

The Evolving Scholarly Record: Scope, Stakeholders, and Stewardship

Brian Lavoie

OCLC Research

University of Maryland Libraries

College Park, MD

November 16, 2015

Prelude



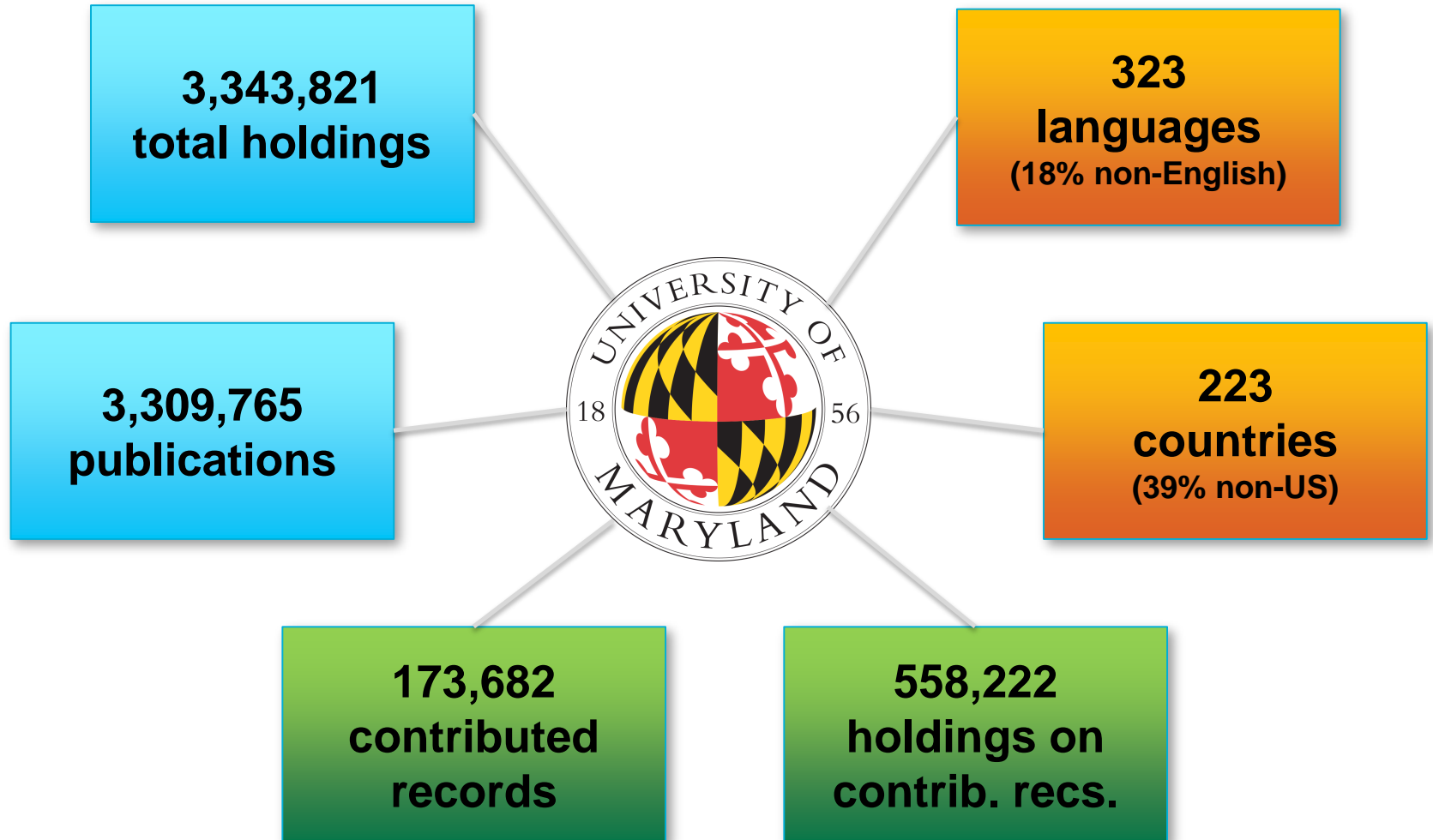
in



WorldCat®

UMD presence in WorldCat

January 2015



Topics where UMD has more titles than any other library

Historic buildings – Conservation and restoration



Rosenfeld, Azriel



Biometric identification



Sonatas (Piano)



National Trust for Historic Preservation in the US



National Association of Broadcasters





Topics from the *NMC Horizon Report > 2015 Library Edition*



TRENDS, CHALLENGES,
AND TECHNOLOGIES
FOR LIBRARIES

CHALLENGES

SOLVABLE

- > Embedding Academic and Research Libraries in the Curriculum
- > Improving Digital Literacy

DIFFICULT

- > Competition from Alternative Avenues of Discovery
- > Rethinking the Roles and Skills of Librarians

WICKED

- > Embracing the Need for Radical Change
- > Managing Knowledge Obsolescence

TRENDS

SHORT-TERM IMPACT

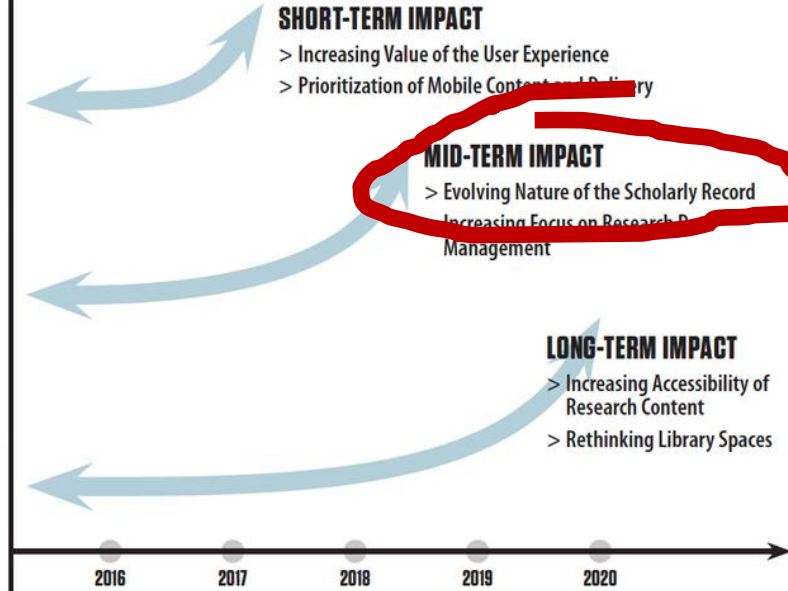
- > Increasing Value of the User Experience
- > Prioritization of Mobile Content and Delivery

MID-TERM IMPACT

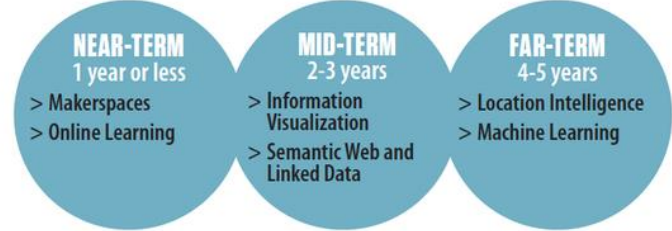
- > Evolving Nature of the Scholarly Record
- > Increasing Focus on Research Data Management

LONG-TERM IMPACT

- > Increasing Accessibility of Research Content
- > Rethinking Library Spaces



2016 2017 2018 2019 2020



- NEAR-TERM**
1 year or less
- > Makerspaces
 - > Online Learning

- MID-TERM**
2-3 years
- > Information Visualization
 - > Semantic Web and Linked Data

- FAR-TERM**
4-5 years
- > Location Intelligence
 - > Machine Learning

DEVELOPMENTS IN TECHNOLOGY

Roadmap

- Background & trends
- The evolving scholarly record ...
 - Scope
 - Stakeholders
 - Stewardship
- Key issues for academic libraries
- Questions & discussion

THE EVOLVING SCHOLARLY RECORD

Welcome to create.ou.edu

Empowering Digital Scholarship,
Expanding Digital Literacy &
Creating Digital Citizens.

Get Started



“... Create aims to empower all members of the OU community to craft and control their digital narrative through the use of blogs, portfolios, wikis, and more.”

Featured Sites

All / Blog / Course Site / Exhibit / Faculty / Learning Community / Misc / Portfolio / Wiki



<https://create.ou.edu/>

What is OU Create?

A: OU Create is a project at the University of Oklahoma managed by the Center for Teaching Excellence.

OU Create offers students, faculty, and staff the opportunity to register a domain (.com, .org, .net) and create a digital presence through various mediums such as blogs, portfolios, and wikis. Students can easily install popular open source applications such as WordPress, MediaWiki, Drupal.

Evolutionary trends ...

- **Formats shifting:**
 - Print-centric to digital, networked
- **Boundaries extending:**
 - Articles/monographs, but also data, computer models, lab notebooks, blogs, e-mail discussion, e-prints, interactives/executables, visualizations, etc
- **Characteristics changing:**
 - *Traditionally:* static, formal, outcome-focused
 - *Today:* dynamic, blend of formal & informal, more focus on documenting full research cycle (replicability, “leveragability”)
- **Stakeholders reconfiguring:**
 - New paths for the scholarly communication “supply chain”

The Evolving Scholarly Record

Develop framework to:

- Organize/support/drive discussions about ESR
- “Big picture” view of ESR
 - Categories of material
 - Stakeholder roles
- Common reference point for ESR within/across domains
- Support strategic planning by libraries, funders, publishers, scholarly societies ...



<http://oc.lc/esr>

Framing the Scholarly Record ...



In practice ...



The Journal of Brief Ideas

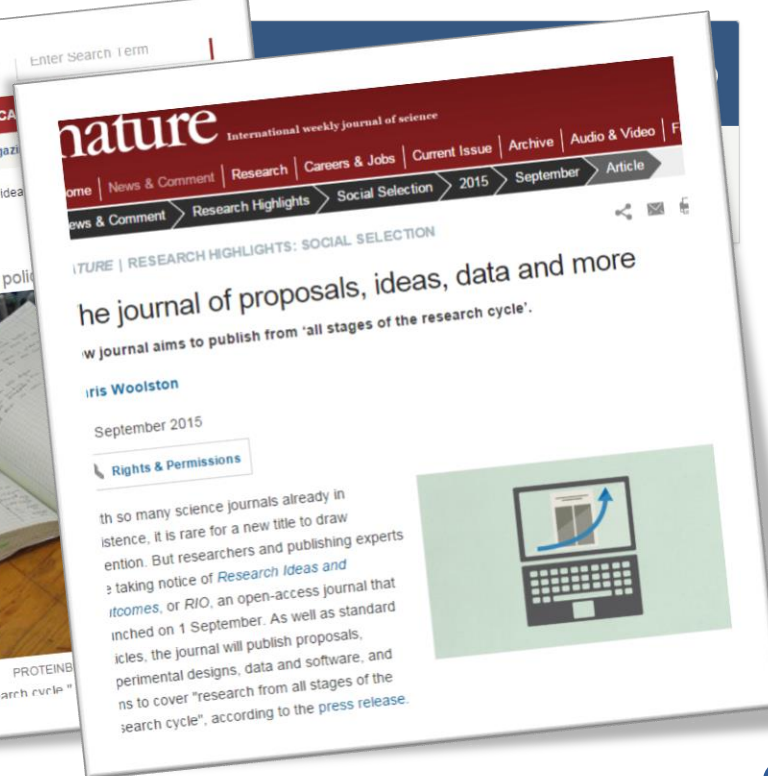
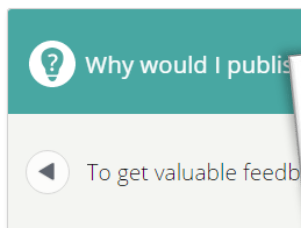


“evolving manuscripts”

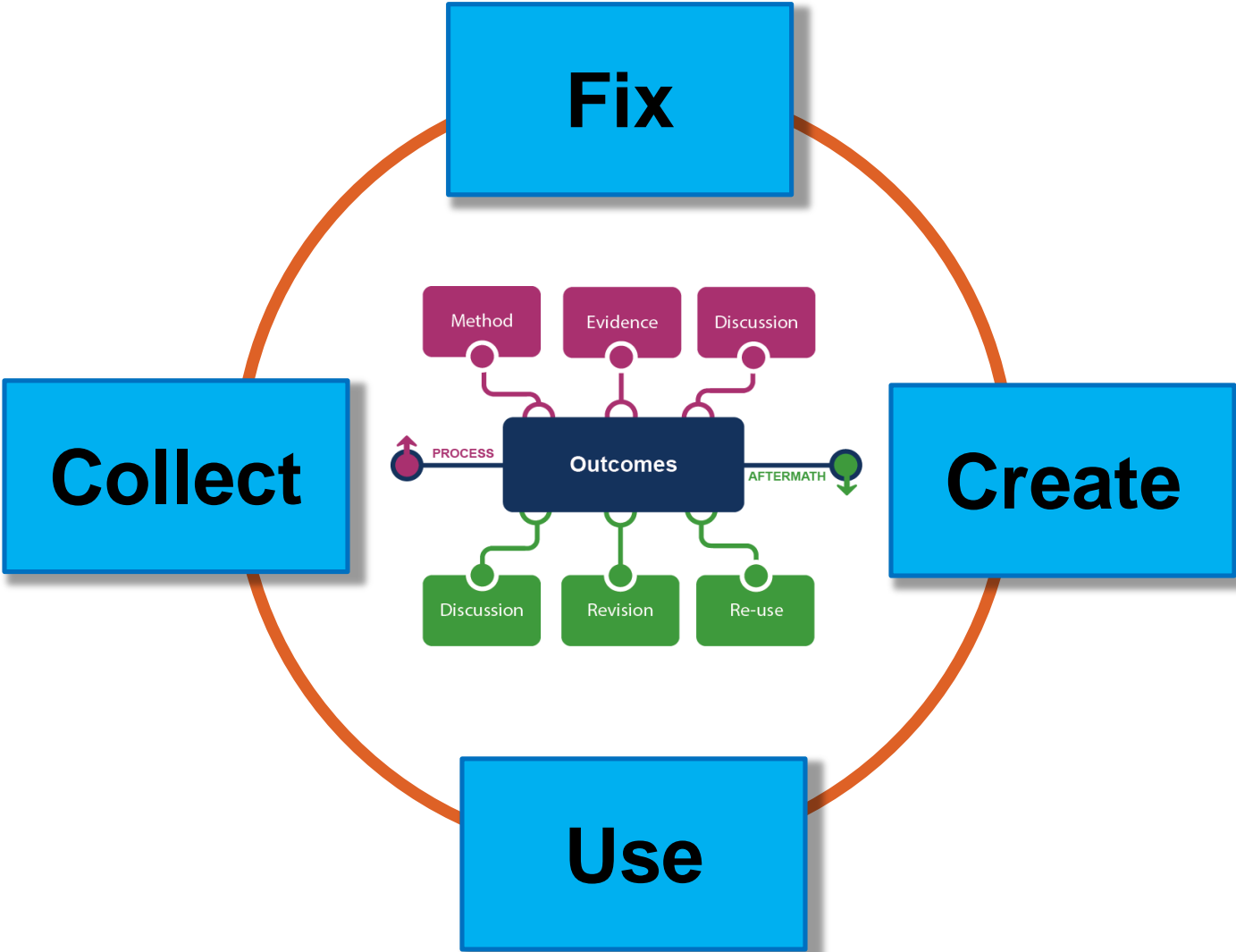


The Research Ideas and Outcomes (RIO) journal publishes all outputs of the research cycle, including: project proposals, data, methods, workflows, software, project reports and research articles together on a single collaborative platform, with the most transparent, open and public peer-review process. Our scope encompasses all areas of academic research, including science, technology, humanities and the social sciences.

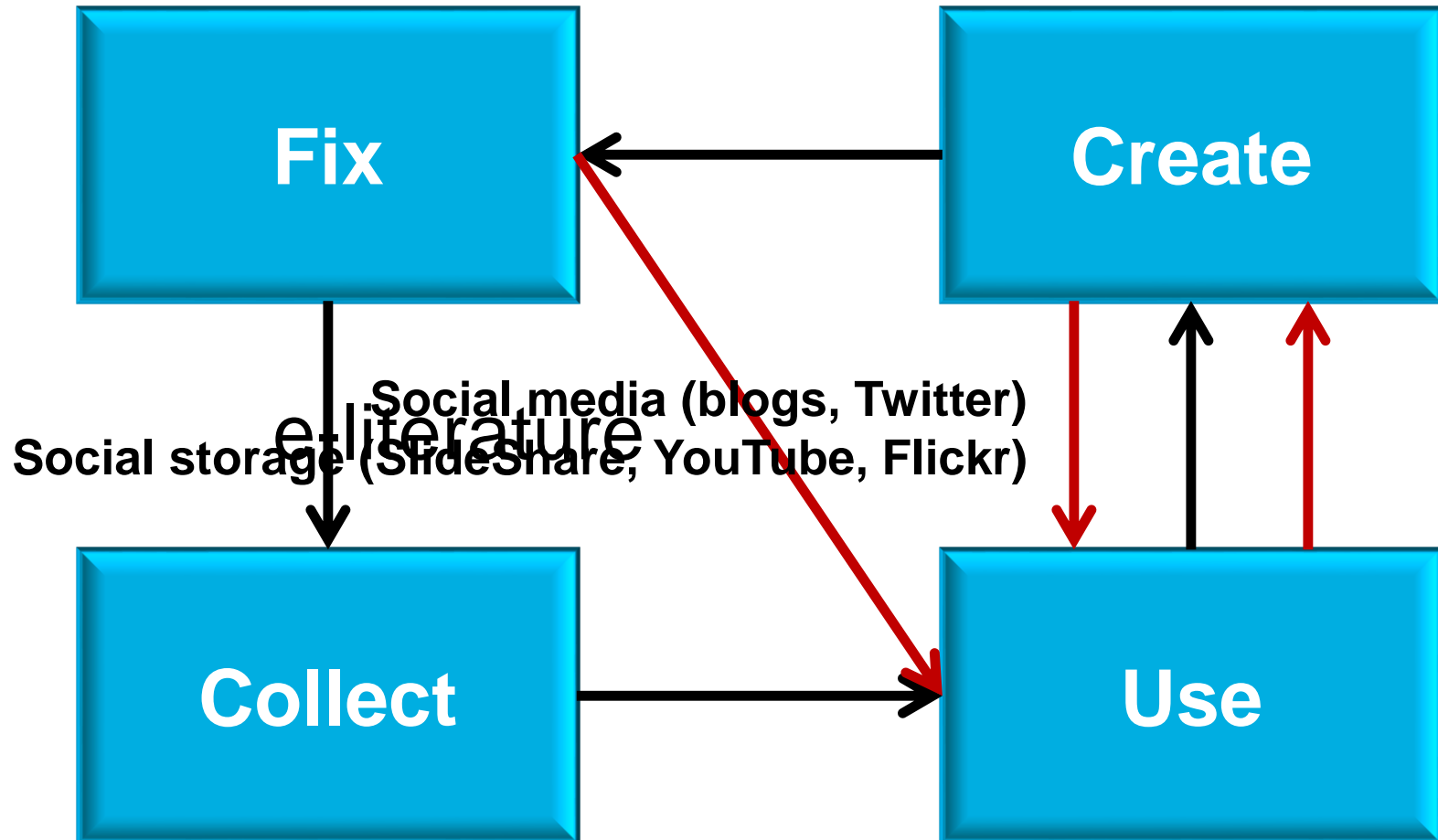
[Read more about the journal on the RIO blog](#)



Framing the stakeholder eco-system ...



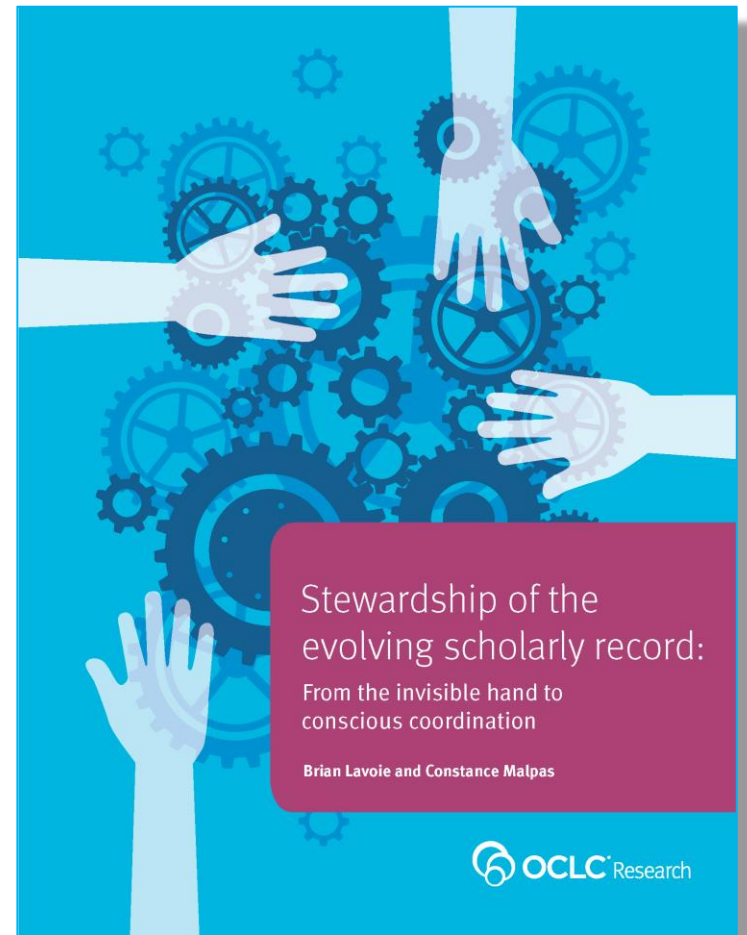
Evolving configurations in the eco-system ...



EVOLVING STEWARDSHIP MODELS

New Report: *Stewardship of the Scholarly Record*

- The scholarly record is evolving, so ...
- ... stewardship models for scholarly record are changing too
- “Conscious coordination” key to securing future of scholarly record

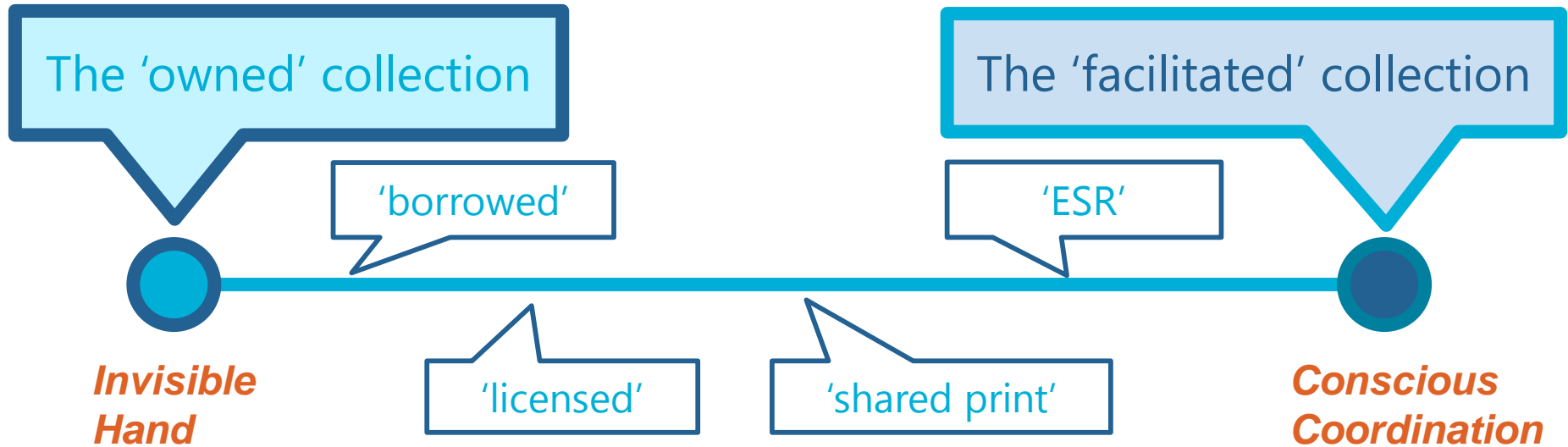


<http://oc.lc/esr-stewardship>

Stewardship ... historically

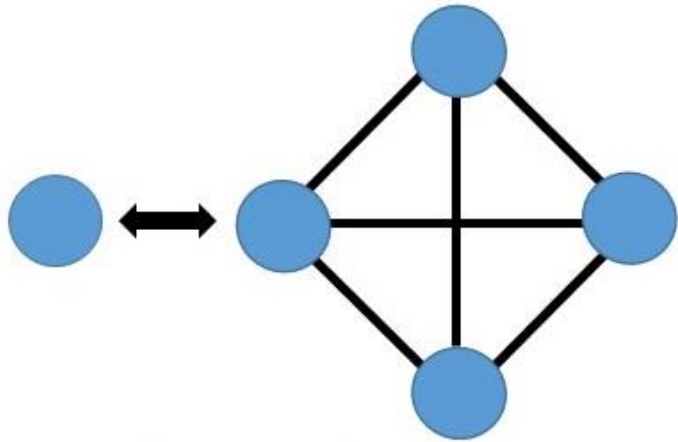
- Stewardship of scholarly record was byproduct of **uncoordinated, highly distributed, and duplicative** process of managing local print collections.
- Sum of local stewardship efforts resulted in **aggregate library resource that was relatively complete** record of published (print) scholarly outputs
- “**Invisible hand**” metaphor: uncoordinated local efforts lead to socially desirable outcome

Stewardship ... now



Scholarly record no longer approximated in academic library collections

Four elements of conscious coordination



System-wide awareness

“Align local action with collective effort”



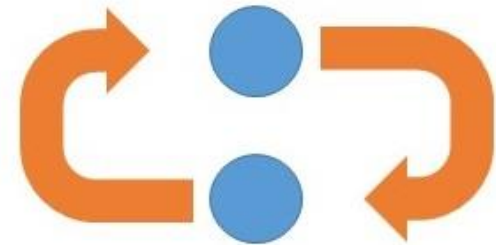
Explicit commitments

“Move commitments above the institution”



Division of labor

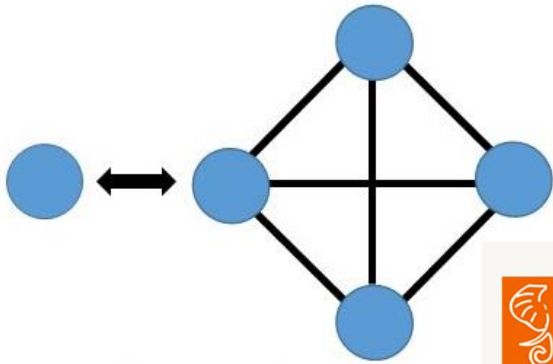
“Collect more of less”



Reciprocal access

“Curate locally, share globally”

Examples



System-wide awareness

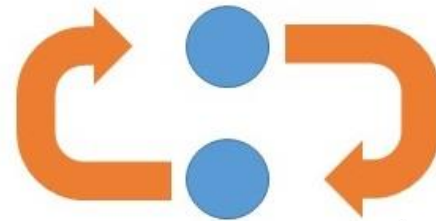


Explicit commitments

marc 583



Division of labor



Reciprocal access



IMPLICATIONS FOR ACADEMIC LIBRARIES

Academic libraries: key issues



- Much of scholarly record not represented in local academic library collections
- Providing access to scholarly record involves shift from “owned collection” to “facilitated collection”
- Local collections/services increasingly embedded in networks of collective access/stewardship responsibility

Library coverage: increasingly partial

- Growing number and diversity of outputs published in venues **outside traditional library supply chain**: GitHub, Figshare, ResearchGate, Zenodo etc.

Questions to consider:

- Is your institution systematically collecting artifacts of research **process and aftermath**, as well as traditional outcomes?
- How can library expertise in **appraisal and selection** be applied to curation of materials managed outside the library?

Example: New publication platforms

The collage features four overlapping screenshots:

- GitHub:** Shows a repository named "Rutgers-University-Notes" with 213 commits and 1 branch. It lists files like "Computer Science", "Mathematics", "Philosophy", and "img".
- Figshare:** Displays a profile for Matthew Marsteller, Senior Librarian at Carnegie Mellon University, with 98 views and 0 shares.
- Rutgers University Notes:** Shows a list of notes under the URL "http://eden.rutgers.edu/~pmj34", including "Computer Science" and "Mathematics".
- University of Michigan ResearchGate:** Shows a profile for the University of Michigan with 10,551 members and 94,067 publications. It lists departments like Electrical Engineering and Computer Science, Mechanical Engineering, and Internal Medicine.

New forms of scholarly work not fully documented in institutional archives or library collections

Curating “facilitated collections”

- Demand-driven acquisition
- Open access resources included in local discovery environment, but not local collection
- Institutional repository (content) vs. institutional bibliography (metadata)


Questions to consider:

- Does the library track student/faculty use of ‘extra-institutional’ repositories?
- Does the library coordinate with other campus units collecting or monitoring research/learning outputs?

Example: Open access content

TEXAS WOMAN'S UNIVERSITY

1 Results for Everything Sorted by: Relevance ▾

 ☆ [Fairfield's pioneer history of Lassen County, California: containing everything that can be learned about it from the beginning of the world to the year of Our Lord 1870 ... Also much of the pioneer history of the state of Nevada ... the biographies of Governor Isaac N. Roop and Peter Lassen ... and many stories of Indian warfare never before published](#)
Fairfield, Asa Merrill 1916
007698535
● Full text available
[View all versions](#)

Links
> [View full text in HathiTrust](#)

Many (non-partner) libraries include HathiTrust content in local discovery environments

OCLC catalog records are available for 97 percent of the journals in our sample, representing 91 percent of the articles. The **median number of holding libraries is 230**, a number that does not vary systematically by subject. These findings suggest that

Collins, Cheryl S., and William H. Walters. 2010. "Open Access Journals in College Library Collections". *The Serials Librarian*. 59 (2): 194-214.

Many libraries point to OA journals without participating in preservation schemes

Discoverability and stewardship are decoupled

Homo naledi, a new species of the genus Homo from the Dinaledi Chamber, South Africa

Lee R Berger , John Hawks, Darryl J de Ruiter, Steven E Churchill, Peter Schmid, Lucas K Deleuzene, Tracy L Kivell, Heather M Garvin, Scott A Williams, Jeremy M DeSilva, Matthew M Skinner, Charles M Musiba, Noel Cameron, Trenton W Holliday, William Harcourt-Smith, Rebecca R Ackermann, Markus Bastir, Barry Bogin, Debra Bolter, Juliet Brophy, Zachary D Cofran, Kimberly A Congdon, Andrew S Deane, Mana Dembo, Michelle Drapeau, Marina C Elliott, Elen M Feuerriegel, Daniel Garcia-Martinez, David J Green, Alia Gurtov, Joel D Irish, Ashley Kruger, Myra F Laird, Damiano Marchi, Marc R Meyer, Shahed Nalla, Enquye W Negash, Caley M Orr, Davorka Radovcic, Lauren Schroeder, Jill E Scott, Zachary Throckmorton, Matthew W Tocheri, Caroline VanSickle, Christopher S Walker, Pianpian Wei, Bernhard Zipfel

University of the Witwatersrand, South Africa; University of Wisconsin-Madison, United States; Texas A&M University, United States; Duke University, United States; University of Zurich, Switzerland; University of Arkansas, United States; University of Kent, United Kingdom; Max Planck Institute for Evolutionary Anthropology, Germany; Mercyhurst University, United States; New York University, United States; New York Consortium in Evolutionary Genomics, United States; University of Colorado Denver, United States; Lehman College, United States; University of Cape Town, South Africa; Museo Nacional de Historia Natural de Chile, Santiago, Chile; Louisiana State University, United States; University of Kentucky College of Arts and Sciences, Lexington, Kentucky, United States; Université de Montréal, Canada; Australian National University, Australia; Biology Department, Universidad Autónoma de Madrid, Spain; Northwestern University, United States; Liverpool John Moores University, United Kingdom; University of Pisa, Italy; Chaffey College, United States; University of Johannesburg, South Africa; George Washington University, United States; University of Colorado School of Medicine, United States; Croatian Natural History Museum, Croatia; University of Iowa, United States; Lincoln Memorial University, United States; Smithsonian Institution, United States; Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China

Downloads:

Article



Reference tools:

[DOWNLOAD](#) [OPEN](#)

Related content

Geological and taphonomic context for the new hominin species *Homo naledi* from the Dinaledi Chamber, South Africa

PH Dirks, LR Berger, EM Roberts, JD Kramers, J Hawks, PS Randolph-Quinney, M Elliott, CM Musiba, SE Churchill, DJ de Ruiter, P Schmid, LR Backwell, GA Belyanin, P Boshoff, KL Hunter, EM Feuerriegel, A Gurtov, JDG

Content availability and archiving

The following organizations help to make our content widely and permanently available:

- [AWS](#)
- [EuropePMC](#)
- [GitHub](#)

Go OA

Go To Selected Open Access Journals [Go OA](#)

- [Jisc Publication Router](#)
- [Mendeley](#)
- [Paperity](#)
- [PubMed Central](#)

New scholarly publication venues maximize visibility and impact

ISSN: 2050-084X
Established **2012**
Held in **>125 libraries**


Networks of collective responsibility

- Growing attention to **governance** of ‘above institution’ stewardship -- HathiTrust, UKRR, WEST, EAST etc.
- Governance/business models must incorporate sufficient **incentives** to elicit sustainable participation rates, contributions, and commitments.

Questions to consider:

- What is the primary **motivation** for *your* library to participate in cooperative stewardship arrangements?
- How do you evaluate the **robustness** of current partnerships? Are you confident they will last?

Examples: Seeking stewardship at scale



OhioLINK
Ohio's Academic Library Consortium
An OH-TECH Consortium Member

Home Search News and Events Help Contact Us About OhioLINK Blog

Home


Manager, Shared Resources & Print Policy

Join OhioLINK, an internationally recognized leader in resource sharing and shared print management, as a senior staff member responsible for charting the direction of shared print among OhioLINK's 91 member institutions. OhioLINK has five regional high-density storage facilities serving the public universities in Ohio, a shared depository union catalog running Innovative, Inc ILS software, and a shared ILLiad system for digital article delivery. See attached flyer for more information about working for OhioLINK.

Associate Dean for Collection Development and Archival Collections
Indiana University Bloomington Libraries in Indiana

Date Posted	September 4, 2015
Type	Tenured, tenure track
Salary	Commensurate with experience
Employment Type	Full-time

Library: This position articulates the vision and strategies for local and shared collections in the context of the missions and strategic plans of the Libraries, the campus and the university; allocates and administers the Libraries \$14 million materials budget; and represents the IU Libraries in local, national and international fora. Reporting to the Executive Associate Dean, s/he will join 3 Associate Deans and 1



COPPUL Council of Prairie and Pacific University Libraries

About COPPUL Licenses & Products Members Programs News and Events

Announcing COPPUL Digital Preservation Network Manager

Printer-friendly version

COPPUL is very pleased to announce that Corey Davis from the University of Victoria Libraries has accepted a half-time position as COPPUL's Digital Preservation Network (DPN) Manager. This newly-created, two-year appointment will begin on August 1, 2015. Corey is Systems Librarian at the University of Victoria and will spend half his time with COPPUL and half his time with his present institution. Corey has a strong background in library technology and digital preservation including experience with Archive-it, Archimatica, DSpace and LOCKSS. As COPPUL DPN Manager, he will help to develop a technical and policy infrastructure to support long term preservation of digital objects for all COPPUL members. Corey will work closely with a DPN Management Committee (Todd Mundle, Kwantlen Polytechnic University; John Durno,



Program Officer for Shared Print Initiatives, HathiTrust

How to Apply

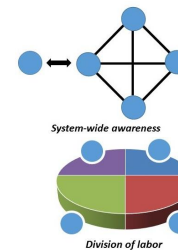
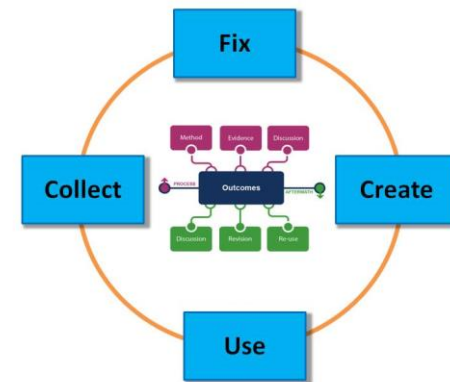
A cover letter is required for consideration for this position and should be attached as the first page of your resume. The cover letter should address your specific interest in the position, include your salary requirements, and outline skills and experience that directly relate to this position.

What is the scholarly record?

A selection of scholarly content ...

... supported by stable configurations of stakeholder roles ...

... sustained through conscious coordination





Thank You!

Brian Lavoie

lavoie@oclc.org

