UBC Library's Digital Preservation Strategy

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with input from Artefactual Systems

UBC Library
October 3, 2013

a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

introduction

- our general approach
- archives and born digital material
- digitized collections and IR material
- work still to come

our approach

- Developing a comprehensive preservation system for UBC Library:
  - New and legacy born digital archival material
  - cIRcle, DSpace-based repository
  - Digitized collections in CONTENTdm
  - Websites
  - Research data
- Working with Artefactual Systems Inc.

our strategy

- Use Archivematica as a tool to apply OAIS-compliant preservation processes
- Integrate Archivematica with existing systems used to manage digital objects
- Build internal technical and staff capacity

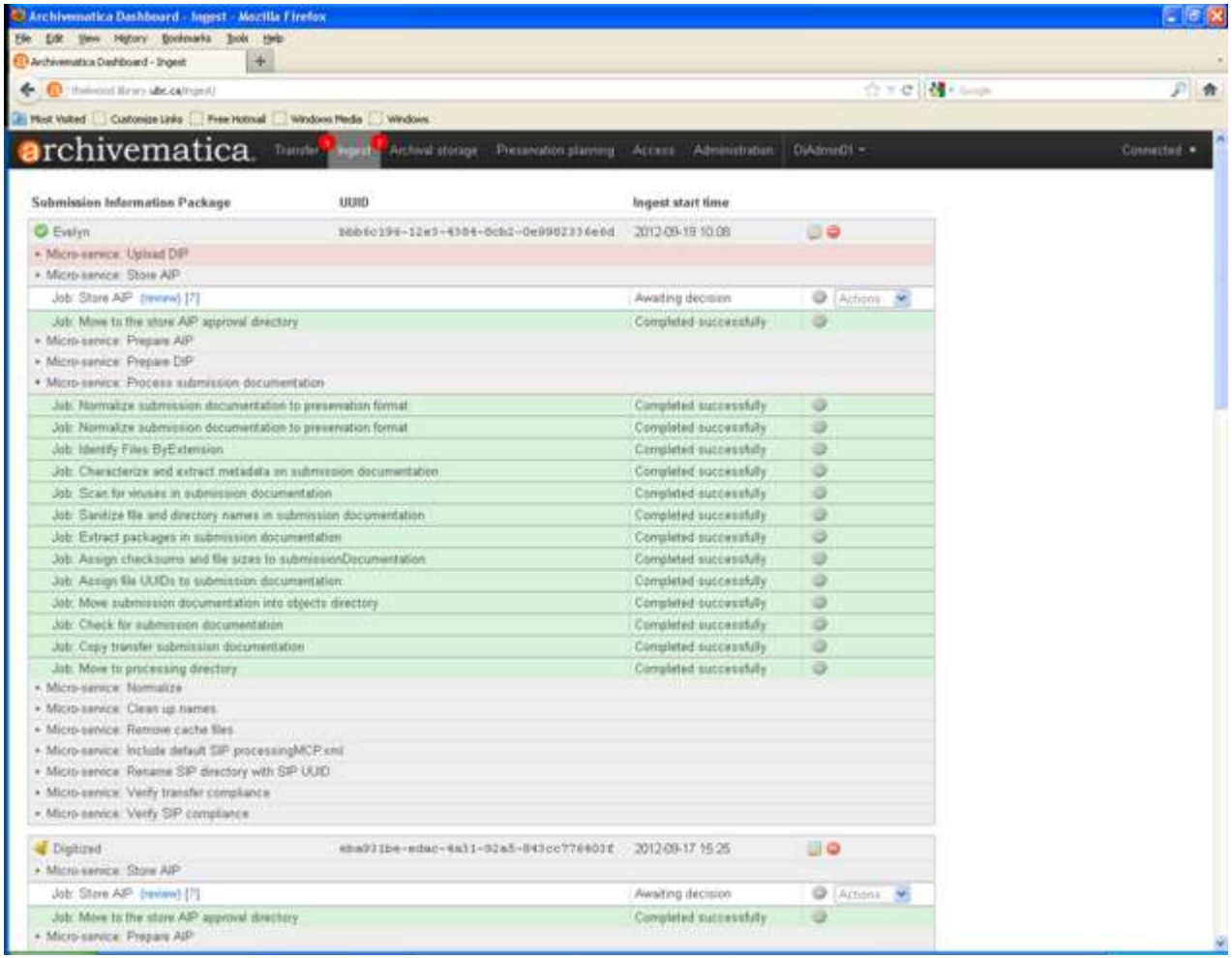
working with Artefactual

- 2011: gap analysis, identification of pilot projects, early testing of archivematica, begin tackling legacy media
- 2012: develop procedures for born-digital material, continue archivematica testing, begin CONTENTdm and DSpace integration development and testing
- 2013: move to archival storage, production services using archivematica 1.0

archivematica

- “a free and open source digital preservation system that is designed to maintain standards-based, long term access to collections of digital objects” http://www.archivematica.org
- micro-services provide integrated suite of software tools in compliance with ISO-OAIS model

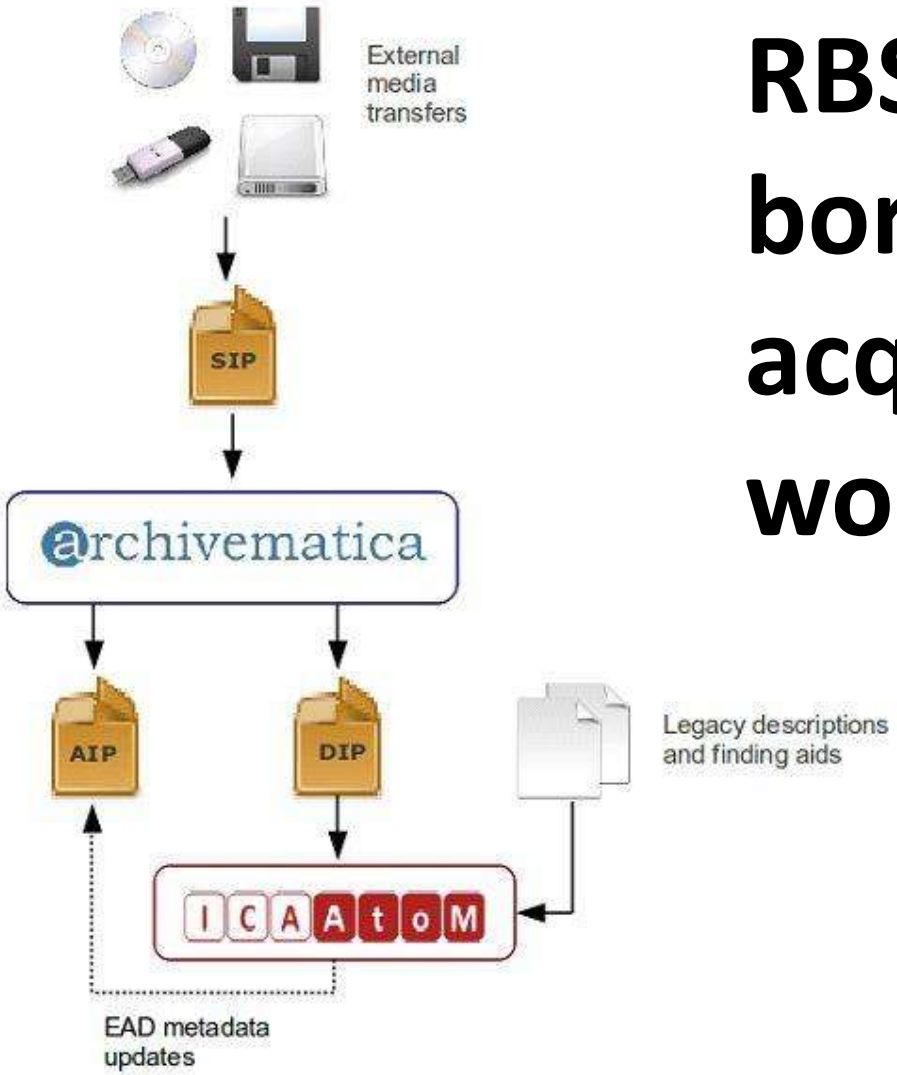
archivematica



legacy media

- Floppy and optical disks acquired with primarily analogue collections.
- Hardware set-up and technological challenges
- Intellectual challenges:
  - Arrangement and description
  - Selection of material
  - Rights

RBSC/UA born-digital acquisition workflow



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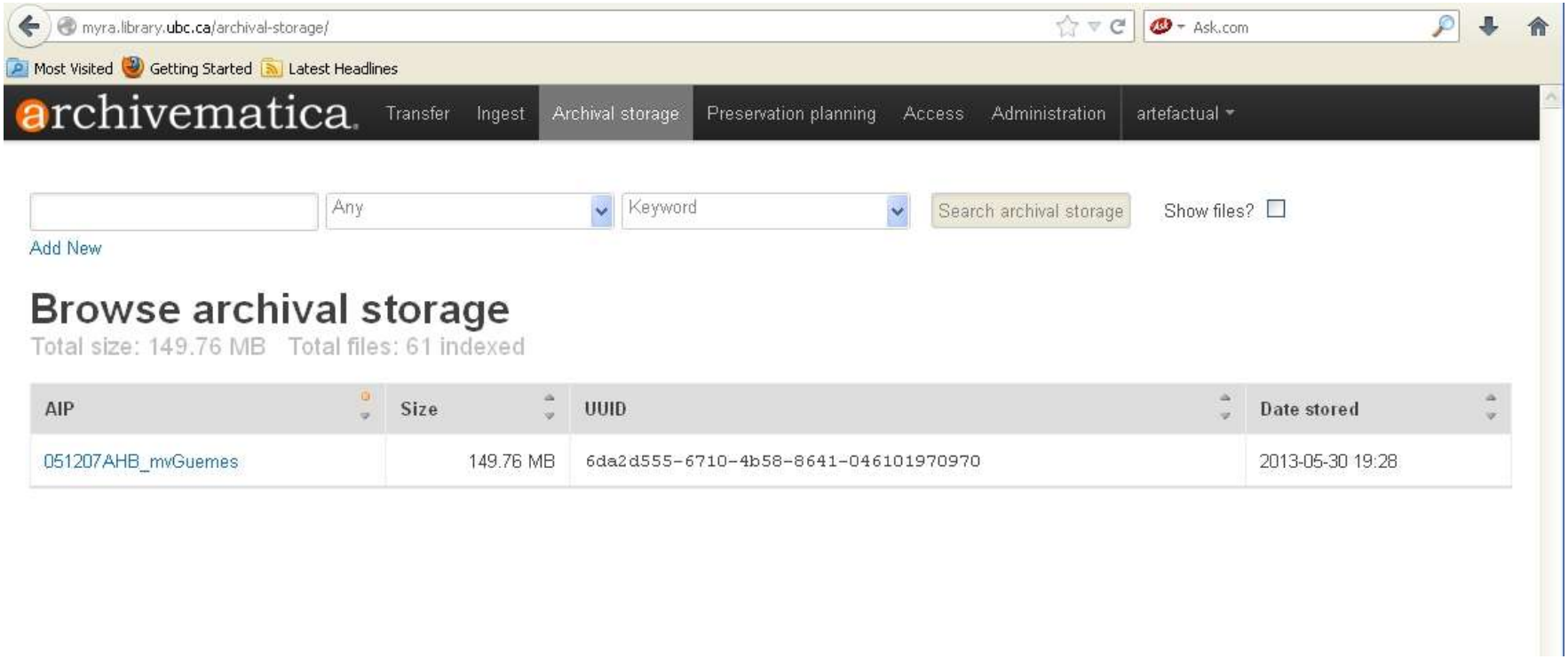
a new acquisition

The Library

- "First" born-digital acquisition
- Donor questionnaire
- Physical transfer of files
  - Hardware and software
  - Workflow documentation
- Donor gift agreement
- First AIPs stored April 2013; still in processing


myra.library.ubc.ca/archival-storage/
Ask.com
Most Visited
Getting Started
Latest Headlines
archivematica
Transfer
Ingest
Archival storage
Preservation planning
Access
Administration
artefactual
Any
Keyword
Search archival storage
Show files?
Add New
Browse archival storage
Total size: 149.76 MB Total files: 61 indexed
AIP
Size
UUID
Date stored
051207AHB_mvGuemes
149.76 MB
6da2d555-6710-4b58-8641-046101970970
2013-05-30 19:28

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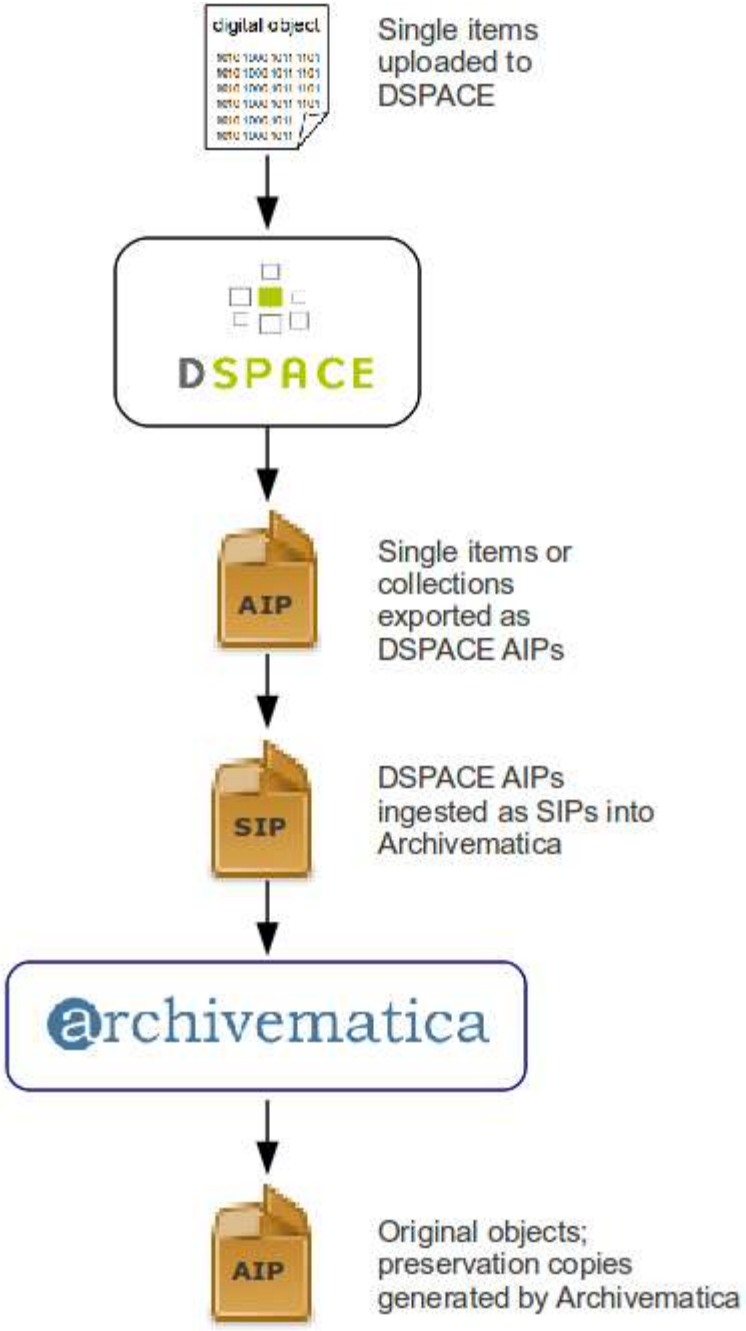
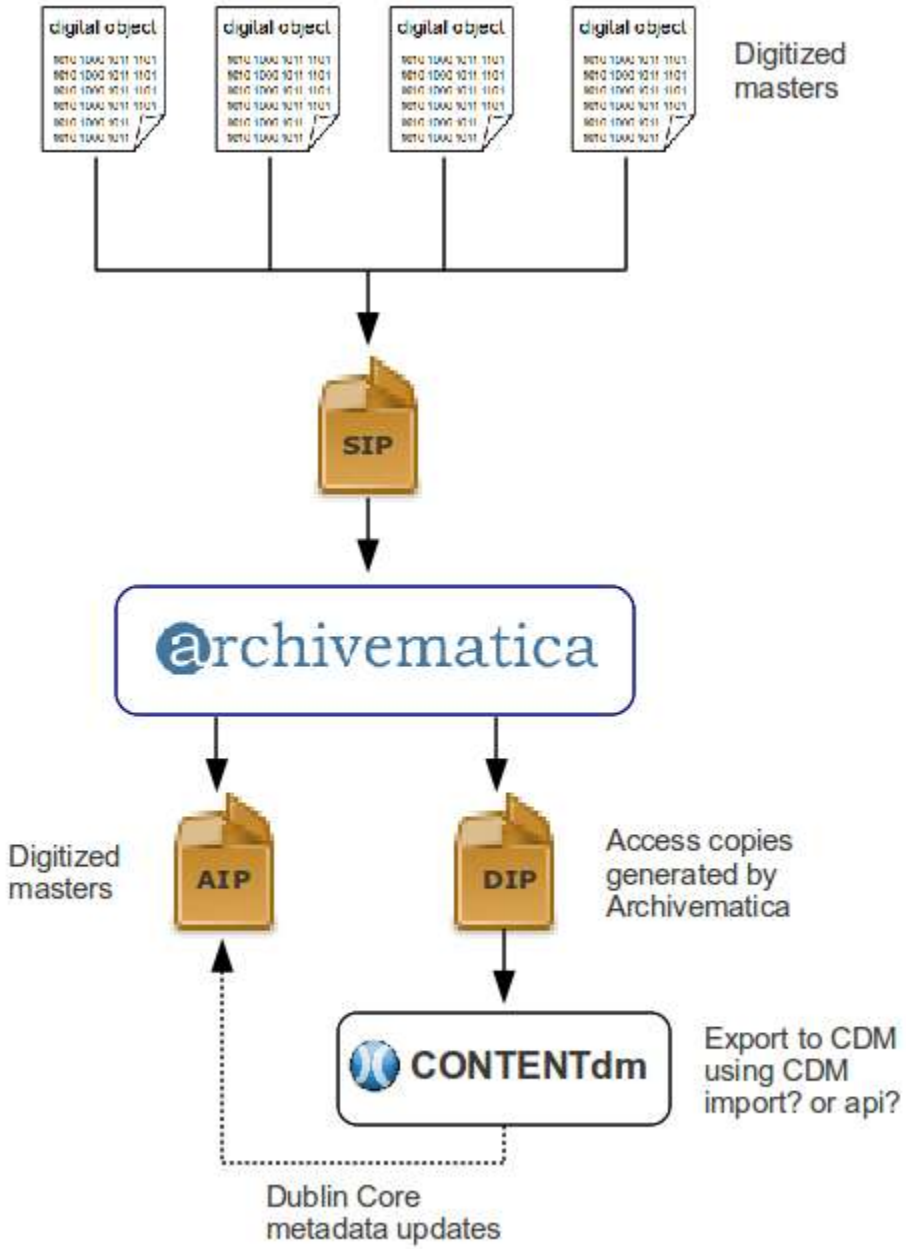
preservation levels

Level of Preservation	Use case	Minimum tools
Level 1	Imaging files from working hard drives, directly from creator	Write blocker, file synchronization software (e.g. Grsync)
Level 2	Imaging/copying files from external media	File synchronization software (e.g. Grsync), write blocker if possible
Level 3	Preserving external media only	Hardware necessary to open media (floppy drive, optical drive, etc)



cIRcle (DSpace)

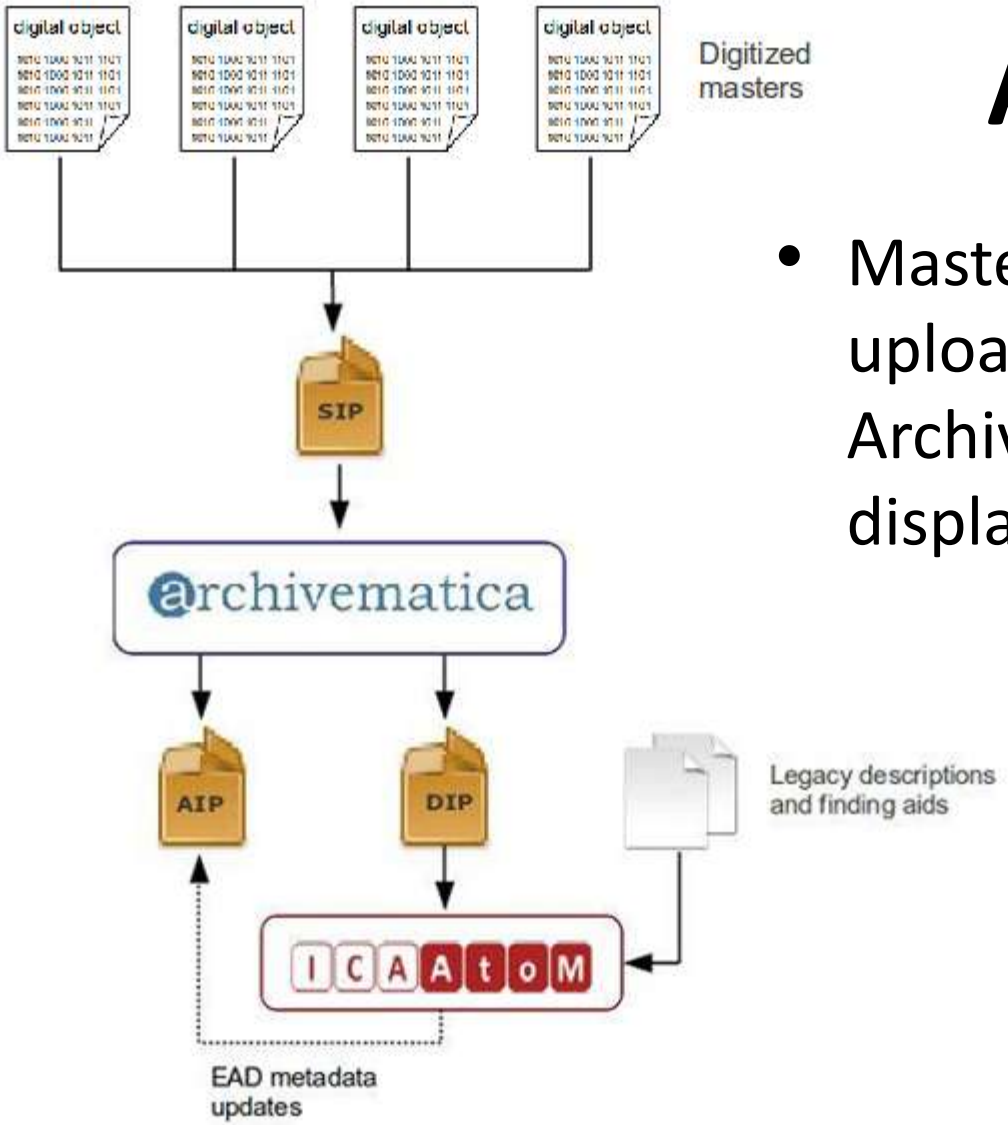
- Archivematica receives submissions from DSpace
- Also have Archivematica to DSpace workflow



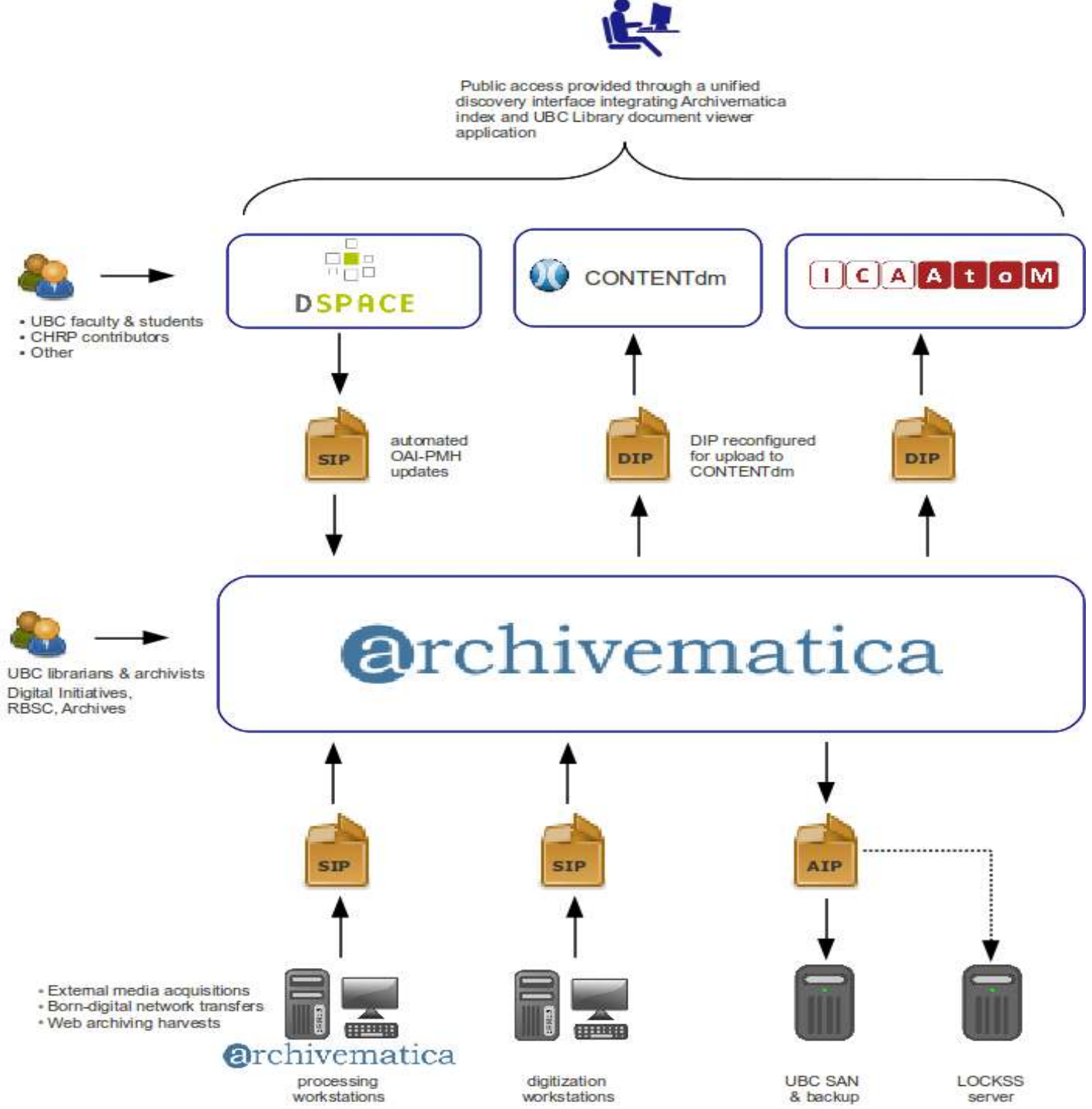
CONTENTdm

- Master files uploaded to Archivematica
- Archivematica produces access versions and pushes to CONTENTdm

AtoM



- Master files and PDFs uploaded to Archivematica for display in AtoM


Public access provided through a unified discovery interface integrating Archivematica index and UBC Library document viewer application
DSPACE
CONTENTdm
ICAAtoM
• UBC faculty & students
• CHRP contributors
• Other
SIP
automated OAI-PMH updates
DIP
DIP reconfigured for upload to CONTENTdm
DIP
archivematica
UBC librarians & archivists
Digital Initiatives, RBSC, Archives
SIP
SIP
AIP
• External media acquisitions
• Born-digital network transfers
• Web archiving harvests
archivematica
processing workstations
digitization workstations
UBC SAN & backup
LOCKSS server

next steps

- Create documentation, TRAC self-audit
- Fine-tune archival storage, scalability testing
- Research data
- BitCurator testing

conclusion

- Greater comfort with and understanding of the challenges around archiving digitized and born digital material
- Establishing comprehensive digital preservation program is complex!
- Having tools is important, also need policies and procedures