

AV Description with AVPreserve & Indiana University

Strategies and tools to describe AV materials at scale for Indiana University's MDPI



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MDPI: Media Digitization and Preservation Initiative

<https://mdpi.iu.edu/>

Goal: “To digitize, preserve and make universally available by IU’s Bicentennial —subject to copyright or other legal restrictions—all of the time-based media objects on all campuses of IU judged important by experts.”



INDIANA UNIVERSITY

2009 Media Preservation Survey

IUB

560,000+ audio, video, & film objects

50+ formats

80+ units

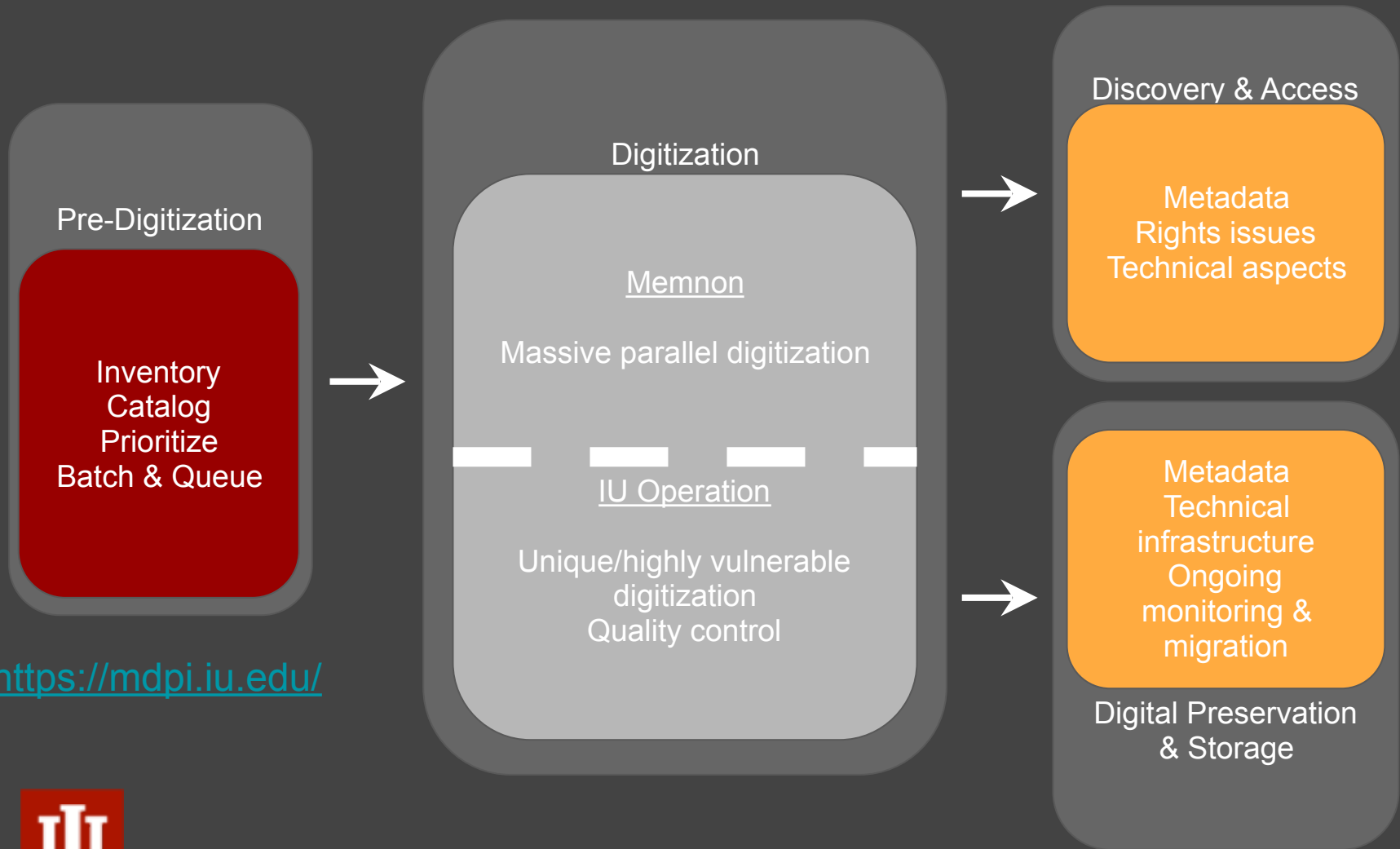
Actively degrading, obsolete formats, high risk of loss of content over next decade

15- to 20-year window to digitally preserve audio and video holdings



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Digitization & Preservation: Phases



<https://mdpi.iu.edu/>



Audio Item

Library catalog
record

Unidentified
segments

The screenshot displays a digital library record for an audio item. At the top, a browser window shows the URL https://oantant.mdpj.ku.edu/media_objects/awon.76545. Below the browser is a media player with a progress bar at 00:00. The main content area lists two parts of the audio item:

- 1. LP 1/1 Part 1 (40000000597890) (22:25)
 - 1. Segment 1 (04:12)
 - 2. Segment 2 (06:23)
 - 3. Segment 3 (04:02)
 - 4. Segment 4 (03:56)
 - 5. Segment 5 (03:23)
- 2. LP 1/1 Part 2 (40000000597890) (21:37)

The right sidebar contains detailed metadata:

- Title:** "Down in honky tonk town" / Dick Oxtot's Golden Age Jazz Band.
- Date:** 1980
- Main contributor:** Dick Oxtot's Golden Age Jazz Band.
- Contributor:** Dick Oxtot's Golden Age Jazz Band.
- Publisher:** Ahoolie
- Subjects:** Cleveland music; Swing (Music); Jazz
- Time period:** 1971-1980
- Collection:** Archives of Traditional Music
- Unit:** Archives of Traditional Music
- Language:** English
- Physical Description:** 1 sound disc : analog, 33 1/3 rpm ; 12 in.
- Notes:** Traditional jazz and swing music. Descriptive notes by Philip Elwood on container.
- LOCAL NOTE:** 12 J 7321
- PERFORMERS:** Dick Oxtot, vocals and banjo, with Terry Garthwaite, Pamela Poland, and Rita Black, vocals, and other instrumentalists.
- STATEMENT OF RESPONSIBILITY:** Dick Oxtot's Golden Age Jazz Band.
- COMMENTS:** Down in honky tonk town / Chris Smith, Charles McCannon -- Going away blues / Inad. -- Moonlight and roses -- Somebody's doing what you wouldn't do / Ross Henderson -- Get up and start doin' it / Richard Oxtot -- Nobody knows / Lester Young -- New Orleans hop skip blues / George W. Thomas -- Cradle song / Edward Dry -- Don't get around much anymore / Duke Ellington, Bob Russell -- It's toky.
- VENUE/EVENT DATE:** Recorded at the Automat, San Francisco.
- Other Identifiers:** Other: 783489; Issue Number: 4010 Ahoolie; Catalog Key: 783489; OCLC Number: 1081857; Online Only: 02030007



Video Item

Little descriptive
metadata

Info packed in title
field

Also unidentified
segments

The screenshot shows a web browser window displaying the MDPI Internal Content Access interface. The page features a red header with the Indiana University logo and the text "INDIANA UNIVERSITY" and "MDPI Internal Content Access". Below the header, there are navigation links: "Manage Content", "Manage Groups", "Manage Selected Items (3)", and "Playlists". A search bar is located in the top right corner. The main content area includes a video player with a play button overlay. To the right of the video player, there is a metadata section with the following information:

- Title:** 2/1/02 Women's BBall Player Profile Interviews: Heather Cassidy Coach Bennett
- Date:** unknown/unknown
- Main contributor:** Unknown
- Collection:** Radio and Television Services
- Unit:** Radio and Television Services
- Other Identifiers:** Other: GR00100574; Other: WTLUS89

Below the metadata, there are two buttons: "View Raw Metadata" and "View Factors Objects". At the bottom of the page, there is a "Sections" section with the following list:

1. Betacam 1/1 Part 1 (40000000082568) (31:38)
2. Segment 1 (19:24)
3. Segment 2 (10:24)
3. Segment 3 (21:45)



Research and Outcomes

Methodology



+



Phased approach

Multiple systems

Integrated workflows



Applied permissions	Gender	Physical description
Applied permissions note	Genre	*Publication status
Beats per minute	Geographic (Recording location)	Publisher
Collection	Geographic other	Relationship
Color information	Identifiers	*Rights holder
Color/B&W	Keywords	*Rights status
*Date created	Language	*Role (for names)
Date other	Links & relationships	Sound/silent
*Default permissions	*MDPI barcode	Source (Provenance/Donor)
*Department/Unit	Music present	Subjects
Duration	Music/Speech	Target audience
Ethnicity	*Name	*Title
Event	Notes	Type of Resource
Frequency information	Parts/components	Type of title
Full text		Year of renewal



Phase One Goals

- 1) Required and prioritized fields
- 2) Workflow triggers
- 3) Rights & access

Phase Two

- 1) Phase One metadata fields
- 2) Unstructured & structured text
- 3) Unstructured -> structured

Phase Three

- 1) Phases One & Two fields
- 2) Triangulate
- 3) Fields of value to one or more units

Minimize complexity/costs

Maximize implementation

Phase One MGMs

Commercial content identification
Human generation
Human transcription
Legacy closed caption recovery
Legacy date/time & timecode capture
Memnon output
Music vs speech detection
Queried/Imported data sets
Segmentation
Shipping manifest (POD)
Silence detection
Tech-embedded metadata

Phase Two

Facial recognition
Linked data
Named entity recognition
Natural language processing
Paper & video OCR
Phoneme analysis
Speech to text
Subtitle recovery
Speech-to-text comparison & weighting

Phase Three

Artificial intelligence
Audio frequency analysis
Beats per minute detection
Chroma analysis
Content matching
Genre detection
Speaker identification

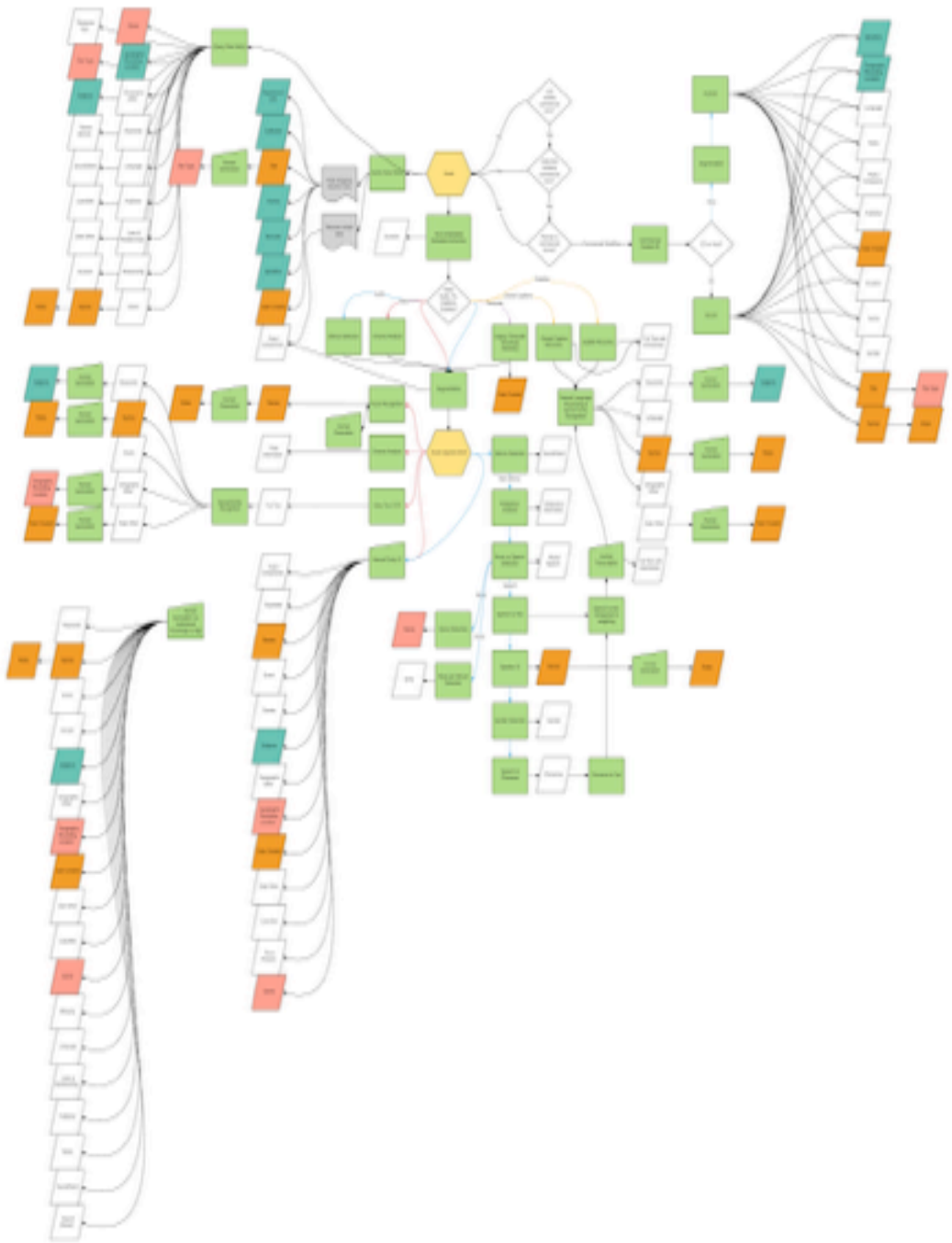
DOCUMENT INFO

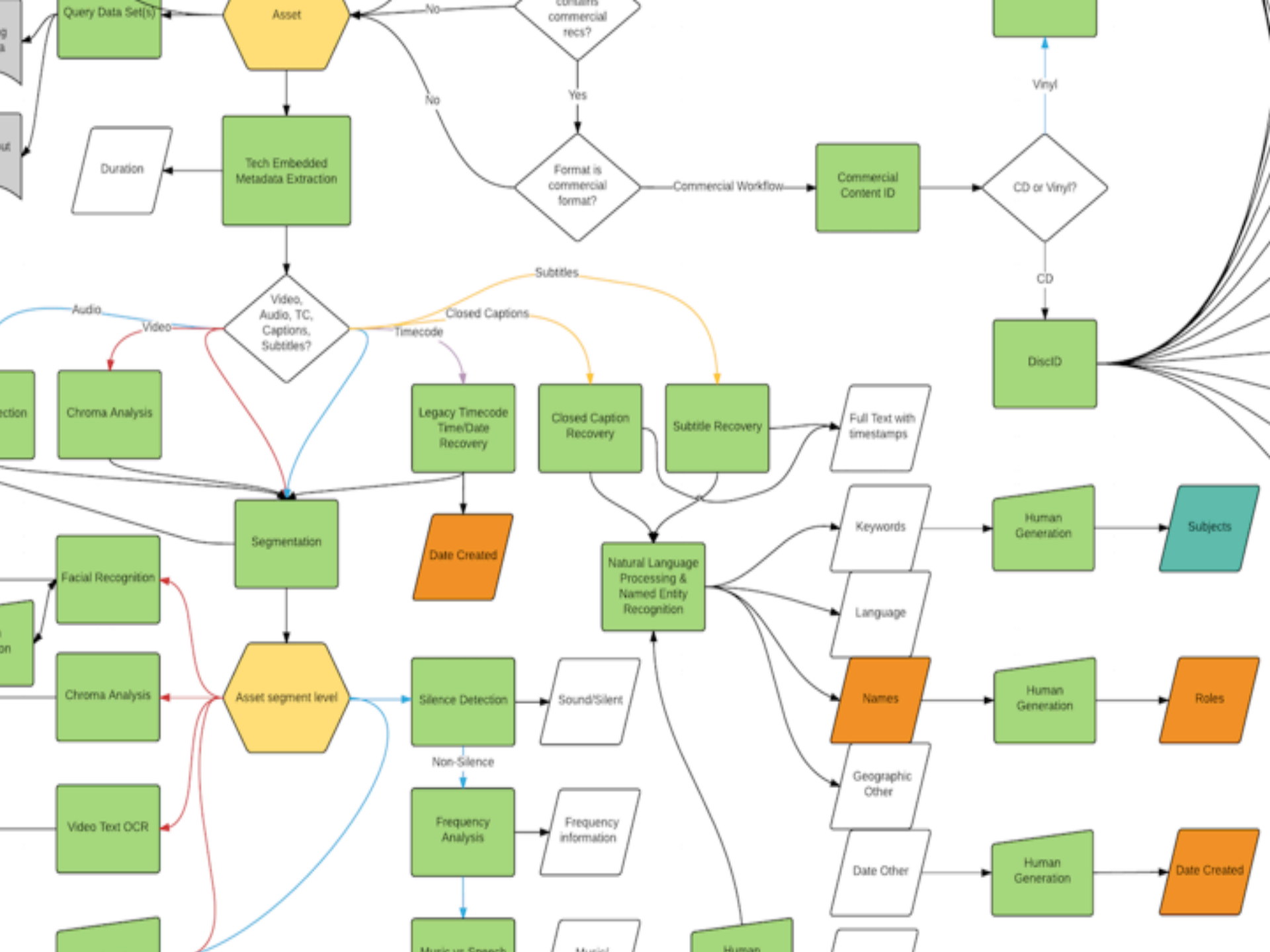
Project: ...
Version: ...
Date: ...

LINE LEGEND



SHAPE LEGEND







Considerations



Multiple, phased & simultaneous integrated workflows



Human input & automation work in tandem



Endless possibilities

MDPI Next Steps

Phase 0.5 - MDPI Access Workflows Task Force

Workflow for items with library catalog record info

And rights

Workflow for collections with library catalog record info and
EAD (finding aids)

And rights

Recommend changes to systems to support new workflows

Recommend software for tracking rights and access decisions

Recommend staffing needs



MDPI Next Next Steps

Find collaborators

Find grant funding

Find a way to implement Phases 1-3!



Thank you!



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