## Life Cycle Management Meets Digital Preservation: Role of Collection Maintenance in Digital Collections Sustainability

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DLF Fall 2006 Forum

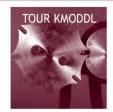
CORNELL UNIVERSITY LIBRARY CORNELL UNIVERSITY COLLEGE OF ENGINEERING

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### KINEMATIC MODELS FOR DESIGN DIGITAL LIBRARY

an open access, multimedia resource for learning & teaching about kinematics and the history & theory of machines Geometry of Ture Motion



KMODDL is a collection of mechanical models and related resources for teaching the principles of kinematics--the geometry of pure motion. The core of KMODDL is the Reuleaux Collection of Mechanisms and Machines, an important collection of 19th-century machine elements held. by Cornell's Sibley School of Mechanical and Aerospace Engineering.

What is Kinematics?

Reuleaux Collection of Mechanisms at Cornell

Clark Collection of Mechanical Movements, Museum of Science, Boston 🖨

Redtenbacher Collection of Mechanisms, University of Karlsruhe, Germany

Open Access E-Book Collection





search KMODDL

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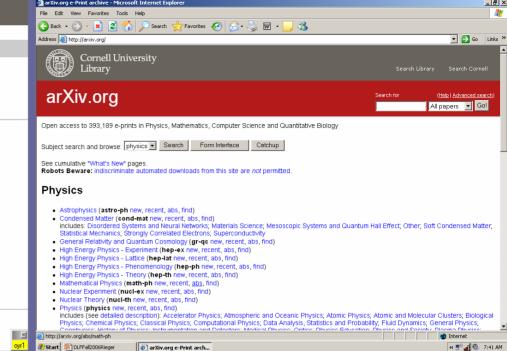
















S a collection of historic travel narratives

Search

arXiv.org e-Print arch...

Collection Browse

Project

Bibliography

THIS SITE IS IN TEST MODE. The collection will be released January 2006.



### Welcome to SOUTHEAST ASIA VISIONS, a

collection of European travel accounts of pre-modern Southeast Asia from Cornell University Library's John M. Echols Collection. The site provides on-line access to 322 books and journal articles written in English and French. The works in the collection were selected for the quality of their fiirst- hand observations and, together, provide a comprehensive representation of Southeast Asia. Along with their narratives, these accounts include some 10,000 images, drawings, photographs, prints and maps, many of them in color. The objectives of this project are both to meet the curricular needs of courses taught at Cornell University and to make these texts and images accessible via the Internet to students and scholars worldwide. It presents



#### SEARCH THE COLLECTION

Locates works that contain information specified in the search -- such as certain words in the title or text or an author's



### **BROWSE THE COLLECTION**

Presents hyper-linked bibliography of all titles organized by title, by author, by date, or by Image criteria.

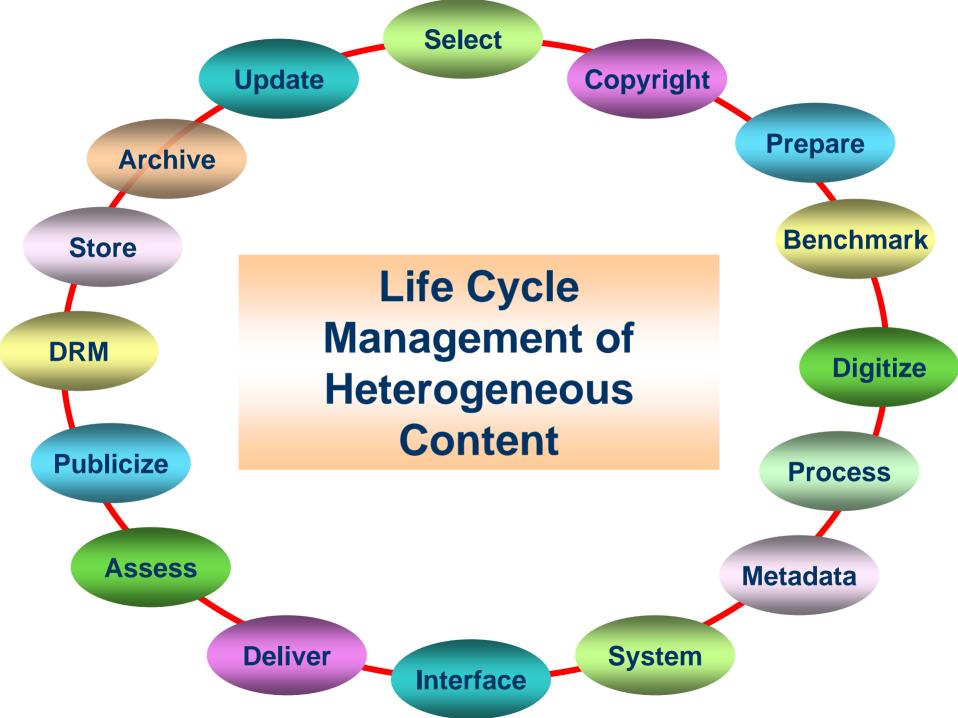


### **ABOUT THE COLLECTION**

Historical Context, Geographical Context (including map of Southeast Asia), and the Significance of These Accounts.

# Digital Library and Information Technologies

- Support effective and efficient creation and management of digital content
- Implement best practices and standards to create systems with long-lasting value
- Develop a business model to sustain services and foster financial accountability



Being reactive – that is, attempting to preserve content after it has been created instead of creating efficiently preservable content in the first place – is inherently unpredictable and inefficient.

> "The Archive Ingest and Handling Test at Stanford University" Anderson et al D-Lib Magazine, December 2005

## Digital Collection Management: Goals

- Upgrades, revisions, migration
  - Delivery system and supporting applications
  - Metadata and object formats
  - Storage system
- Content additions and corrections to the existing digital collections
- Repackaging of collections repurposing
- Web site and interface revisions

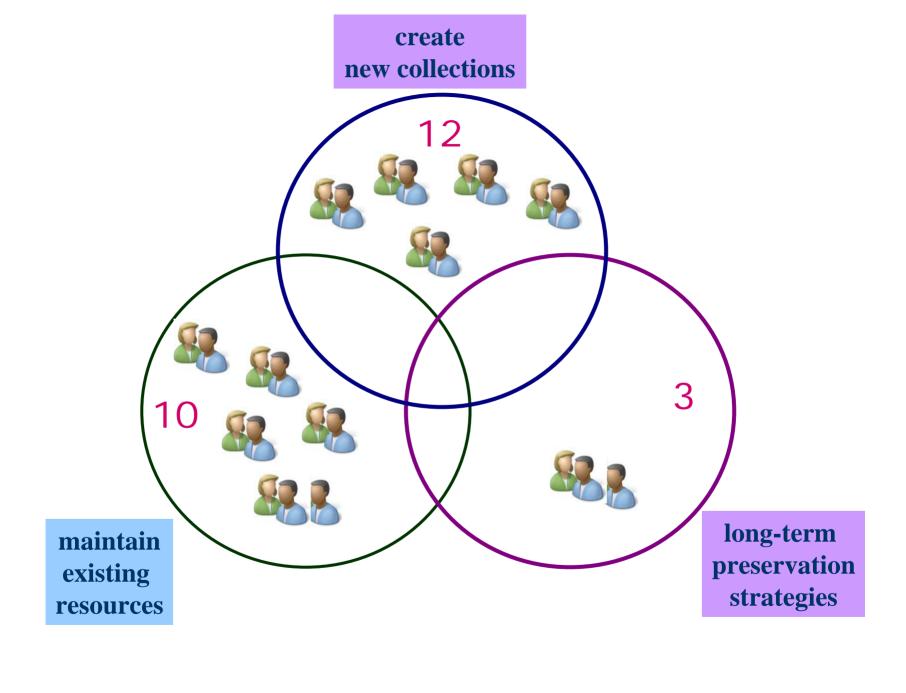
## Digital Collection Management: Costs

### Budget

- Direct expenses: Salary, benefits, training, equipment, service contracts, storage and networking, etc.
- Indirect expenses: Equipment depreciation, service center administration, utilities, etc.

### Service fees

- Per hour rates billable hours based on 1200 hrs/year & product prices
- Production statistics
- Production vs. R&D costs



# Digital Collection Management: Operating Principles

- Plan for Life Cycle Management:
  - Place equal emphasis on planning, development, management, and preservation
- Practice Stewardship
  - Curatorial roles and technical leads for accountability and ongoing stewardship
- Push our Content to Where Users Are
  - Interoperability, federated access, Web retrieval principles
- Use the Digital Collections Registry
  - Information about collections, services, and agents

## **CUL Registry for Digital Collections**

Project Team

Matt Arnstein, Jena Bakula, Gale Halpern (Coordinator),

Keith Jenkins, Oya Rieger (Sponsor), Rick Silterra

- Provide tools for managing digital assets
  - Collection-level metadata
  - Rights management
  - Stewardship information
  - Preservation information
- Enable peer-to-peer and machine-to-machine collection discovery and federation requests
  - Provide OAI-PMH capability for harvesting by other institutions
  - Promote our collections







