5.2 SBR System and information technology requirements

Australian experience

Capability Architecture
Capability Architecture

- Involves end to end mapping of BRU processes
- Important tool to understand full extent of BRU processes, dependencies, relationships and data transformations
- Use Enterprise Architect (Sparx) software: a visual modelling and design tool

Business Process Mapping (BPM)
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Business Process Mapping (BPM)
- Concept of role based lanes/pools- not team or individual based
- For example, in any given process map sign off of quality gates falls in the ‘Governance’ lane/pool as opposed to a manager in a specific team
- Promotes consistency and coherence across business process maps

Business Process Mapping (BPM)
- Enterprise Architect focuses on inputs and outputs of a business process
  - Inputs: data, systems, human resources and time
  - Outputs: successful creation of Common Frame, survey frames, etc.
Evolution of ABS SBR System

• Previously used Inteframe (Fujitsu)
  – Object oriented database
  – Customised for ABS

• Moved to BRIMS in 2008
  – Relational (Oracle) database
  – Improved integration with other ABS systems
  – Improved IT support

BRIMS Architecture
Current ABS SBR Systems

- Business Register Information Management System
- SAS
- SQL Developer
- Information Data Warehouse
- Microsoft Excel

Some of the features of ABS SBR System

- Snapshots of:
  - Live register (BRIMS): Monthly
  - Common frame: Quarterly
- Key linking variable: Australian Business Number (ABN)
- Survey area access to BRIMS
Functionality requirements

- Data Security!
- Accommodates units model complexity
- Integration of multiple sources of data
  - Unique identifier
  - Avoidance of data duplication
- Data versioning / history
- Capacity (storage; processing)
- Archiving

Functionality Requirements (cont.)

- Metadata driven systems
  - Coherence
  - Standards & Classifications evolution
- Interaction with provider management systems/feedback loops
- Geospatial data
- Visualisation
- Analytical capabilities
Other considerations

• Data updates
  – Change file or full reload?
• Timetables
  – scheduling of jobs?
  – Concurrent/sequential processes?
• Staff roles

Future directions?
Discussion points

- What is the relationship between your IT division and SBR team?

- What are the upstream/downstream data formats required?