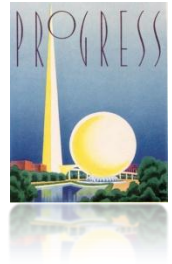


Digital Preservation at UConn

Greg Colati, Director, Archives and Special Collections

April, 2012



The Problem with Digital Assets

► Silos

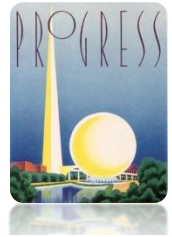
- Separate technical systems, metadata, and organizational schemes
- Difficult to repurpose or share

► Duplication

- Same data in different systems out of synchronization
- Duplicative but not redundant storage

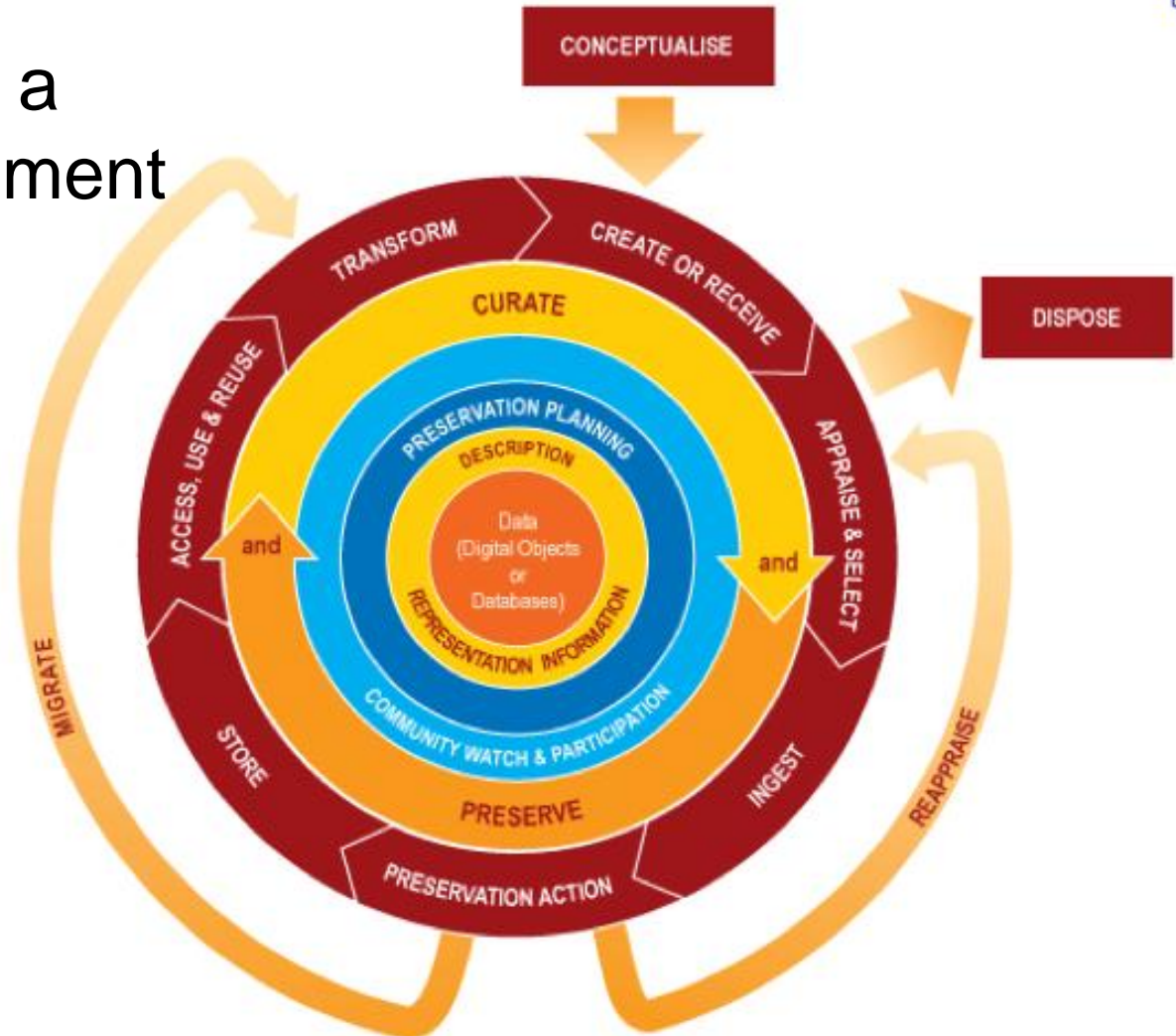
► At Risk:

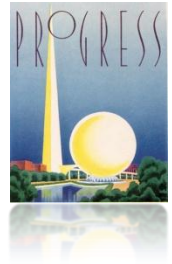
- No accurate way to understand and manage the scope and volume of digital assets
- No way to insure long-term availability



How Do We Manage Digital Assets?

Digital curation in a managed environment

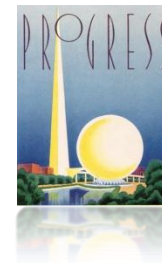




Our Solution:

A UConn Digital Repository Service

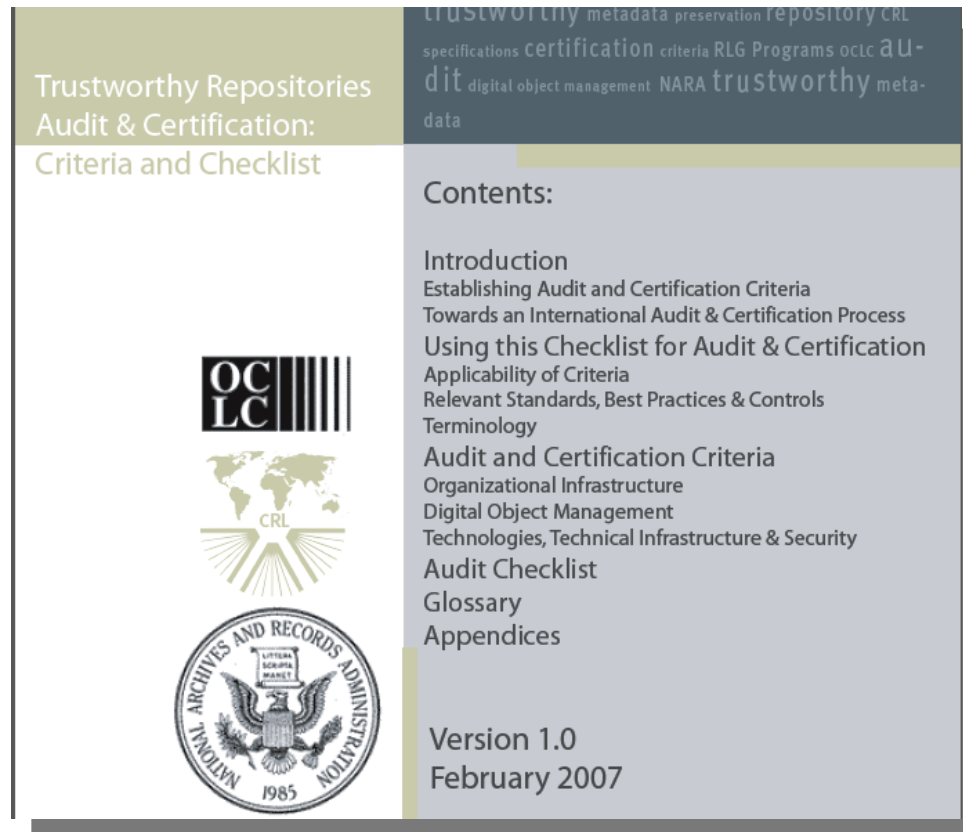
- ▶ Preservation-oriented, **trustworthy** digital repository
 - ▶ Centrally managed
 - ▶ Durable digital content
- ▶ Set of services that support our designated communities
 - ▶ Management tools
 - ▶ Presentation tools
 - ▶ Open APIs for local development



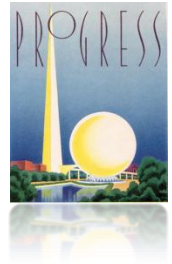
Trustworthiness: TRAC

Trustworthy Repository Audit and Certification

- ▶ CRL, NARA, OCLC
- ▶ Evaluation tool that examines three areas:
 1. Organizational Infrastructure
 2. Digital object management
 3. Technology and security



<http://www.crl.edu/archiving-preservation/digital-archives/certification-and-assessment-digital-repositories>



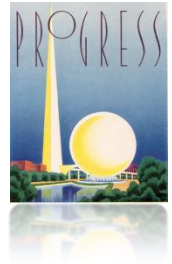
Dis-Integrating the Digital Repository

▶ What we DIDN'T Want:

- ▶ An “integrated” solution
- ▶ Another information silo

▶ What we DID Want:

- ▶ A generic foundation that could be the basis for ensuring long-term durability



“Future Proofing” the Digital Repository

- ▶ Independent, self-describing objects existing in a managed system with
 - ▶ No particular administrative workflow or end-user application
 - ▶ No particular catalog or organizational model



Repository Attributes: Durable Digital Content

1. Centrally managed metadata and content objects
2. Simple and complex digital objects
3. Schema agnostic: any metadata schema allowed
4. File format agnostic: any file types allowed
5. Normalization for all metadata and supported content file types
6. Global, persistent identifiers
7. Rules-based access and management
8. Flexible presentation options

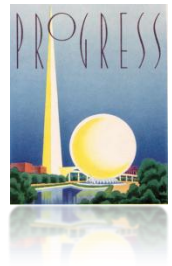


Framework



Flexible Extensible Digital Object Repository Architecture (Fedora)

<http://fedoracommons.org/>



Repository-based Activities

Information Universe

Re-use and exchange

Presentation (Access) Layer

Access, Discovery, Authentication, Authorization

Management Layer

Curation Activities; Administrative, Descriptive, Technical, Rights, etc., Metadata Mgmt.

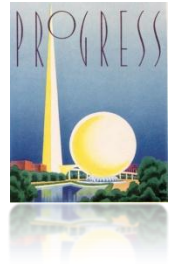
Repository (Preservation) Layer

Policies, Controls, Preservation Activities

Metadata

Digital Objects

Fedora



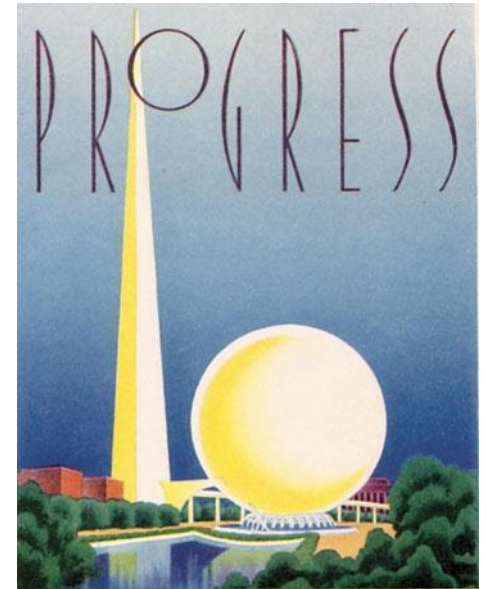
The UConn Digital Repository Service

- ▶ Preservation-oriented, trustworthy digital repository
 - ▶ Centrally managed
 - ▶ Durable digital content
- ▶ Set of services that support our designated communities
 - ▶ Management tools
 - ▶ Presentation tools
 - ▶ Open APIs for local development

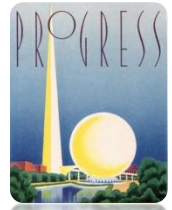


Current Project Calendar

- ▶ Phase I: Establish and implement core functions (July, 2012)
- ▶ Phase II: Advanced tools and services, develop storage and hardware requirements for production system (January, 2013)
- ▶ Phase III: Implementation of v1.0 production release for UConn content. (July, 2013)

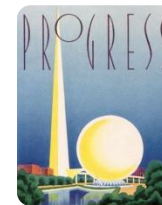


Extending the Model: UConn and Potential Partners



A State-wide Digital Repository Service

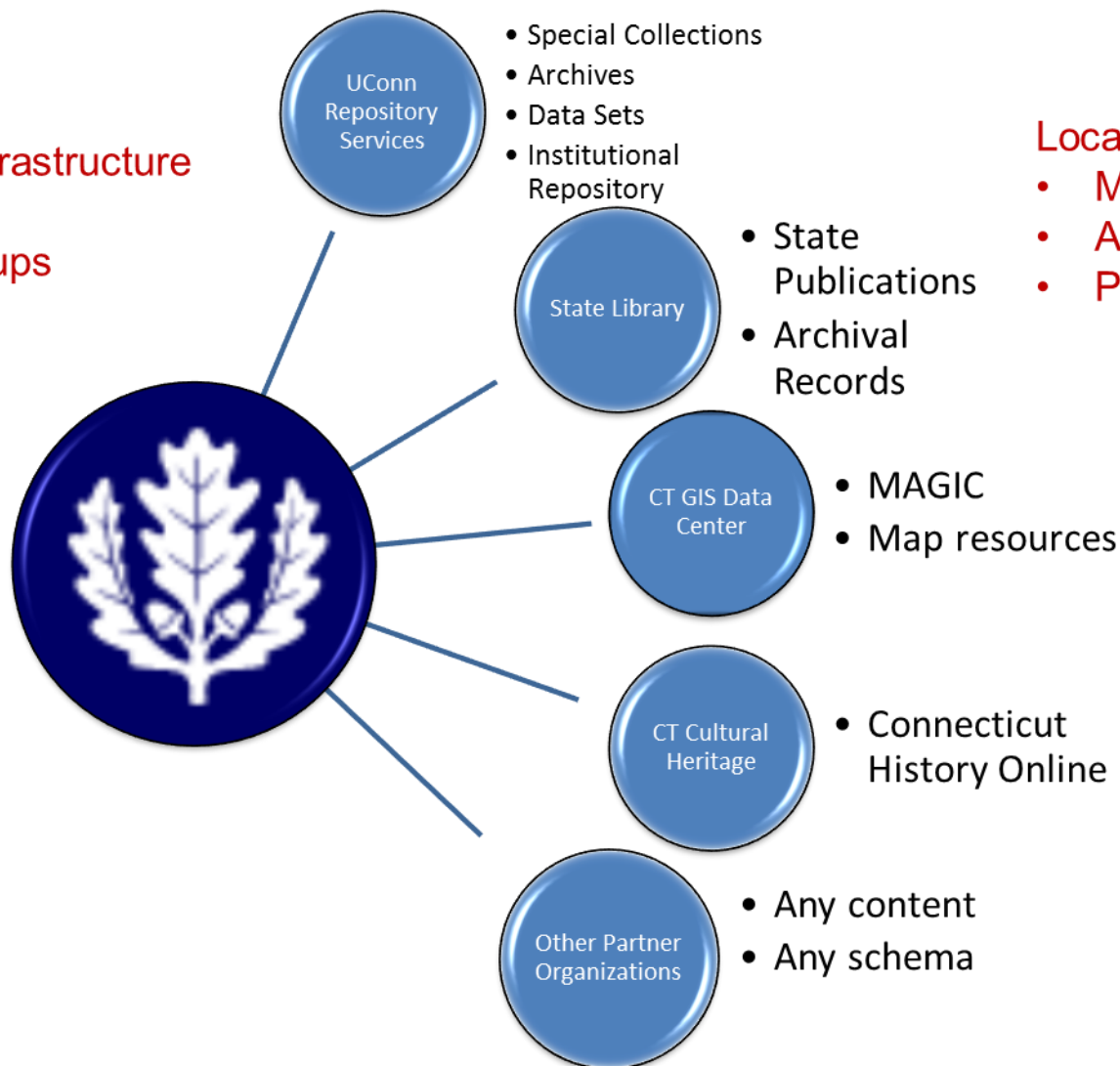
- ▶ Locally managed content in a common repository
- ▶ Admin. & Governance based at UConn Libraries
 - ▶ Repository program management
 - ▶ Development of new services or activities
- ▶ Technical infrastructure managed by UConn Libraries
 - ▶ Repository applications
 - ▶ Basic management and presentation tools
 - ▶ Hardware
 - ▶ Storage
- ▶ Open APIs allow creation of local presentation and management tools



Repository Organization

Central:

- Technical Infrastructure
- Governance
- Working groups

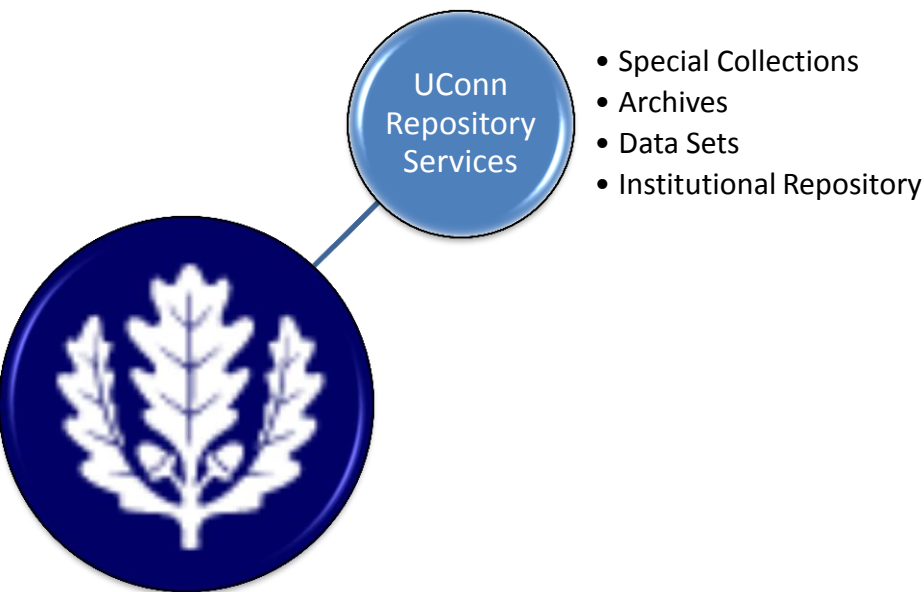


Local:

- Management
- Administration
- Presentation



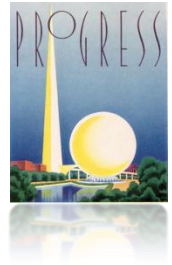
Repo. Organization: Planned Staffing



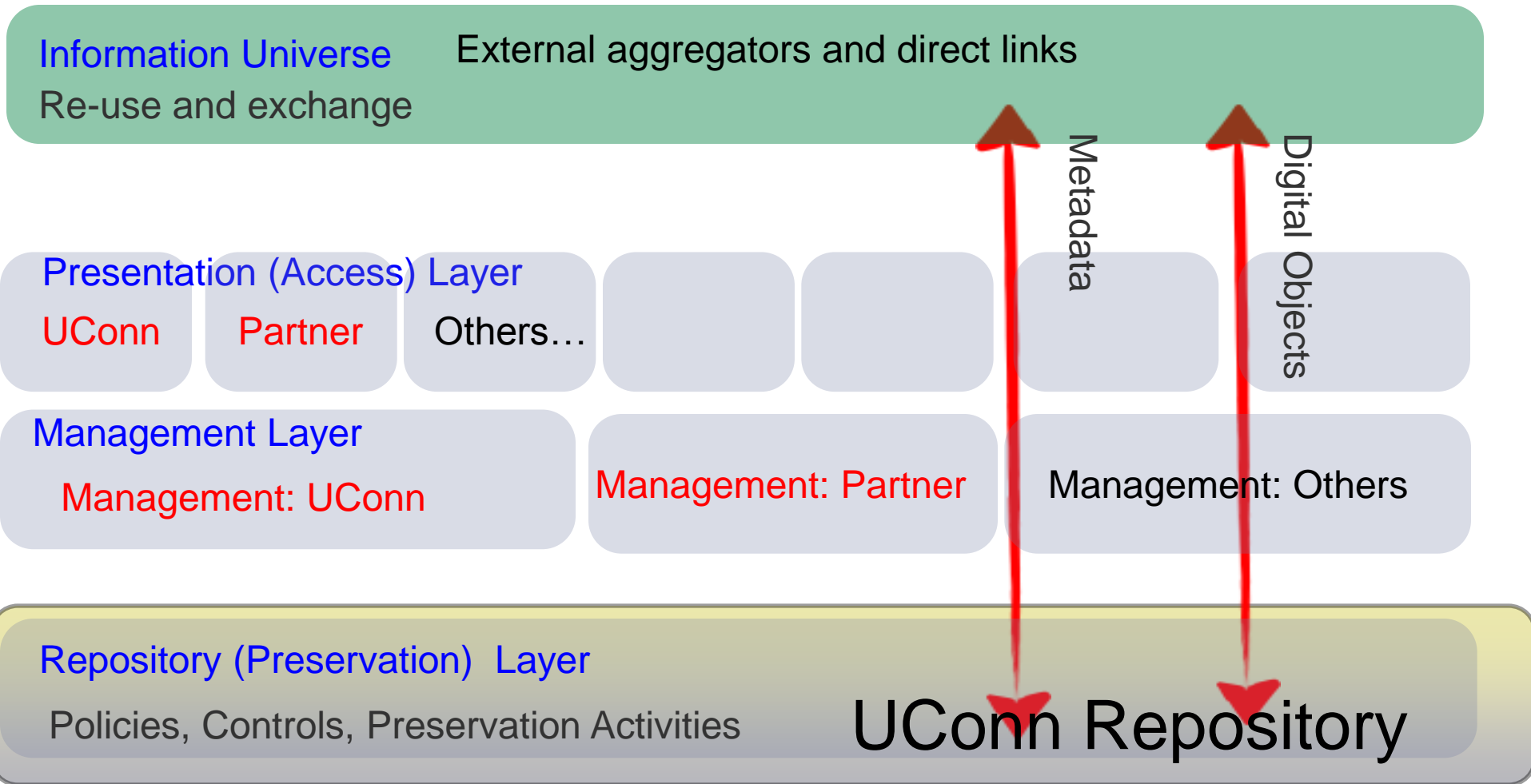
UConn Repository Services

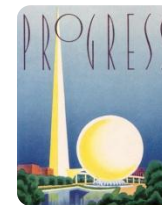
- ASC Archives Staff
- DPT Staff
 - Preservation Librarian
 - Webmaster
 - Applications Developer*
 - **Applications Developer***
 - Applications Developer (GA)*
 - Digital Projects Librarian (capture)*
 - Digital Capture Tech (students)*
- Library IT
 - Systems Admin*
 - **Systems Admin***
- **LRS Staff**
 - **Data Services Librarian**
- UE&AS Staff
 - Metadata Librarian(s)

***Shared with Central**



Sample Partner Framework

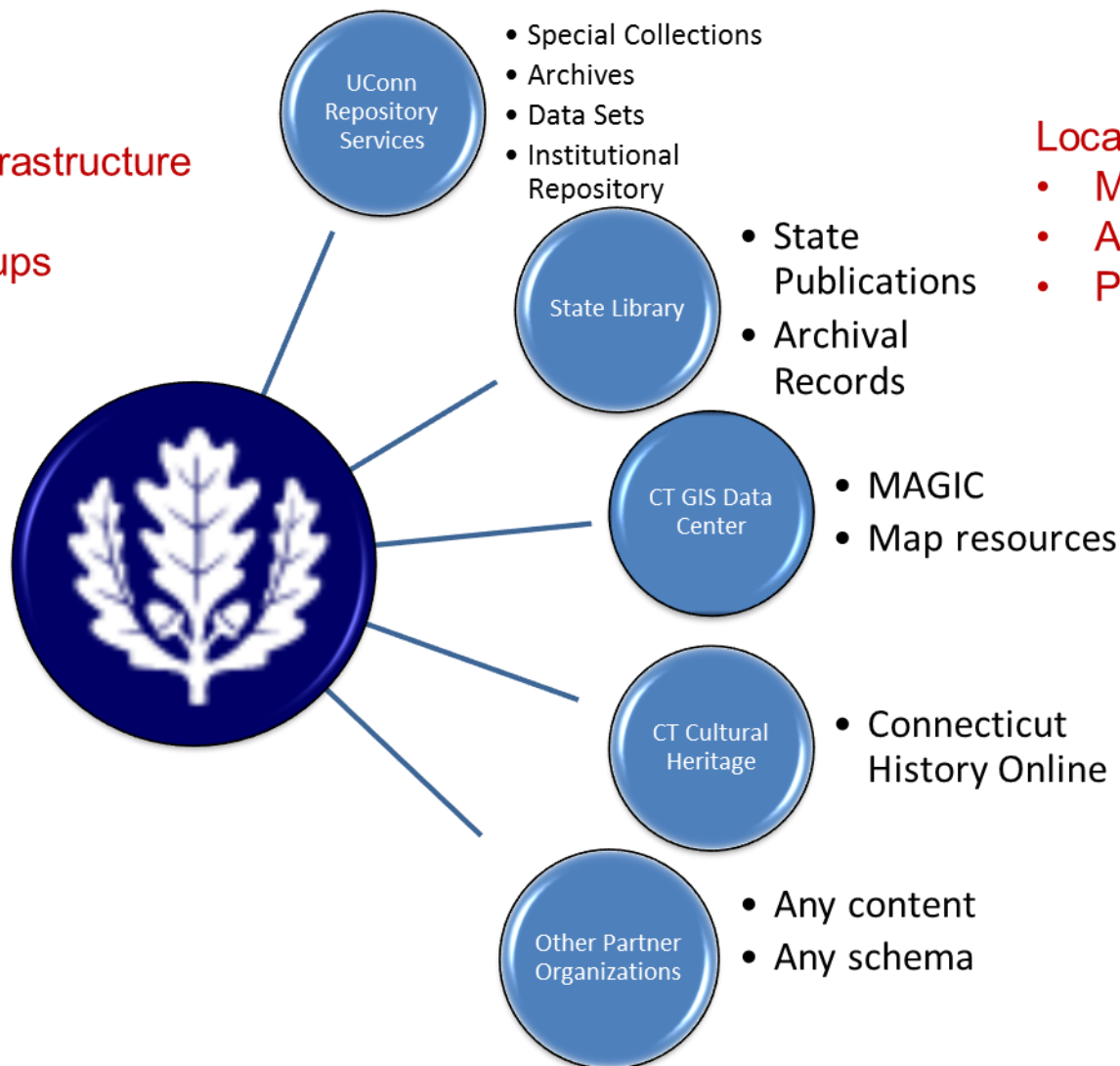




Durable Content, Multiple Uses

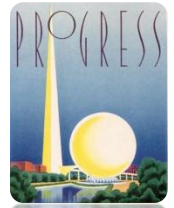
Central:

- Technical Infrastructure
- Governance
- Working groups



Local:

- Management
- Administration
- Presentation



Questions?

Greg Colati

Director, Archives and Special Collections

gregory.colati@uconn.edu

860-486-4501