# Variations On Video project update

DLF Fall Forum 2010

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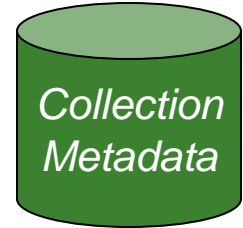# Variations Overview
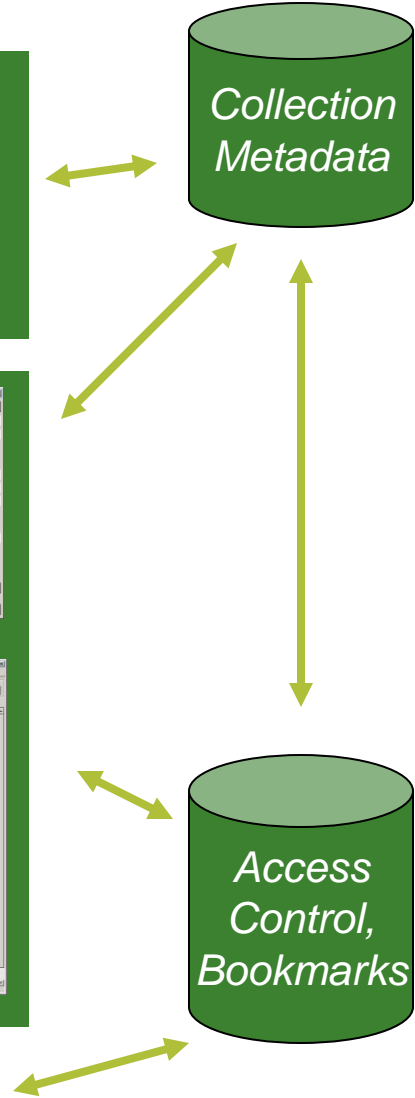
# Variations History

- Developed at Indiana from 1994-present
- Released as open source in 2009
  - variations.sourceforge.net
- Six month planning grant from IMLS, August 2010

# Motivations

- Requests to expand Variations to support video

- Digital video services maturing, need scalable solutions

- Libraries have some unique needs in
  - Metadata
  - Integration
  - Access control

# Video content use cases

- Serving local communities of students and scholars
- Serving researchers everywhere
- All the quirky things that find their way into library video collections

# Legal issues

- Confusing mishmosh of exemptions
- Tradition of tiered pricing, PPR
- Expiring distribution rights, limited term licenses (Eyes on the Prize)
- TEACH
- DMCA
- Whither fair use?
- Rise of the digital license

# Variations on Video

Add online video access capabilities to Variations, providing equivalent access, annotation, and analysis tools to support teaching and learning.

- Initial planning grant, Aug 2010 – Jan 2011 from the Institute of Museum and Library Services
- IU & Northwestern are lead institutions
- Funding multi-institutional collaboration on functional and technical requirements
- Goal: Submit full implementation grant proposal to IMLS

# Variations on Video: Scope
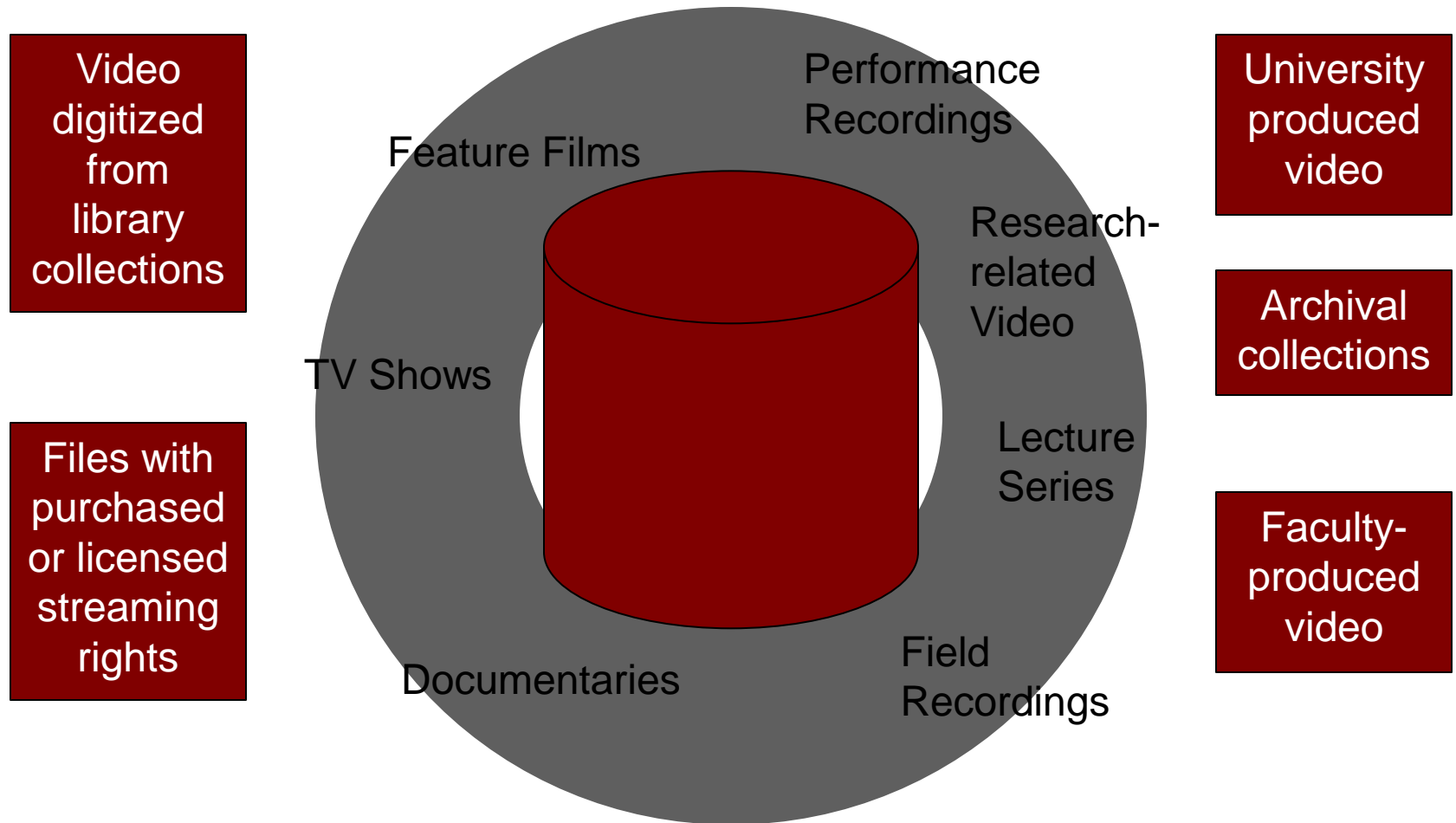
- Access to managed collections
  - Video, audio
  - Focus on libraries, archives
  - Research, teaching, and learning use
  - Variety of access control requirements
  - Integration with preservation repository services

- Ad-hoc faculty/student uploads ☒
- Classroom capture ☒
- Live streaming ☒
- Working digital assets – media production ☒

# Variations on Video: Content

Video digitized from library collections

Feature Films

Performance Recordings

University produced video

Research-related Video

TV Shows

Files with purchased or licensed streaming rights

Lecture Series

Archival collections

Documentaries

Field Recordings

Faculty-produced video

# Current (Partial) Solutions

- Media servers
  - Adobe, Real, Apple, Microsoft, Wowza, etc.
- Digital asset management systems
  - OpenText/Artesia, NetXposure, etc.
- Classroom capture solutions
  - Echo360, Mediasite, Opencast Matterhorn, etc.
- Online video platforms
  - Kaltura
- Digital library repositories
  - Fedora, DSpace, ContentDM, etc.

# Gaps in Current Video Solutions

- Access control

- Integration with library digitization workflows

- Integration with library systems and metadata

- Long-term preservation

- Integration with course management systems

- Player functionality
  - Precision
  - Bookmarks, playlists

# Player Concept

# Grant Objectives

- Identify functional and technical requirements and define scope based on input from:
  - Librarians and technologists
  - Faculty and students
  - Technical investigation and gap analysis
- Develop high-level technical architecture and development plan
- Form partnership for development and ongoing maintenance
- Submit IMLS National Leadership Grant proposal (February 2011)

# Survey of Video Streaming in Academic Libraries

- Conducted online April 29 – June 5, 2010
- Sent primarily to library and DL lists
- ~150 responses
- ~90 currently streaming video
- Analysis of results:

  Jon W. Dunn and Mark Notess. *A Survey of Video-Streaming Practice and Aspirations in Academic Libraries*. EDUCAUSE 2010 Annual Conference, Anaheim, October 2010.

# Project Participant Meeting

- Held October 5-6, 2010, at IU

- Institutions contributed usage scenarios to surface user requirements

- Analyzed scenarios and developed functional & technical requirements

# Other Planning Participants

Berkeley — University of California

DURASPACE

matterhorn

UNIVERSITY OF Miami

NEW YORK UNIVERSITY

THE OHIO STATE UNIVERSITY

STANFORD UNIVERSITY

WGBH

THE UNIVERSITY of York

# Preliminary Directions

- More likely to focus on ingest, management and delivery than on sophisticated analysis and annotation, at least initially

- Tending towards a modular approach

- Investigating opportunities to leverage work of other projects where possible, such as Opencast Matterhorn and Kaltura

# Interested?

- We are looking for partners
  - Requirements input
  - Development
  - Testing

- www.dlib.indiana.edu/projects/vov
- facebook.com/VarVideo
- twitter.com/VarVideo