Archives & Technology Collide: The Carolina Digital Repository

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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/](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
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
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