Archives & Technology Collide:
The Carolina Digital Repository

Erin O'Meara

Electronic Records Archivist

University Archives and Records Services

University of North Carolina at Chapel Hill

ASIS&T Research Data Access and
Preservation Summit

CDR Mission

- Archive for materials produced by members of the University of North Carolina at Chapel Hill community.

- To ensure UNC digital scholarly output is safe and accessible for into the future.
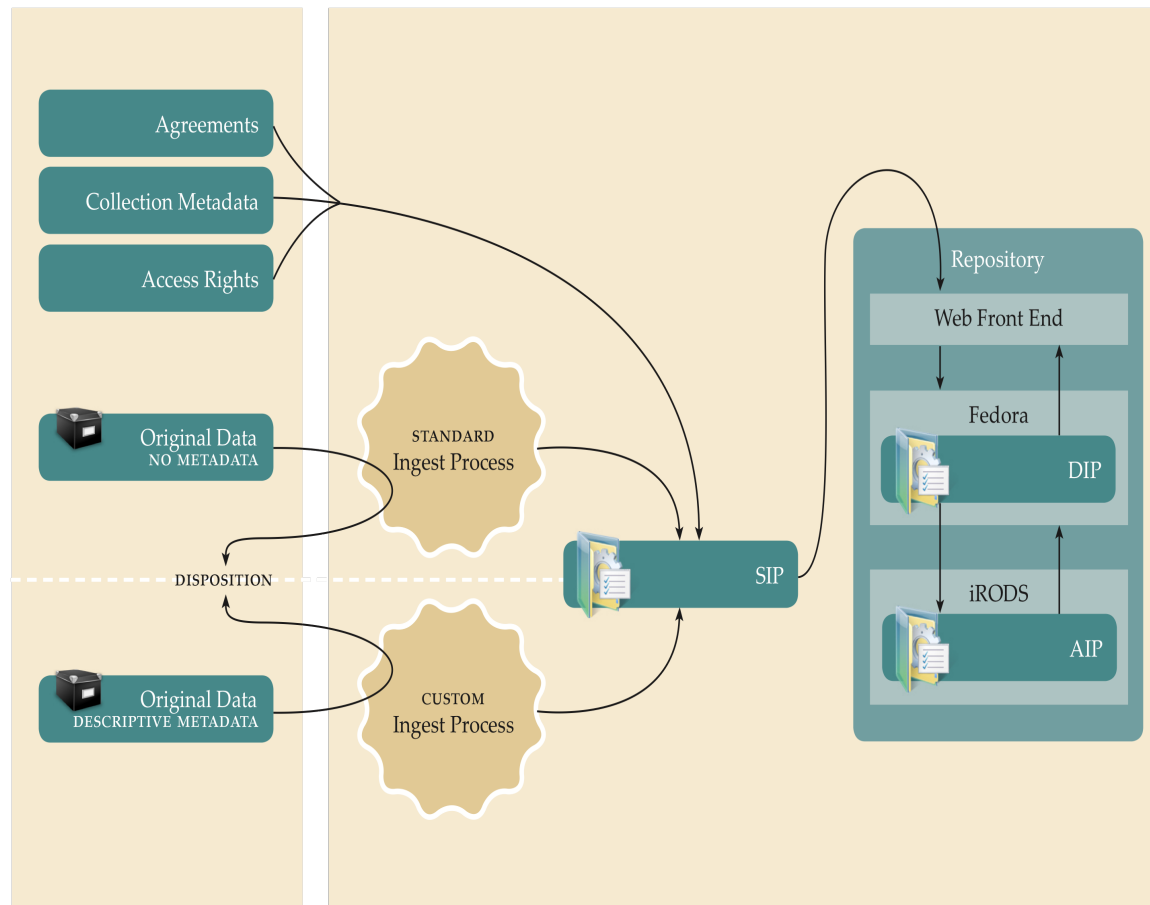
- CDR demo, http://cdr.lib.unc.edu/

Standards & Platforms Used

- iRODS

- Fedora

- PREMIS, METS & MODS
  - Preservation, transmission and description metadata standards

CAROLINA DIGITAL REPOSITORY
Approved Collection Workflow

Agreements

Collection Metadata

Access Rights

Original Data
NO METADATA

STANDARD
Ingest Process

DISPOSITION

Original Data
DESCRIPTIVE METADATA

CUSTOM
Ingest Process

SIP

Repository

Web Front End

Fedora

DIP

iRODS

AIP

Milestones and Future Goals

- **Ingest workflow redesign**
  - Enhance & design additional workflow tools
- **Greater iRODS integration**
  - PoDRI - Policy Driven Repository Interoperability
    - IMLS collaboration with Duraspace to integrate Fedora/iRODS
  - Irodsfedora (DICE and UNC Libraries)
    - Enhancement of iRODS-Fedora storage layer

CDR's Approach to Data Life Cycle

- Custodial shift after objects are ingested into CDR

- Data management needs increase during SIP preparation

- OAIS model applied throughout architecture

  - OAIS concepts (SIP, AIP, DIP) employed

  - Implemented via software interaction

Challenges: IRs & the Life Cycle Model

- Life cycle assumes data is inactive and won't change once ingested into repository

- Develop approach to active, at-risk data

- Potential approach: Pre-custodial intervention

For more information contact:

Erin O'Meara, eomeara@email.unc.edu
Will Owen, owen@email.unc.edu