

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

```
graph TD; APSR[APSR Activities] --- Development[Development]; APSR --- NationalServices[National Services];
```

Development

National Services

APSR Activities

```
graph TD; APSR[APSR Activities] --- Development[Development]; APSR --- NationalServices[National Services];
```

Development

National Services

APSR Activities

```
graph TD; APSR[APSR Activities] --> Development[Development]; APSR --> NationalServices[National Services]; NationalServices --> Education[Education];
```

Development

National Services

Education

APSR Activities

```
graph TD; APSR[APSR Activities] --> Development[Development]; APSR --> NationalServices[National Services]; NationalServices --> Education[Education]; NationalServices --> Support[Support];
```

Development

National Services

Education

Support

APSR Activities

```
graph TD; APSR[APSR Activities] --> Development[Development]; APSR --> National[National Services]; National --> Education[Education]; National --> Support[Support]; National --> Linkages[Linkages];
```

Development

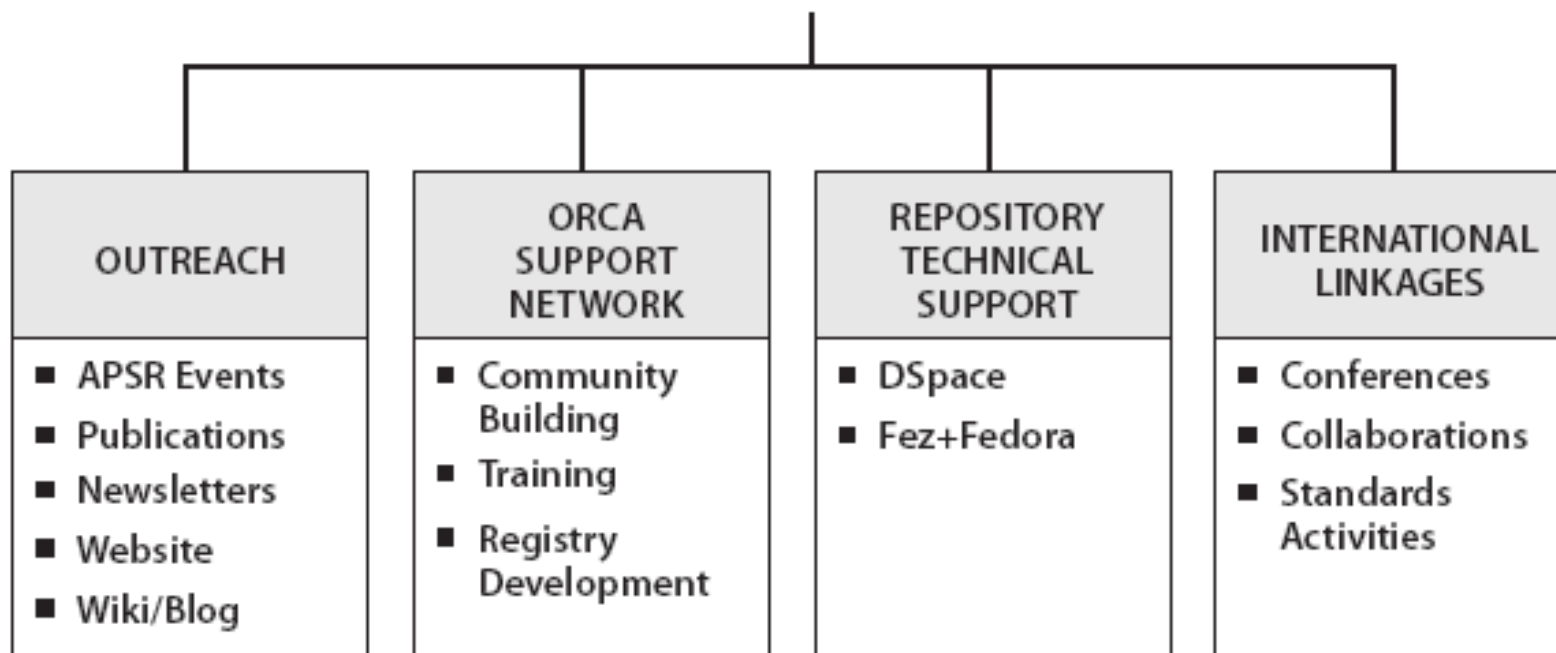
National Services

Education

Support

Linkages

NATIONAL SERVICES



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...



APSR Activities

Development

National Services

**Tools &
Systems**



APSR Activities

Development

National Services

**Tools &
Systems**

**Infrastructure
for Digital
Collections**



APSR Activities

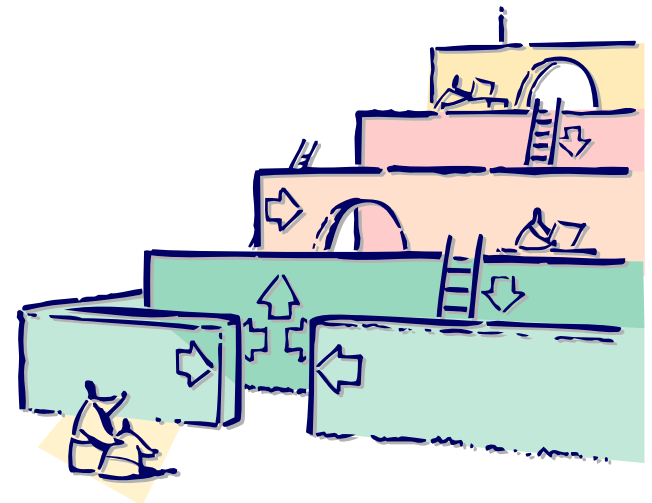
Development

National Services

**Tools &
Systems**

**Infrastructure
for Digital
Collections**

**Repository
Interoperability
Framework**



DEVELOPMENT

Tools & Systems

Infrastructure for Digital Collections

Repository Interoperability Framework

Fez+Fedora Repository

FieldHelper

iSpheres



DEVELOPMENT

Tools &
Systems

**Infrastructure for
Digital Collections**

Repository
Interoperability
Framework

Collections Registry

Obsolescence Notification

Benchmark Statistics



DEVELOPMENT

Tools &
Systems

Infrastructure for
Digital Collections

**Repository
Interoperability
Framework**

Online Journals

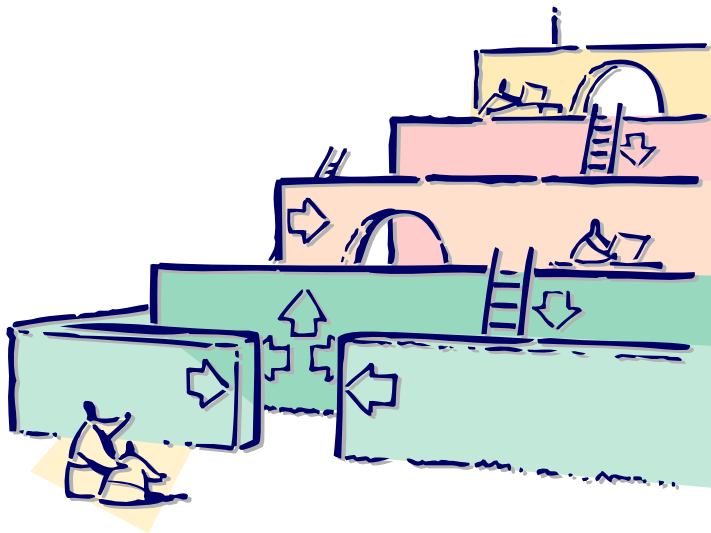
Image Collections

Field Work Data

Word Processing

Geo-spatial

Online Conferences



DEVELOPMENT

**Tools &
Systems**

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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





User: Christiaan Kortekaas

Update Selected Record - Generic - Preview

Workflow Progress:

View Digilib Image: [Ayr_702.tif](#)

Collection: [Queensland Country Towns](#)

Attached Files

Name	Description	MIMEType	Size	Downloads
Ayr_702.tif		image/tiff	27.18MB	0

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 Keniger
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, 25 Oct 2006, 23:02:22 EST by Christiaan Kortekaas [Detailed History](#)

Image Preview (click the image for a larger version)



* Required fields



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**

**Infrastructure for
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**Repository
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Fez+Fedora Repository

FieldHelper

iSpheres





FieldHelper



The
University
of Sydney



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



Project: <http://www.apsr.edu.au/fidas/index.htm>

Software: <http://acl.arts.usyd.edu.au/fieldhelper/>

FieldHelper

File Project Target Pane Output

Timeline: 27 29 31 2 Jan 4 6 8 10 12 14 16 18 20 22 24 26 28 30 1 3 5 7 9 11 13 15 17 19 21 23 25 27 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 2 4 Apr

Filter: clear filters show filtered only

dc:creator dc:subject dc:publisher dc:contributor dc:type dc:format dc:overage dc:rights

February 2007

6	7	8	9
7 IMG_3529.JPG 8 IMG_3541.JPG			

coastal landscape 27 6 13 14	Harbour 4 5	Flora 26 24 18 19 17
Fauna 1 20	Building 21 8	other 7 12 11 15 16

DEVELOPMENT

Tools &
Systems

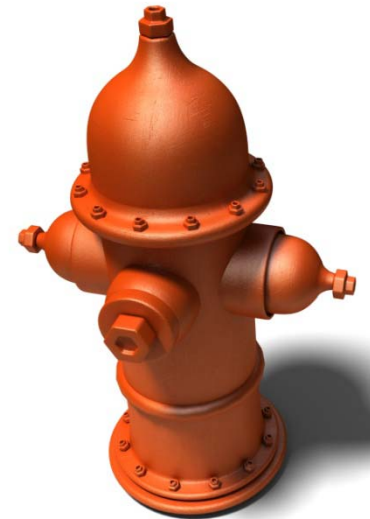
Infrastructure for
Digital Collections

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, data sets, complex objects, collections...
- Collaboration between APAC, ANUSF, the institutional repositories, the NLA, ASSDA...

DEVELOPMENT

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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



Project: www.apsr.edu.au/aons

DEVELOPMENT

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Online Journals

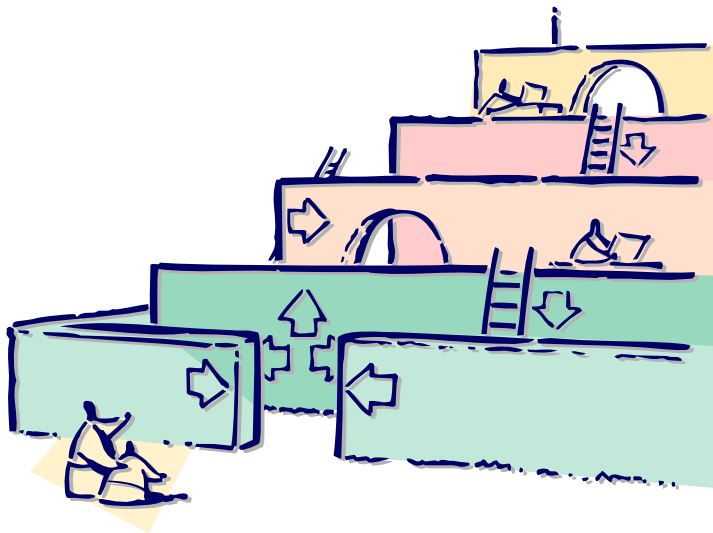
Image Collections

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

Search DSpace

[Advanced Search](#)[Home](#)**Browse**[Communities & Collections](#)[Titles](#)[Authors](#)[By Date](#)**Sign on to:**[Receive email updates](#)[My DSpace](#)
authorized users[Edit Profile](#)[Help](#)[About DSpace](#)[DSpace at The Australian National University](#) >

Bidwern

Community home page

In:

Search for

or browse

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

Logo

Recent Submissions

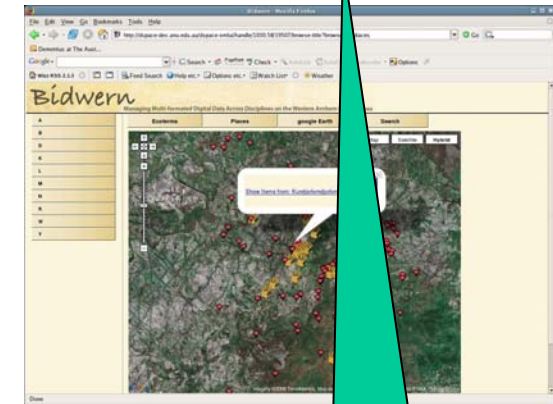
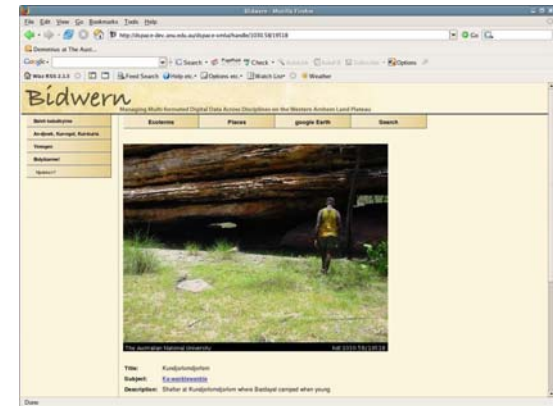
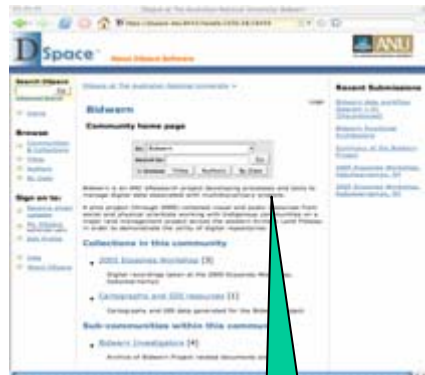
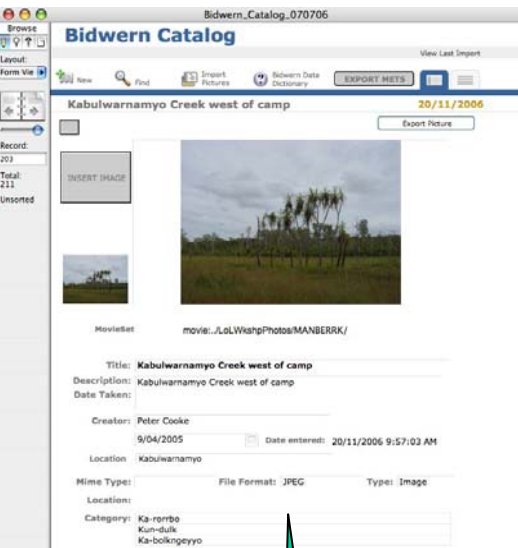
[Bidwern data workflow diagram v.01](#)
[Discontinued]

[Bidwern Functional Architecture](#)

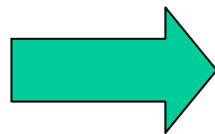
[Summary of the Bidwern Project](#)

[2005 Ecozones Workshop, Kabulwarnamyo, NT](#)

[2005 Ecozones Workshop, Kabulwarnamyo, NT](#)



Field Trip
Catalog



Repository



Complex
Collection

Sample Ice document DSpace at The Austral...

Humanities Research Journal

HOME ABOUT USER HOME SEARCH CURRENT ARCHIVES

Home > User > Journal Manager > Import/Export Data > DSpace Export Plug-in > Select Issue

Select Issue

ISSUE	PUBLISHED	NO. ARTICLES	ACTION
BIGOTRY AND RELIGION IN AUSTRALIA, 1865-1950	2006-06-12	11	EXPORT

1 - 1 of 1 items

[Export](#) [Select All](#)

OPEN JOURNAL SYSTEMS

Journal Help

USER

You are logged in as...

scoflyeason

- My Journals
- My Profile
- My Data

JOURNAL CONTENT

Search

Search

By Issue

- By Author
- By Title
- Other Journals

INFORMATION

- For Readers
- For Authors
- For Librarians

Sample Ice document DSpace at The Austral...

HUMANITIES RESEARCH

Vol. XII, No. 1, 2005

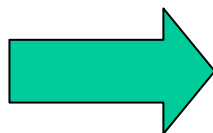
BIGOTRY AND RELIGION IN AUSTRALIA

1865 - 1950

Sample Ice document DSpace at The Austral...

Issue Date	Title	Author(s)
12-May-2006	A 'region of indecency and prurency': Religious conflict, female communities and health care in colonial New South Wales	Godden, Judith
12-May-2006	A 'successful experiment' no more? The Intensification of religious bigotry in eastern Australia, 1865-1885	Campbell, Malcolm
12-May-2006	Double Jeopardy: Catholic and Irish	O'Farrell, Patrick
12-May-2006	Interpreting Aboriginal religion: From nineteenth-century evolutionism to Durkheimian sociology	Kuklick, Henrika
12-May-2006	Introduction	Editor, Journal
4-Dec-2006	Journal Manifest	-
12-May-2006	List of Contributors	Manager, Journal
12-May-2006	Mutual conversion? the Methodist Church and the Yolngu, with particular reference to Yirrkala	Morphy, Howard
12-May-2006	Religion Matters: The Experience of Syrian and Lebanese Christians in Australia from the 1880s to 1947	Monsour, Anne
12-May-2006	Taking Away Joss: Chinese Religion and the Wesleyan Mission in Castlemaine, 1868	Penny, Benjamin

Journal Editing



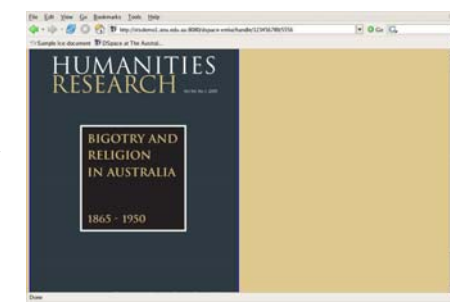
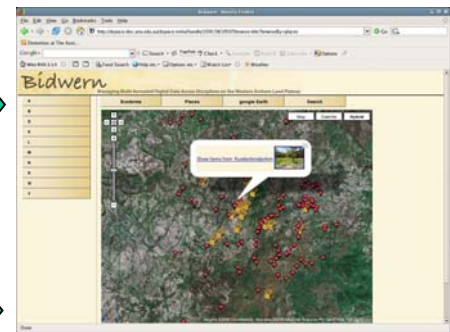
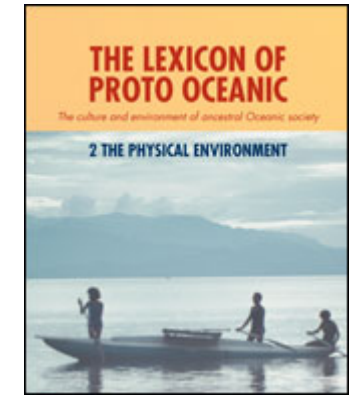
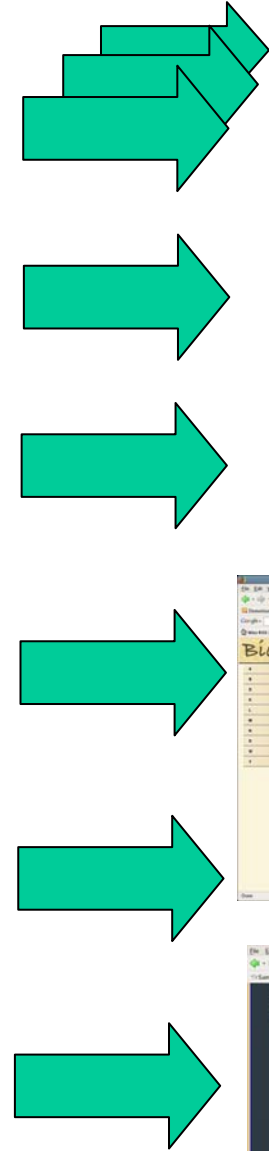
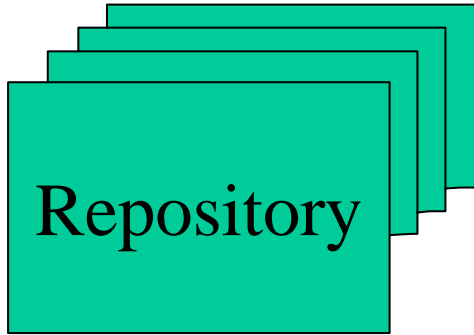
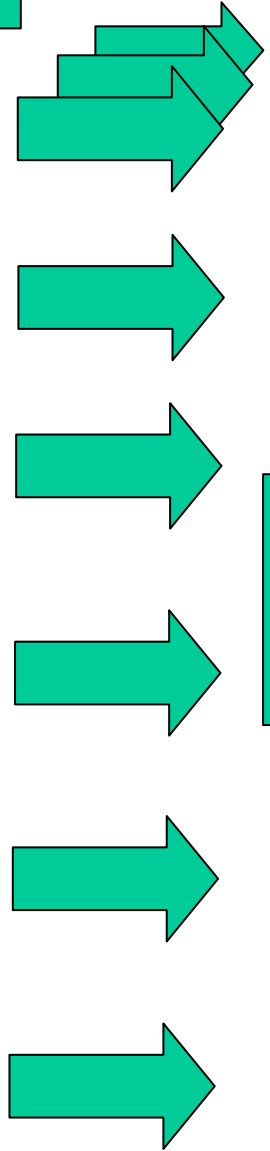
Repository

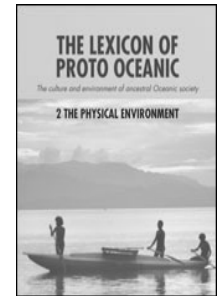
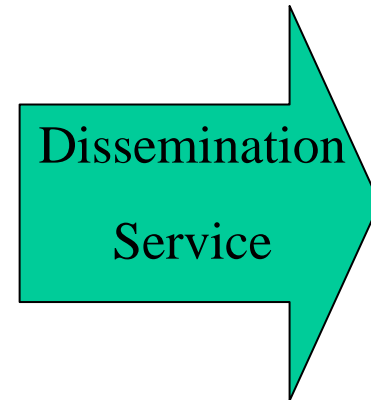
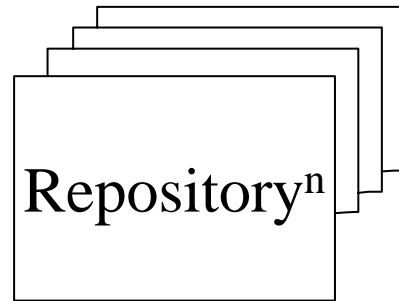
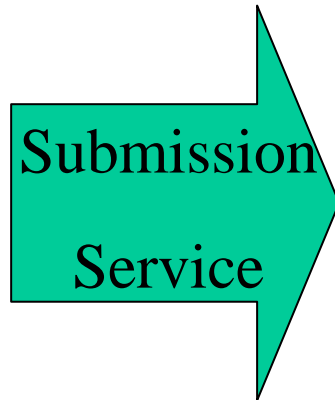


Complex Collection

- Etc
- Etc
- Word Processors
- Music Albums
- Conference
- Image Albums
- Field work
- Journal Editing

E-press, research reporting, maps, Sakai....

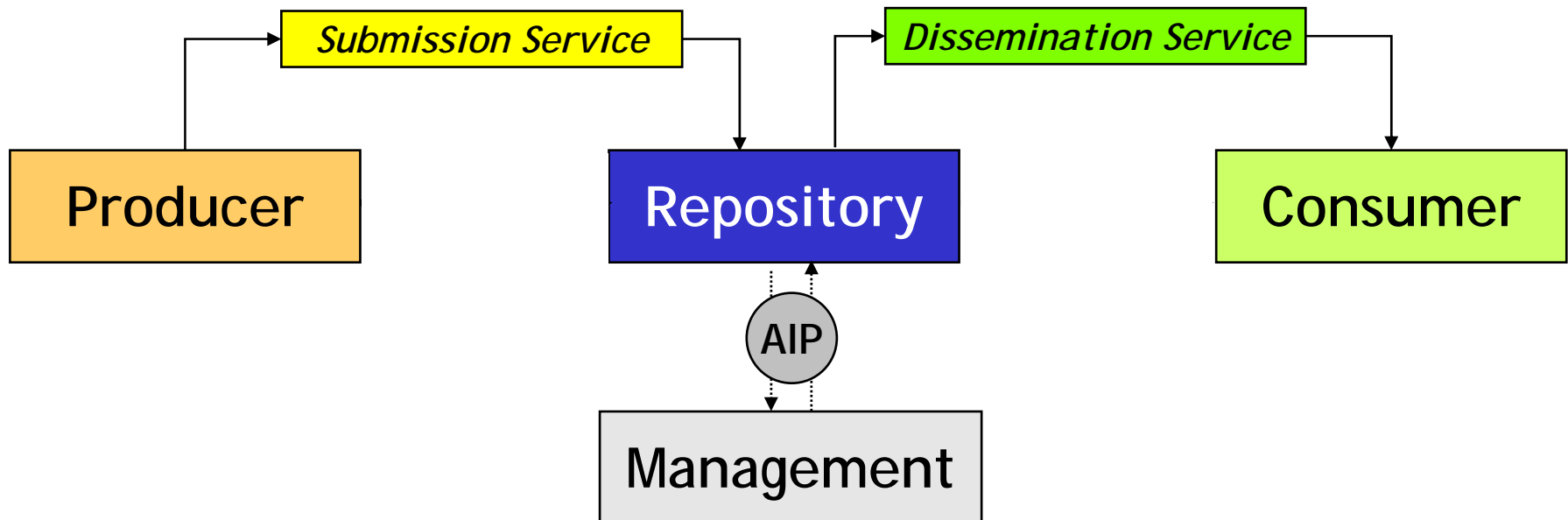




According to the OAIS Reference Model

Dissemination: Repository → XSLT (Manakin) → e-Journal

e.g. Submission: OJS → XML&Files → METS SIP → 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

www.apsr.edu.au