Session Overview

- Digital archives and digital preservation systems.
- These open source tools are being developed and used in the digital archives and digital preservation communities to address the needs and gaps in systems for meeting standards, such as OAIS, PAIMAS, and Trustworthy Digital Repositories.
- They enable description, discovery, delivery, and preservation of digital collections.
- Some of these are currently being assessed and/or implemented at MIT Libraries.
Lifecycle Environment

STORAGE PATHWAYS
DIGITAL CONTENT MANAGEMENT
WORKFLOW
EXTERNAL CONTENT CREATORS
ARCHIVES COLLECTIONS SECURITY
REQUIREMENTS
Adapt digital forensics tools for archives, libraries, other collecting institutions

Popular Use Case – complete migration of data off media carriers

Use forensic tools for data triage and understanding of content at disk level

Process and export data from *disk image*

*Open Source*
BitCurator at MIT

- Beta testing and evaluation since version 0.3
- BitCurator in a Box (blog)
- Developing Use Cases
- Community Involvement
  - MIT Libraries is a BitCurator Consortium member
  - Kari was elected to the BitCurator Consortium Executive Council 2015-2017
  - Kari is an Advisory Board member for the grant-funded BitCurator Access project 2015-2017

Presented to MIT Libraries Staff 6/2015
BitCurator Processes

- How do these tools address archival concerns? [Link]
- What are some workflows using BC? [Link]
- Use Cases
  - Forensic capture and metadata for Archival Authenticity
  - Data Recovery (according to Policy and Donor Agreement)
  - Digital Archives Reference
    - Key word and features
    - Identification of Personally Identifiable Information (PII)

Presented to MIT Libraries Staff 6/2015
Demonstration