Long-term Repositories: Taking the Shock out of the Future

Two-day forum on PREMIS Preservation Metadata and the Trusted Digital Repositories
August 31, September 1
National Library of Australia

Ronald C. Jantz
Rutgers University Libraries
Discussion Today

- The RUcore Context
- Implementing PREMIS in RUcore and Fedora
- Further development
RUcore - How it Works

User Input
- Metadata and Archival masters
- Workflow Management System

RUCORE Portal
- NJ Digital Highway
- E-Journals
- Dissertations

User, Collection, & Preservation Services

Fedora Repository Service

Digital Object Ingest
- XML

Managed
Preserved
Fedora Repository
The Digital Object

- The digital object is the basic unit of management and preservation, encapsulating all essential information about the “document” to be disseminated and preserved.

- The digital object should be independent of the technical environment where possible.

- Use standards and non-proprietary formats to minimize dependencies.
A Book Digital Object

Book Object

- Persistent ID
- Metadata
- Special Behaviors
- Data streams
  - SMAP1 – StrMap (TOC)
  - DJVU1- presentation
  - PDF1 - presentation
  - XML1 – OCR text
  - ARCH1- Archival master (tiffs of each page)

Content Model

Format Registry

Descriptive
Administrative
Technical
Source
Rights
Digital Prov.

Green = not implemented
RUcore and PREMIS Implementation
(Objects, Events, and Agents)

- **Structure (e.g. for a book intellectual entity)**
  - Book digital object $\sim =$ PREMIS object - representation
  - Presentation (pdf, djvu) $\sim =$ object - files
  - Archival master (ARCH1) $\sim =$ tar file encapsulating tiff files

- **RUcore Metadata**
  - PREMIS object metadata is located in both descriptive (MODS) and technical metadata
  - PREMIS event metadata is in digital provenance
RUcore – Next Steps

- **Metadata**
  - Environment – hardware, software and history
  - Agents – use PREMIS model, render as Fedora object
  - Compatibility with other standards (e.g. DDI or FGDC)

- **Architecture**
  - Event management and integration with Fedora
  - Vocabulary for event type and outcome