

to broaden awareness and understanding of Open Access

OPEN ACCESS WEEK



Open Access Archives and Repositories

A digital space to promote your scholarly work and open access policy

AU SPACE

Open Access Archives and Repositories

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The Digital Preservation Crisis

*“Information is being produced in **greater quantities** and with **greater frequency** than at any time in history. Electronic media, especially the Internet, make it possible for almost **anyone** to become a “publisher.” How will society **preserve** this information and **make it available** to future generations? How will libraries and other repositories classify this information so that their patrons can **find it** with the same ease that they can locate a book on a shelf?*

*The **ease** with which electronic information can be created and “published” makes much of what is available today, gone tomorrow. Thus there is an **urgent need** to preserve this information before it is forever lost.”*

(Source: National Digital Information Infrastructure and Preservation Program. <http://www.digitalpreservation.gov/>)

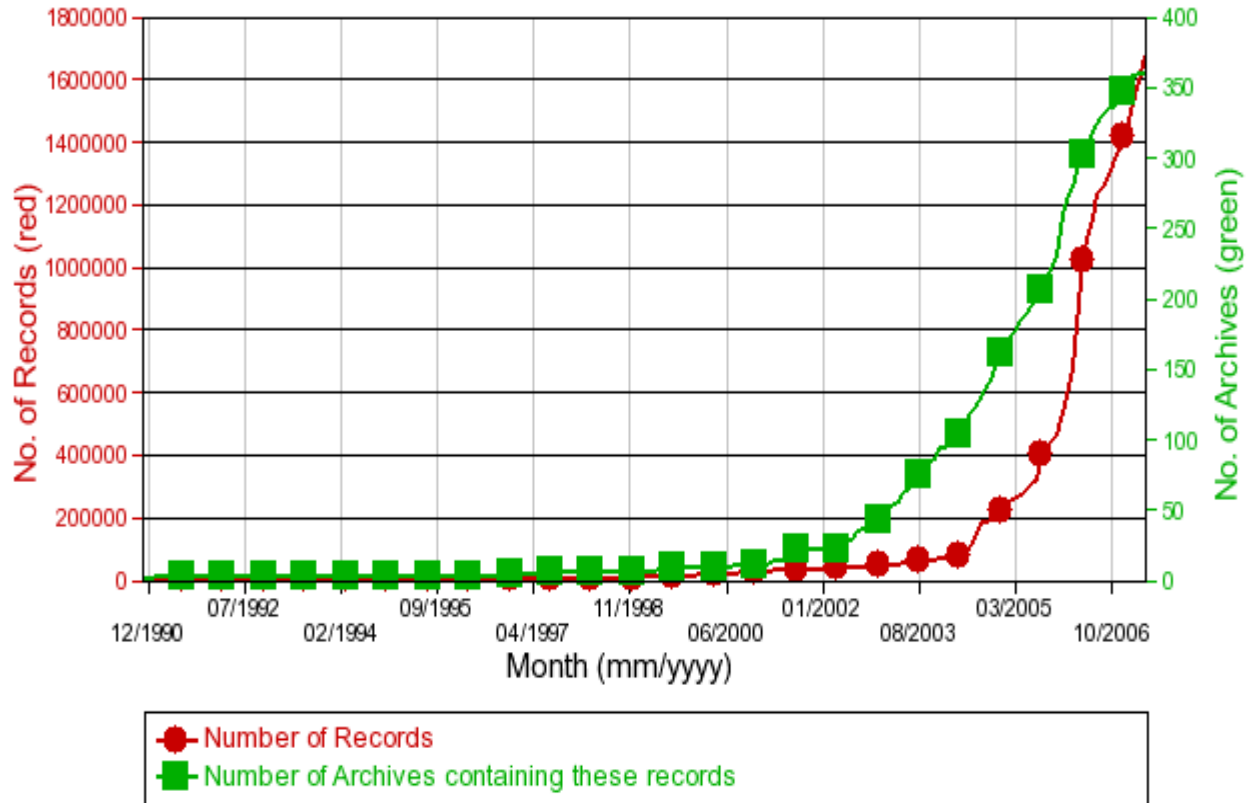


Meeting the Challenge: Building an IR

“ A set of **services** that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members.”

Clifford Lynch, ARL Bimonthly Report, No. 226

Growth of Institutional Repositories (IR)



Source: Institutional Archives Registry, 2007

IR – Attributes

- a web-based database (repository) of scholarly material
- institutionally defined (as opposed to a subject-based repository)
- cumulative and perpetual (a collection of record),
- open access and interoperable (e.g. using OAI-compliant software),
- part of the process of scholarly communication (collects, stores and disseminates research info)



Potential Uses

- Scholarly communication
- ePublishing/E-Portfolio
- Curriculum development
- Collection management
- Long-term preservation
- Knowledge management
- Support open access, open source and open standard

AU IR: AUSpace Goal/Objectives

- History:
 - Established in 2004
- Goal:
 - to address “crisis in scholarly publishing” & preserve AU scholarly materials
 - to actualize AU Open Access Research Policy
- Objectives:
 - institutional self-promotion
 - service to faculty in making research papers more widely available
 - opportunity for library staff to connect with research faculty,
 - integrate DSpace with library services
 - encourage [open access](#)

Url: <http://auspace.athabascau.ca>

AU Open Access Policy

- What is Open Access?
- Must satisfy two Conditions
 - Free access and license to copy and display in any digital medium
 - Scholarly work is deposited into a digital repository



Open Access
Research Policy
**Sharing your
research with
the world**

Athabasca University 
CANADA'S OPEN UNIVERSITY



AU Open Access Policy

- Conforms to international standards ([Budapest Initiative](#))
- Publish research concurrently in an open-access format
- Published/unpublished creative works are welcome
- Post previous published works for archive at AUspace



AU Open Access Policy

- Importance of Open Access
 - Unrestricted access to ideas & discoveries
 - Wider distribution to broadest audience
 - Increased citations
 - Long-term access to scholarly articles
 - Gives researchers more control of work
 - Lower cost for production of scholarly work
 - Granting Agencies ([CIHR](#), [SSHRC](#)) promote public access

Actualization of AU Open Access

A digital space to promote your scholarly work and open access policy

AU SPACE

Technologies: DSpace

- IR platform developed by MIT and Hewlett-Packard
- Open-source Java permits customization and collaboration with other institutions
- Implemented so far by 275 universities and technical libraries
- DSpace Federation:
 - Cambridge, Columbia, Cornell, MIT, ANU, Edinburgh, Calgary, Toronto, and Washington

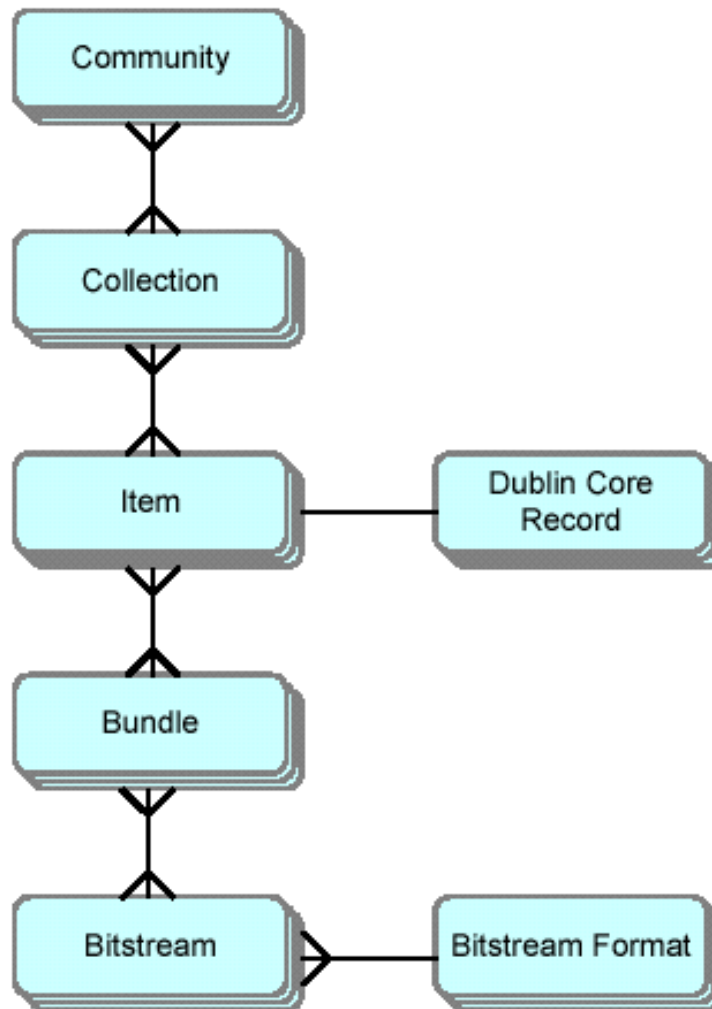




Technologies

- Modular architecture, well-defined APIs
- 100% open source
 - Programmed in java
 - RDBMS and SQL for metadata
- CNRI “handles” for persistent identifiers
- X.509 certificate-based access control (MIT)
- OAI-PMH for exposing metadata

Information Model





Core Features

- Digital content
- Community-driven & focused
- Institutionally supported
- Durable & permanent
- Accessible content
- Open URI linking
- FAQ Agent
- RSS feed



Core Functionality

- Material submission
- Metadata application
- Access control
- Discovery support (search)
- Distribution (subscribe, new additions)
- Preservation (self-archive)

Harvesters

- Google
 - Will find you
- OAI (Open Archives Initiative) Protocol for Metadata Harvesting
 - Dublin Core
 - Unique Identifier
 - CARL Harvester (DSpace Search)
 - AU Harvester

Possible AUSpace Content

- Articles
- Technical Reports
- Working Papers
- Conference Papers
- Research Centre Archives
- Lunch and Learn Materials
- Academic Research
- Student Projects
- E-theses
- E-Portfolio
- Images (visual, scientific, etc.)
- Audio/Video files
- Datasets (statistical, geospatial, scientific)
- Databases
- Course materials (archived)
- Learning Objects
- Supplementary Materials
- Digitized library Collections

DSpace does...

- **Captures**
 - Digital research material in any formats directly from creators
- **Describes**
 - Descriptive, technical, rights metadata
 - Assigns persistent identifiers
- **Distributes**
 - Searches metadata
 - Delivers via Web, with necessary access control
- **Preserves**
 - Large-scale, stable, managed long-term storage

Archiving Research

○ Choose target collection



The screenshot shows a progress bar at the top with seven steps: Describe, Describe, Describe, Upload, Verify, License, and Complete. The first 'Describe' step is highlighted in red. Below the progress bar, the heading is 'Submit: Choose Collection'. The text below reads: 'Select the collection you wish to submit an item to from the list below, then click "Next". ([More Help...](#))'. There is a dropdown menu labeled 'Collection' with 'Research Archive' selected. Below the dropdown are two buttons: 'Next >' and 'Cancel/Save'.

○ Select submission options



The screenshot shows a progress bar at the top with seven steps: Describe, Describe, Describe, Upload, Verify, License, and Complete. The first 'Describe' step is highlighted in red. Below the progress bar, the heading is 'Submit: Describe Your Item'. The text below reads: 'Please check the boxes next to the statements that apply to your submission. ([More Help...](#))'. There is a form with three checkboxes and their corresponding text: The item has more than one title, e.g. a translated title; The item has been published or publicly distributed before; The item consists of *more than one* file. Below the form are two buttons: 'Next >' and 'Cancel/Save'.

Archiving Research

- Fill in descriptive metadata

Describe **Describe** Describe Upload Verify License Complete

Submit: Describe Your Item

Enter the names of the authors of this item below.
Last name *First name(s) + "Jr"*
e.g. Smith *e.g. Donald Jr*

Authors

Enter the main title of the item.

Title

Enter the series and number assigned to this item by your community.
Series Name *Report or Paper No.*

Series/Report No.

If the item has any identification numbers or codes associated with it, please enter the types and the actual numbers or codes below.

- Add keywords, abstract + other info

Describe **Describe** **Describe** Upload Verify License Complete

Submit: Describe Your Item

Enter appropriate subject keywords or phrases below.

Subject Keywords

Enter the abstract of the item below.

Abstract

Archiving Research

○ Attach files to the submission



Submit: Upload a File


Document File: Choose

Please give a brief description of the contents of this file, for example "Main article", or "Experiment data readings."

File Description:

< Previous Next > Cancel/Save

○ Verify Submission




Submit: Verify Submission

Not quite there yet, but nearly!

Please spend a few minutes to examine what you've just submitted below. If anything is wrong, please go back and correct it by using the buttons next to the error, or by clicking on the progress bar at the top of the page. ([More Help...](#))

If everything is OK, please click the "Next" button at the bottom of the page.

○ Agree to the Licensing



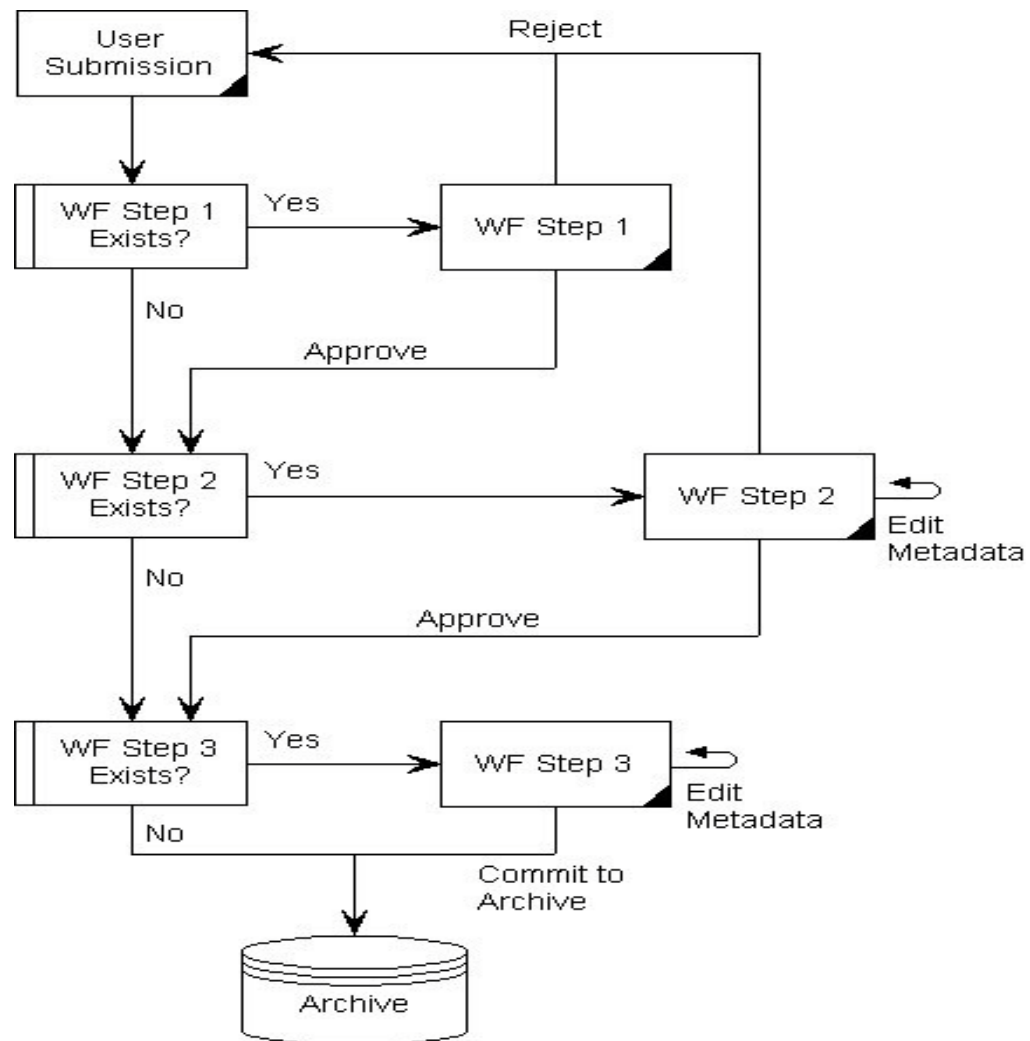
Submit: Grant DSpace Distribution License

There is one last step: In order for DSpace to reproduce, translate and distribute your submission agreement to the following terms is necessary. Please take a moment to read the terms of this license on one of the buttons at the bottom of the page. By clicking on the "Grant License" button, you ind grant the following terms of the license. ([More Help...](#))

I Grant the License

I Do Not Grant the License

Post-Submission Workflow



Performing Assigned Tasks

On accepting a task from the task pool, a number of options become available

Perform Task

Full metadata record

DC Field	Value	Language
contributor.author	Wilson, Will	-
date.issued	2004-02	-
language.iso	en	-
title	Modulation and De-Modulation methodologies	en
type	Thesis or Dissertation; Masters; Doctor of Dental Surgery (DDS)	-

Files in This Item:

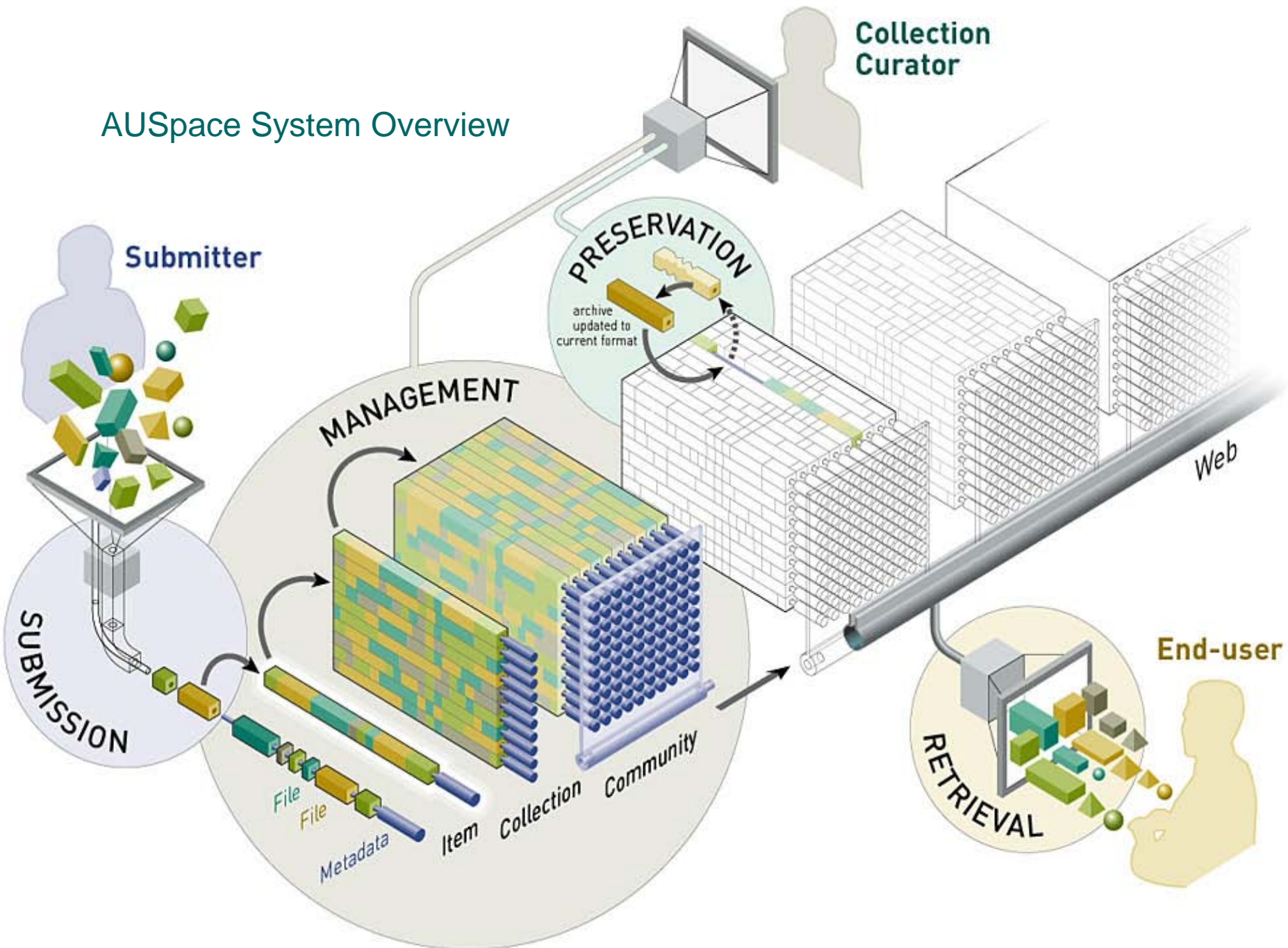
File	Size	Format	
Abstract_Syn.pdf	199Kb	Adobe PDF	View/Open

If you have reviewed the item and it is suitable for inclusion in the collection, select "Approve".	<input type="button" value="Approve"/>
If you have reviewed the item and found it is not suitable for inclusion in the collection, select "Reject". You will then be asked to enter a message indicating why the item is unsuitable, and whether the submitter should change something and re-submit.	<input type="button" value="Reject"/>
Select this option to correct, amend or otherwise edit the item's metadata.	<input type="button" value="Edit Metadata"/>
If you wish to leave this task for now, and return to your "My ERA", use this option.	<input type="button" value="Do Later"/>
To return the task to the pool so that another user can perform the task, use this option.	<input type="button" value="Return Task to Pool"/>

The Final Product

1997	<u>Machine Assisted Proofs for Generic Semantics to Compiler Transformation Correctness Theorems</u>	<i>Kahn , Saif U</i>
2004	<u>'Make Sure They Count Nicely This Time': The Politics of Election Observing in Zimbabwe</u>	<i>Rich Dorman, Sara</i>
2003	<u>MeCP2 Repression Goes Nonglobal</u>	<i>Klose, Robert; Bird, Adrian</i>
2003	<u>Mesozoic to Early Tertiary tectonic-sedimentary evolution of the Northern Neotethys Ocean: evidence from the Beyşehir-Hoyran-Hadim Nappes, S.W. Turkey.</u>	<i>Andrew, Theo</i>
2002	<u>Mobile Computation with Functions</u>	<i>Kiri, Zeliha D</i>
1994	<u>Model building in neural networks with hidden Markov models</u>	<i>Wynne-Jones, Michael</i>
2002	<u>Model Learning in Iconic Vision</u>	<i>Gomes, Herman M</i>
2004	<u>Modulation and De-Modulation methodologies</u>	<i>Wilson, Will</i>
2001	<u>Molecular biology - Methylation talk between histones and DNA</u>	<i>Bird, Adrian</i>
2004	<u>Motivation and Korean Learners</u>	<i>Jose, Sean</i>
1999	<u>Multiple scattering of classical waves: microscopy, mesoscopy, and diffusion</u>	<i>van Rossum, Mark; Nieuwenhuizen, Th. M.</i>

AUSpace System Overview



Current Status of AUSpace

The screenshot shows the AUSpace website interface. At the top, there is a navigation bar with links for HOME, HELP, SEARCH, AUTHORS, TITLES, DATES, COMMUNITIES, and MY AUSPACE (LOGIN). Below this is a header with the AUSpace logo and a search bar. The main content area is divided into several sections: a left sidebar with navigation options like BROWSE, SIGN ON TO, and ABOUT; a central welcome message; a search section; and a communities section. The welcome message states: "WELCOME TO AUSPACE. AUSpace contains publications, articles, books, datasets, learning objects, reports, videos, working papers and more. The role of this digital content re scholarly materials. We are currently using the new version of AUSpace which supports single s participate your login and password for AUSpace will be the same as when The collections and content in AUSpace can be browsed and searched. If y For information on using AUSpace to promote Athabasca University's Open Manager, Research Services. Please check if your publisher allows pre or post self-archiving of content a". The search section prompts the user to "Enter some text in the box below to search AUSpace." and includes a search input field and a "Go" button. The communities section lists several communities: Academic and Professional Development Fund (APDF) Awards, ARB Social Science Bibliography Project, AU Business Research Community, and AU DTPR.

- In operation for 5 years
- Have interested several centers and faculty in E-publishing, especially for
 - self archiving
 - E-portfolio
 - Knowledge management
 - Learning objects
- Currently house more 1337 items
- Faculty and researchers to use AUSpace for archiving and open access support

Conclusion



OA provides significant opportunities for both the author and users.

OA need not clash with traditional models of scholarly communication and publication.

Authors contribute their works for immediate discovery and access -- for debate, review, scholarship, and usage.

Users have immediate access to the most recently contributed works .

Some References

- **DSpace Federation:**
www.dspace.org
- **AUSpace**
<http://auspace.athabascau.ca>
- **AU Open Access Policy:**
<http://www.athabascau.ca/policy/research/openaccess.htm>
- **Berlin Declaration:** <http://oa.mpg.de/openaccess-berlin/berlindeclaration.html>
- **Budapest Open Access Initiative:**
<http://www.soros.org/openaccess>.
- **CIHR Open Access to Health Research Publications: CIHR Unveils New Policy** <http://www.cihr-irsc.gc.ca/e/34851.html>

Some References

- Morrison, H. and Waller, A. (2004) **Open Access: Basics and Benefits**, Library Association of Alberta
<http://ir.lib.sfu.ca/handle/1892/97>
- **SSHRC Policy Focus-Open Access**
http://www.sshrc.ca/web/about/policy_focus/open_access/index_e.asp

For Further Information

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<http://openaccess.athabascau.ca>