



WMS: Democratizing Data

WMS

Workflow Management System for Ru**core**

Rutgers **Community** Repository



WMS Overview
Grace Agnew

WMS – What is it?

- 🚢 Tool for ingesting digital objects and metadata
- 🚢 **User centered:**
Administrator and team member “views”
- 🚢 Enables **community** repository development:
distributed participation—anyone with web access
- 🚢 Enables standardization **and** customization

WMS – What is it?



Supports Preservation: perpetual access

Data model provides management and access to object throughout its lifecycle

Analog ----→ Digital--→?? standard support



Flexibility for the future

agnostic to schemas, object formats,

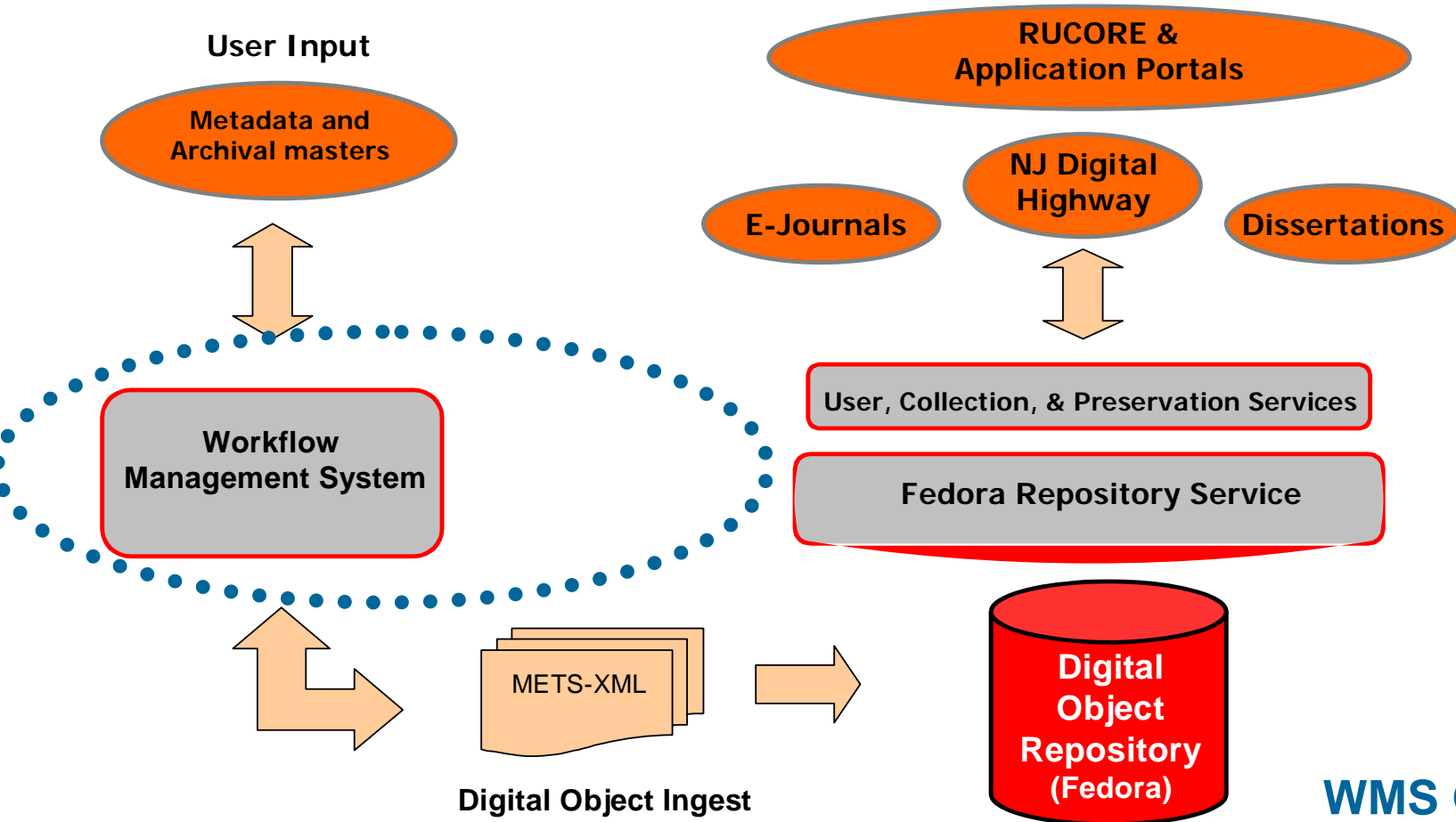
...And the ways people look for and use information



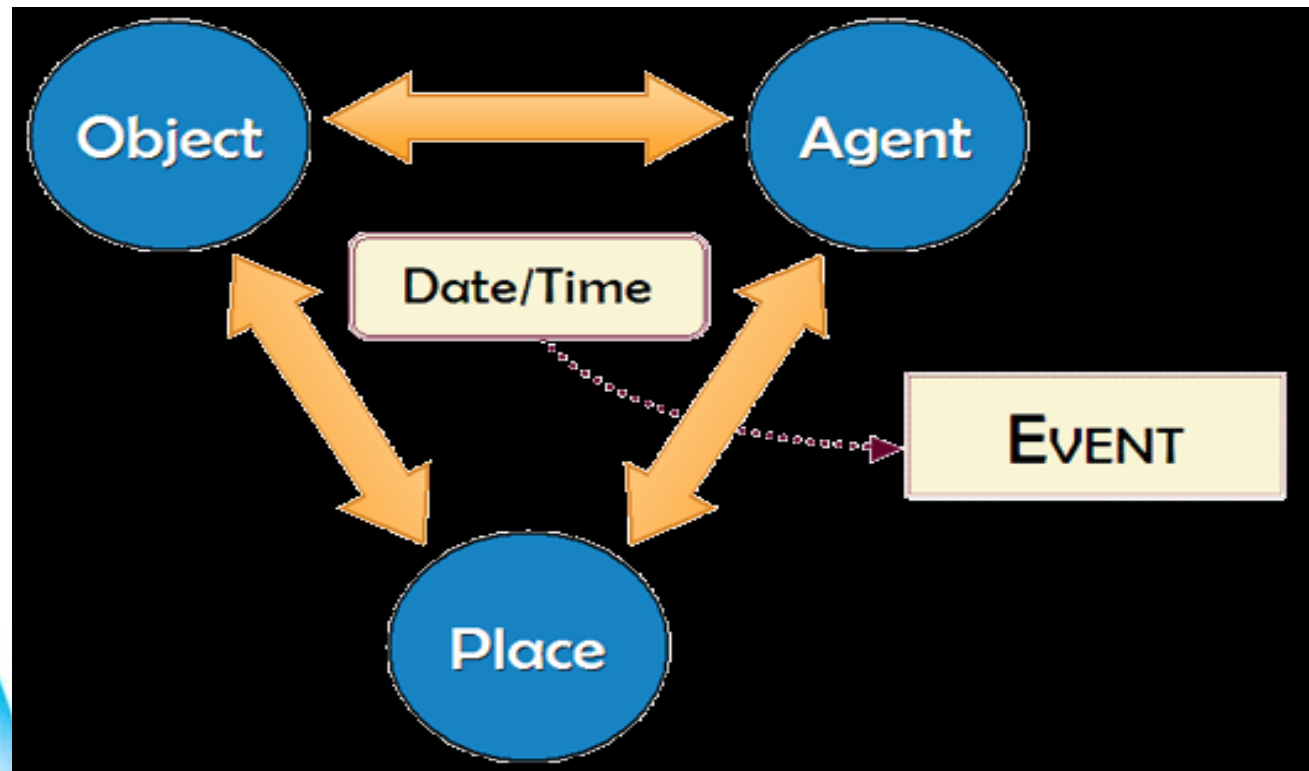
Role in the Repository

WMS: Democratizing Data

RUcore - How it Works



RUcore Data Model



How the Data Model Works

- Event based = When an object interacts with an agent or place at a specific point in time, an **event** occurs in the **lifecycle** of the object.
- Event = Professor visits Italy and takes digital photographs. Cataloger creates metadata for digitized images. Researcher locates images, uses them for book and lecture.



METS Preservation Support

Preservation Metadata

- Stores information that supports preservation decisions/actions
- Documents preservation processes, such as data migrations

DigiProv

- Specifies the changes an object/file has undergone since its digital “birth.”



**METS Support Access for
Preservation**

Mary Beth Weber

Innovations

- Standards: MODS – METS - PREMIS
- Formats: Text – Audio – Still images – Moving images – Simple and Complex
- Metadata: Descriptive – Administrative
- Event-based



Templates and mapping

- Save time
- Promote consistency and accuracy
- Build on local practices



Some Design Issues

- A digital object and metadata tool for Fedora or other digital repository systems
- Handles digital object upload and creation
- Handles metadata manipulation (create, import, export, convert between schemas)
- Scalable, flexible and expandable
- Easy to use

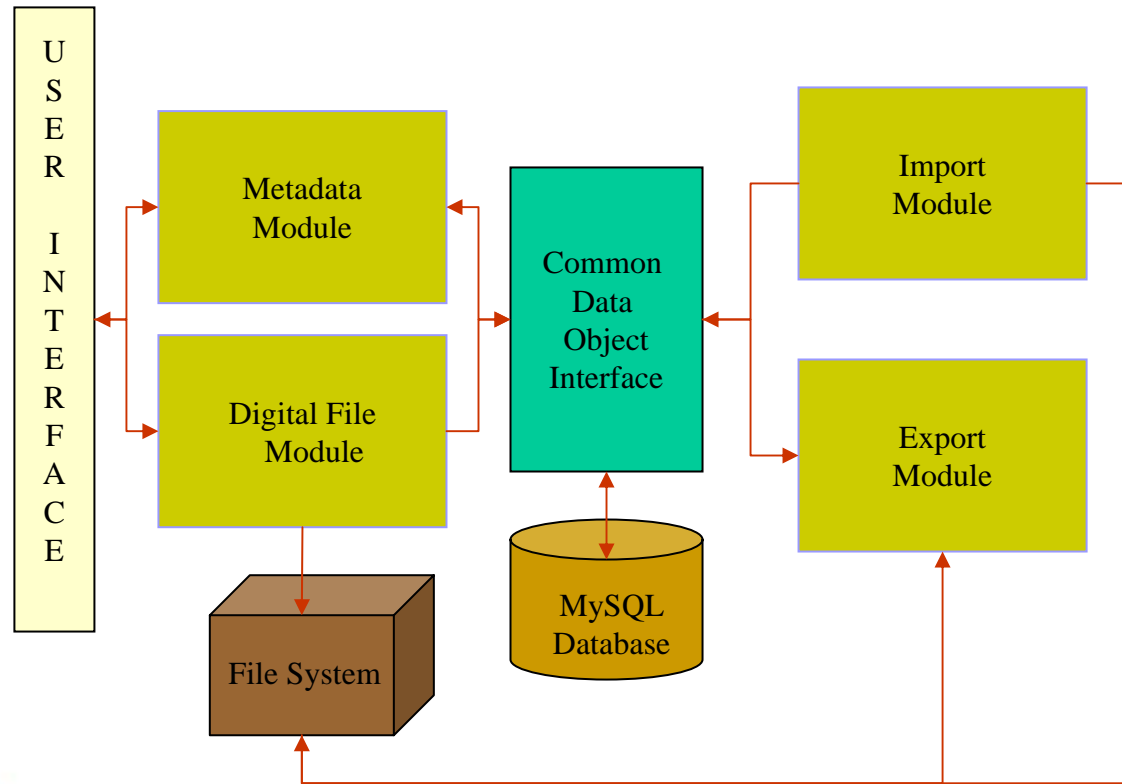


Some Design Decisions

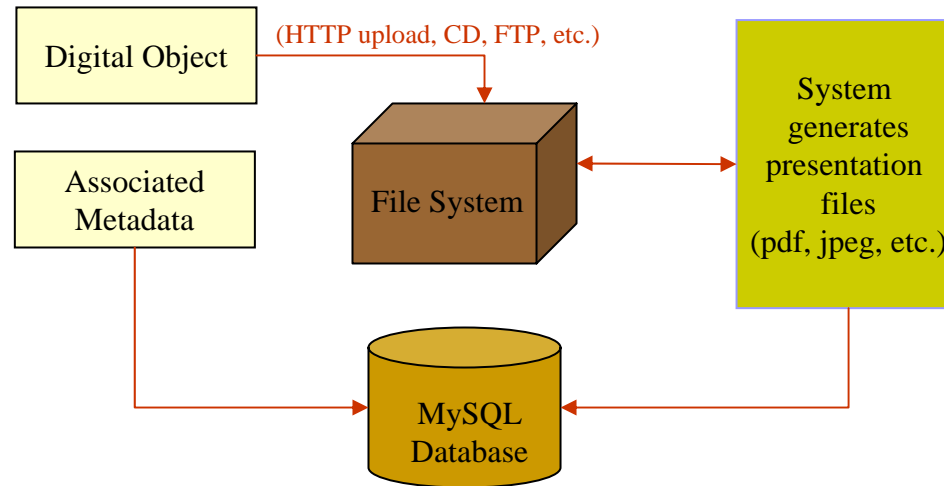
- Database driven
- XML - data model and data carrier
- Modularization of functionality components
- Object oriented application design
- Context driven data entry interface
- PHP/MySQL



WMS Components



WMS Digital File Management



What can WMS do?

- Create collection object
- Create resource object
- Create template
- Upload digital file
- Create presentation files
- Create metadata record
- Export to repository
- Import xml from User Applications
(example ETD Student input)

