

# Lifetime Library Overview and Update

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# Lifetime Relationship

Universities hold a unique role in our society:

- Educate
- Research
- Curate
- Archive
- Connect
- Create Culture
- Inspire

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- Inspire
- Trusted
- Long-Lived
- We each have a sense of ownership

# Responsibility

- Current Students
- Alumni
- Current/Former Faculty
- Staff
- Public (sometimes)
- External Researchers
- Future Stakeholders

# Lifetime Library

The University should host and manage a lifetime of data for and provide a suite of information services to those affiliated with the University.

- Safe
  - Replication
  - Migration
- Available
  - Online
  - Multi-Device
- Secure
  - Access Controlled
- Shareable
  - Multi-User

# Goals

We want to provide services for the University community including:

- Ingest
- Access / Management
- Organization
- Search
- Export
- Archive
- Portability

# Early 2011

- Running iRODS 2.5
- Available to ~20 students
- Storing ~10GB across ~10k data-objects
- Interaction primarily via iDrop pre-1.0
- Policy-driven iRODS replication of data-objects to second resource
- Rudimentary tagging of data-objects

# Early 2012

- Running iRODS 3.0+
- Available to 155 students, faculty, and alumni
  - Targeting all of SILS by end of 2012
- Storing 307GB across 158k data-objects
- Interaction via iDrop, iDropWeb, and i-commands
- Policy-driven iRODS replication of data-objects to second resource
- User-managed watch folders
  - Automatic one-way client-to-server sync
- Early social media harvesting (Flickr and Facebook)
  - Initial and recurring metadata storage
- Periodic file-level integrity checks
- Automatic iRODS system backup via `msiSystemBackup()`
- Streaming replication of entire database to hot copy (postgreSQL 9)



# Ongoing and Future Work

- Additional social media integration/harvesting
- Additional metadata views
- Development of web-based grid administrator interface
  - Dashboard of status, statistics, and recent activity

# Thank You

<http://ils.unc.edu/lifetimelibrary>