Building Successful Digital Repositories

Susan Gibbons
Associate Dean
River Campus Libraries
University of Rochester
sgibbons@library.rochester.edu

October 8, 2006
IR Landscape: Then & Now
2004 Landscape

- If you build it... they might not come!
- Example of MIT
  - National and international press for DSpace
  - $285,000 annual
  - Approx. 4,000 items in 2004
  - $71 per item, per year
  - Professional marketing assistance
2004 Landscape

- April 2004 Survey of 45 IRs
  - Average # of documents 1,250
  - Median # of documents 290

Today’s Landscape

- MIT
  - 18,810 documents (11,000+ dissertations)
  - $15.15 per item per year
- December 2005 survey of 97 DSpace repositories
  - Average # of documents 4,486
  - Median # of documents 523
On a global scale, U.S. is falling behind

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage of Universities with IRs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>95%</td>
</tr>
<tr>
<td>Denmark</td>
<td>50%</td>
</tr>
<tr>
<td>France</td>
<td>27%</td>
</tr>
<tr>
<td>Italy</td>
<td>22%</td>
</tr>
<tr>
<td>Sweden</td>
<td>64%</td>
</tr>
<tr>
<td>UK</td>
<td>22%</td>
</tr>
<tr>
<td>Belgium</td>
<td>53%</td>
</tr>
<tr>
<td>Finland</td>
<td>5%</td>
</tr>
<tr>
<td>Germany</td>
<td>100%</td>
</tr>
<tr>
<td>Norway</td>
<td>100%</td>
</tr>
<tr>
<td>The Netherlands</td>
<td>100%</td>
</tr>
<tr>
<td>US</td>
<td>50% of doctoral</td>
</tr>
</tbody>
</table>

From September 2005 *D-Lib Magazine* article by Westriienen and Lynch
Getting Better, But Still Not There

- How can we come to understand why faculty are not using the IRs?
Work Practice Study

- IMLS grant
- Anthropologist, Dr. Nancy Fried Foster
- Disciplines = Tribes
- 30 in situ interviews
- Focused specifically on use of digital tools and documents in research and authoring
Disciplines Studied

- Physics
- Economics
- Political Science
- Linguistics
- Visual & Cultural Studies
- All others through bibliographer grey lit interviews (see handout)
Work-Practice Study

- Walk us through your research process
- Introduce us to your environment
- Engage us in your research interests
  - Record/Video tape everything
  - Transcripts
  - Analysis by diverse group of people
    - Co-viewing
    - Structured exercises
    - Brainstorming
Participatory Design/ User Centered Design

- Continuous loops back to the user
- Don’t guess, just ask!
- Can still get good input with less than a fully-functional prototype
Broad Findings: Different Voices

- Institutional Voice
  - Showcase; efficiencies

- Library Voice
  - Archiving; permanence; proactive response to serial pricing

- IT Voice
  - Cool technology; back-up consolidation

- Faculty/Researcher Voice
  - Communicate with colleagues; research is read & cited; control how work is presented
Broad Finding: Different Language

- Not speaking the language of faculty/researchers
- Not interested in how it works, only that it works
- Require a personalized message
### Features As Stated in Promotional Literature vs. Degree to Which Faculty Understand the Feature and Perceive Its Benefit

<table>
<thead>
<tr>
<th>Feature</th>
<th>Degree to Which Faculty Understand the Feature and Perceive Its Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional repository</td>
<td>0%</td>
</tr>
<tr>
<td>Support for a variety of formats</td>
<td>25%</td>
</tr>
<tr>
<td>Digital preservation</td>
<td>25%</td>
</tr>
<tr>
<td>Access control</td>
<td>100%</td>
</tr>
<tr>
<td>Metadata</td>
<td>0%</td>
</tr>
<tr>
<td>Open-source software</td>
<td>0%</td>
</tr>
</tbody>
</table>
Moving Forward: Different Voices

- Be conscious of audience
- Target your marketing
- Cater to faculty/researcher needs
Moving Forward: Language

- Know the discipline
- Know their research interests
- Change the vocabulary
  - Persistent URLs = Unbreakable links
  - Metadata harvesting = Google
  - Format migration = WordStar
Broad Findings: Authoring Tools

- Versioning and co-authors
- Back-ups
- Always accessible
- Control access
- Finished works?
- Is IR an author tool?
Moving Forward: Authoring Tools

- Be aware of the confusion
  - Try to avoid an initial let down
- Collaborate to expand purchase to include authoring tools (i.e. Documentum and DocuShare)
- If have authoring tools, try to integrate with IR
- Ideal is to map to desktop
Broad Finding: Not Enough Time

- Universal complaint
- Resent what interferes with research
- Ideal IR requires zero learning & zero effort
Moving Forward: Not Enough Time

- Self-archiving make sense?
- Bundle submissions (other repositories; other purposes)
- Grad students are faculty of the future
- Demonstrate immediate benefits
**Title:** In Search of Gay Language

**Authors:** Runner, Jeffrey T.

**Keywords:** language and sexuality
language and gender
gay language
sociolinguistics

**Issue Date:** 19-Mar-2004

**Abstract:** Paper presented at the Susan B. Anthony Institute for Gender and Women's Studies 11th Annual Interdisciplinary Graduate Conference, University of Rochester, March 2004

**URI:** http://hdl.handle.net/1802/233

**Appears in Collections:** Linguistics Conference Papers

All items in UR Research are protected by copyright, with all rights reserved.
Moving Forward: Not Enough Time

- Incentives
  - Tenure Portfolio
  - Annual Academic Review
- Make IR submission part of the natural work flow
  - Integrated into the tools they use daily
Broad Finding: Copyright Worries

- Too complex
- Fear of “accidentally” violating copyright
- Takes too much time
- “Green” is not clear cut
Moving Forward: Copyright Worries

- Trust librarian copyright expertise
- Promote awareness, carefully
  - Less “Create Change”
  - More “Get on the Bus”
- Pro-active “self-archiving” projects
  - Romeo/Sherpa Publisher Copyright Database
<table>
<thead>
<tr>
<th>Publisher:</th>
<th>Elsevier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-print:</td>
<td>subject to Restrictions below, author can archive pre-print (ie pre-refereeing)</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>This does not include Cell Press</td>
</tr>
<tr>
<td>Post-print:</td>
<td>author can archive post-print (ie final draft post-refereeing)</td>
</tr>
<tr>
<td>Conditions:</td>
<td>On author's personal or author's institution's server</td>
</tr>
<tr>
<td></td>
<td>Published source must be acknowledged</td>
</tr>
<tr>
<td></td>
<td>Must link to journal home page</td>
</tr>
<tr>
<td></td>
<td>Publisher's version/PDF cannot be used</td>
</tr>
<tr>
<td>Copyright:</td>
<td>view policy</td>
</tr>
<tr>
<td>ROMEO:</td>
<td>This is a ROMEO green publisher</td>
</tr>
<tr>
<td>Update:</td>
<td>suggest update for this record</td>
</tr>
</tbody>
</table>

---

**Enter terms using Boolean connectors (ex: cat OR feline AND nutrition)**

**Term(s):**

14627

**Source:**

- All journals
- Include Articles in Press

**Subject:**

- All Sciences -
  - Agricultural and Biological Sciences
  - Arts and Humanities
  - Biochemistry, Genetics and Molecular Biology

**Limit by:**

- E-mail Alerts
- SMS Alerts
- RSS Feeds
- Facebook
- Twitter
Broad Finding: Me, Me, Me

- It is all about me!
- How is this going to benefit me?
- Where am I in these collections and communities?
Researcher Page: Charles Phelps

- Books
  - Health Economics, 3rd Edition
  
- Journal Articles
  - Diffusion of Information in Medical Care
  - The Subtle Impact of Price Controls on Crude Oil Production

- Working Papers
  - Deductibles and the Demand for Medical Services: The Theory of the Consumer Facing a Variable Price Schedule Under Uncertainty
  - Doctors Have Styles -- and They Matter!
  - On Having Your Cake and Eating It Too: Econometric Problems in Estimating the Demand for Health Services

About Charles Phelps

Provost and Professor of Economics and of Political Science Administration, Economics, Political Science, Community & Preventive Medicine Economics

Wallis 200
Phone: 585-275-5931
Email: melinda.smith@rochester.edu
Fax: 585-461-1046

Economics Dept Faculty Page
My CV

Research Interests

Issues relating to scholarly communication and digital technologies, health economics and policy, the economics and governance of not-for-profit organizations, the economics of science and technology.
Researcher Page: Jeffrey Runner

**Research**

**Coreferential Interpretations of Reflexives in Picture Noun Phrases: an Experimental Approach**

Powerpoint slides from presentation.

**Coreferential Interpretations of Reflexives in Picture Noun Phrases: an Experimental Approach** (link)


**In Search of Gay Language**


**About Jeffrey Runner**

Associate Professor
Linguistics
Syntax and Language Processing

Lattimore 511A
Phone: 585-275-2626
Email: runner@ling.rochester.edu
Fax: 585-273-1088

**Runner Linguistics Homepage**

**Research Interests**

Syntactic theory; syntax-semantics interface; phrase structure; the roles of structural and pragmatic constraints on noun phrase (co-)reference.
Some services you just can’t predict!
Title: Efficient Investment in Children
Authors: Aiyagari, S. Rao
Greenwood, Jeremy
Seshadri, Ananth
Keywords: S. Rao Aiyagari
Investment in children
Efficiency
Issue Date: 17-Mar-2006
Abstract: S. Rao Aiyagari was one of the top macroeconomists of his generation. His work was distinguished by its clarity of thought and presentation. Rao Aiyagari received his Ph.D. from the University of Minnesota in 1981 (earned under the supervision of Neil Wallace). He also held Masters degrees in Economics and Physics. In fact, his first publication (joint with M. N. Mahanta) was "On the equivalence of the Einstein-Mayer and Einstein-Cartan theories for describing a spinning medium" printed in the Journal of Mathematical Physics in 1975. S. Rao Aiyagari visited the University of Rochester during the Fall of 1995. He completed these notes in January 1996, shortly after his return to the Federal Reserve Bank of Minneapolis. (He wrote every word.) In the Spring of 1996 the University offered Rao Aiyagari the position of a full professor in the Department of Economics. Rao Aiyarari was a person with a very honest and straightforward manner. "Elegance without pretension" summarized his ...

Description: These are the last notes of S. Rao Aiyagari, dated January 5th, 1996. They form the backbone of "Efficient Investment in Children" (Journal of Economic Theory, 2002).

URI: http://hdl.handle.net/1802/2461
Appears in Collections: Economics Faculty Papers
The Model

E \left[ \sum_{t=0}^{\infty} \beta^t u(c_t, l_t) \right] = E \left\{ \sum_{t=0}^{\infty} \beta^t \left( \frac{1}{1-\delta} \right) \left[ (c_t^\theta (1-l_t))^{1-\theta} - 1 \right] \right\}^2 (1)

Hercowitz, Zvi
Krusell, Per

Keywords: investment-specific technological progress.
Don’t Forget Library Staff

● Ensure library-wide understanding of:
  ● Project’s goals and objectives
  ● Benefits of depositing materials
  ● Support services

● Be ready for serendipity
Recognize That This is NEW!

Collections Grid

A framework for representing content

Published Content
- Books
- Journals
- Newspapers
- Gov. docs
- CD, DVD
- Maps
- Scores

Special Collections
- Rare books
- Local/Historical newspapers
- Local history materials
- Photographs
- Archives & Manuscripts
- Theses & Dissertations

Open Web Content
- Freely-accessible web resources
- Open source software
- Newsgroup archives
- Images

Institutional Content
- ePrints/tech reports
- Learning objects
- Courseware
- Local government reports
- Training manuals
- Research data

Source: OCLC Office of Research, 2003
Contact Information

Susan Gibbons
Associate Dean
University of Rochester, River Campus Libraries
sgibbons@library.rochester.edu
AIM: susanlgibbons