2009 Media Preservation Survey Findings

- More than 560,000 audio, video, and film objects are owned by the Bloomington campus on more than 50 formats housed in more than 80 units
- Actively degrading, obsolete formats, high risk of loss of content over the next decade
- We have a 15- to 20-year window of opportunity to digitally preserve audio and video holdings.
2011 “Meeting the Challenges of Media Preservation”

Key Recommendations
• Preservation planning
• Facility Development
• Facility operation and workflow development
• Prioritization
• Strategies for Film
• Technology infrastructure needs
• Access
• Collaboration
2013 Announcement: Media Digitization and Preservation Initiative

Goal: Digitize, preserve, provide access to rare and unique audio and video by 2020 – all IU campuses
Public-Private Partnership

Memnon Archiving Services
Brussels, Belgium
Digitization and Preservation: The Phases

Pre-Digitization
- Inventory
- Catalog
- Prioritize
- Batch & Queue

Digitization
- Memnon
  - Massive parallel digitization

IU Operation
- Digitization of selected unique and highly vulnerable formats
- Quality control

Discovery and Access
- Metadata
- Rights Issues
- Technical aspects

Preservation and Storage
- Metadata
- Technical infrastructure
- Ongoing monitoring and migration
- Digital Preservation and Storage
Organizational Structure

- IU Operations
- Memnon Archiving Services, USA
- IT Team
- MDPI Operational Task Force
Bins, Boxes, Barcodes, Batches
Batches: Format Based
Preparations

- Starting with:
  - William and Gayle Cook Music Library
  - Archives of Traditional Music
  - Open reel tapes, DATs, and CD-Rs
MDPI Information Technology Challenges

- University Information Technology Services
- Indiana University Libraries
Workflow Support: POD
What is Memnon sending to us

- **Preservation Master File**
  - Audio: Broadcast WAV (96/24)
  - Video: 10-bit uncompressed (QT .mov)

- **Mezzanine File**
  - Audio: Broadcast WAV (96/24)
  - Video: 50 Mbps Iframe-only MPEG-2

- **Throw-away Access File (for QC)**
  - Audio: MPEG-4 AAC
  - Video: MPEG-4 H.264

- **Metadata**
  - checksums, process history
Post-Digitization File Workflow

MDPI Item → Scholarly Data Archive → Automated QC → SIP/AIP

Manual QC

Transcoding → Preservation Repository → Access Repository
Metadata for Preservation and Access

- Descriptive
  - Library catalog/POD
- Technical
  - File and original object characteristics
  - Checksums
- Process History
  - Digitization and preservation process
- Structural
  - Support navigation within an object
Access Technology

Indiana University
IUCAT

Archives Online at Indiana University

Oncourse

Avalon Media System
Long-Term Preservation Technology

- 9 petabytes+ to be preserved
- Local storage
  - UITS Scholarly Data Archive
  - Fedora 4 repository layer
- Out-of-region storage
  - APTrust, DPN
  - Data swap agreements
MDPI Challenges

- Dealing with rights issues at scale
- Descriptive metadata and discovery
- Quality control strategies for mass digitization
- Strategies for born-digital media
- Out-of-region preservation storage
- Approach for film
Questions/Discussion

See more at:

mdpi.iu.edu

Reports and background:

www.indiana.edu/~medpres/