



Sustaining repositories and middleware

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Threads to sustainability

- Objects and data
- The experience
- The business



Threads to sustainability

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

Threads to sustainability

- Objects and data
 - ▶ Choice
 - ▶ Integrity -----┌ Data object consistency
 - └ Comparing different forms
 - ▶ Preservation
- The experience
- The business

Threads to sustainability

- Objects and data
 - ▶ Choice
 - ▶ Integrity
 - ▶ Preservation
 - ┌ Global Format Registry
 - ┌ Conversion to standard formats
 - ┌ Metadata extraction tools
 - ┌ “Preservation needed” notification
- The experience
- The business



Threads to sustainability

- Objects and data
- The experience
 - ▶ Intellectual content - - - - Migration on ingest
 - ▶ Delivering now
 - ▶ Delivering later
- The business



Threads to sustainability

- Objects and data
- The experience
 - ▶ Intellectual content
 - ▶ Delivering now -----┐ Multiple pathways
 - ▶ Delivering later -----┘ Open vs restricted
- The business

Threads to sustainability

- Objects and data
- The experience
 - ▶ Intellectual content
 - ▶ Delivering now
 - ▶ Delivering later-----┐ Migration vs emulation
 - └ Faithfulness
- The business

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 - Core business
 - ▶ Ongoing support - - - - - + 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



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

CYBRARY

eScholarship@UQ



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

CYBRARY

eScholarship@UQ



Australian National University

- 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

Australian National University

- 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**

www.apsr.edu.au/news/index.html

- **Websites**

www.apsr.edu.au

www.library.uq.edu.au/escholarship

Sorrt.library.usyd.edu.au

info.anu.edu.au/doi/drs/index.asp