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## Current DAMS In 3D: Access, Storage, And Preservation

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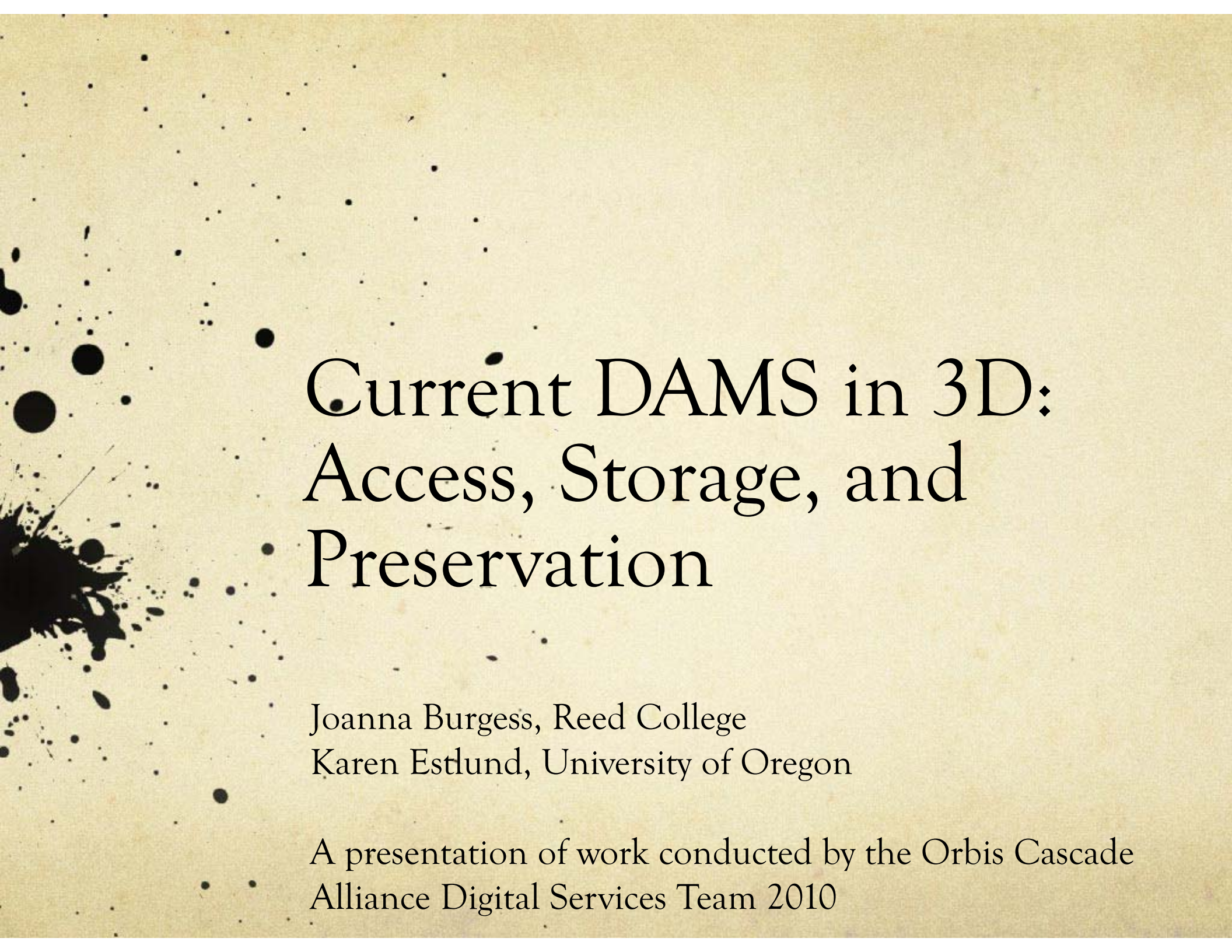
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# Current DAMS in 3D: Access, Storage, and Preservation

Joanna Burgess, Reed College  
Karen Estlund, University of Oregon

A presentation of work conducted by the Orbis Cascade  
Alliance Digital Services Team 2010

# Digital Services Team

- **Karen Estlund (University of Oregon), chair**
- **Joanna Burgess (Reed College)**
- Anne Frantilla (Seattle Municipal Archives)
- Ann Lally (University of Washington)
- Michael Klein (Oregon State University)
- **Alex Merrill (Washington State University)**
- Michael Paulus (Whitman College)
- Mike Spalti (Willamette College)
- **Kyle Banerjee, Digital Services Program Manager, staff liaison**
- **Marita Kunkel (Pacific University), council liaison**
- Jodi Allison-Bunnell, Northwest Digital Archives Program Manager, ex officio
- ...with significant support from **Isaac Gilman (Pacific University)**
- <http://www.orbiscascade.org/index/cms-filesystem-action/groups/dst/dstfinalreport2010.pdf>





# Disclaimer

*In this presentation, we will present the method and results found by the IR/Hosting subgroup of the Orbis Cascade Alliance Digital Services Team 2010.*

*Any views expressed are the views of the presenters and do not reflect views of other members of the IR/Hosting subgroup, larger Digital Services Team, the Alliance, or member institutions.*

# Background

- Northwest Digital Archives Digital Program Working Group (2007-2009)
  - The Alliance pursue inter-institutional hosting options for access in the near term. (Dspace and CONTENTdm)
  - The Alliance pursue the option of using another consortial digital repository, the Colorado Alliance Digital Repository (ADR).
  - The Alliance work with appropriate partners to develop training packages for member institutions that plan to use OCLC's "quick start" CONTENTdm in the near term

[http://www.orbiscascade.org/index/cms-file-system-action/nwda/files/dpwwg\\_report\\_recommendations\\_final\\_rev\\_20090727.pdf](http://www.orbiscascade.org/index/cms-file-system-action/nwda/files/dpwwg_report_recommendations_final_rev_20090727.pdf)
- Orbis Cascade Alliance Institutional Repositories Task Force (2009)

“Based on our work from June through September 2009, we believe that the Orbis Cascade Alliance would benefit from pursuing two repository options. This path provides a way for Alliance members to increase their expertise with repository software if they so choose while other Alliance members can outsource these services as they see fit. The implementation of a DSpace repository along with the pursuit of a vended solution also creates competition that can raise the bar for both services.”

[http://www.orbiscascade.org/index/cms-file-system-action/groups/irtf/irtf\\_final\\_report.pdf](http://www.orbiscascade.org/index/cms-file-system-action/groups/irtf/irtf_final_report.pdf)

# Charge

The following initiatives as described in the Digital Program Working Group report of September 8, 2009

will be developed as recommendations forwarded to EC and Council.

.....Institutional Repository.....

DST is encouraged to consider a range of technologies (e.g., DSpace, ContentDM, Fedora) and hosts (e.g., member, Alliance, other consortium, vendor). Examples include but are not limited to WSU hosted DSpace, UW hosted Content DM, Colorado Alliance hosted Fedora, and vendor hosted IR.

# Summary of Activities

- Reviewed available systems
- Created initial criteria for review
- Contacted current users of systems for feedback
- Investigated collaborating with other consortia
  - Colorado Alliance ADR (Alliance Digital Repository)
  - LASR (Liberal Arts Scholarly Repository)
- Contacted vendors for consortial pricing information on various repository platforms including (Simple DL and CONTENTdm)
- Decided to split into different categories based on very different strengths of systems and wide array of member needs and non standard usage of the term IR
- Narrowed down systems per category
- Communicated criteria and list of systems to wider DST and other self-identified interested individuals from Alliance institutions for review and feedback
- Installed and tested systems; set up vendor accounts for demos
- Conducted final review of systems for recommendations

# Available Systems



Bonneville Dam on the Columbia River, Oregon State University Archives,  
<http://oregondigital.org/u?/streamsurve,809>



# Other DAMS Reviews

- “A Comparative Analysis of Institutional Repository Software” (Feb. 10) *Purdue and U Wisconsin*  
<http://blogs.lib.purdue.edu/rep/2010/02/25/a-comparative-analysis-of-institutional-repository-software/>
- “Digital Asset Management (DAM) Planning/Implementation Survey” (Aug. 2010)” *UConn Libraries*  
[http://digitalcommons.uconn.edu/libr\\_pubs/24](http://digitalcommons.uconn.edu/libr_pubs/24)
- “Repository Software Survey” (Nov. 2010) *Repositories Support Project sponsored by JISC*  
<http://www.rsp.ac.uk/start/software-survey/results-2010/>

# Initial Criteria

## Access

- Standards compliant display
- Customizable look and feel with multiple options (per collection / institution)

## Storage

- Scalability
- Security / Permissions
- Batch Processing
- Hosting Options

## Preservation

- Standards compliant exportable data
- Hosting Options

# Initial Additional Information

- Cost
- Best for X
- Challenges with Y
- Alliance Institutions Using It

# 2<sup>nd</sup> Round General Criteria

- Self-submission
- LDAP/ Shibboleth authentication
- Create and view relationships between items & Multi-file items
- Statistics Collection Statistics
- RSS for new content
- Collection specific branding
- Batch ingest / export
- Batch editing
- Supports multi. media formats
- Supports embedded viewers
- Streaming Support
- Persistent Links
- Search Engine Optimization
- Open source/commercial
- Granular control of user privileges
- Supports controlled vocabularies
- Faceted searching
- Full text indexing
- Intuitive searching with limiters
- User contributed tags/comments
- OAI-PMH compatible Metadata Schemas
- Cost

# IR Criteria

- Customizable Submission Forms
- Version/revision tracking
- Google Scholar Integration
- *Persistent Links*

# Journal Publishing

- Editorial workflow management
- Peer review workflow management (Facilitates blind review)
- Publish incrementally OR complete issues
- Support for OA model Support for subscription model
- Support for pay-per-view model
- Support for supplemental/multimedia content
- HTML article version PDF article version

# Multimedia Options

- Image viewer with zoom & pan capabilities, ideally with image-only view (e.g. hide metadata)
- Favorites/Galleries/Light Table functionality for images
- Slideshow functionality
- Sharing capabilities (favorites, slideshows, etc)
- Download/export capabilities for end users - single image, batch download, with metadata, etc.
- Exhibit or virtual collection builder
- Automated creation of derivative formats (thumbnails, streaming versions)
- Capabilities to extract data from images

# Power Options

Everything you just saw!



# Round One Losers

## EPrints

- Scalability, support, extensibility concerns

irplus

- limited community/traction

zentity

- limited community/traction

# Round One Loser?

## CONTENTdm

- lack of flexibility  
beyond images/text
- Scalability &  
performance issues
- Difficult to get  
Information out in re-  
usable form



# Categories

Traditional IR

Multimedia

Journal Publishing

Power Solutions

# Institutional Repository

Scholarly/intellectual output:

- journal articles
- theses/dissertations
- papers
- conference proceedings
- course materials
- curriculum vitae
- datasets

- research communities
- self-submission tools
- versioning
- open access

# Multimedia

- Curricular materials
- Archival/special collections
- Supports various multimedia formats
  - images
  - texts
  - audio
  - video

Often centrally managed  
but with tools for end  
users:

- downloading
- slideshows
- personal curation

# Journal Publishing

Specialized features for journal publishing:

- workflow management
- peer review
- access models (open access, subscription, pay-per-view)
- versioning

# Power Solution



# Round One Winners

## Traditional IR

- bepress/Digital Commons
- DSpace

## Multimedia

- Omeka
- SimpleDL

## Journal Publishing

- bepress/EdiKit
- Open Journal Systems (OJS)

## Power Solutions

- Greenstone
- Fedora



# Traditional IR

# DSpace

- DuraSpace
- Formerly MIT
- 2002
- Open source

## Pros:

- Persistent links / identifiers
- Integrated with Google Scholar

## Cons:

- Non-intuitive submission forms
- No native batch editing
- Upgrades complex for customized instances
- Limited image support

# DSpace

- <http://ir.library.oregonstate.edu>
- <https://research.wsulibs.wsu.edu:8443>
- <https://scholarsbank.uoregon.edu>

## Images

- <http://timea.rice.edu>

## Manakin front end

- <http://repository.tamu.edu/handle/1969.1/2490>

# bepress Digital Commons

- Berkeley Electronic Press
- Formerly UC Berkeley; ProQuest
- 2002
- pricing based on FTE; consortia discount pricing available

## Pros:

- Flexibility
- Excellent customer support; openness to feature requests

## Cons:

- Lacks persistent links/identifiers
- Limited image support
- Qualified Dublin Core only

# bepress Digital Commons

- <http://demo.dc.bepress.com>
- Branded:
- <http://commons.pacificu.edu>
- <http://digitalcommons.wou.edu>
- <http://digitalcommons.linfield.edu>
- Images:
- [http://digitalcommons.calpoly.edu/mus\\_img/](http://digitalcommons.calpoly.edu/mus_img/)
- Submission:
- [http://demo.dc.bepress.com/cgi/ir\\_submit.cgi?context=ecology](http://demo.dc.bepress.com/cgi/ir_submit.cgi?context=ecology)

# Multimedia

# Omeka

- GMU Center for History & New Media
- 2008
- Open source

## Pros:

- User-generated content
- Lightweight display creation

## Cons:

- Image-centric, no full text
- Lacks robust core functionality
- Limited access controls

# Omeka

- <http://omeka.org>
- Interactive
- <http://chnm.gmu.edu/cyh/>
- Exhibit
- <http://exhibitions.nypl.org/exhibits/eminent?q=eminent>
- Back end
- <http://134.121.160.163/admin/>



# SimpleDL

- Roaring Development
- Salt Lake, UT
- May 2010
- Pricing model varies
- Hosted & direct licensing

## Pros:

- Superior multimedia
- Developer eagerness

## Cons:

- Lack of user tools
- No batch editing
- Limited access controls
- No traction yet

# SimpleDL

- <http://simpledl.wsulibs.wsu.edu/admin/login/>

# CONTENTdm

- OCLC (2006)
- Formerly UW;  
DiMeMa
- 2001
- Pricing model varies
- Hosted & direct  
licensing

## Pros:

- Extensive core functionality
- Robust user community
- Integration with OCLC

## Cons:

- Can be cost-prohibitive
- Image/text-centric
- Integrity/performance issues

- <http://collections.contentdm.oclc.org/>
- Customized:
- <http://content.lib.washington.edu/>
- <http://oregondigital.org/digcol/>
- <http://cdm.reed.edu/>
- Back end:
- <https://cdm.reed.edu/cgi-bin/admin/start.exe>

# Journal Publishing

## bepress EdiKit

- First 5 journals free with DC subscription; each subsequent journal \$1,500 annually
- Individual licenses also available

## OJS

- Public Knowledge Project
- UBC, Simon Fraser, Stanford
- Open source

# Journal Publishing

- Both recommended, parallel core functionality:
  - editorial and workflow management
  - branding for individual journals
  - open access & subscription/PPV model
- Typical trade-offs between open source and software-as-service
- No single best option for Alliance institutions because of variations in institutional resources

# OJS

- [http://pkp.sfu.ca/ojs\\_demo](http://pkp.sfu.ca/ojs_demo)

# Power Solutions



# Greenstone

- New Zealand Dig. Library Project
- University of Waikato
- Late 90s
- Open source

## Pros:

- Core package self contained; easy to install

## Cons:

- Lacks persistent links
- Limited access controls
- Poor submission tools
- Poor image handling
- Limited user community

# Greenstone

- <http://www.lib.neu.edu/freedomhouse/>

# Fedora

- Fedora Project
- 2003
- Open source

## Pros:

- Highly extensible/flexible
- Preservation + access
- Versioning
- No defined front end

## Cons:

- No front end
- Large initial investment in configuration

# Fedora

- Colorado Alliance

<http://adresources.coalliance.org/>

- Islandora

<http://islandora.ca/>

<http://www.islandlives.ca/>

- Hydra with Blacklight or other Hydra heads

<https://wiki.duraspace.org/display/hydra/The+Hydra+Project>

Search

Search Term

demo:18

Search

Fields to include in results

- label
- state
- ownerId
- cDate
- mDate
- dcmDate
- title
- creator
- subject
- description
- publisher
- contributor
- date
- type

Object

Repository

Search: \*

demo:18

Search: demo:18

Properties

Label: Data Object (ECDL Paper) for Simple Document Demo

Created: 2008-07-02T05:09:42.015Z

Modified: 2010-12-23T23:13:06.561Z

Owner: fedoraAdmin

State: Active (A)

Commit Changes

Export Object

View Object XML

Purge Object

Datastreams

ID	Label	MIME Type
DC	Dublin Core Record for this object	text/xml
DS1	The Mellon Fedora Project: Digital Library Architectur	application/msword
DS2	The Mellon Fedora Project: Digital Library Architectur	application/pdf
DS3	The Mellon Fedora Project: Digital Library Architectur	application/ps

Add Datastream

Refresh List

# Selection Criteria

- what are your goals?
- what kind of objects do you want to manage?
- who are your end users? what are their needs?
- what are the functional requirements?
  - usability vs. functionality
  - access/preservation/both
- what kind of staffing is available? what level of funds?
  - weigh open source/commercial tradeoffs
  - consider technical specs
  - hosted vs. local instance



**KEEP  
CALM  
AND  
CARRY  
ON**

# Current Landscape

- Moving target, try to remain calm
- Follow best practices for structured/shareable metadata
- OAI/PMH
- OAI/ORE