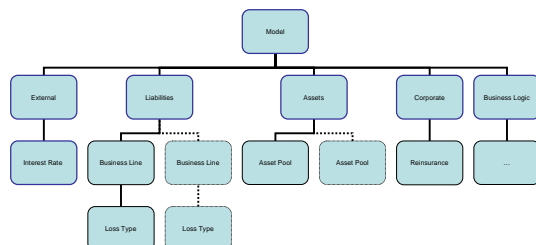making financial sense of the future

Where we **are**

- Simple DFA model created
- Using Java as main language;
- Using R as supplementary language
- Based on XML parameter schema

"…post it and tell the world"

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Where we **are**

"We need a new relationship with IT"

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Where we **are**

"Search out and use prior art"

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Where we **would like to go**

- Model available…
- Team keen to put it to use…
… any takers?
  - Obligatory disclaimer: Use at your own risk. We make absolutely no warranty as to its fitness for any purpose whatsoever. At the moment you'd be mad to use it for anything remotely commercial.
- Over to you, and you and you…
  - Develop as you see fit
  - But share code with all
  - See http://icamodel.pbwiki.com
  - See also http://sourceforge.net/projects/icamodel/

"…post it and tell the world"

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The Toolkit Manifesto

- Pick the best tool for the job
- Search out and use Prior Art
- If you find a useful tool, post it and tell the World
- Harness collective intelligence
- We need a new relationship with IT