

# BitCurator Environment



## **DIGITAL FORENSICS FOR COLLECTING INSTITUTIONS**

# Session Overview



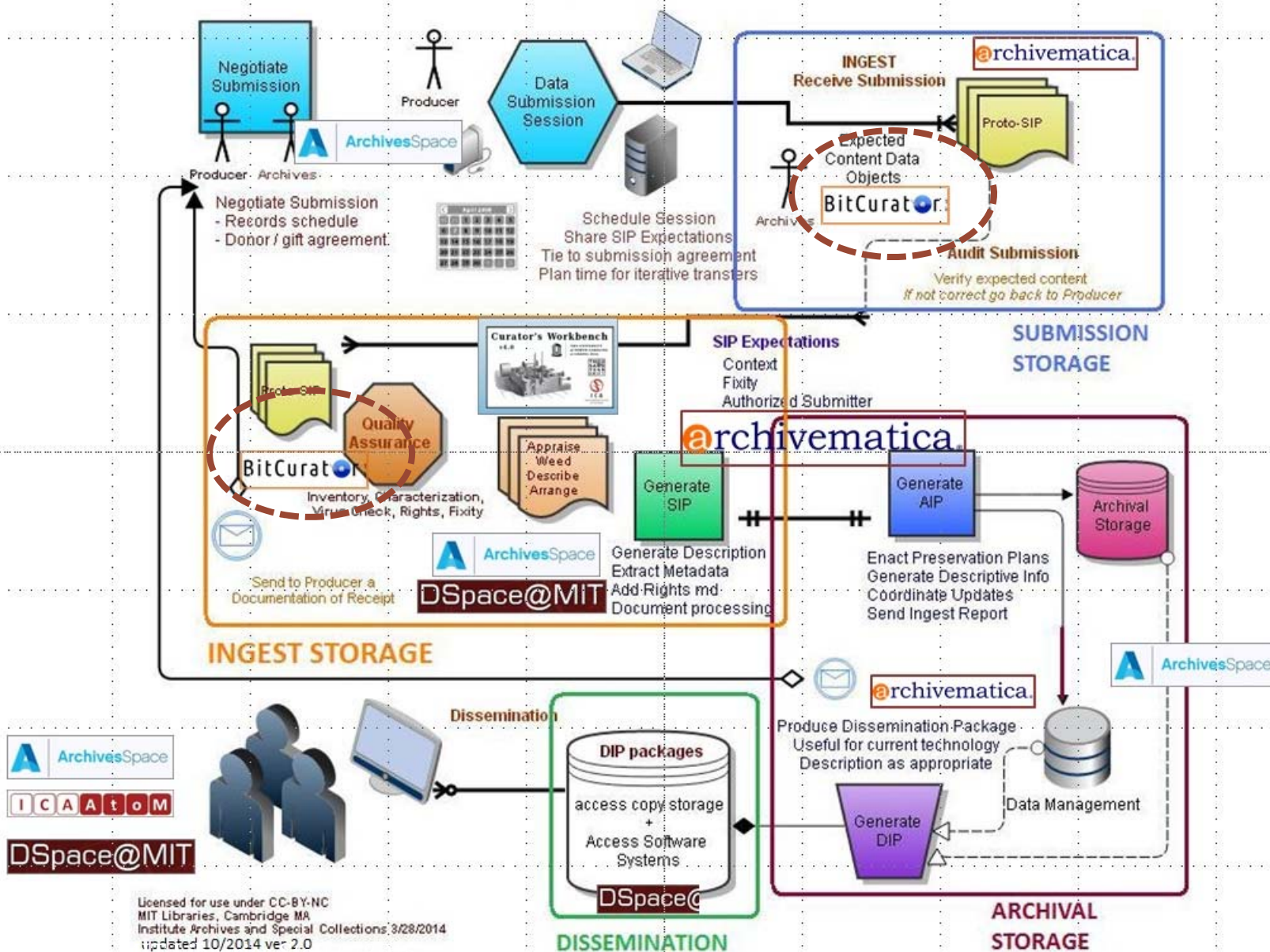
- Digital archives and digital preservation systems.
- These open source tools are being developed and used in the digital archives and digital preservation communities to address the needs and gaps in systems for meeting standards, such as *OAIS*, *PAIMAS*, and *Trustworthy Digital Repositories*.
- 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**

PAIMAS and OAIS diagram showing Producer and Archive roles  
with tools and storage spaces, version 2.0  
Kari R. Smith, Digital Archivist at MIT Libraries



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MIT Libraries, Cambridge MA  
Institute Archives and Special Collections 3/28/2014  
updated 10/2014 ver 2.0

# BitCurator

Tools for Digital Forensics Methods and Workflows  
in Real-World Collecting Institutions

- 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?

[http://wiki.bitcurator.net/index.php?title=How\\_do\\_these\\_tools\\_address\\_archival\\_concerns%3F](http://wiki.bitcurator.net/index.php?title=How_do_these_tools_address_archival_concerns%3F)

- What are some workflows using BC?

- [http://wiki.bitcurator.net/index.php?title=BitCurator\\_and\\_Archival\\_Workflows](http://wiki.bitcurator.net/index.php?title=BitCurator_and_Archival_Workflows)

- Use Cases

- ▣ Forensic capture and metadata for Archival Authenticity
  - ▣ Data Recovery (according to Policy [link](#)) and Donor Agreement)
  - ▣ Digital Archives Reference
    - Key word and features
    - Identification of Personally Identifiable Information (PII)

# Demonstration

BitCurator 

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