

## MICHIGAN STATE COLLEGE

AGRICULTURE AND APPLIED SCIENCE







# Spartan Archive: A Program in Transition

**Cynthia Ghering August 23, 2011** 





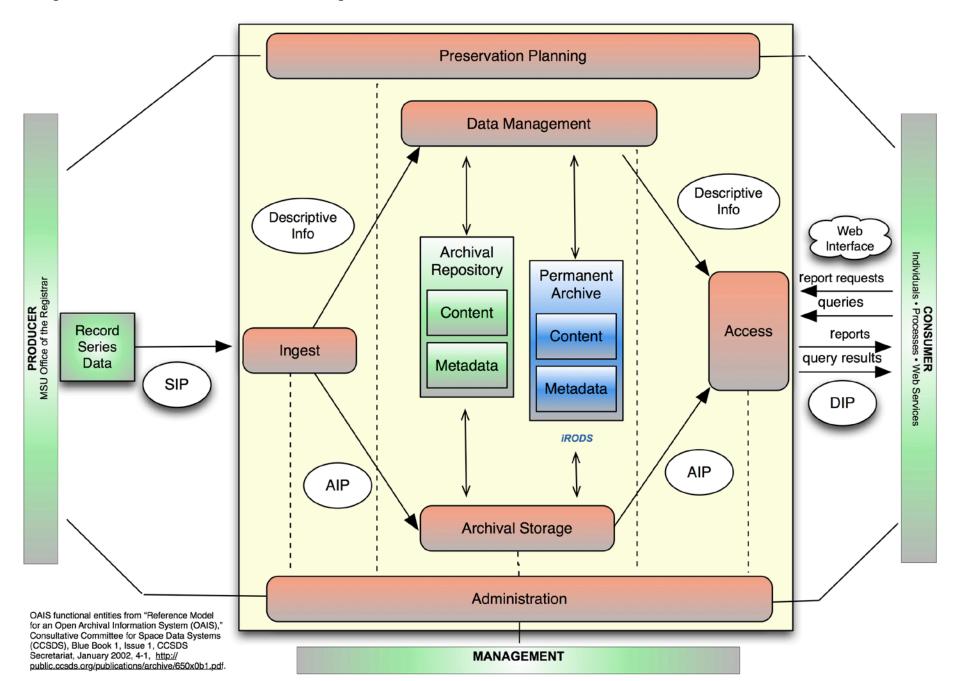
### **Goals of Spartan Archive**



- 3 yr project, Apr2009 to Mar 2013, \$251K for IT staff
- Preservation environment for born-digital records
- Automate ingest, manage descriptive and preservation metadata, archival storage, and public access
- Scalable, sustainable, and transferrable
- Structured/un-structured digital data
- Integrate with automated archival management
- Four records series from Registrar's Office:
  - Academic Programs
  - Course Descriptions

- Schedule of Courses
- Student Directory

#### **Spartan Archive Conceptual Model with OAIS Functional Entities**





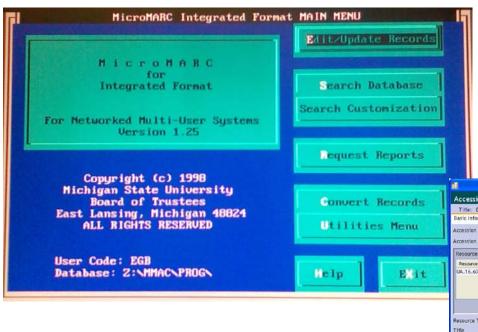
#### **Analog to Format-Neutral Repository**

- Holistic approach to electronic records
- Hybrid (analog and digital) collections
- Service-oriented archives
  - Flexible, adaptable, nimble archivists
- Funding model
  - Who pays for the new "virtual storage"?
- Workflows for collections management
  - Regardless of material format



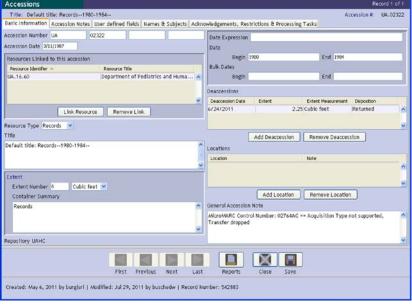


#### **Workflow for Collections Management**



- DOS-based, flat database
- Migrated 4,000 records
- 2,000+ records on cards still
- No name or subject authorities
- Updating physical locations

- Modified AT for records management
- Updating paper based workflows
  - transmittals forms
  - records inventories
  - retentions schedules





#### Importance of Records Management

- MSU's new Enterprise Business Systems
  - Finance and HR records now born-digital or imaged
  - Research administration in phase 2 starting soon
- Hybrid systems of record, "paper-sparse"
  - Compliance with federal and state regulations
- Records Authority by Denver University
  - Open-source, web-based software tool for RM
  - Surveying departments, inventorying records
  - Creating, managing, and distributing retention schedules







## **Spartan Archive – Progress to Date**

- Selected software:
  - Fedora, iRODS, BagIt, SIARD, ARK, NOID
  - Islandora, DROID, JHOVE, JHOVE2
- Surveyed Registrar's Office databases
- Clarified database structures and data fields
- Created XML schemas for each records series
- Develop Fedora collection model for each series
- Drafted ingest procedures for Registrar's data



## **Course Descriptions**

Field Name	Full Name:Description
Subj_Code	Subject Code: Defines the general subject of the course. Need a list of
	full names
Crse_Code	Course Code: Identifier for the specific course
Initial_Action	Appears to contain "Converted" or "Changed" What do these refer to?
	Are there other values
Course_Status <sup>1</sup>	Whether the course has been approved or archived. If archived then
	this indicates that there has been a change to the course's attributes.
	Are there other values?
Start_Term_Seq_Id	?
Start_Term_Code	?
End_Term_Seq_Id	?
End_Term_Code	?
Interdprmntl_Flag	Y/N Identifies an interdepartmental course.
Interdepartmental_With	Identifies the cooperating department. Can there be multiple values? Is
	the code used the same as the Department Code?
Administered_By	Identifies the department that actually runs the course. Uses
	Department Code (?)
Coll_Code	College Code: Identifier of College that offers the course. Need a list of
	full names.
Dept_Code	Department Code: Identifier of Department that offers the course.
	Need a list of full names.
Crse_Title	Course Title: Name of the course
Crse_Description	Course Description: Description of the course contents.
Semester	Semester in which the course is offered. This is a text field that
	describes the general rule for when the course will be offered.
Credit_Type	Values seem to be F, V or Null. Null appears to be associated with
	archived courses. What do the other codes mean(V means variable?, F
	fixed?) and are there other values?





#### Registrar's Office – Data Sources

#### Conceptual Model

#### **The Academic Program**

Sessions

Period Covered by Registration

Accreditation

**Equal Opportunity** 

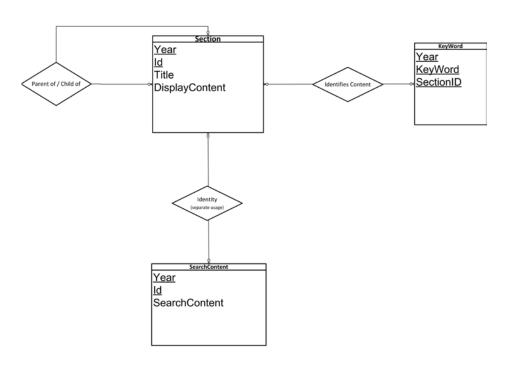
**Student Consumer Information** 

**Graduation Rates** 

Colleges, Schools and Departments

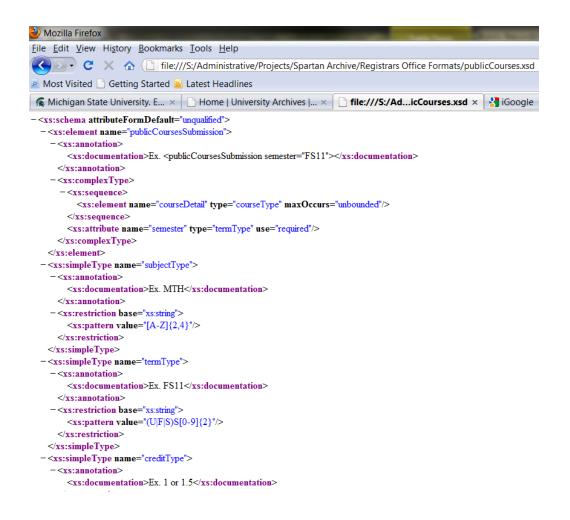
Programs and Areas of Study

- Degrees
- Teacher Certification
- Course Designations
- University Organization

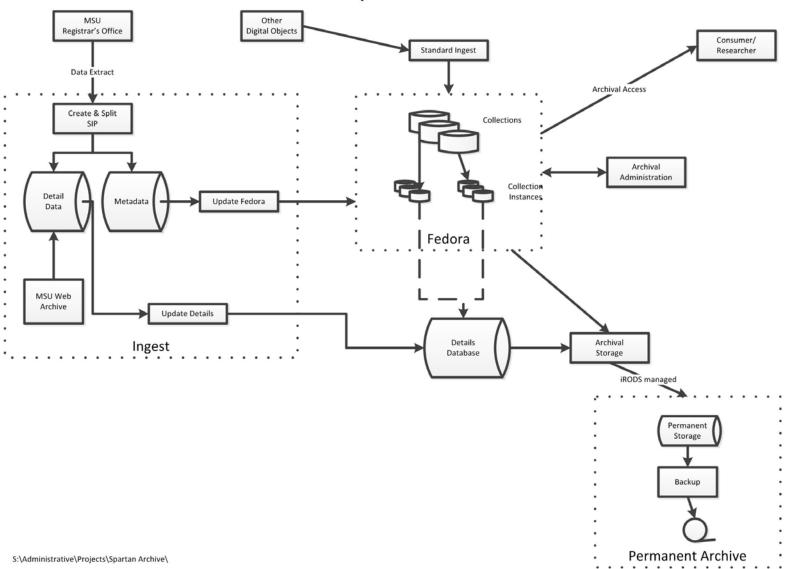




#### XML Schemas for Data Sources

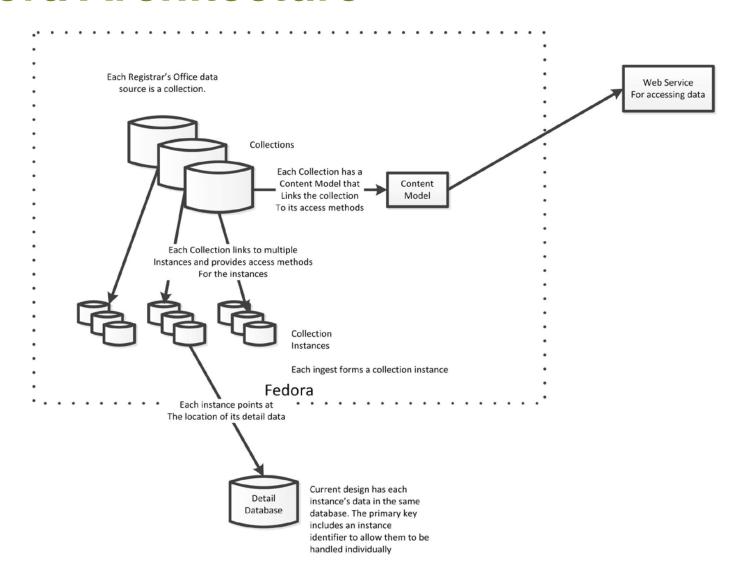


#### Spartan Archive Architecture





#### **Fedora Architecture**





## **Federated Repositories**

- Content models for research data, learning content, digital humanities
  - NSF mandate to preserve data for long-term access
  - Moodle requires a learning content repository for implementation
  - Multiple digital humanities projects underway
  - (beta) MSU Policy Repository
- Leverage complementary needs on campus
- Share progress currently underway at MSU



### **Project Team:**

Rich Burgis, <u>burgisri@msu.edu</u>
Ed Busch, <u>buschedw@msu.edu</u>
Cynthia Ghering, <u>ghering@msu.edu</u>
Lisa Schmidt, <u>lschmidt@msu.edu</u>



# University Archives Historical Collections

http://msuarchives.wordpress.com/
http://www.flickr.com/photos/msuarchives/