Advanced Electronic Records Institute

Building Capacity Through Experimentation and Assessment

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Process

- Prioritize questions that surface in production
- Frame experiments in a lab/testbed environment
- Develop and demonstrate solution
- Devise plan for implementation – emphasize roles
- Put into production
- Measure outcomes
- Repeat as needed
Incubating Solutions

- Enhanced skills / knowledge
- Prototypes & options
- Demonstrated solutions
- Assessment Plans

Testbed / Lab

- Questions
- Problems to solve
- New use cases

Production
Benefits

• Continually address new technologies
• Transform workflows and practice as needed
• Develop and extend skills and collaborators
• Separate Exploration and Production
• Build and extend your management dataset
• Integrate data-driven, informed decisions
Example: MIT Digital Sustainability Lab
DIGITAL PRESERVATION WORKFLOW SYSTEM

Investigate using a digital preservation workflow system to move digital content from submission to Archival and Dissemination states.

- Packaging metadata and digital objects from Transfer to Backlog
- Arranging digital objects for Submission Information Packages (SIPs)
- Testing different normalization strategies for preservation formats
- Testing workflows for different purposes (basic, preservation, archival+preservation)

Archivematica is an open-source digital preservation environment designed to sustain long-term access to digital collections. It uses an integrated suite of software tools to allow users to process digital objects from ingest through access in compliance with the OAIS model.

www.archivematica.org
METADATA & DIGITAL OBJECT INTEGRATION

Investigating how metadata (descriptive, technical, administrative, and preservation) and digital objects that come from other tools integrate with ArchivesSpace – information management system for archives and special collections.

- Integration of metadata from ArchivesSpace into Archivematica submission documentation
- How to integrate AIP and DIP metadata back into ArchivesSpace
- How to integrate DFXML (digital forensics metadata) from BitCurator into ArchivesSpace
- How to note UUIDs in accession or digital object records

ArchivesSpace is an open source information management application for managing and providing online access to digital archival collections. The developers partnered to combine features of Archivist’s Toolkit and Archon and to create an extensible, sustainable environment for born-digital archival materials.
DIGITAL FORENSICS

Investigating how digital forensics tools and processes may fit into MIT Libraries’ digital archives and digital curation activities, using BitCurator and a F.R.E.D. (Forensic Recovery Evidence Device).

- Copying data in a forensically sound way off creation and storage media
- Understanding the types of media we can pull data from
- Understanding the data we pull off carrier media
- Extraction of digital objects within disc images
- How does DFXML (digital forensics metadata) integrate to Archivematica

BitCurator

BitCurator is a system that combines the functionality of various digital forensic tools. It is designed to incorporate into the ingest and management workflow for libraries and archives while also providing public access to the data. BitCurator attempts to support the digital curation workflow from the acquisition of holdings all the way to the end user.

www.bitcurator.net

F.R.E.D. (Forensic Recovery Evidence Device) is an integrated, flexible, modular forensic workstation platform. It can acquire data directly from a variety of data storage devices and save forensic images.

www.digitalintelligence.com/products/fred