UPEI VRE

June 11, 2007
Status and Direction
Life Cycle Model of Research Knowledge Creation
Chuck Humphrey, UofA

Data Discovery

Data Collection

Data Processing

Data Access & Dissemination

Analysis

Data Repurposing

Study Concept & Design

KT Cycl

Research Outcomes

Data
Research Communication in The Knowledge Transfer Cycle
Chuck Humphrey, UofA

Conceptualising
E-mails, letters, literature reviews

Initialising
Grant applications, meeting minutes

Value
- teaching/research
- numeracy
- informed public

Initial Results
Grant reports, technical reports, thesis

Analysis
Presentations, conferences, seminars

Formalising
Journal articles, books, curricula content, policy

Popularizing
Popular literature, newspapers, practice
UPEI VRE Framework

- Website::Content Management System
- Groups::Authentication & Permissions
- Information::Metadata, Standards & Data
- Applications::Functionality & Integration
- Glue::Web Services & Semantic Web
Development Model

- VRE works as a Skunk Works/Sand Box
- Define requirements and develop system/solutions as we go
- Ensure generalization for benefit of all
- Centralize where possible/feasible
- Assume objects accessible from anywhere
Current VREs

- AVC (Lobster Science, MHL/Synapse, MQM, CAHS, Diagnostic, VRL)
- Science (Kerr/PFS, MaRS, Morphospace, DMS)
- Arts (Island Studies, Frye, CMTC/Chimes/Musicog, LMMI)
- Education (Artscape, SLC, LivingArchives)
- LifeLong Learning (Conflict Resolution)
Default VRE Structure

- **General Website**
- **Creation/Admin Tools**
- **Communication Tools**
- **Library Tools**
- **Lab Tools**
- **Repository Tools**
VRE Components - June 2007

**Drupal CMS**
- Website/Groups
- Discussion Forums
- Blogging/RSS Integration
- Collaborative Editing

**Fedora Digital Library Repository**
- Documents/Papers/Theses
- Images
- Video/Audio/Animation/3D
- Sequences
- Records/Complex Objects

**Moodle LMS**
- VRE Education
- Lesson Planning
- Testing/Surveys
- Course Delivery

**Admin Tools**
- dotProject
- Bubbl.us
- Listserv

**Plugins**
- Quick Chat/Contact
- Chat Discussion/Sharing (Meebo)
- Chat Tech Support (Crafty)
- Citation Management (RefWorks)
- Website Management (Del.icio.us)
- Federated Search/Linking (ASIN)

**Verticals**
- Critter Database
- Sequence Analysis (SMS)
- Academic Conferences (OCS)
- Academic Journals (OJS)
- Virtual Microscopy

**Fedora Digital Library Repository**
- Automatic Object Conversion
- Custom Interfaces
- Data Exposure
- Versioning
- Backup/Security
Process

- Make a request (mleggott/davcormier@upei.ca)
- Initial meeting to discuss requirements
- Develop a website map (Bubbl.us)
- Basic site developed
- Training (group/one-on-one/self)
- Development, maintenance, customization
Basic VRE

- Available as part of the VRE service
- Education/training provided
- Object access from anywhere
- No cost, but research funds available for web/system development would benefit all in VRE

All VRE costs tracked
Advanced VRE

- Requirements defined and related to broader VRE context
- Additional modules added by internal staff
- Additional modules/components added by internal/contract staff
- Only contracted services billed back
VRE Team

- Robertson Library
- Internal Resources: Mark/Dave/Paul/Grant/Dawn/Simon/Pauline
- Contract Resources: Peter/Dave/Ben/Brian
- Computing Services: Blair/Ryan/Dave
- Integrated Promotions: Glenda/Debra
Next Steps
Repository Testing

- Fedora/Fez ready for limited testing
- Would like some canaries with a range of document types/collections to input data
- Examples:
  - Research data collections
  - Documents/papers/theses
  - Digitization
Vertical/Plugin Examples

- Sequence database
- Critter database
- Digitization/Image management
- Conference management
- Academic Journal Management
September ‘07

- All VREs in new site skin/structure
- Integration of Fedora/Drupal
- Institutional Repository collection development
- Open Journal/Conference Systems
- Integration with Moodle
- Online VRE Help/Complete Education Modules