Sustaining repositories and middleware

Tom Ruthven
APSR Executive Officer
Threads to sustainability

- Objects and data
- The experience
- The business
Threads to sustainability

- Objects and data
  - Choice
  - Integrity
  - Preservation
- The experience
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- The experience

- The business
  - Global Format Registry
  - Conversion to standard formats
  - Metadata extraction tools
  - “Preservation needed” notification
Threads to sustainability

- Objects and data
- The experience
  - Intellectual content
  - Delivering now
  - Delivering later
- The business
Threads to sustainability

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Threads to sustainability

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Migration vs emulation
Faithfulness
Threads to sustainability

- Objects and data
- The experience
- The business
  - Ownership
  - Attracting contributors
  - Ongoing support

- Making life easy
- By-product or integrated
- Authorising update
Threads to sustainability

- Objects and data
- The experience
- The business
  - Ownership
  - Attracting contributors
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- Core business
- Essential tool
- Valued service
APSR program

Digital Sustainability
- Data and objects
- Delivery and access
- Business models

National Services Program
- Expertise network
- Sector-wide services
- Discussion forums
- Activity maps

International Linkages Program
- Standards
- Rights
- Middleware
- Data grids

Other projects

www.apsr.edu.au
University of Sydney testbed

- A distributed repository model to develop:
  - protocols for the continuity of large complex multi-format/media repositories
  - middleware and tools that enable sustainability, growth and functionality
University of Sydney testbed

- GIS digitiser
  - Contextualise with maps
  - From PARADISEC to location of language group
  - Enables growth and functionality for sustainability
University of Queensland

- An integrated gateway to a range of repositories of research output to:
  - encourage better reporting of academic research outputs
  - facilitate access to information about Australian research
University of Queensland

- Tool to extract digital theses records and process them into the Public Knowledge Project’s OAI harvester gateway
  - One entry, multiple uses
  - Valued service
An open source repository infrastructure to address Australian university needs to manage digital assets, including:

- mechanisms to build effective partnerships with academics for the management of their digital assets
- participation in federation services
People of the Rivermouth

- Investigating generic processor before ingest into DSpace
- Use Cocoon for presentation pipeline
- Keeps material safely stored for future re-use
National services

- Provide the national teaching and research sector with:
  - technical advisory service
  - knowledge transfer and educational services
  - consultation and collaboration services
International linkages

- Participate and contribute to:
  - the development of international standards
  - selected international programs
- Maintain a technology watching brief across a wide range of international programs
Middleware and sustainability

- Separation of concerns into manageable chunks
- Skills transfer to researchers is functional
- Useable services help business sustainability
- Standards based
- Test against different repositories
- Inform structural development of repositories
More information

- **Newsletter**

- **Websites**
  www.apsr.edu.au
  www.library.uq.edu.au/escholarship
  Sorrt.library.usyd.edu.au
  info.anu.edu.au/doi/drs/index.asp