Deep Dive

PASIG - October 2009
Mark Leggott
Robertson Library, UPEI
Death & Rebirth of repository

VRE approach:
- build capacity
- library at forefront
- all landscapes

STEWARDSHIP
Data Stewardship

Researchers & data creators want help managing the data deluge. Who will respond?

Common refrain from recent Islandora session:

This is the first time someone has responded to the data challenges I am facing.

There is no more significant opportunity for academic libraries in the next few decades.
Repository Redux 2009

- Vision the same
- Evolution of tools and community
- Library foundation of all 3 landscapes
- Research core driver
- Staff enabled
It’s All About the Local
Google Can’t Do Local Like You
Islandora Project

Focus on open source & open data
Staff capacity - team of 7 devoted > 50% to Islandora and related - soon 12+
In use in all 3 landscapes at UPEI

- Research = in 2009, $150K HW & $200K staff
- Admin = Senate, document management pilot
- Learning = Digital Collections, LOR
Islandora External

1st External contract by end of Sep

Current Users/Implementors include:

- University of North Texas, Georgia Institute of Technology, University of NB, Carleton University, University of Guelph
- Interest from Sloan-Kettering and similar
- Significant activity on Islandora support forum

Stronger DuraSpace partnership in works
Islandora Framework

- Drupal-Islandora-Fedora at the top of the stack
- Separates data from UI
- LAMP framework with a range of helper applications/workflows
- Provision of modular “Solution Packs” for specific requirements
Fedora

- Repository layer
  - data, metadata, workflow, AuthZ/T
- Work with any data asset, schema
- Increasingly popular repository app
- Semantic support
Drupal

- Collaborative layer
- Easy branding
- Multisite in one
- New functionality & modules all the time
- Community large and Web 2/3 savvy
Islandora

Glue that binds Drupal & Fedora

Drupal module, PHP & Java apps

Rule engine for flexible workflows

Drop-In support for new modules
Architecture

**Drupal**
- LDAP
- Groups
- Forms
- FCK
- Hooks
- ModuleX

**Islandora**
- Djatoka Images
- OpenLayers Geo Data
- R Numeric Data
- XACML Filter
- Drupal Module
- Rule Engine
- PHP Code

**Fedora**
- BLAST Gene Sequences
- Annie Entity Extraction
- ABBYY OCR Text
- Data
- Collection Policies
- Security Policies
- XSLTs

**Additional Tools**
- LDAP
- Solr/Lucene
- Scripts
- Sherpa
- Djatoka Images
- OpenLayers Geo Data
- R Numeric Data
- XACML Filter
- Drupal Module
- Rule Engine
- PHP Code
- BLAST Gene Sequences
- Annie Entity Extraction
- ABBYY OCR Text
- Data
- Collection Policies
- Security Policies
- XSLTs

**Business Systems**
- Data Security Policies
- Collection Policies
- XSLTs
Workflows

- Ability to define & integrate complex digital workflows
  - IslandLives book transformation
  - IslandScholar document conversion
- Fedora disseminators, Islandora rule engine
- Future integration of Taverna +
Software Stack

6. Solution Pack Layer
   - Sample Coll & Apps

5. Service Application Layer
   - ABBYY, Gate/Annie, Djatoka, OpenOffice

4. Repository Application Layer
   - Islandora, Fedora, Drupal, Solr/Lucene

3. LAMP Application Layer
   - ghostscript, imagemagick, Java, JMS/QServer (PHP XML/SOAP, Curl), Other LAMP applications

2. Storage/Preservation Layer
   - MySQL (default), PostGres, Oracle
     - OpenSolaris/Linux/OSX/Windows, SAM, Akubra, etc.

1. Hardware Layer
   - Open Archive options: High Ingest, High Access, High Ingest/Access

A. VRE Solutions
   - Sample Coll & Apps

B. Dig Archive Solution
   - Sample Collection

C. Ent Repository Solution
   - Sample Collection
Solution Packs

Assemblages of collection policies, disseminators, workflows, apps, data

Delivered with new Islandora releases

1. Institutional Repository
2. Book/journal/newspaper archive
3. Biosciences (+ specialized, such as genomics)

Additional from UPEI & community
Sun Partnership

- Working with Sun team on optimized software stack
- Pre-defined HW solutions
- VAR partnerships
- New features, such as SAM support
Community Partnerships

- Support for broader community
- Islandora Partners
- Contributors to base as well as Solution Packs
- Islandora.ca site will be foundation
Support Model

- Support and development contracts
  - Annual support/hosting
  - Website development, custom solution packs
- Developing core Islandora Service Team, distributed developer/support resources for 24x7, multi-timezone support
Preserving PEI's community histories

IslandLives is a work in progress. Please be aware that content will change, browse and search options will change, and IslandLives may be unavailable at times.

Made possible through a generous private donation, IslandLives contains community and church histories and it builds on the Robertson Library’s mission to preserve and share unique material relating to Prince Edward Island and demonstrates UPEI’s ongoing commitment to making PEI’s cultural and published heritage available to all. Welcome.
A partnership project helping Island students bring the past to life using the tools of the future.

A Living Archives

Notre projet aide les élèves insulaires à faire revivre le passé en utilisant les outils de l’avenir.

Enter below / Entrez ci-dessous:
Islandora Roadmap

- Goal to have a rich and fully defined community framework for participation
- Quarterly Roadmaps for code changes and new releases starting January 2010
- Quarterly Releases with new Solution Packs in each
- Islandora/RIRI Institutes summer 2010
Demo
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