Australian Partnership for Sustainable Repositories
(APSR)

CAUL 2007/2
Adelaide
21 September 2007
APSR Partners

The Australian National University
The University of Sydney
The University of Queensland
The National Library of Australia
The Australian Partnership for Advanced Computing

Supported by:

An Innovative Action Plan for the Future
The Systemic Infrastructure Initiative
APSR Activities
APSR Activities

- Development
- National Services
APSR Activities

- Development
- National Services
APSR Activities

- Development
- National Services

- Education
NATIONAL SERVICES

OUTREACH
- APSR Events
- Publications
- Newsletters
- Website
- Wiki/Blog

ORCA SUPPORT NETWORK
- Community Building
- Training
- Registry Development

REPOSITORY TECHNICAL SUPPORT
- DSpace
- Fez+Fedora

INTERNATIONAL LINKAGES
- Conferences
- Collaborations
- Standards Activities
APSR Events

Open Repositories
Establishing an IR Symposium
Successful Repositories
Adaptable Repositories
Market Day
RQF Explained
Long-lived Repositories
Long-lived Collections
eResearch Australasia
Etc…

Australian Partnership for Sustainable Repositories
www.apsr.edu.au
APSR Activities

- Development
  - Tools & Systems
  - Infrastructure for Digital Collections
- National Services
APSR Activities

Development

Tools & Systems

Infrastructure for Digital Collections

Repository Interoperability Framework

National Services
DEVELOPMENT

Tools & Systems

Infrastructure for Digital Collections

Collections Registry

Obsolescence Notification

Benchmark Statistics

Repository Interoperability Framework
DEVELOPMENT

Tools & Systems

Infrastructure for Digital Collections

Repository Interoperability Framework

Online Journals

Image Collections

Field Work Data

Word Processing

Geo-spatial

Online Conferences
DEVELOPMENT

Tools & Systems

Infrastructure for Digital Collections

Repository Interoperability Framework

Fez+Fedora Repository

FieldHelper

iSpheres
**Fez+Fedora**

**Aim:** To make it easier to use Fedora as part of an institutional repository service

Fez provides a front end for Fedora that
- enables the typical IR workflows
- allows easy modeling of scholarly content
- grants and controls access to digital assets
**Collection:** Queensland Country Towns

### Attached Files

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>MIMEType</th>
<th>Size</th>
<th>Downloads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ayr_702.tif</td>
<td>image/tiff</td>
<td>27.18MB</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**NOTE:** This record is not published.

**Title:** Ayr_702.tif

**Date of construction:** 2006-01-01

**Date photo taken:** 2006

**Date scanned:** 2006-10-26

**Publisher:** The University of Queensland Library

**Photographer(s):** Michael Kaniger

**Rights:** Research and private study only. Not to be reproduced without prior written permission.

**Access Statistics:** 0 Abstract Views, 0 File Downloads [Detailed Statistics]

**Created:** Wed, 26 Oct 2006, 23:02:22 EST by Christaan Kortekaas [Detailed History]
Fez+Fedora

On top of the Fedora framework, Fez offers

- **Dynamic** and easily **configurable** workflows and content models
- MODS and METS…
- Role-based authorisation
- Shibboleth authentication
- Powerful search index
- Preservation services (PREMIS, AONS)
Fez Technologies

Linux
Apache
MySQL
PHP
Fez Contributors

• University of Queensland (Australia)
• Colorado Alliance of Research Libraries ADR (USA)
• Ministry of Education and Research (Norway)
• Emory University (USA)
• Universidad Nacional de Educación, (Spain)
• NSDL Materials Digital Library (USA)
• Catalyst IT Ltd (NZ)
• FVT Servicios Telemáticos S.A. (Chile)

http://sourceforge.net/projects/fez
DEVELOPMENT

Tools & Systems
  Fez+Fedora Repository
  FieldHelper
  iSpheres

Infrastructure for Digital Collections

Repository Interoperability Framework
Field Helper

**Aim:** To make it easy for fieldwork researchers to provide the repository with richly marked-up data

**FieldHelper** is a simple desktop tool for:

- organising fieldwork files
- enriching them with metadata
- creating ingest packages for repositories
Software: http://acl.arts.usyd.edu.au/fieldhelper/
DEVELOPMENT

- Tools & Systems
- Infrastructure for Digital Collections
- Repository Interoperability Framework

- Collections Registry
  - Obsolescence Notification
  - Benchmark Statistics
Online Research Collections Australia (ORCA) Registry

- Exposing repository contents at the collection or aggregation level
- Exposing “grey internet”: databases, datasets, complex objects, collections…
- Collaboration between APAC, ANUSF, the institutional repositories, the NLA, ASSDA…
DEVELOPMENT

- Tools & Systems
- Infrastructure for Digital Collections
- Repository Interoperability Framework
  - Collections Registry
  - Obsolescence Notification
  - Benchmark Statistics
Automated Obsolescence Notification System (AONS)

**Aim:** To make collection managers aware of files in their collections that require preservation action
AONS

AONS is a loosely-coupled group of services to identify, notify, and evaluate the risk of file format obsolescence in large repositories that are

• Long-lived

• Heterogeneous

• Where creators are not responsible for stewardship

• Without options for preservation on ingest
DEVELOPMENT

Tools & Systems

Infrastructure for Digital Collections

Repository Interoperability Framework

- Online Journals
- Image Collections
- Field Work Data
- Word Processing
- Geo-spatial
- Online Conferences
Repository Interoperability Framework

Aims:

- To integrate the business of the repository with the business of scholarship
- To enable meaningful cross repository workflows
Bidwern

Community home page

Bidwern is an ARC eResearch project developing processes and tools to manage digital data associated with multidisciplinary projects.

A pilot project (through 2006) collected visual and audio resources from social and physical scientists working with Indigenous communities on a major land management project across the western Arnhem Land Plateau in order to demonstrate the utility of digital repositories.

Collections in this community

- **2005 Ecozones Workshop** [3]
  
  Digital recordings taken at the 2005 Ecozones Workshop, Kabulwarnamyo

- **Cartographic and GIS resources** [1]
  
  Cartography and GIS data generated for the Bidwern Project

Sub-communities within this community

- **Bidwern Investigators** [4]
  
  Archive of Bidwern Project related documents and files
Etc

Word Processors

Music Albums

Conference

Image Albums

Field work

Journal Editing

E-press, research reporting, maps, Sakai….
According to the OAIS Reference Model

Dissemination: Repository \( \rightarrow \) XSLT (Manakin) \( \rightarrow \) e-Journal

e.g. Submission: OJS \( \rightarrow \) XML & Files \( \rightarrow \) METS SIP \( \rightarrow \) Repository
Repository Interoperability Framework

1. Scholarly workflows and genres
2. A community supported interchange profile
3. Repository submission service
4. Repository dissemination service
5. Repository API
Musing on the Partnership

An eclectic partnership funded to do outreach and development has resulted in:

- Cross-platform development
- Shared services
- Partnerships between library and e-science
- Highly collaborative activities
- National Education & Training Agenda