Data Curation and eScholarship

Oya Y. Rieger
Cornell University Library
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Repository Model Assessment
Digital curation involves a series of technical, intellectual, and managerial activities in support of stewardship for digital assets.

ORieger 2007
Factors in Choosing a Repository Model

• Development characteristics
• Financial sustainability
• Digital library infrastructure
• Interoperability and support for standards
• Institutional policies and practices

• Support of archival business requirements
• Content type characteristics
• Preservation functionality
• Usability (staff and end-user)
• Search, browse, access features
1. Understand Key Stakeholders’ Perspectives
I prefer an open source application

How about preservation policies?

Which taxonomy should we use?

Why would I give you my data?

What is your business case?
2. Conduct Needs Assessment

**Object types and attributes**
- Selection and de-accession criteria
- Intellectual property rights
- Relation to other collections
- Metadata attributes

**Services**
- Use type
- Frequency of use
- Use mode
- User support needs

**Staff and skills**
- Systems, hardware, software
- Stakeholders
- Organizational guidelines and policies
- Master plans and strategies
4. Explore Resource Requirements

- **Cost elements**
  - Staffing
  - Hardware and software
  - Storage systems
  - Communication & network charges

- **Cost stages**
  - Start up
  - Maintenance
  - Amortization
  - Development
  - Assessment
5. Design Scalable and Expandable Systems

- Separate key repository functionalities from applications
- Design with Web 2.0 in mind
6. Leverage the New Information Chain

Van de Sompel et al, D-Lib Magazine, September 2004
Social Interoperability
Understand the Existing Human Landscape

• Work culture and practices
  – shape acceptance and use of information technologies

• Social theories of science
  – Computer Supported Cooperative Work (CSCW)
  – Social Construction of Technology (SCOT)
  – Appropriation Theory

• Design approaches
  – Affirmative
  – Critical