Successful Digital Repositories: Selecting an Institutional Repository Model

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Why Repositories?

Part 1

- Offer content **management** services
  - Submission, acquisition, ingest
  - Rights management
  - Discovery and access
  - Archiving
  - Record keeping and reporting
- Support **e-learning**

Why Repositories?

Part 2

- Provide **e-publishing** services
- Facilitate the **discovery** of institutional digital assets
- **Preserve** digital materials for the long term
- Encourage **open access** to scholarly research
  - Lower journal prices
- **Showcase** the institution's scholarly assets

Examples

DSpace Fedora

GreenStone ContentDM

Sakai DiVA

Digital Commons ePrints

ContentDM uPortal

DPubS Open Journal System

DSpace at Cornell University: Home - Microsoft Internet Explorer

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This Open Access Repository (OAR) is powered by DSpace and is open for anyone at Cornell University as a place to capture, store, index, preserve and redistribute Cornell faculty, staff, student or organizational research materials in digital formats.

Members of the Cornell Community, who wish to submit items to this OAR, must register with us.

If you would like to be notified when new items are submitted to a Community or Collection of interest to you, click on: Receive email updates.

Some of our collections are restricted to specific members of the Cornell Community. If you wish access to any of these restricted resources, please contact us at dspace-admin-l@cornell.edu.

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For information on protecting your rights to your intellectual property, go to www.arl.org/sparc/author/addendum.html.

For information on copyright management at Cornell University, go to

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Date of Issue	Title	Authors
1979	Allocation of Funds in Support of Collection Development in Public Libraries	*Bender, Ann*
1981	Collection development and management at Cornell : a concluding report on activities of the Cornell University Libraries' project for collection development and management, July 1979-June 1980, with proposals for future planning	*Miller, J. Gormly*
1979	Collection development and management at Cornell : an interim report on activities of the Cornell University Libraries' project for collection development and management, July 1977-June 1979 ; prepared under a grant from the Andrew W. Mellon Foundation	*Edelman, Hendrik; Hazen, Dan C.*

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Paper of the Day

Minimum Wage, Overtime Pay, and Child Labor: Inventory of Proposals in the 108th Congress to Amend the Fair Labor Standards Act
by William G. Whittaker
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arXiv.org e-Print archive - Microsoft Internet Explorer

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Subject search and browse: physics Search Form Interface Catchup

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- Condensed Matter (**cond-mat** new, recent, abs, find)
  includes: Disordered Systems and Neural Networks; Materials Science; Mesoscopic Systems and Quantum Hall Effect; Other; Soft Condensed Matter; Statistical Mechanics; Strongly Correlated Electrons; Superconductivity
- General Relativity and Quantum Cosmology (**gr-qc** new, recent, abs, find)
- High Energy Physics - Experiment (**hep-ex** new, recent, abs, find)
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Implementing a Repository Model

Part 1

- Conduct needs assessment with stakeholders
- Develop a service definition and identify use cases
- Complete a requirements analysis
- Create a service plan
- Outline a governance model

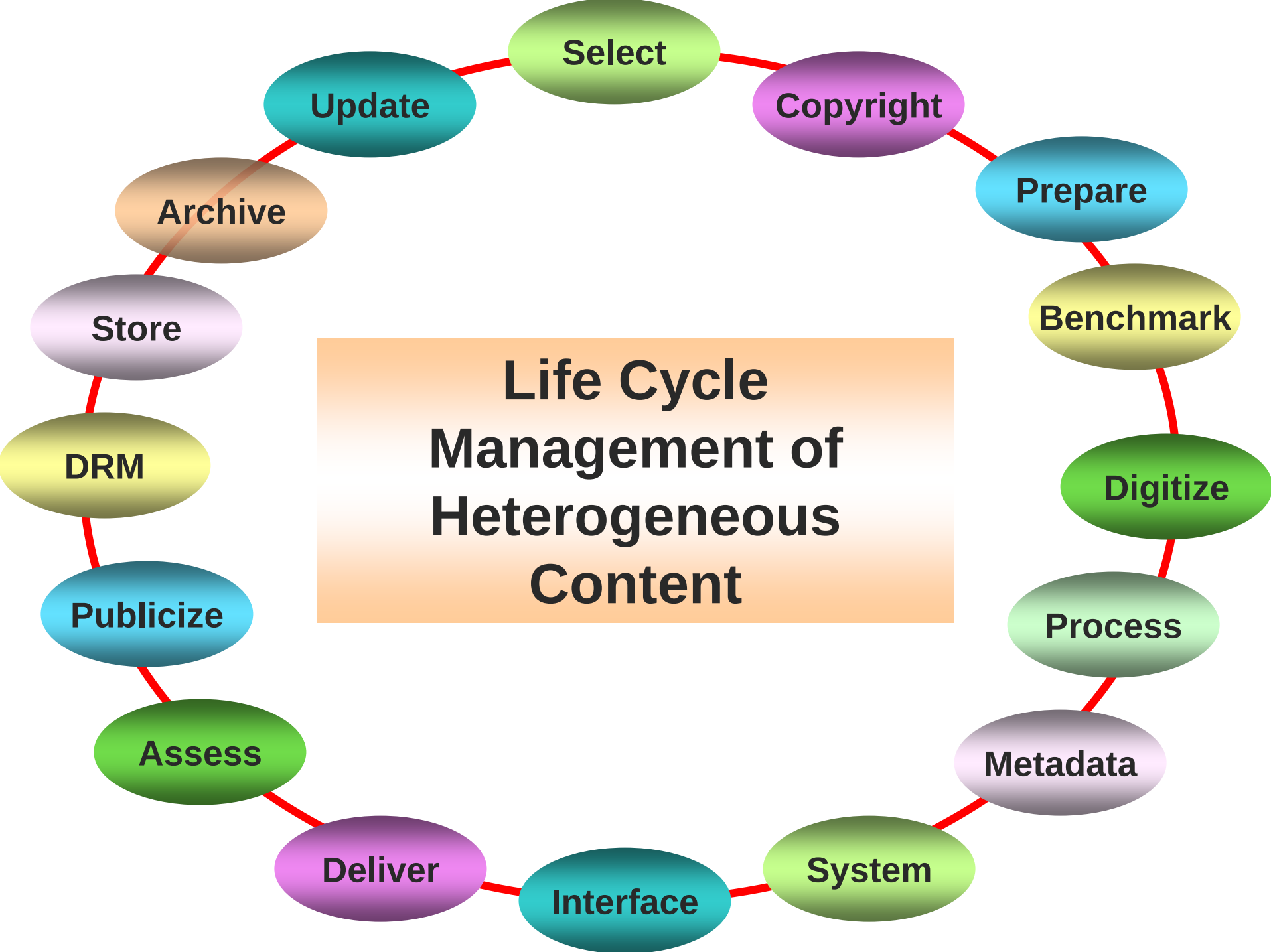
Implementing a Repository Model

Part 2

- Identify resource requirements and costs
- Choose and install a repository platform
- Draft policies for acquisition, access, and archiving
- Develop a maintenance plan
- Outline a marketing strategy
- Come up with an assessment plan

Factors in Choosing a Repository Model

- Turnkey vs. in-house development
- Business requirements (functionality and features)
  - Bulk ingestion and export
  - Reporting and statistics
- Overall performance
- Scalability
- Cost effectiveness
- Staff skills
- Legacy systems
- Consortia obligations
- Vendor stability and reputation
- Interoperability considerations
  - Support for standards
  - Open systems
- Authentication and authorization
- Archiving requirements
- Content and metadata support
- Usability (staff vs. end-user)
- Resource discovery
- Digital library infrastructure
  - Architecture
  - Systems
  - Hardware and software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Prepare
Benchmark
Digitize
Process
Metadata
System
Interface
Deliver
Assess
Publicize
DRM
Store
Archive
Update

We are moving away from thinking about a repository as a 'bucket' into which we pour content. And towards a sense of repository as a set of services on managed objects. Different repository frameworks might provide different services in different configurations.

April 2005 Lorcan Dempsey's Weblog

Current Landscape

- Extremely difficult to evaluate and compare systems
- Essential to couple the repository with outreach, production, and consultancy services
- Ideal to separate key repository functions from services
  - Multiple repositories
  - Web services

At Johns Hopkins, we are promoting the idea that applications should access repositories through an abstract, repository agnostic layer, rather than through custom application to repository integration.

Sayeed Choudhury, Jim Martino
April 2005

Suggested Readings

- Creating an Institutional Repository: LEADIRS Workbook2004 by Mary R. Barton and Margaret M. Waters
  - http://www.dspace.org/implement/leadirs.pdf
- ARL SPEC Kit 292: Institutional Repositories, 2006
- A Technology Analysis of Repositories and Services
  - http://ldp.library.jhu.edu/projects/repository
  - Australian Research Repositories Online to the World
  - http://arrow.edu.au/