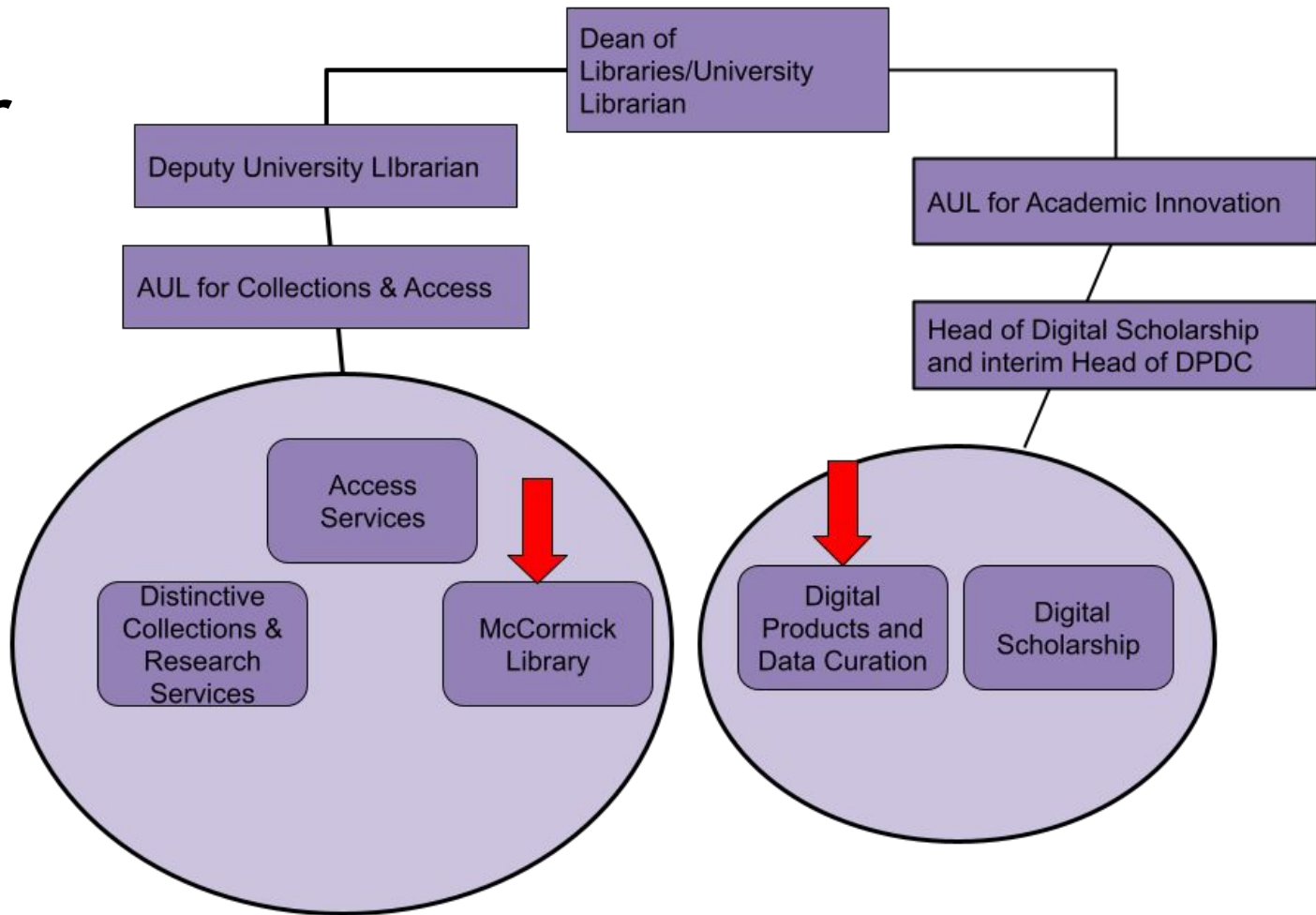


Born Digital: A Workflow in Progress

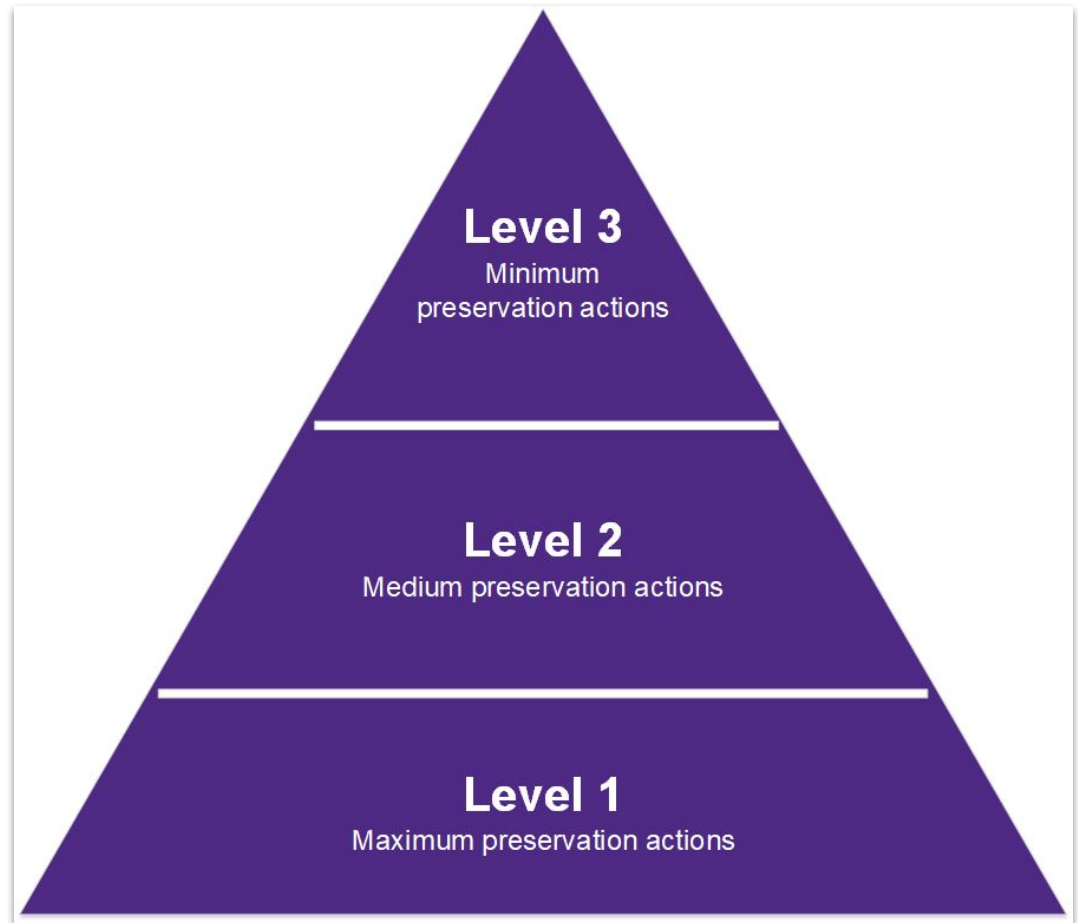
What is our context?



Levels of Digital Preservation

Digital Preservation Policy:

Northwestern University



Preservation Action	About	Level 1	Level 2	Level 3
File Format Migration	Migration to successive format upon obsolescence, if possible	x		
File Format Monitoring	Monitoring of file formats for obsolescence	x		
Persistent Identifiers	Provision of persistent, unique identifier for object and/or its metadata	x	x	
Preservation Metadata	Creation of preservation metadata	x	x	
Auditing	Regular fixity checks; data replacement or repair, when possible	x	x	x
Redundancy	Multiple copies of data in a diverse storage infrastructure	x	x	x
Security	Assigned access and availability restrictions and allowances	x	x	x
Storage	Storage of original bitstream	x	x	x
Virus Checking	Virus and malware checks on ingest	x	x	x

Digital Preservation Actions

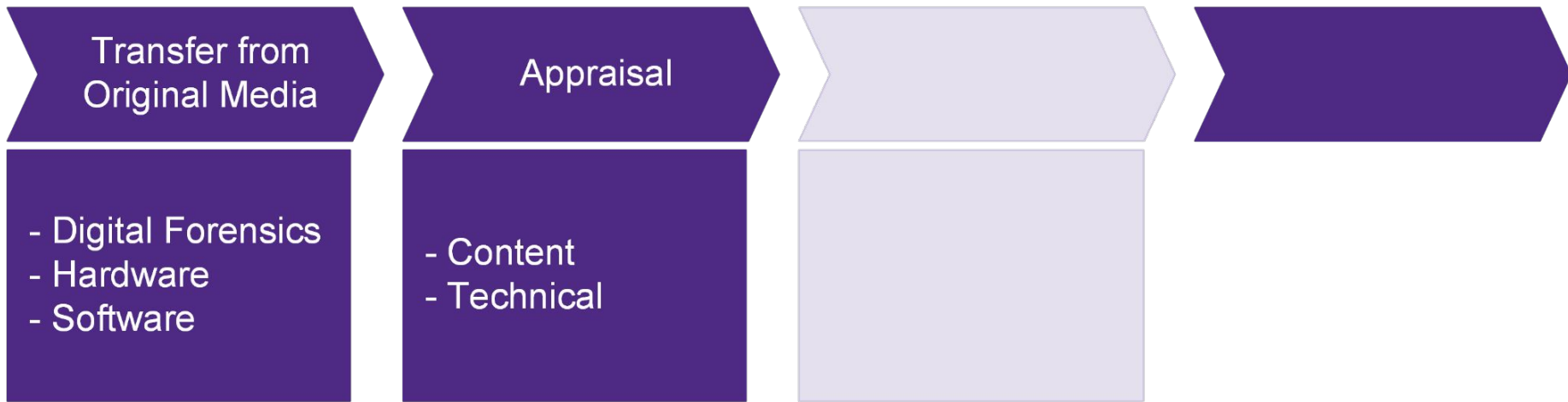
Born-Digital Archival Workflow

Born-Digital Archival Accessioning

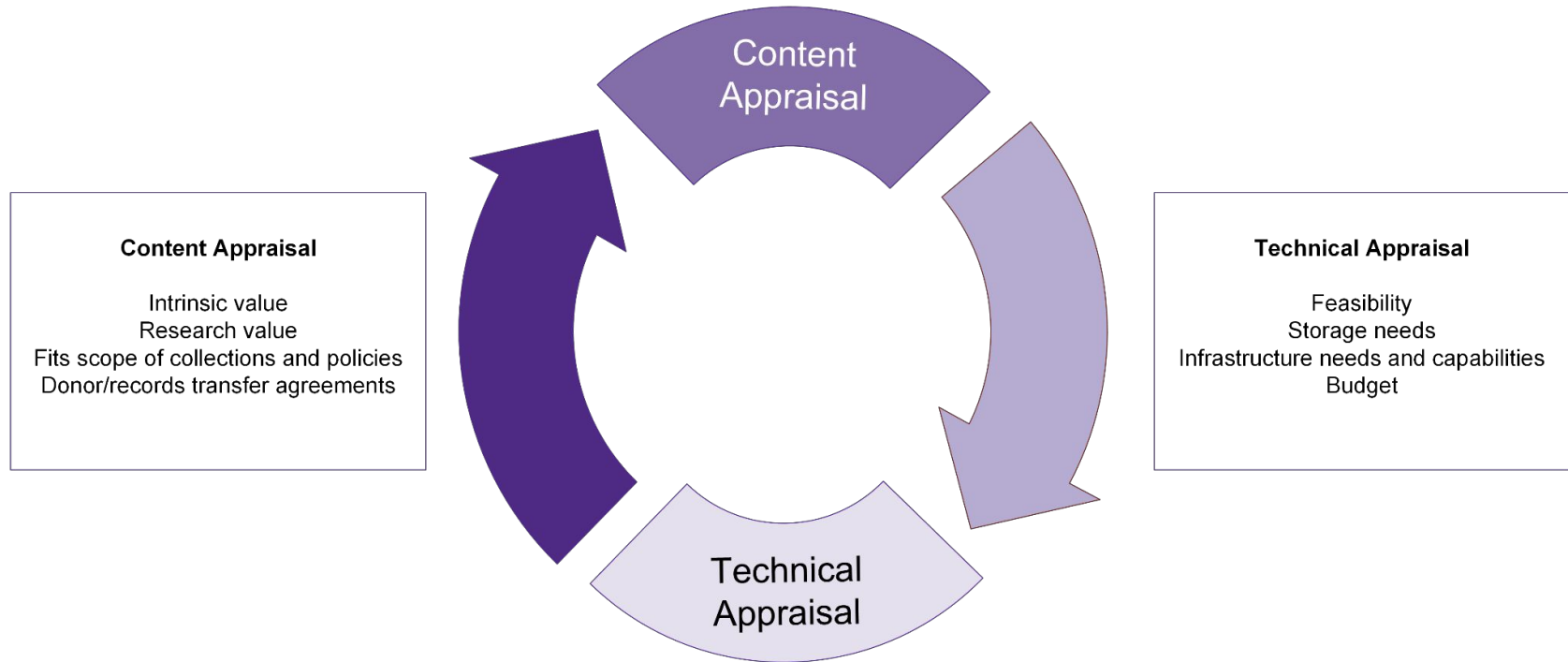
Transfer from
Original Media

- Digital Forensics
- Hardware
- Software

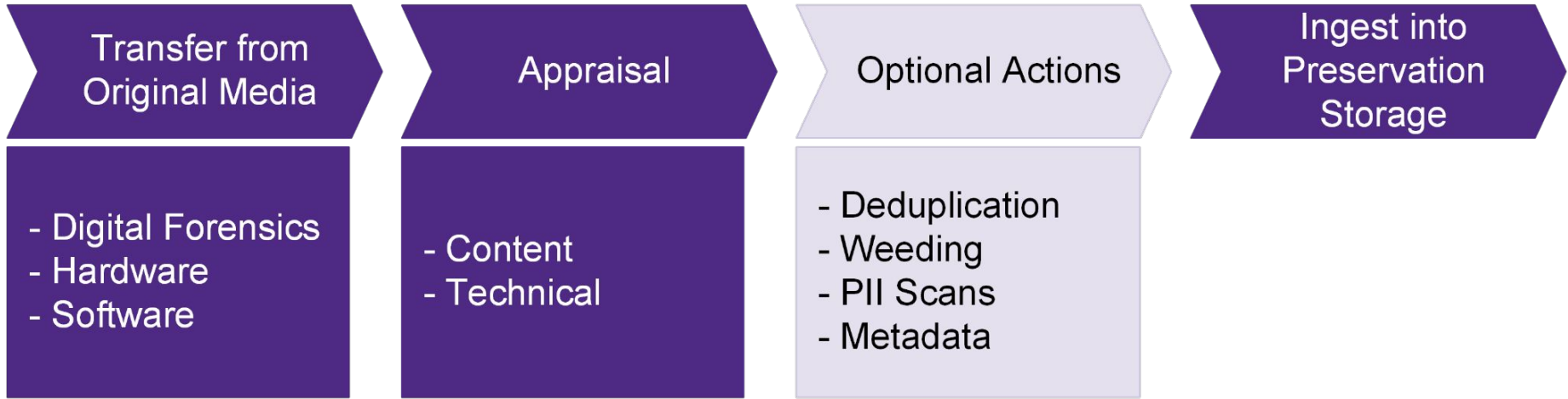
Born-Digital Archival Accessioning



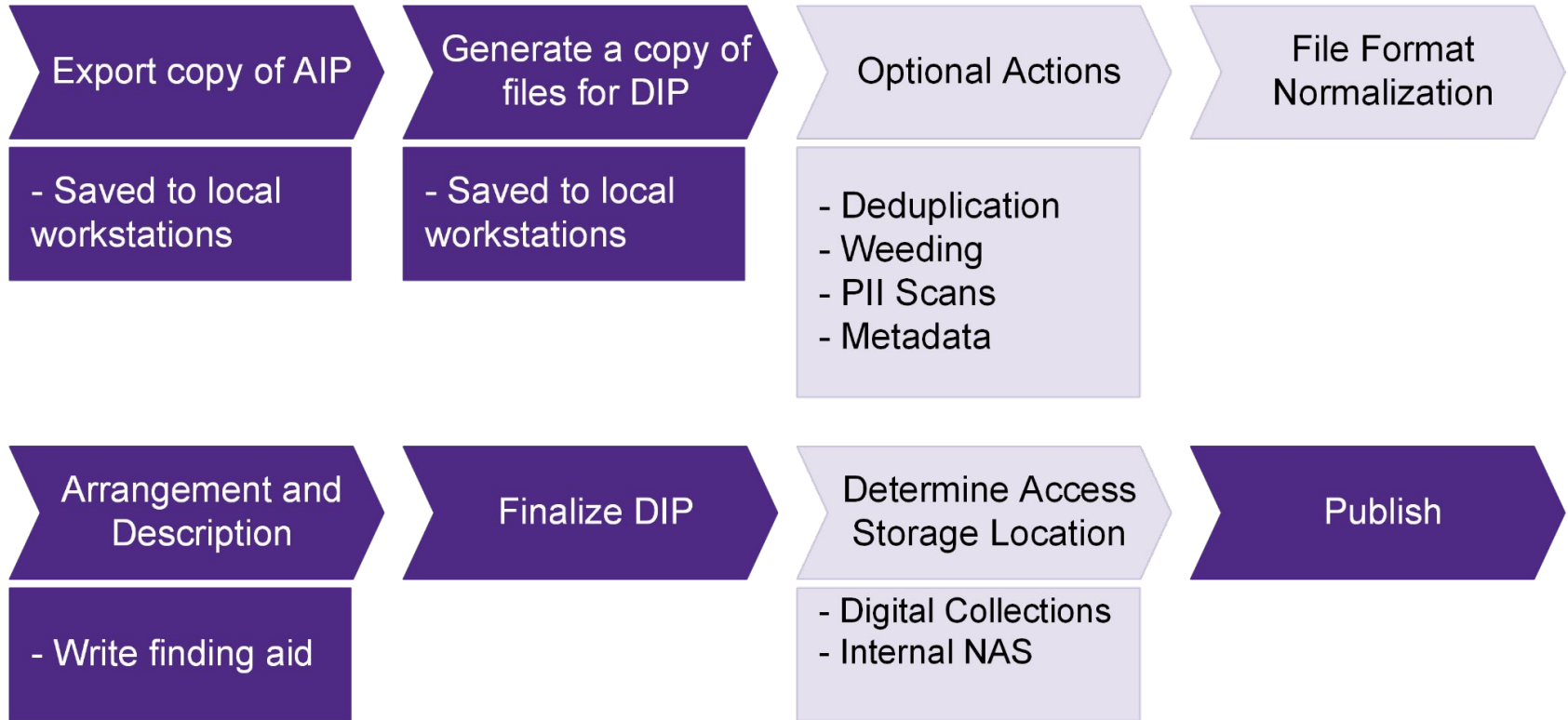
Born-Digital Archival Appraisal



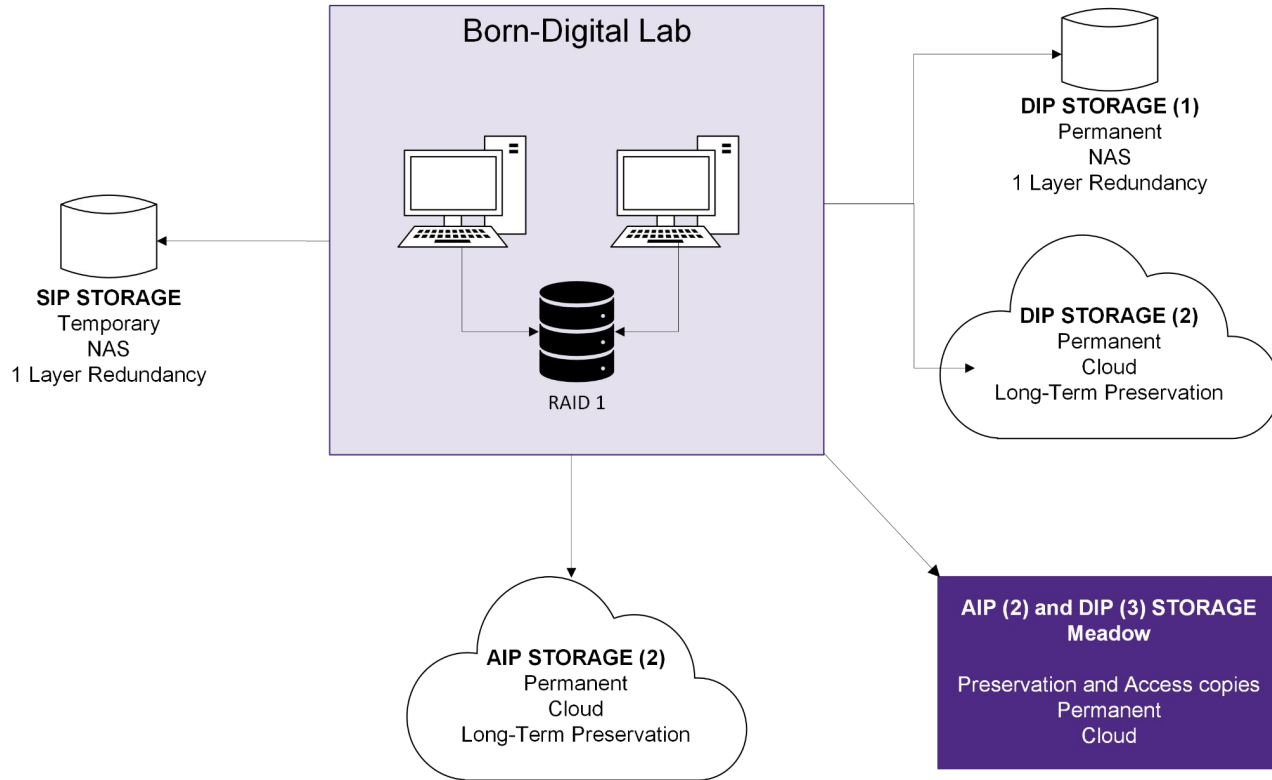
Born-Digital Archival Accessioning



Born-Digital Archival Processing



Born-Digital Archival Storage Architecture



Born-Digital Repository Workflow

Filter/Facet

Search

Search all works

Collection: Aldridge Collection Clear All

VIEW BULK ACTIONS (ALL WORKS)

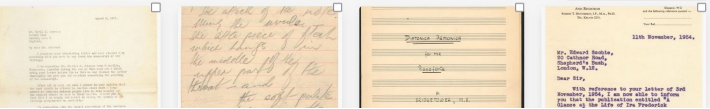
VIEW BULK ACTIONS (SELECTED WORKS)

LIST VIEW

GRID VIEW

658 results found in 50ms

Sort By Relevancy



Digital Collections: Public\researcher access

Meadow:

Preservation repository and management tool

Northwestern

Libraries About Contact Sign in

Libraries | Digital Collections

Search by keyword or phrase, ex: Berkeley Music Festival

Search

Browse Collections

Filter

Clear All

All

Image

Audio

Video

Public works only



rique occid.le



A map of the Gold Coast, from Issini to Alamp
Image



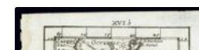
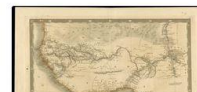
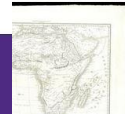
Novissima et perfectissima Africa descriptio
Image



Plan de la ville de Dakar en 1862
Image



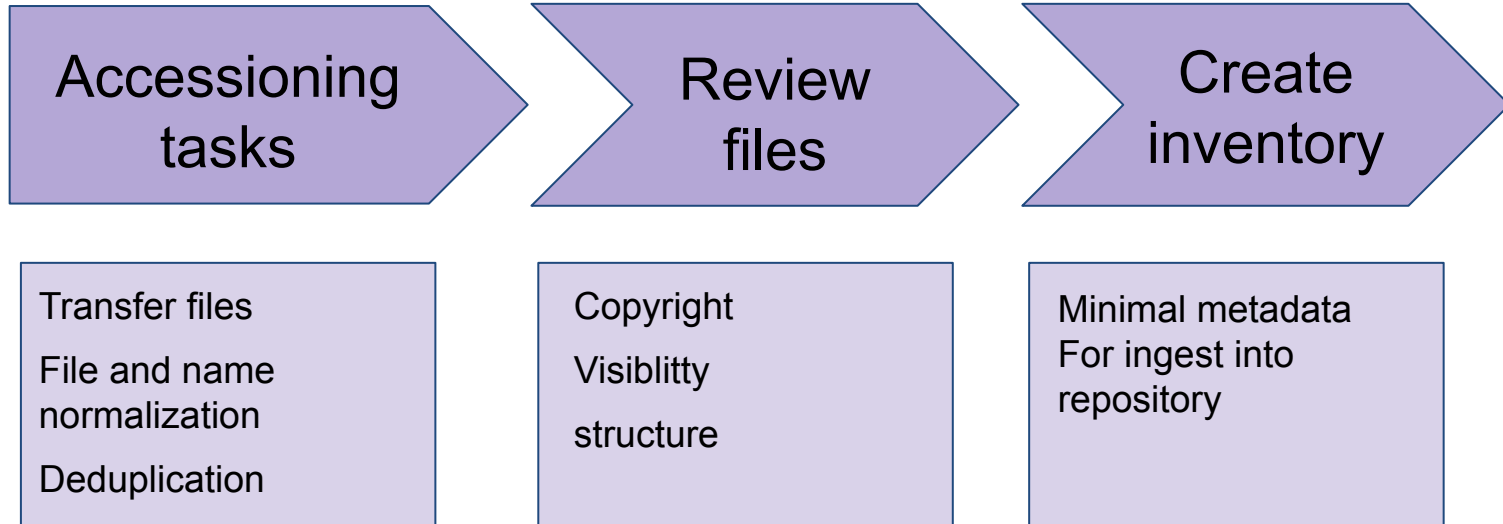
Carte particulière des costes de l'Afrique qui comprend le Royaume de Cacheo, le province de Gelofo, &c. : levée par ordre exprès des roys de Portugal, se qui on en a fait la découverte
Image



Meadow: Preservation First



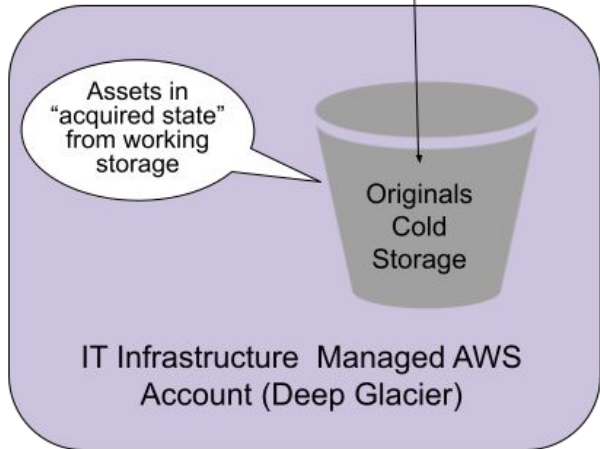
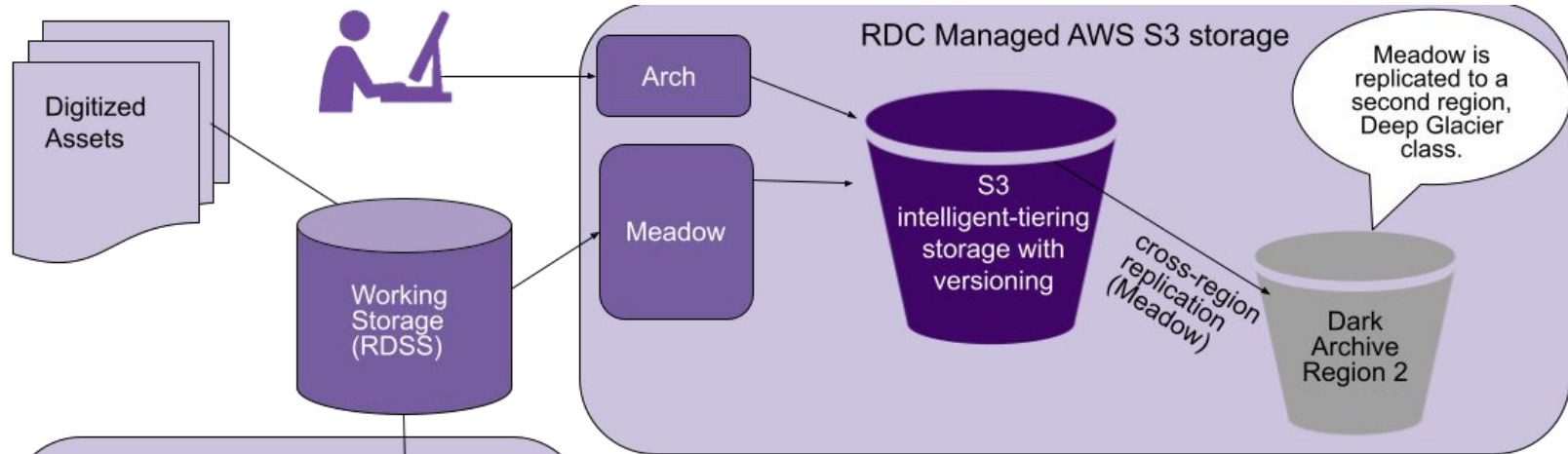
Intake and Assessment



Repository Accessioning

7 required metadata fields for ingest

B	C	D	E	F	G	H	I
work_type	work_accession_number	file_accession_number	filename	label	description	role	work_type
IMAGE	P0330_Cutler_v01	P0330_Cutler_v01_0001	P0330_Cutler_v01_0001.tif	front cover	front cover. Manasseh Cutler common place book 1762	A	IMAGE
IMAGE	P0330_Cutler_v01	P0330_Cutler_v01_0002	P0330_Cutler_v01_0002.tif	inside front cover	inside front cover (marbled)	A	IMAGE
IMAGE	P0330_Cutler_v01	P0330_Cutler_v01_0003	P0330_Cutler_v01_0003.tif	front flyleaf, recto	front flyleaf (marbled)	A	IMAGE
IMAGE	P0330_Cutler_v01	P0330_Cutler_v01_0004	P0330_Cutler_v01_0004.tif	front flyleaf, verso	verso of front flyleaf (blank)	A	IMAGE

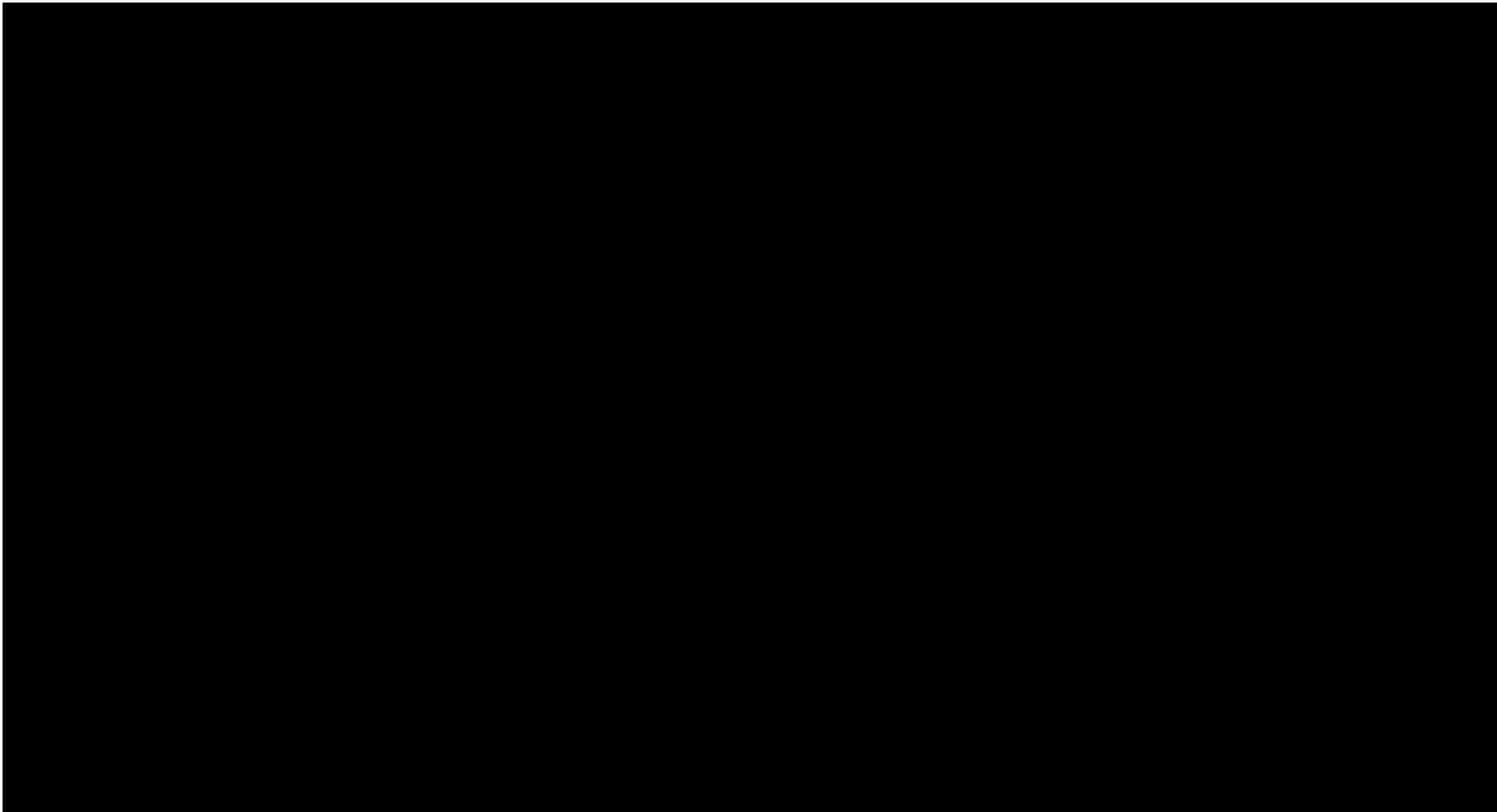


Workflow

- Assets come in from vendor or local
- Staged on RDSS (working)
- Ingested into repository, replicated to Deep Glacier
- Human readable package of files moved to "cold" storage

Outcome:

- Assets in 2 regions and a minimum of 5 availability zones and 3 logical versions



Example: Black Experience Oral Histories

Hearing Silences Documentary Interviews Accession

Basic Information

Title	Hearing Silences Documentary Interviews
Identifier	2024-147
Accession Date	2024-11-18
Publish?	False
Content Description	50 Years of Black Women Faculty at Northwestern University includes full-length interviews from the 2024 documentary. It explores their trials and triumphs in becoming pioneering figures in their respective fields and the impact they've made across university departments and campuses. The interviews were conducted by Digifé video production company, and produced in collaboration with Ava Thompson Greenwell, professor at Medill School of Journalism, and Diana Slaughter Kotzin, Professor Emeritus and first tenured Black professor in the School of Education and Social Policy at Northwestern University.
Provenance	Ava Thompson Greenwell
General Note	12 video/audio interviews and 14 transcripts
Acquisition Type	Gift

Northwestern Libraries About Contact Sign in


Libraries | Digital Collections

Search by keyword or phrase, ex: Berkeley Music Festival Browse Collections


Use Generative AI ⓘ Search →

Filter Reset All Image Audio Video Public only


23 results View as IIIF




Toni-Marie Montgomery
Video




Eileen Cherry-Chandler
Video




Sandra Richards
Video



[Name]
Video



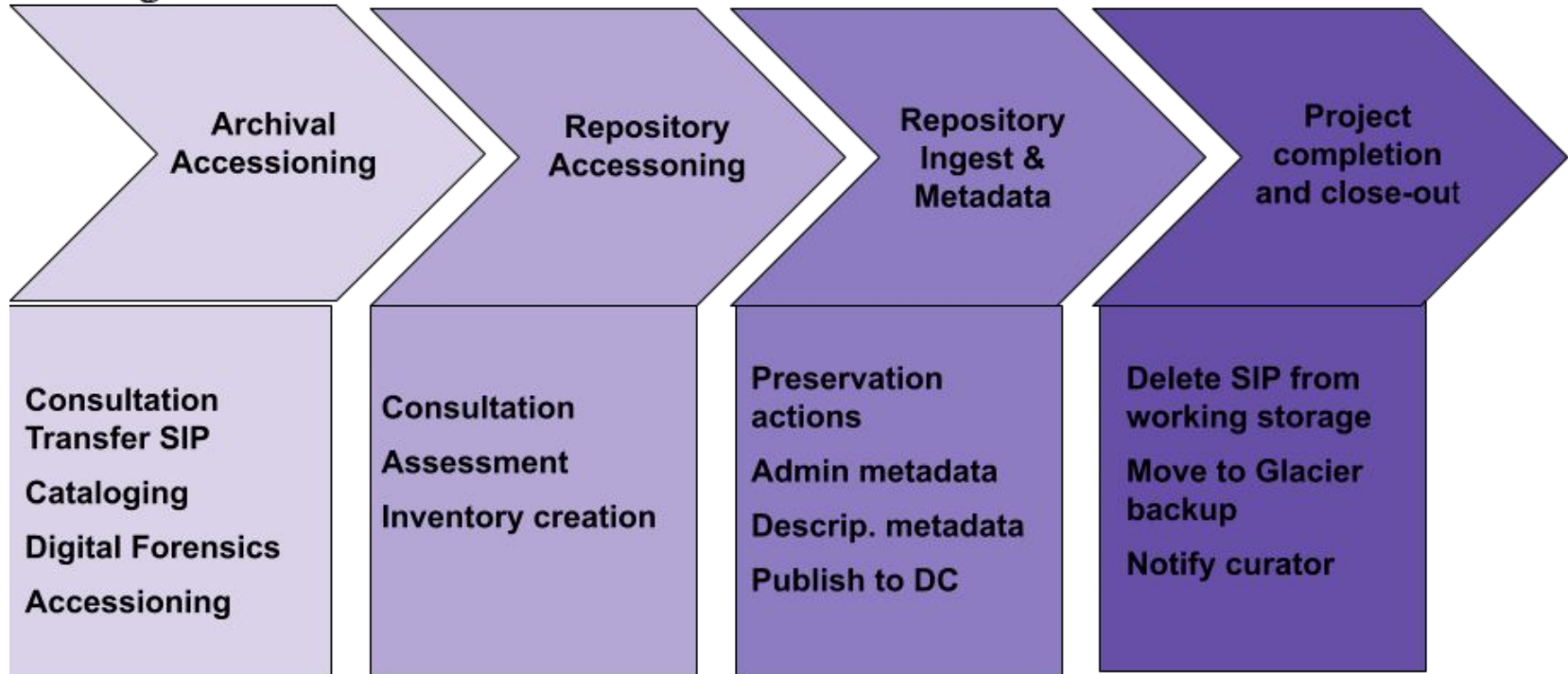
[Name]
Video



[Name]
Video

DPDC Notified of
new project

Bringing it all together



Thank you!

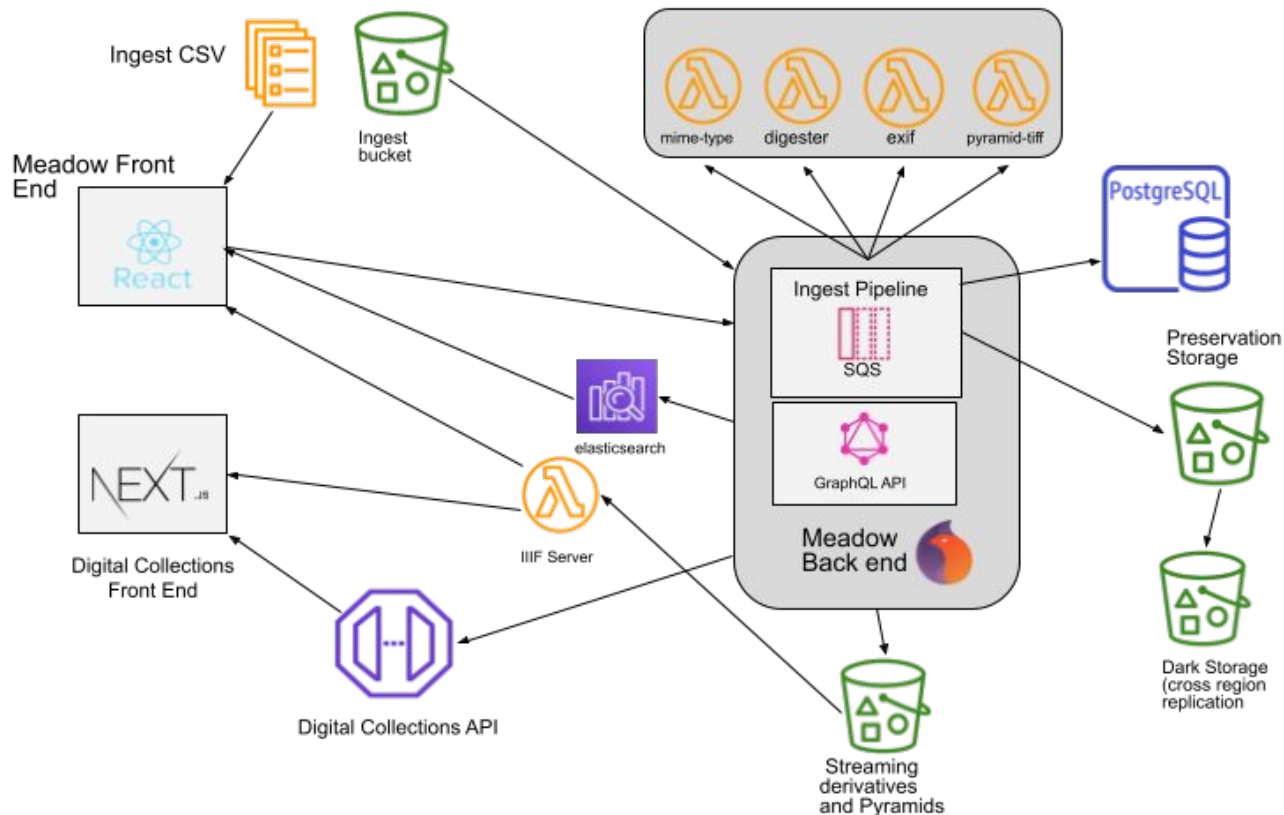
Questions?

Contact:

veronica.robinson@northwestern.edu

kelsey.oconnell@northwestern.edu

Supplemental: Meadow Repository Architecture



Supplemental: Archival Tools

Hardware:

- Tableau Forensic Bridge write blocker
- Kryoflux board and floppy drives
- Optical disc drives
- External floppy disk drives
- External SD card readers
- 2 Custom Windows PCs
- 1 Mac desktop
- Lots of cables, connectors, and converters!

Supplemental: Archival Tools

Software

- Virtual machine for Linux
- FTK Imager
- TeraCopy
- SleuthKit / Autopsy
- dupeGuru
- Exact Audio Copy
- LibreOffice suite
- OpenOffice
- BulkExtractor
- ffmpeg
- ImageMagick
- GIMP
- Audacity
- Handbrake
- Bulk Rename Utility
- Brunnhilde
- Siegfried
- cdrdao
- Guymager
- DROID
- readPST
- grsync & rsync

Supplemental: Curators' Decision Tree for joint workflow

Born-Digital Project workflow: Meadow/DC Items Curators' Workflow

