What is RUcore?

- An institutional repository, to preserve, manage and make accessible the research and publications of the university, its faculty and collaborators

- The cyberinfrastructure for the Rutgers University Libraries, for making its unique collections permanently available.
RUcore Objectives

- To provide seamless, **perpetual access** to digital collections -- our resources and the resources of others.

- To develop a **flexible framework** of “core” capabilities providing the enabling infrastructure, interoperability, and sustainability.

- To create an **information architecture** which will support multidisciplinary collections.
Why Create RUcore Now?

- Expanding digital environment creating information “stovepipes” at RU
- Technologies available to create a “trusted repository” architecture that makes information accessible for the long-term
- Granting agencies requiring permanent, sustained access to research products
- Natural extension of the libraries’ role in the university
RUcore Focus Areas:

- **Preservation**: making resources available for the long-term. Can scholars access the information in 200 years?
- **Publishing**: sustaining digital publishing models that incorporate the publisher’s business rules, such as peer review
- **Collections**: providing collections of value to scholars
- **Research & Teaching**: support the twin missions of the university and integrate RUcore into the workflow of RU faculty
“Trusted Repository” architecture

- Is the digital object **authentic**?
- Can the digital object be **uniquely identified** and retrieved?
- Does the **metadata** support management, discovery and reuse?
Authenticity

- integrity “digital document must be whole and undisturbed”

- provenance - must be tightly associated with its creator and act of creation

In the analog space

Object in hand is compared with a conceptual (“canonical”) historical version

Gladney and Bennett. What do we mean by authentic? http://www.dlib.org/dlib/july03/gladney/07gladney.html
Authenticity

In the digital space

- Fidelity to the source artifact

- Identical (true/false) to the digital canonical master

- Accompanied by a “true” provenance statement

- Proof: digital signature verifying that canonical object is unchanged. Digital audit trail documenting provenance and any changes to artifact or chain of provenance
Digital Information Object May Appear in Many Repositories

International Music Portal

MUSIC DEPT

UNIVERSITY REPOSITORY
Permanent, globally-unique identifier ("handle") provides durable access to single copy rather than multiple copies.

International Music Portal

HandlesServer

UNIVERSITY REPOSITORY

MUSIC DEPT
Durability – Preserving the Digital Cultural Heritage for Future Generations

Methodologies for addressing “digital permanence”

- Preserve the “digital mediation space” — hardware and software needed to access, manipulate and display the resource

- Emulate the “digital mediation space”. Recreate obsolete technology platforms, perhaps encapsulated in newer technologies

- Re-encode the information in new formats before the old format becomes obsolete
Enabling Strategy

Technical metadata that documents the object’s creation, technical characteristics and required mediation space. Enables digital archive managers to manage large numbers of objects:

- Checking for changes in the object ("digital provenance")
- Monitoring the digital format and mediation requirements to adapt to changing technologies ("technical metadata")
- And maintaining connection to the source object (provenance and characteristics), so that as technology advances to offer greater fidelity to the source, objects...
Metadata

- **Data about data.** Has meaning with respect to the object it describes or manages.

- **Flexible to support current and future information contexts:** discovery and management.
RUcore Data Model
RUcore is developing an internal workflow to provide consultation and support for the critical metadata process, as well as a flexible web tool for metadata and object creation.
Workflow Management System
Welcome to the WMS!

Workflow Management System adds digital objects and the metadata that describe them to the digital repository. With our "Getting Started" guide, it should be smooth sailing through your digital collection projects.

Getting Started

All the WMS functions are available via the navigation menus in the top and left portions of your screen. You can access the WMS Help Center at anytime to learn more about how to use WMS. How would you like to begin?

- I am using WMS for the first time. Help me get started.
- I am starting a new collection.
- I am adding objects (files and metadata) to an existing collection.
Workflow Management System

First-Time User

There are a few things you need to know before you can start building collections and creating metadata.

Understanding Your Role

WMS is designed to serve two users:

1. The administrator, who establishes projects in the WMS, so that her WMS team can add objects and metadata
2. The team member, who adds digital objects and metadata to the repository

Follow the link that is right for you! (Hint: You may be serving in both roles.)

- What every administrator should know.
- What every team member should know.

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Every Administrator Should Know

This tutorial will guide you through the process of setting up a digital archiving project in WMS in easy steps. If you wish, you may toggle between this tutorial window and the WMS to complete each step. Although this tutorial is sequential, you can also use the Table of Contents box on the right to skip or review each step.

- **ep One**: Name Your Collection
- **ep Two**: Understand the Collection Record
- **ep Three**: Create a Project
- **ep Four**: Create a Metadata Template for a Collection
- **ep Five**: Digitize Resources to Repository Standards
- **ep Six**: Upload Digital Files
- **ep Seven**: Select and Use a Template to Catalog
- **ep Eight**: Enter Metadata
- **ep Nine**: Export to Repository

**Begin the Tour**

**Table of Contents**

- **Overview**
- **Tutorials**
  - Getting Started: Admins
    - Name Your Collection
    - Understand the Collection Record
    - Create a Project
    - Create a Master Template
    - Digitize Resources
    - Upload Files
    - Use a Template to Catalog
    - Enter Metadata
    - Export to Repository
  - User Guide
  - Reference

**Search Help Files**

- demo only
- Go!
Three-Year Collection Development Plan:

- **Primary Research Products:** particularly those that are useful for further research but difficult to discover and obtain: multimedia research products, data sets, etc.

- **Resources created by administrators and publishers** that have research value beyond the administering department

- **Significant special collections** from RUL
The New Jersey Digital Highway (NJDH) is a new way to explore our state's history and culture. NJDH is a collaboration of the state's libraries, museums, archives and historical societies to provide a "one stop shop" for New Jersey's cultural treasures—photographs, books, documents, three-dimensional objects, video and audio.

Search Our Collection

Limit search results to:
- Text
- Images
- Audio
- Video

Advanced Search

Interest Areas for Different Audiences:
Support for robust and sustainable digital publishing workflows

- Initial collaboration: **Electronic Theses and Dissertations** with GSNB—expand to other graduate schools

- **Electronic journal** publishing tool. Supports peer review, indexing and archiving

- **Website archiving** tool: maintain site structure and files as a permanent “snapshot”
FEBRUARY 17, 2006, FROM THE EDITOR


The Edwards & Kannan case study is noteworthy, in part, for possessing interrelated levels of case study context. Specifically, this case involves Vumile, an individual in group therapy, with comparisons to other clients in the group. In addition, the therapy employs a manualized protocol that is a variant of one employed in randomized clinical trials. The case study, then, is able to explore the links among individual therapy, group therapy, manualized treatment, and randomized clinical trial research, which is associated with the empirically supported treatment (EST) movement.
**Tools, Guidance, Workflow and Business Model**

- **Tools**: workflow management system (current). “Digital depot”, “data center” and Sakai interface planned.

- **Guidance**: Digital standards, metadata guidance, equipment to create high end digital objects

- **Business model**: flexible core services, participation in grants, integration of repository services into library repertoire.
Welcome to RUcore, the Rutgers Community Repository.
RUcore preserves and makes available digital collections and the significant scholarly, research and administrative resources created by the Rutgers community and its collaborators.

Learn More about RUcore
- Our mission statement
- Submitting or recommending collections to RUcore
- What collections does RUcore already include?
- What tools and services can RUcore provide to RU faculty and administrators?

Search RUcore

What's New?
Award:
RUcore's Workflow Management System is awarded honorable mention in New Jersey Library Association ACRL College and University Section Technology Innovation Award Competition.

Upcoming Presentations on RUcore:
Information Technology for Research: The Impact of National Directions in Cyberinfrastructure
- Busch, Camden and Newark
- April 4, 2006
- Click here for more information
Presentation by Grace Agnew, AUL for Digital Library Systems

Implementing Institutional Repositories
CNI Spring Task Force Meeting
- Arlington, Virginia
- April 5, 2006
- Click here for more information
Presentation by Ron Jantz, Digital Library Architect