

# The Collaborative Services Working Group - A Story for K-20 in North Carolina

Tim Poe

Senior Collaborative Technologist

MCNC



This is the story of the K-20  
community in North  
Carolina.





Made possible, in part, by the connectivity that MCNC is providing to an increasingly broad set of users.





# So what is the K-20 Community?

- ✦ Public Universities
- ✦ Community Colleges
- ✦ NC Department of Public Instruction (K-12)
- ✦ Independent Colleges and Universities
- ✦ Private K-12s
- ✦ Home Schools





# In partnership with....

- ✦ Government
- ✦ Museums
- ✦ The North Carolina Zoo
- ✦ Libraries
- ✦ Cultural Resources
- ✦ Business and Industry





We need to bring together  
all available expertise and  
resources to improve the  
educational opportunities for  
all of the citizens of North  
Carolina.



Key technological resources  
can significantly impact  
teaching and learning in our  
state.





Learning  
Object  
Repository

The diagram features a central green circle labeled 'Learning Object Repository'. Surrounding this central hub are ten rounded rectangular boxes, each containing a different educational technology or service. The boxes are arranged in a circular pattern around the center. The colors of the boxes are: light blue for 'NC Virtual', teal for 'Classroom Capture', purple for 'Academic Video Applications', teal for 'Web Conferencing', red for 'Metadata', red for 'Licensing', blue for 'LMS', purple for 'Streaming', purple for 'Podcasting', and red for 'Federated Identity Management'.

NC Virtual

Web Conferencing

Academic  
Video  
Applications

Classroom  
Capture

Metadata

Video Conference

Licensing

Federated  
Identity  
Management

LMS

Streaming

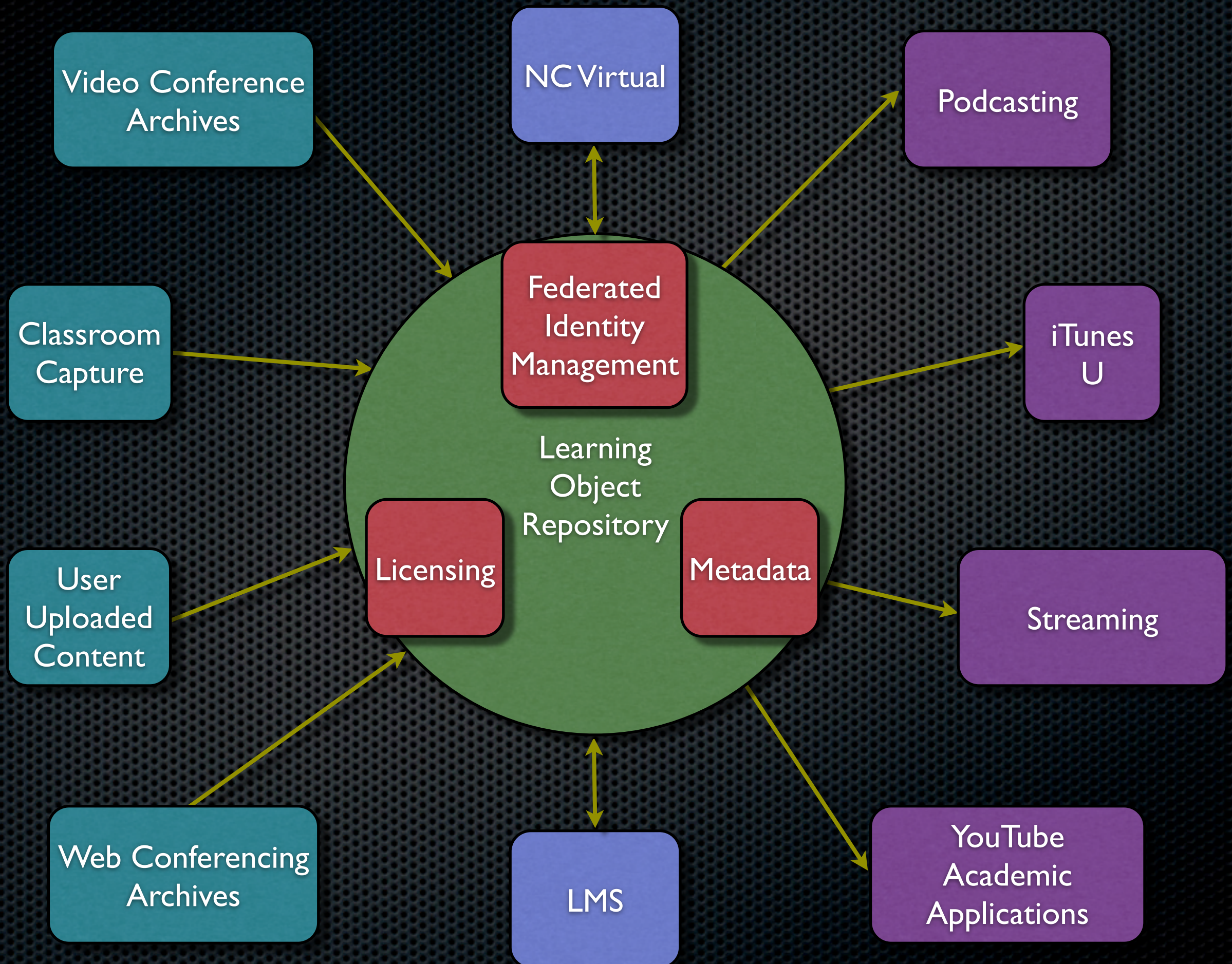
Podcasting





But this is a story, like many,  
where the whole is much  
greater than the sum of the  
parts.







# Key opportunities include...

- ✦ Learning Object Repositories
- ✦ Federated Identity Management
- ✦ Digital Media Asset Licensing
- ✦ Learning Management Systems
- ✦ Web Conferencing
- ✦ Video Conferencing
- ✦ Classroom Capture

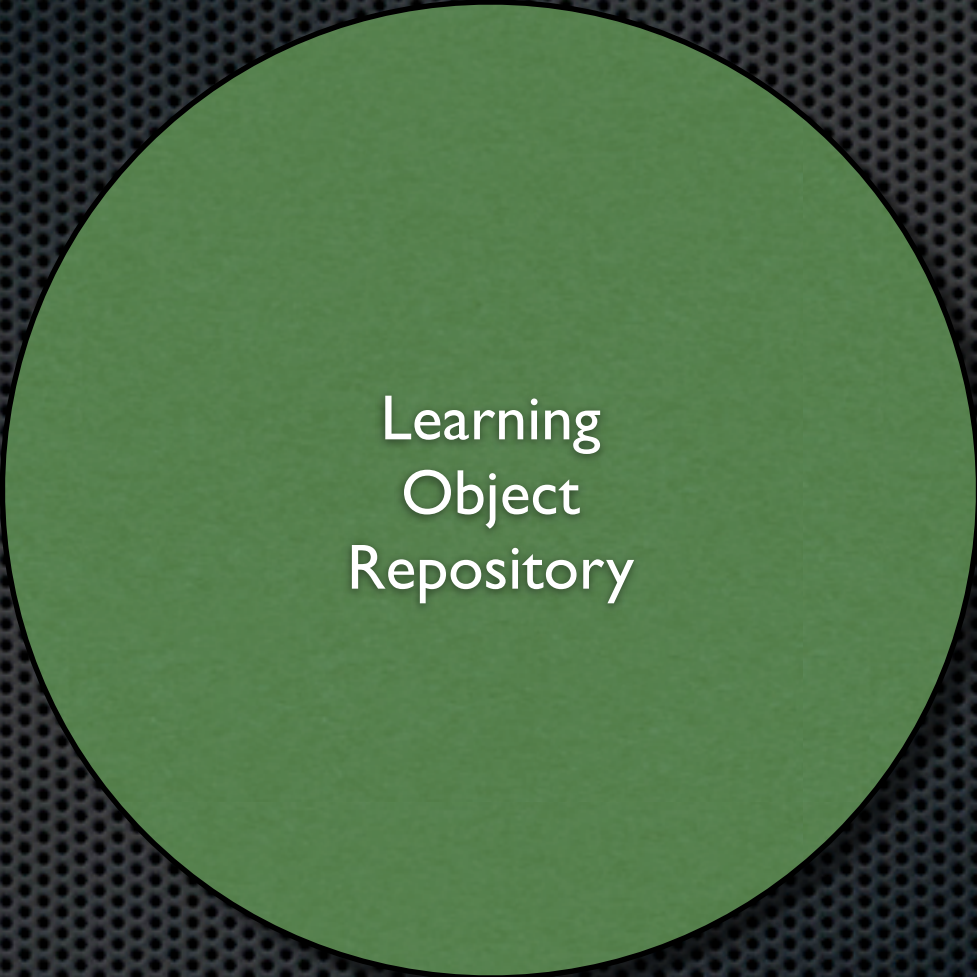




Let's take a  
brief look at  
each one.







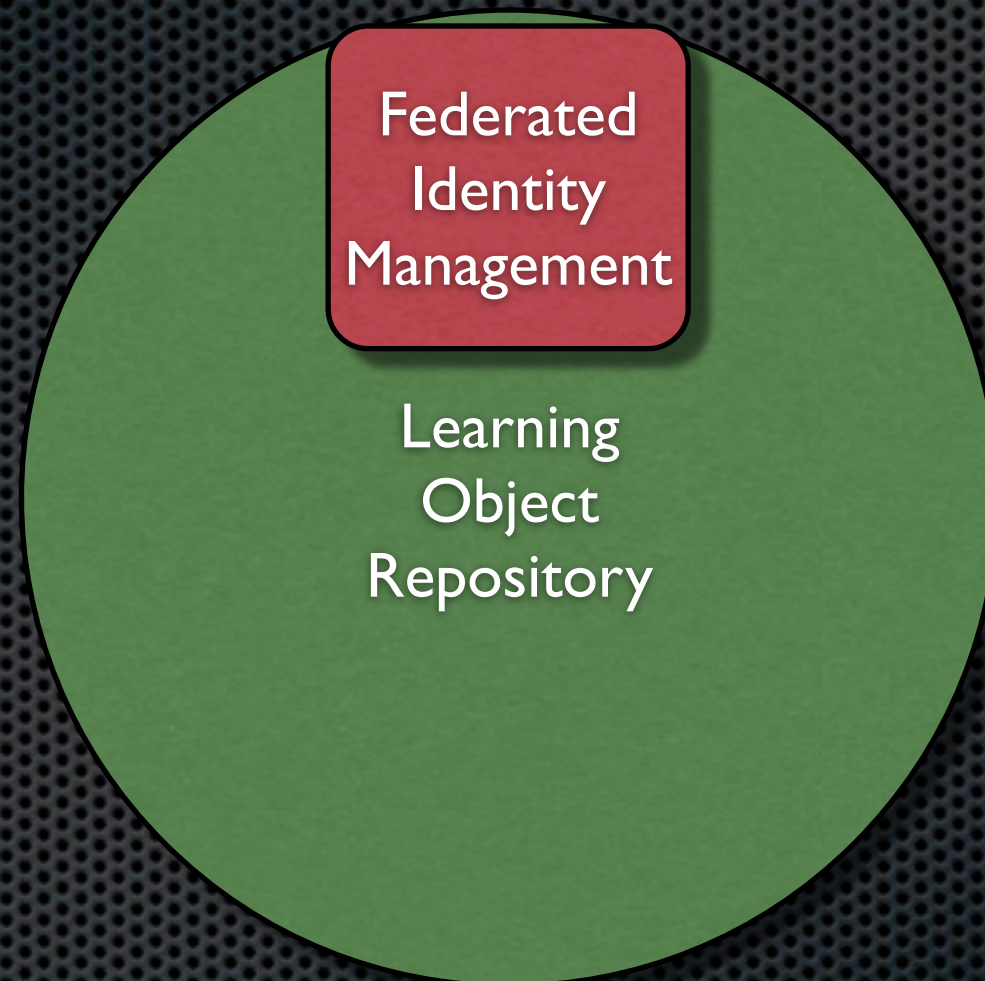
Learning  
Object  
Repository



# Learning Object Repository

- ✦ At the center of the story.
- ✦ A project of the North Carolina Community College System.
- ✦ Content can be acquired from many sources.
- ✦ Content can be shared by the K-20 community.
- ✦ Content can be restricted, as needed.
- ✦ Content can be shared to many different sources.



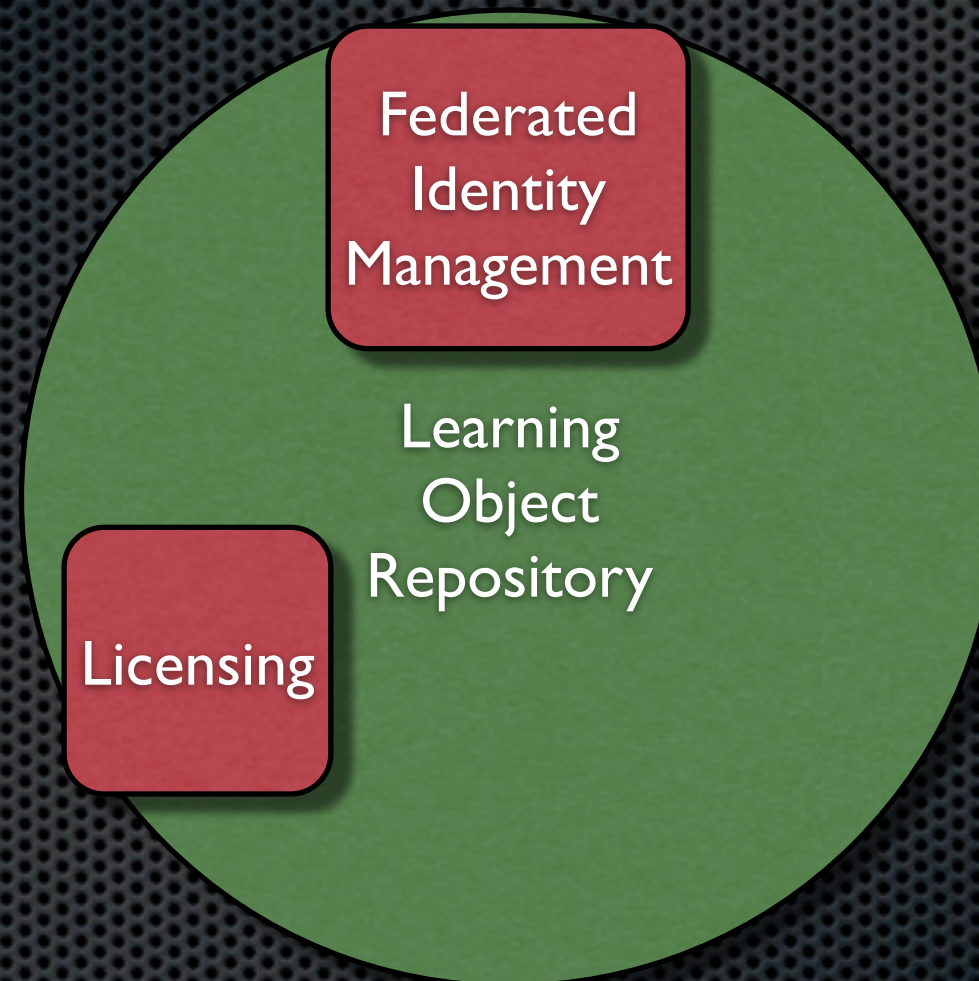




# Federated Identity Management

- ✦ Relies on each organization's own mechanism for local identity management.
- ✦ Safe and secure access to resources.
- ✦ Permit or deny access, as needed.
- ✦ Vital to scalability of centrally shared resources.





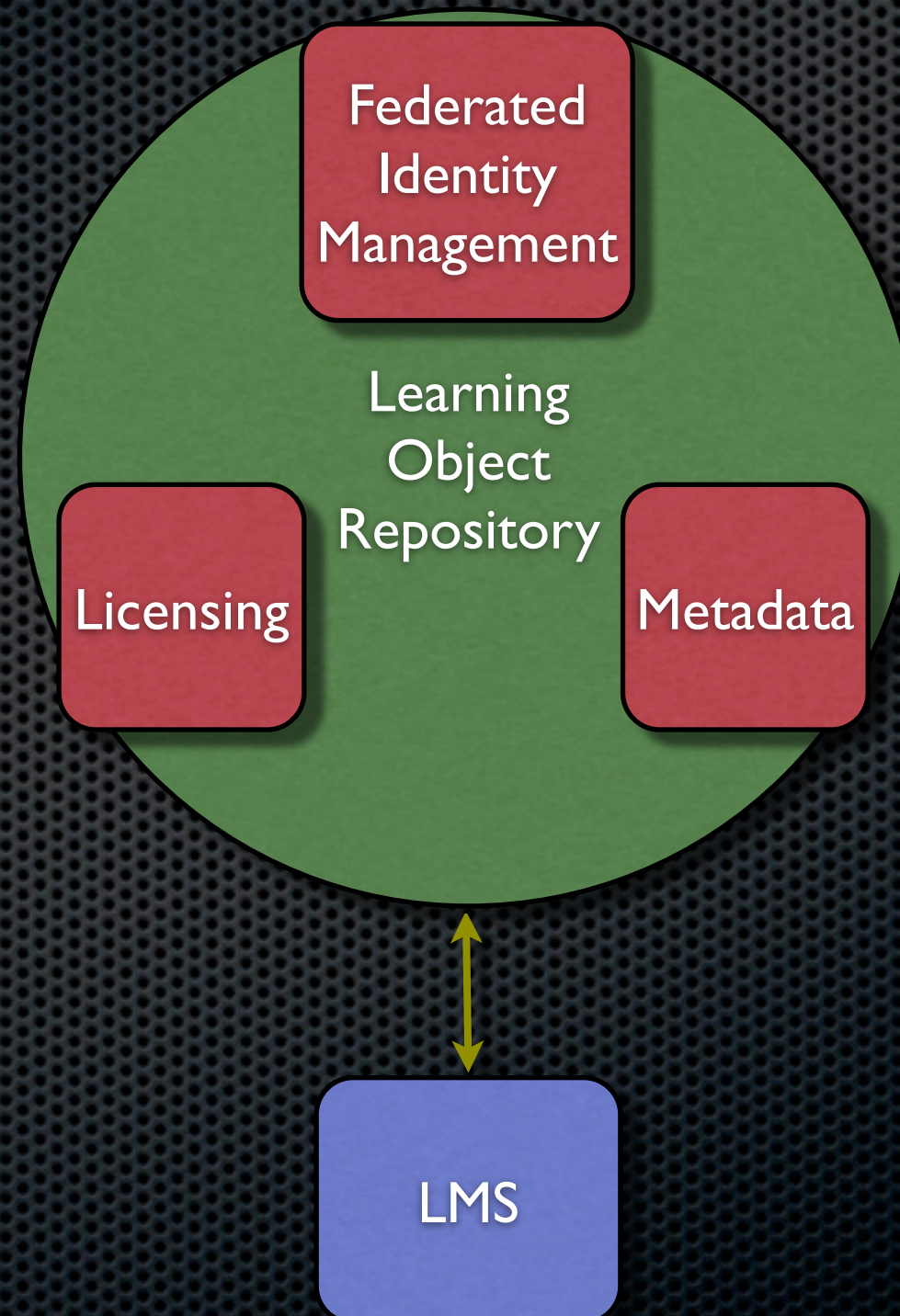


# Digital Media Asset Licensing



- ✦ Uses the model of NC Live.
- ✦ Explores ways that United Streaming and other resources can be shared across the state.
- ✦ When media assets are licensed across the state, NC VPS, LEO, Learn NC, and others can rely on them for integration with course content.



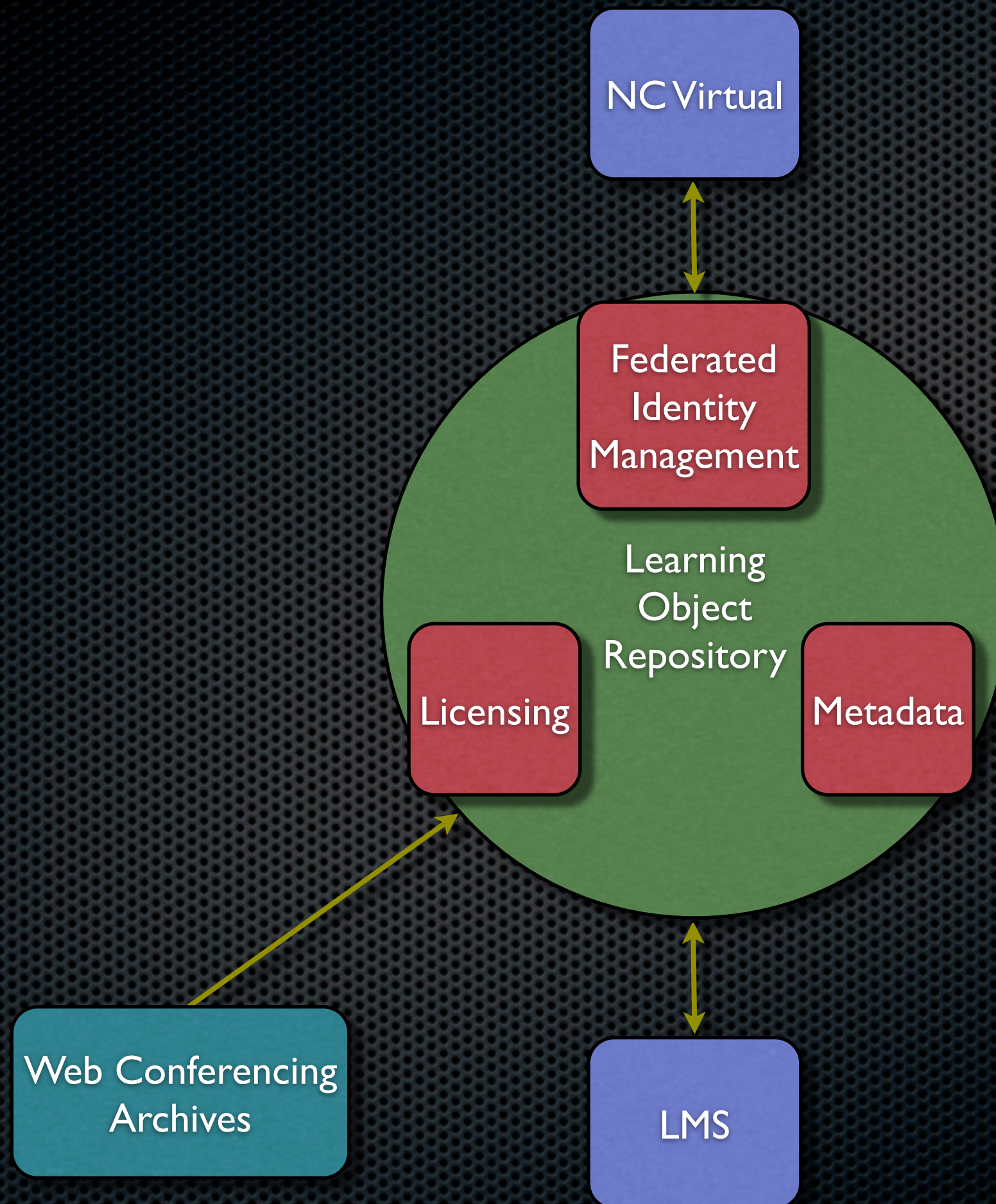




# Learning Management Systems

- ✦ Provide the user interface for courses.
- ✦ Act as a portal for resources.
- ✦ Act as a portal for tools.
- ✦ Already have ties for some campus authentication mechanisms.
- ✦ Relies on the efforts of the, Learn NC, NCCCS, and others.



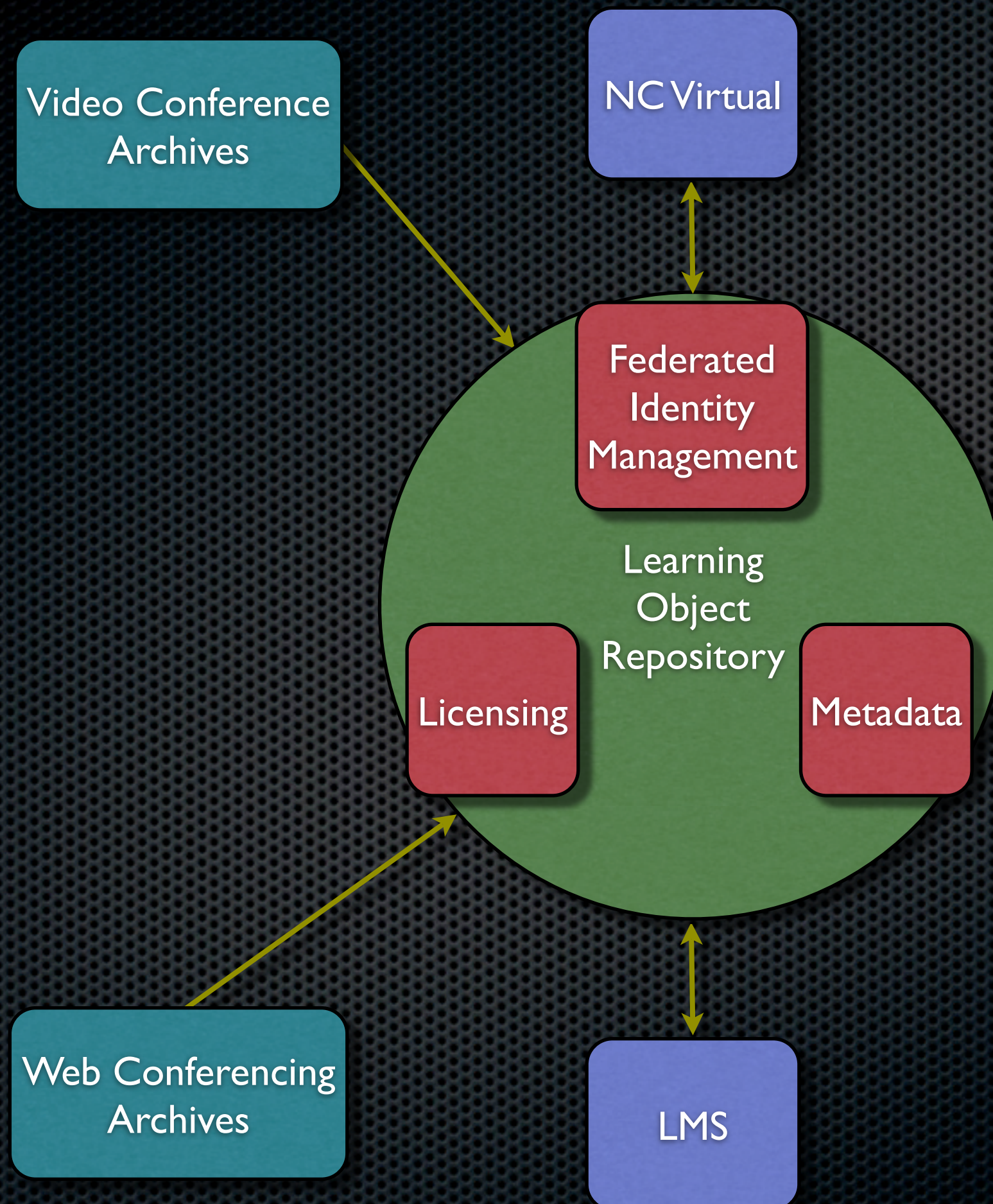




# Web Conferencing

- ✦ Virtual meetings.
- ✦ Distance education.
- ✦ Remote support.
- ✦ Cost effective, Web-based, collaboration.





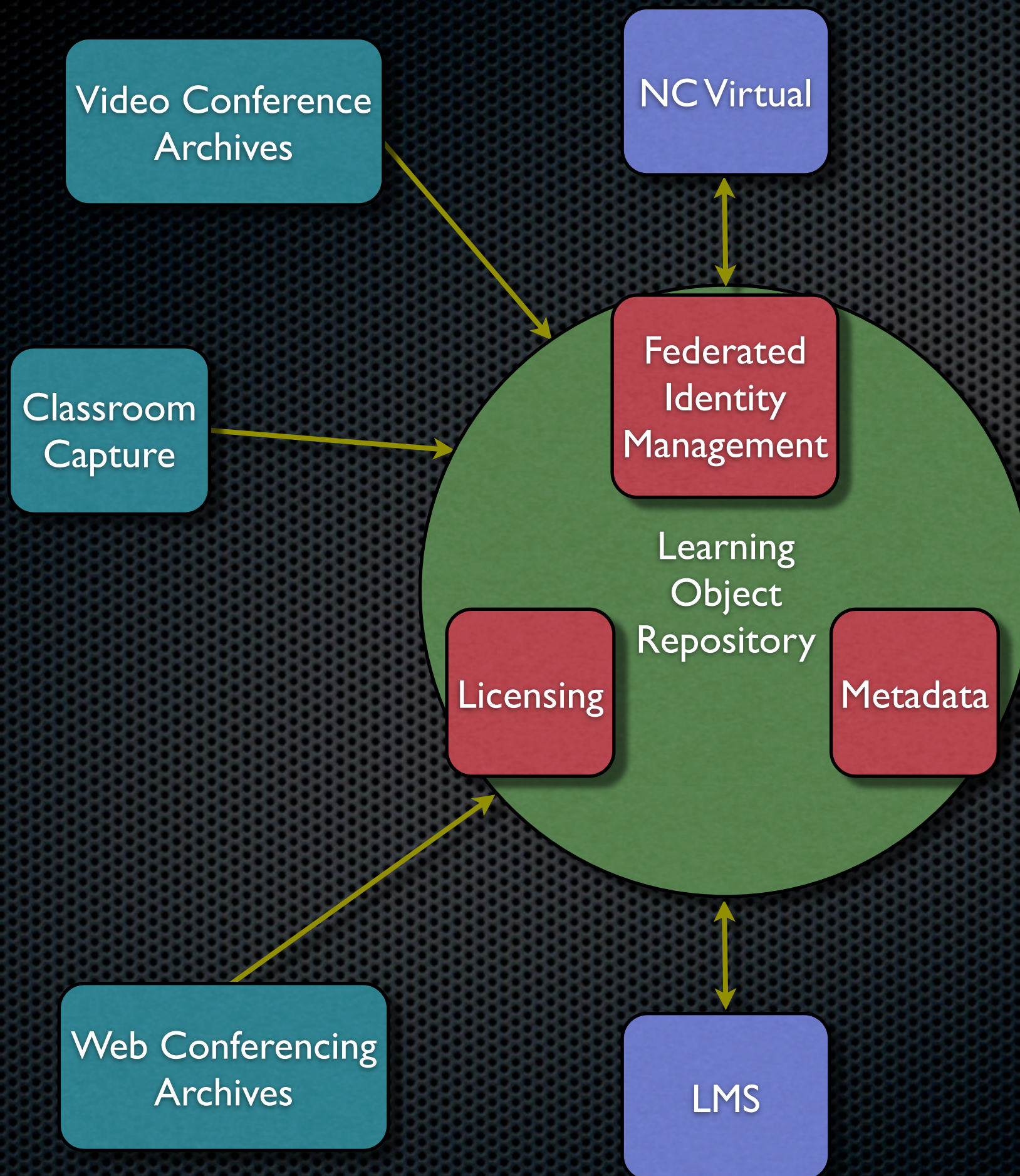


# Video Conferencing



- ✦ Increasingly associated with HD and telepresence.
- ✦ Acts as the “next best thing” to being there.







# Classroom Capture

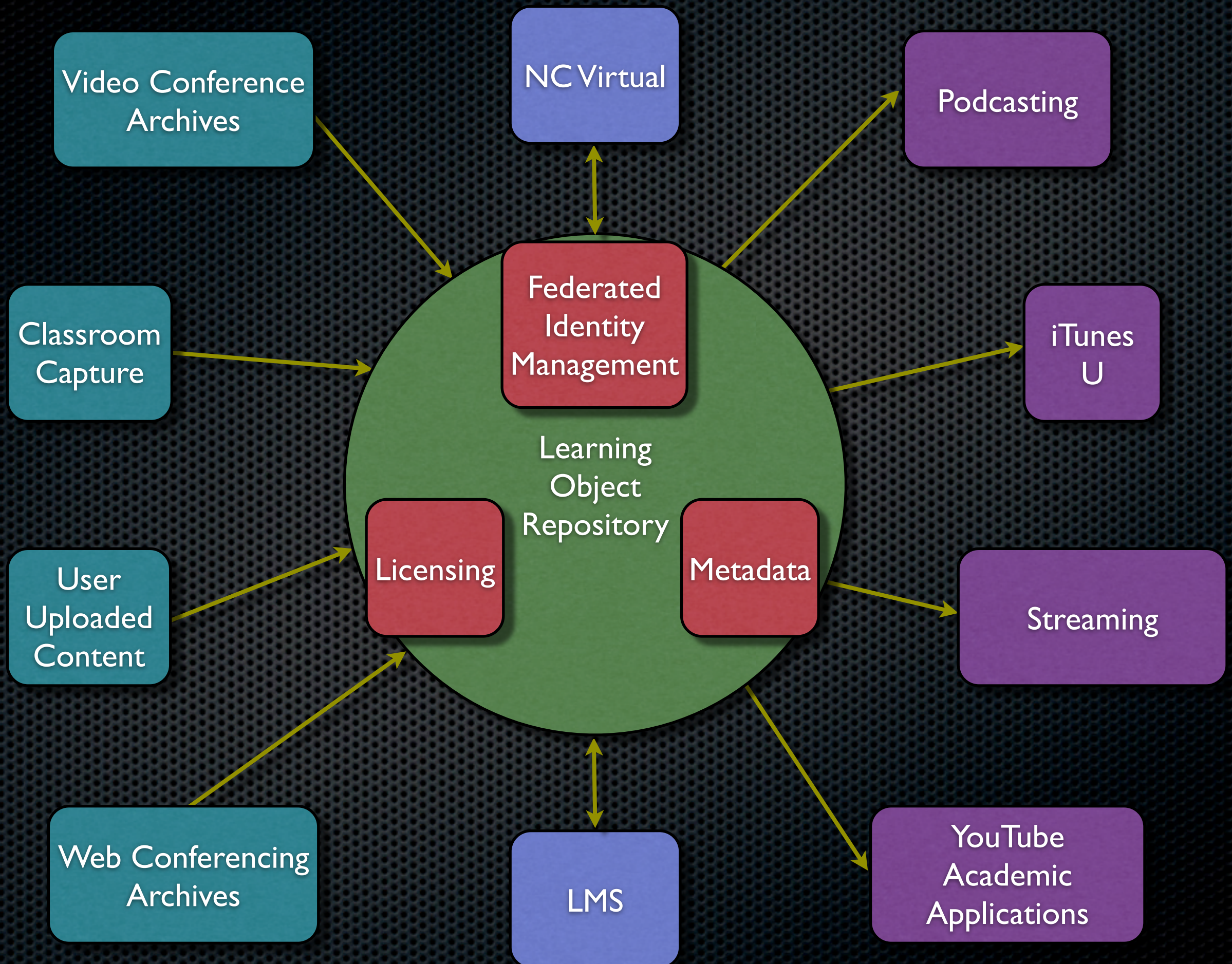
- ✦ If you are going to teach it, capture it.
- ✦ Provides a scalable approach to capturing any class.
- ✦ Can capture audio and/or video and or screen/VGA.
- ✦ Provides authenticated access to archived courses.



# The Big Picture

- ✦ A secure “bucket” for assets (North Carolina Learning Object Repository).
- ✦ The flexibility to acquire resources from user uploads, Web conferencing, video conferencing, etc.
- ✦ The flexibility to distribute these same resources via podcasts, streaming, iTunes U, etc.







We need to explore and implement infrastructure that will allow us to benefit from economies of scale.



The following is a proposed timetable for the next three years. North Carolina LOR and LMS projects do not originate from the CSWG.





Federated ID

Web Conf.

DMAL

Capture

Video Conf.

LOR

LMS

2008

2009

2010



The work is well under way,  
due to the efforts of  
Collaborative Services  
Working Group member  
organizations.



# Current or Future CSWG Task Forces

- ✦ **The Federated Identity Management Task - Active**
- ✦ **The Web Conferencing Task Force - Active**
- ✦ **The K-12 Digital Media Asset Licensing Task Force - Active**
- ✦ **The Capture Infrastructure Task Force - Active**
- ✦ **The Video Conferencing Task Force - Active**
- ✦ **The Learning Object Repository Task Force - Active by Fall of 2008?**
- ✦ **The LMS Task Force - Active by Winter of 2008?**



# Some of the biggest challenges:

- ✦ Representing interests fairly across K-20.
- ✦ Identity management.
- ✦ Integration of services
- ✦ A secure environment, especially in K-12.
- ✦ Communication between organizations.
- ✦ Broad, sustainable funding.



More information is available  
at [www.mcnc.org](http://www.mcnc.org) .