IBM Innovation 09

Shared Architecture Modelling in a Large Enterprise

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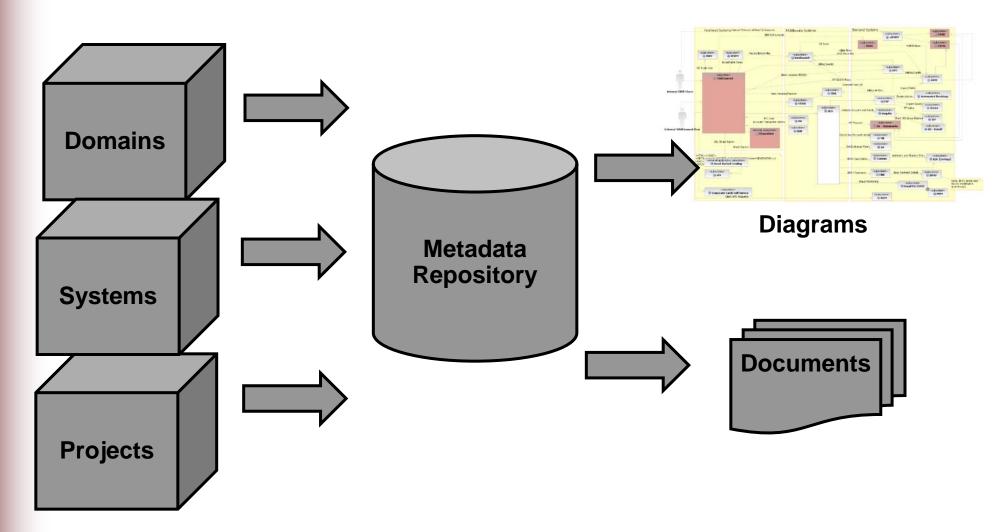
Intro

- Presenter Donne Carter
- IT at NAB for 13 years. Currently Solution Architect
- Working for Tech Service Hub
- In 2007 we had;
 - Complex Architecture
 - High investment spend
 - Low reuse
 - Disparate repositories
 - Multiple diagramming tools
 - No diagramming standard
 - High reliance on SMEs
- Enter, the Shared Architecture Model...

Agenda – Shared Architecture Model

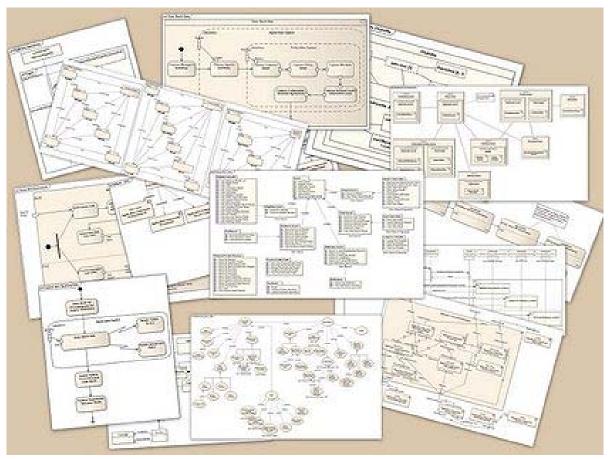
- What is it?
- What has NAB achieved?
- Benefits
- Future Aspirations
- Tips for success

What is it?



- Shared & Central
- Enterprise Wide
- Has levels of abstraction

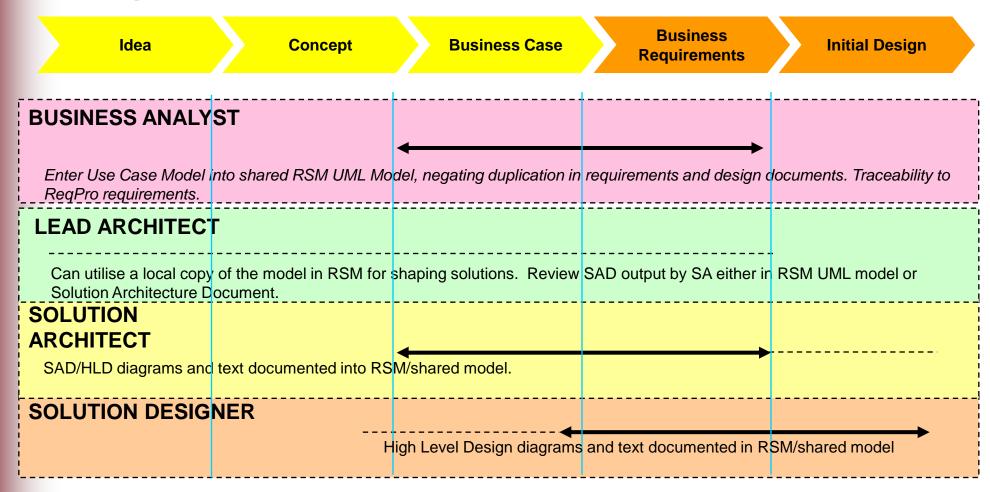
UML – Unified Modelling Language



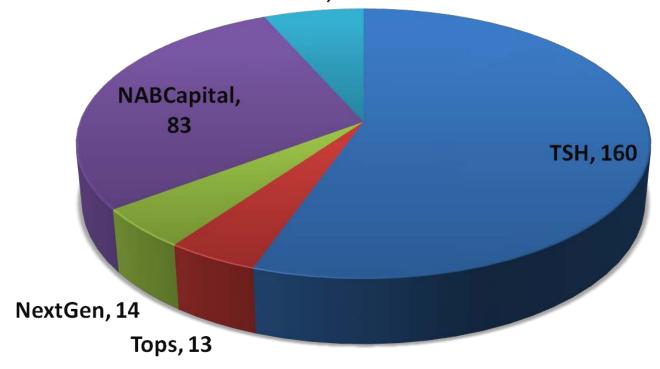
A collage of UML diagrams from Wikipedia

- Using RSM IBM Rational Software Modeller
- UCM Unified Change Management
- IBM Rational Clearcase

Who updates the shared model?



- What is in the model?
 - 20 + Projects
 - 50 + Component Models
 - 289 Systems at domain level: External, 19



A quick demonstration

- Context diagram
- Search/Explore in browse
- Component Model
- Use Case diagram
- Sequence diagram
- Communication diagram
- Other diagrams available
- Wiki generation
- Document generation
- Service chain mapping
- Data Entities

What has NAB Achieved?

Modelling Workgroup Established

Our Vision is to have;

- A quick, common, effective method for finding architecture information and for generating architecture (4+1) views for domains, systems and projects.
- A central repository of diagrams and metadata describing the TSH and the NAB's architecture.

What has NAB Achieved (cont)

Governance Meetings

- Review
- Manage delivery and recommending baseline
- Ensure environment works
- Instructions
- Guidelines

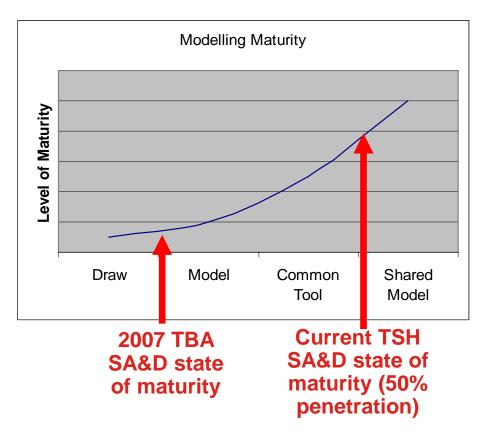
What has NAB Achieved (cont)

- Established Structure
- Baseline Content
- Training
- Regular Mentoring

What has NAB achieved (cont)

Level of Modelling Maturity;

- Draw Diagrams are drawn and re-drawn in any tool. Diagram descriptions are typed directly into documents
- Model Diagrams are drawn into a modelling tool. Descriptions and relationships between components on the diagrams are stored as data in the model for later analysis and reuse. Future diagrams using those components inherit the relationships already defined.
- Common tool All diagrams are authored using the same modelling tool, reducing what SA/SDs have to learn, and what TSH have to support.
- Shared model Components, descriptions and relationships defined by one SA/SD can be reused by all other SA/SDs. Architecture and Design Is easily accessible by anyone with access.



Benefits

- Re-use
 - Diagrams
 - Designs
- Faster Delivery
- Less Mistakes
- Less Rework 10x rule
- Better Quality

Benefits (cont)

- Agility
- Maintainable
- Less SME reliance
- Analysis
- However
 - Long return on Investment
 - Requires prolonged discipline

Future Aspirations

- BA contribution trial in progress
- Traceability
- Expand to
 - Wealth
 - Infrastructure
 - Corporate/Wholesale

Tips for success

- Fund the Governance
- Choose passionate people
- Support the environment
- Establish the Structure
- Trial Projects
- Refine Structure and Document

Tips for success (cont)

- Train your people
- Build time in your project plan
- Choose the right projects
- First projects in retrospect
- Measure your success

