

Macro & Micro

Digital Preservation Services & Tools

Chris Erickson. New York 2016

Preservation Micro Services

What are they:

- free-standing applications that perform a single or limited number of tasks in the larger preservation process

- Capture
- Appraisal
- Processing
- Description
- Preservation
- Access

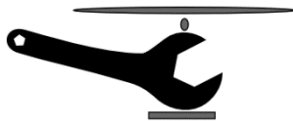


Micro Services & Tool Sites

- POWRR ([Preserving digital Objects with Restricted Resources](#))



- COPTR ([Community Owned digital Preservation Tool Registry](#))



Micro Services & Tools

Capture & Appraisal

- **BitCurator**: digital forensics & data triage
- **Nara File Analyzer**: analyze the contents of a file system
- **Universal Viewer**: viewer for many types of files
- **Archive-It**: harvest, catalog, manage and browse websites

Micro Services & Tools

Processing & Description

- **7-Zip**: File archiver. Zip, Gzip, tar and others
- **BWF MetaEdit**: Broadcast WAVE Format
- **QuickHash**: Checksums for MD5, SHA hashes
- **Bulk Renamer**: rename files & folders easily

Micro Services & Tools

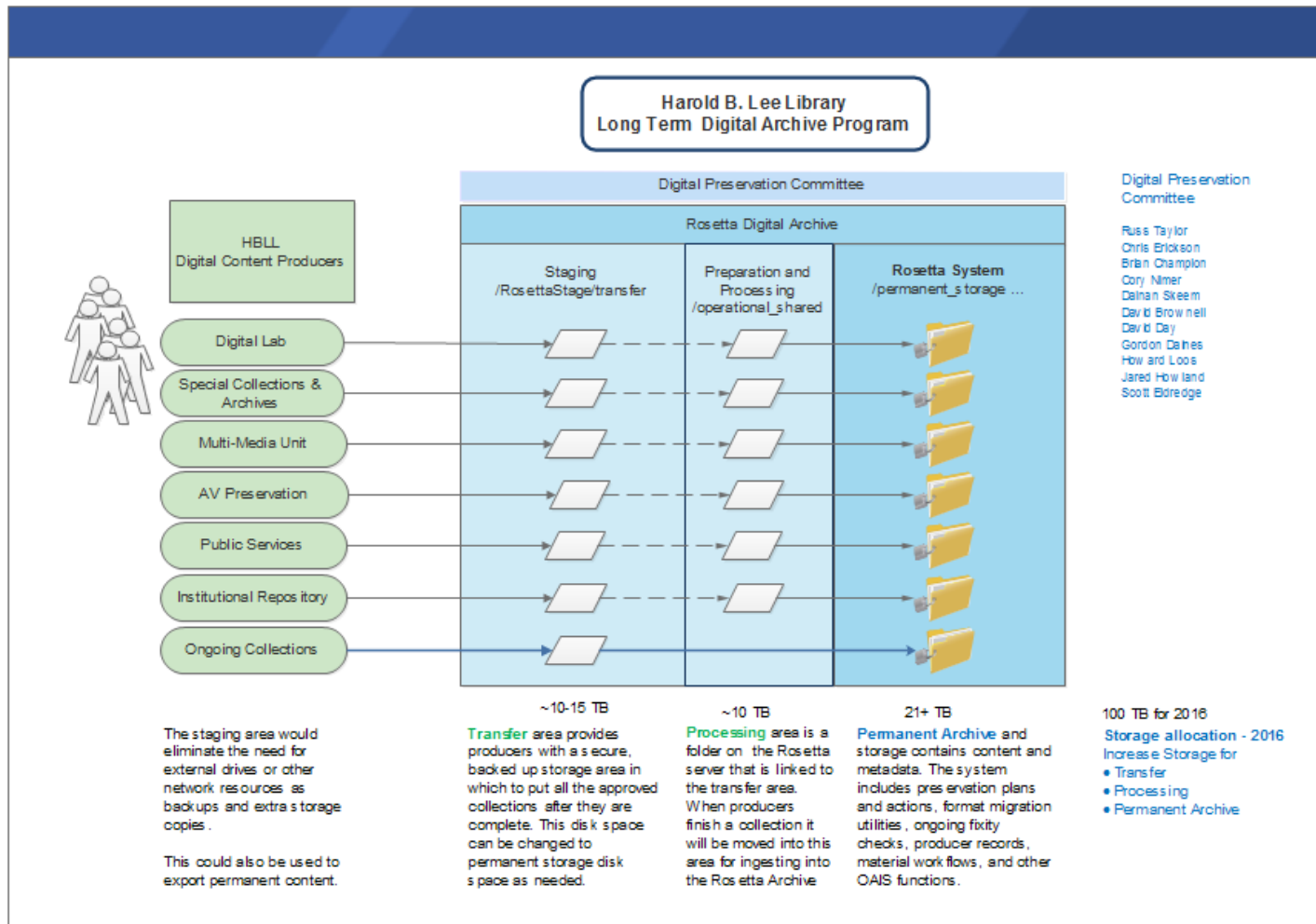
Preservation

- **Exiftool:** read, editing metadata in TIFFs and other files
- **TeraCopy:** Fast file copy & move with checksum
- **XENA:** Detect and convert to open source formats
- **DROID:** Stand-alone file format tool
- **metadata_extractor:** Extracts Exif, IPTC, XMP, ICC, etc.

Rosetta Micro Services & Tools

- **CONTENTdm:** Create SIPs from hosted system
 - Imports xml and object or master files; page level metadata;
 - Retains original xml and cpd file in mets.xml Source section
- **Unstructured data:** Import object and metadata
 - Metadata in a template: xls, xlsx, csv
 - File Discovery tool can create template from folder or file path
- **Others:** Tool can also create SIPs from these sources:
 - Internet Archive
 - SharePoint Records Management System
 - Open Journal Systems (OJS)
 - Photo files with metadata in the image

Storage Services



Micro Services @ Macro Levels

- Practitioners can only make use of individual micro-services tools if they **understand which roles** they play in the **larger digital curation and preservation process....**

[Richard Fyffe](#)

Preservation Macro Services

What are they:

- Institutional services and directions that assist organizations in identifying and implementing a combination of policies, strategies, and tactics to effectively meet their preservation needs.



Preservation Macro Services


- Digital Preservation Policy Framework
 - Roles & Responsibilities, Digital Preservation Committee
 - Levels of preservation and outline of guiding principles
- Workflows
 - Born Digital
 - Digital Acquired
 - Digitized collections
- Storage Plans
- Financial Commitment
- Engage community



Digital Preservation

- Preserving history and knowledge

For the
Future



Y News Presents

**40 Years of
BYU Pictures**
with
Mark Philbrick
University Photographer

Wednesday, June 1
5 – 6:30 pm
Assembly Hall
Hinckley Alumni and Visitor's Center
Light Refreshments Served
RSVP to ynews@byu.edu

Digital Preservation

- “**We have to get this right.** If we don't, then not much else that we're doing in research libraries matters. If we don't fully develop a sustainable digital preservation program, we could negatively impact whole areas of research, because materials created right now could just disappear. I think about gaps that exist in records because of manmade events and natural disasters. This could be **a disaster of our own making.**”

Jennifer Paustenbaugh. University Librarian. 2016

Brigham Young University

Digital Preservation

- Our digital preservation challenges have changed and increased
- Re-evaluating where we are heading and how we proceed is important
- A combination of broad visions and practical applications can ensure the future use of digital assets

Questions?

“where the telescope ends the microscope begins, and who can say which has the wider vision?”

Victor Hugo, *Les Misérables*

