PeDALS
Persistent Digital Archives & Library System

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The Business Need

- Curators will have a framework
  - To describe business processes
  - That can be automated

- So that large numbers of electronic records and digital publications (if possible) can be processed
  - In a cost effective manner
  - So that the repository can work with ever-increasing quantities of materials in a time of limited resources

- One of several tools on the curator’s workbench
Curatorial Rationale

- Question traditional, paper-based practices in order to transform them into the digital era
  - Appraisal
  - Acquisition
  - Arrangement and description
  - Housing and storage
  - Reference and access
  - Preservation

- Preserving archival principles of provenance, context, collective control, and authenticity and integrity
Technical Goals

- To demonstrate the use of middleware to implement business rules in software as an integrated workflow to process collections of records and publications.

- To build “digital stacks” using LOCKSS as the basis of an inexpensive storage network that can preserve the authenticity and integrity of the materials.
Additional Goals

- To build a community of shared practice that meets the needs of a wide range of repositories
  - For best practices ~ what works, what’s practical
  - For resource sharing ~ avoid redundant work

- To remove barriers to preservation by keeping costs as low as possible
Data Flow

![Diagram of Data Flow]

Arizona Persistent Digital Archives and Library System (PoDALS)
OAIS Information Flow

- Agency Recordkeeping System
- Submission Information Package (SIP)
- Middleware Business Rules Engine
- Accessions Register
- Archival Information Package (AIP)
- LOCKSS Digital Storage
- Search Database (Core Metadata)
- Dissemination Information Package (DIP)
- Public Query
Automated Processing

- Curators work with rules, not records
  - Describe business processes (rules)
  - Monitor the process for quality assurance

- Rules expressed in software
  - A “pipeline” that transforms records as they move through the system

- Based on Microsoft BizTalk middleware
Project Status – Completed

- Technical infrastructure installed
- Core metadata defined
- Schema for a simple AIP
- Developed administrative catalog
- AZ marriage certificates ingested, transformed and created metadata, packaged as AIPs, and deposited in LOCKSS
- Demonstrated reuse of code by adapting rules for marriage certificates to SC Public Service Commission orders
Project Status – To Do

- Complete Administrative Catalog Interface
- Develop AIP for compound records
- Develop DIP
- Develop Public Catalog web interface
- Write rules to ingest additional records and publications
- Project to be completed by December 2009
For more information

- [http://www.pedalspreservation.org/](http://www.pedalspreservation.org/)

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