

Keio Forum | 26 February 2016

**Library Support for Research Information Management**  
*some emerging trends*

**Constance Malpas**  
OCLC Research



こんにちは私の名前はマルパスコンスタンスです



**Constance MALPAS**

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 @ConstanceM

よろしく お願いします

# Today

Perceptions and sources of **library value**

**Research management**  
in context and practice

**Library roles**  
in research information management



Perceptions of **library value**



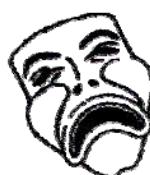
## 2016 Survey of Chief Academic Officers in US Universities

How would you rate the effectiveness of your institution's technology resources and services in the following areas?

	All Institutions by Sector			Public			Private Nonprofit	
	All	Public	Private Nonprofit	Doctoral	Master's/ Bacc.	Assoc.	Doctoral/ Master's	Bacc.
LIBRARY RESOURCES AND SERVICES								
% Very effective	57	58	55	52	66	58	55	54
% Somewhat effective	38	35	40	46	34	34	43	38
% Not too effective	5	6	4	3	0	8	2	8
% Not effective at all	0	0	0	0	0	1	0	0



More than half of Chief Academic Officers think the library is "**very effective**"



43% think the library is not very effective –and **dissatisfaction is greatest at research universities**

**CAO = University Provost, Vice-Chancellor, Vice President for Research etc.**

Source: Inside Higher Ed. 2016 Survey of College and University Chief Academic Officers



## From Curation to Creation

**THEN:** Library value related to **managing collections** to support research , teaching.

**NOW:** Value relates to **support for process and productivity** of research and learning.

The value the **CAO** is looking for is **increased research productivity** and **student success**

Credit: Lorcan Dempsey



### International Rank in Scientific Production (publications)

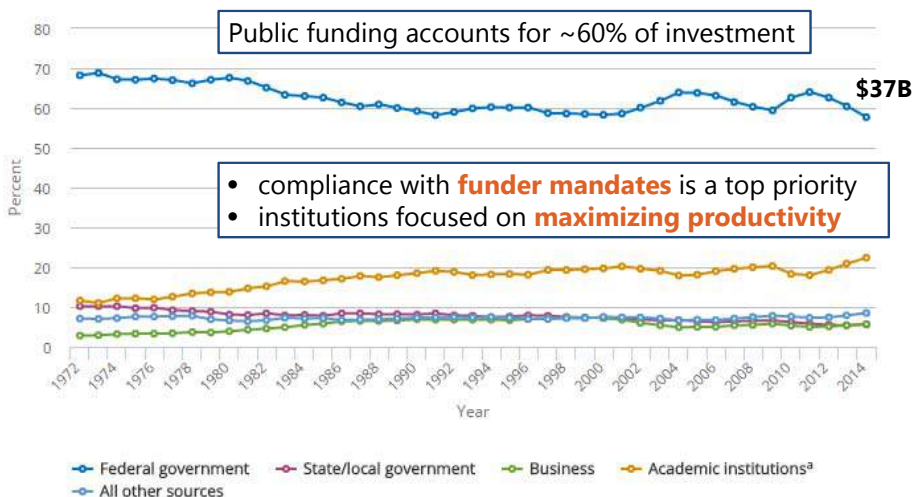
Rank	Country/economy	2003	2013	Average annual change (%)	2013 world total (%)
-	World	1,117,866	2,199,704	7.0	na
1	United States	299,876	412,542	3.2	18.8
2	China	71,113	401,435	18.9	18.2
3	Japan	87,389	103,377	1.7	4.7
4	Germany	67,491	101,074	4.1	4.6
5	United Kingdom				
6	India				
7	France	49,850	72,555	3.8	3.3

Research assessment at international scale drives economic and education policy

Source: National Science Foundation, National Center for Science and Engineering Statistics; SRI International; Science-Metrix; Elsevier, Scopus abstract and citation database ([www.scopus.com](http://www.scopus.com)) NSF Science and Engineering Indicators 2016 (Figure 5-23).



### Sources of R&D Funding at US Universities



SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey. Science and Engineering Indicators 2016



In Japan:

Table 4. **Flows of R&D funds in 2013**

A. R&amp;D funding

Source of funding	Share of total R&D spending	Allocation of R&D spending by sector performing it			
		Government	Universities	Business enterprises	Total
Government <sup>1</sup>	18.1	54.4	40.2	5.4	100.0
Universities	5.9	0.6	99.3	0.1	100.0
Business enterprises	75.5				
Foreign sources	0.5				

... universities account for a smaller part of national R&D activity (13.5%), and are less reliant on performance-based government funding (54.1%)

Sector performing R&D	Share of total R&D performed	Allocation of R&D funding by source				
		Government	Universities	Business enterprises	Total	
Government <sup>1</sup>	10.4	94.5	0.3	4.7	0.5	100.0
Universities	13.5	54.1	43.2	2.6	0.1	100.0
Business enterprises	76.1	1.3	0.0	98.1	0.6	100.0

1. Includes private non-profit institutes.  
Source: OECD R&D Statistics Database.

Source: <http://www.oecd.org/eco/surveys/Japan-2015-overview.pdf>



## Managing institutional assets: stocks and flows

When Adam Smith wrote the Wealth of Nations he laid the foundations of modern economic theory by understanding the flow of money in society. Now we live in a knowledge economy. In an era of public accountability, academic and research institutions must understand and demonstrate, as never before, their knowledge stock, its value and how they achieve returns. The foundation for success is the ability to marshal, interpret and act on the information that tracks the knowledge flow.

Symplectic White Paper: *The Wealth of Institutions*

Source: <http://symplectic.co.uk/products/elements/>





Lorcan Dempsey's Weblog  
*On libraries, services and networks.*

HOME ABOUT THE BLOG ARCHIVES CATEGORIES FEATURES BOOK OF THE BLOG

ANALYTICS AND MEASUREMENT, DIGITAL ASSET MANAGEMENT, FEATURED, LEARNING AND RESEARCH - SYSTEMS AND TECHNOLOGIES, LIBRARIES - ORGANIZATION AND SERVICES, RESEARCH, LEARNING AND SCHOLARLY COMMUNICATION, STANDARDS

## RESEARCH INFORMATION MANAGEMENT SYSTEMS – A NEW SERVICE CATEGORY?

October 26, 2014 dempsey

Tweet Like G+ 4

It has been interesting watching **Research Information Management** or **RIM** emerge as a new service category in the last couple of years. RIM is supported by a particular system category, the Research Information Management System (RIMs), sometimes referred to by an earlier name, the CRIS (Current Research

OCLC Research

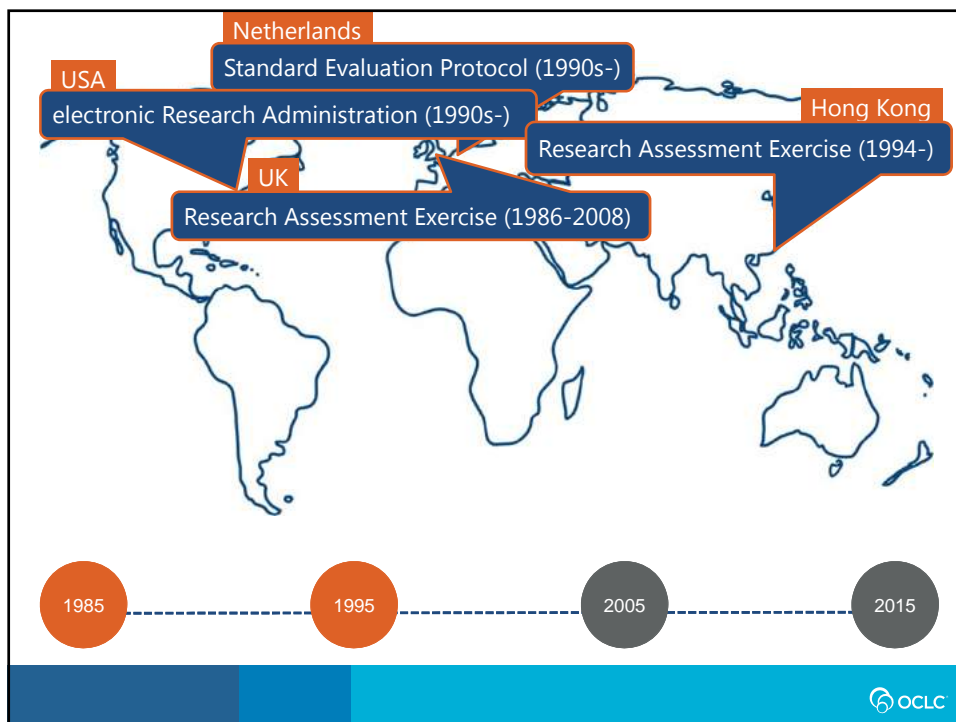
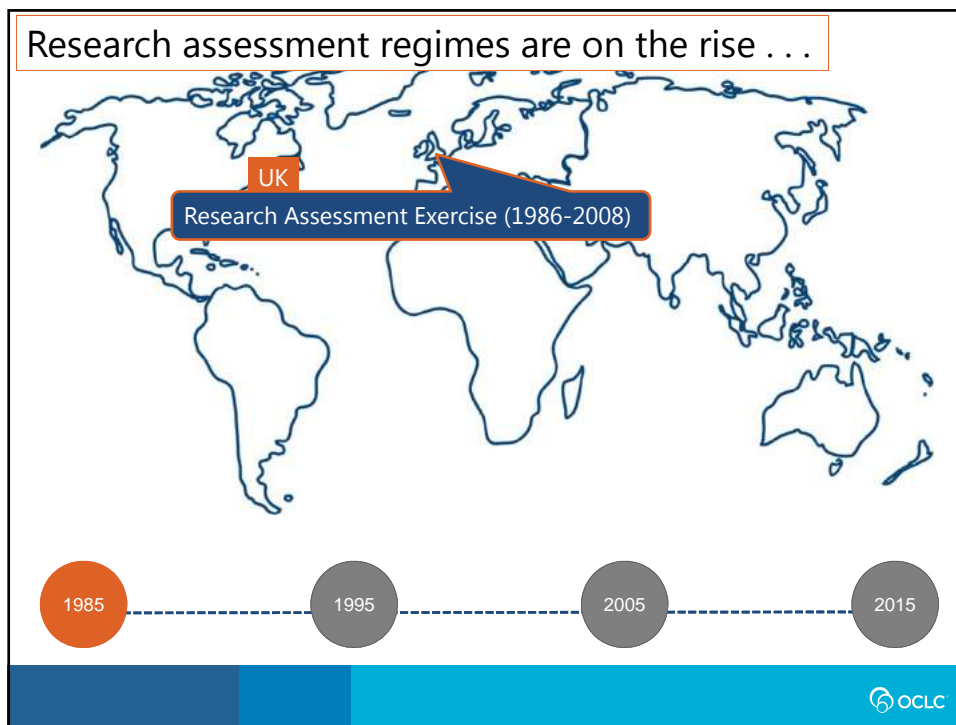
BOOK OF THE BLOG

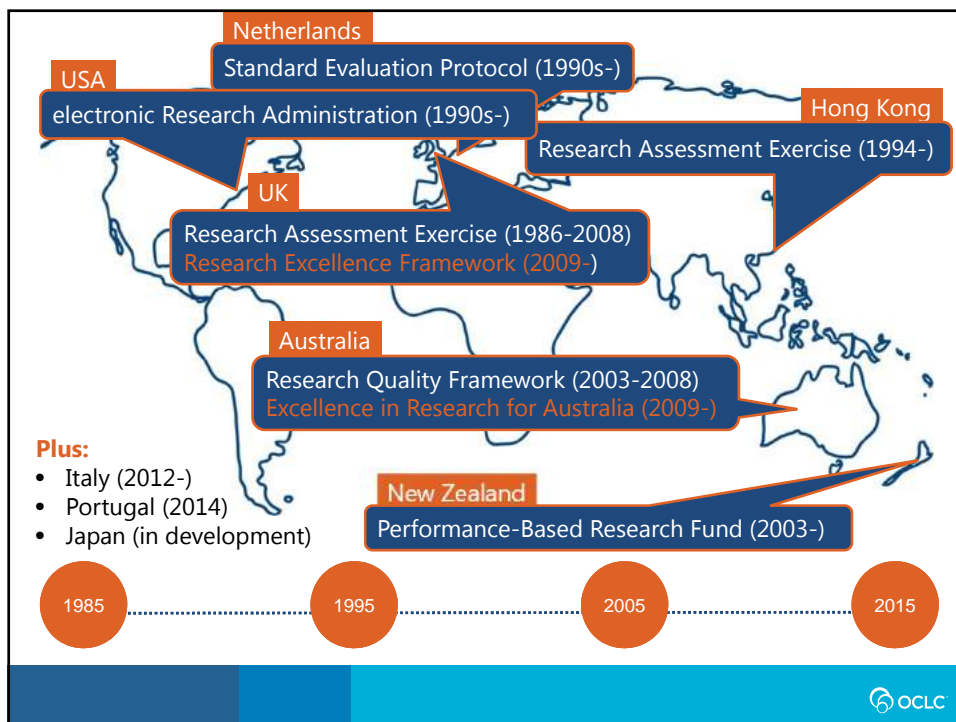
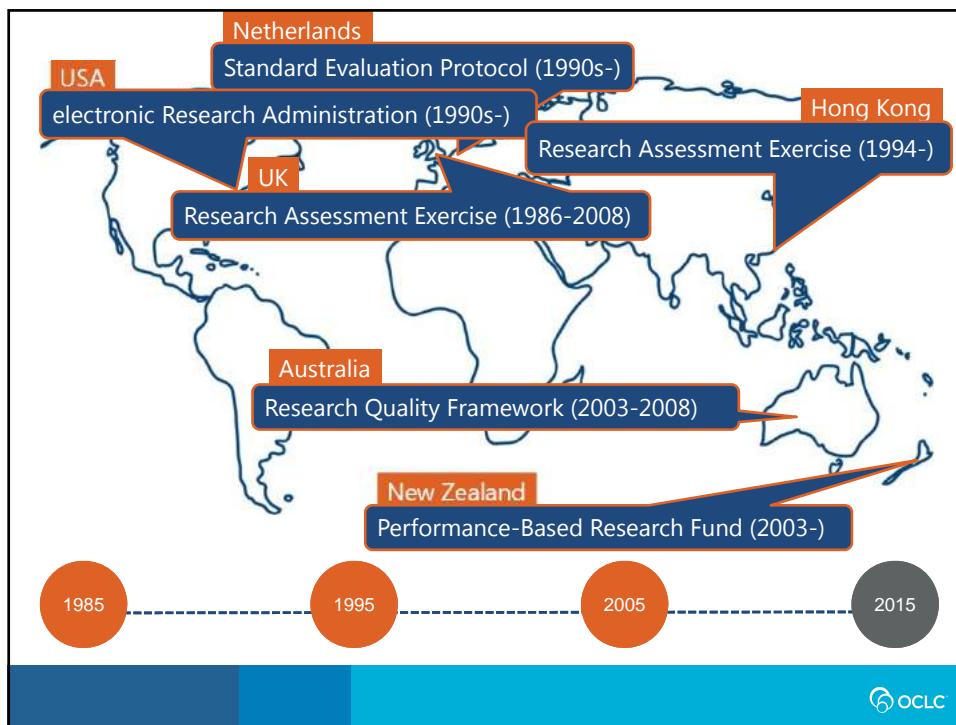
Amazon (US)  
Amazon (UK)  
ALA  
Worldcat

THE NETWORK RESHAPES THE LIBRARY  
LORCAN DEMPSEY  
ON LIBRARIES, SERVICES, AND NETWORKS

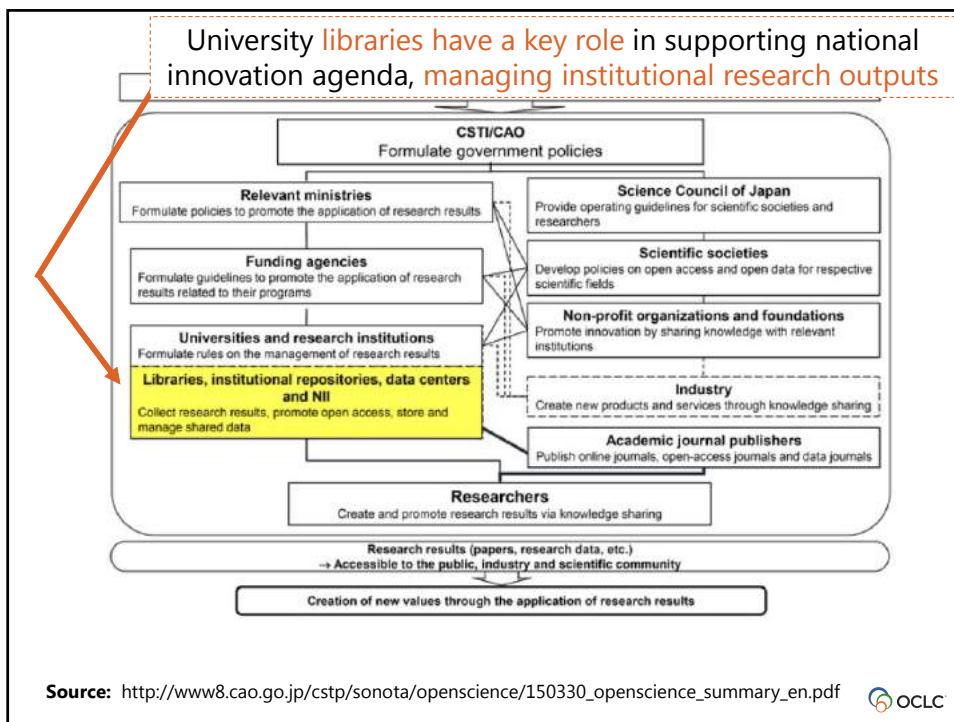
ALSO AT:  
@lorcanD

Source: <http://orweblog.oclc.org/research-information-management-systems-a-new-service-category>









京都大学 学術研究支援室  
Kyoto University Research Administration Office

- 学術研究支援室について
- 支援内容
- 利用者インタビュー
- 実績
- イベント・コラム
- ご相談・お問い合わせ

**最新情報**

イベント情報	2016.02.02	KURA HOUR : 2月15日(月)13:15- 民間助成団体助成金のススメ
活動報告	2016.02.01	EURAXESS Japan 2016 を開催しました
活動報告	2016.01.08	「京大ASEANウィーク2015」を支援しました (2015年12月)
支援案内	2015.12.01	公募情報サイト「総」リニューアル
活動報告	2015.10.09	「京都大学アカデミックデイ2015」を開催しました (2015年10月4日)

Source: <http://www.kura.kyoto-u.ac.jp/>

科研費申請書の教科書

落ちる申請書には理由があった！  
京都大学で採択・不採択になった科研費申請書を体系的に分析すると、明らかな差があることに気付いた。優れた研究でも「伝わらない」申請書は採択されない。審査委員に「伝わる」申請書の書き方を、学術研究支援室が説く！

研究を加速させる支援を。

京都大学 文部科学省

Copyright © 2013-2015 Kyoto University Research Administration Office (KURA). All rights reserved.

Source: <http://www.kura.kyoto-u.ac.jp/>

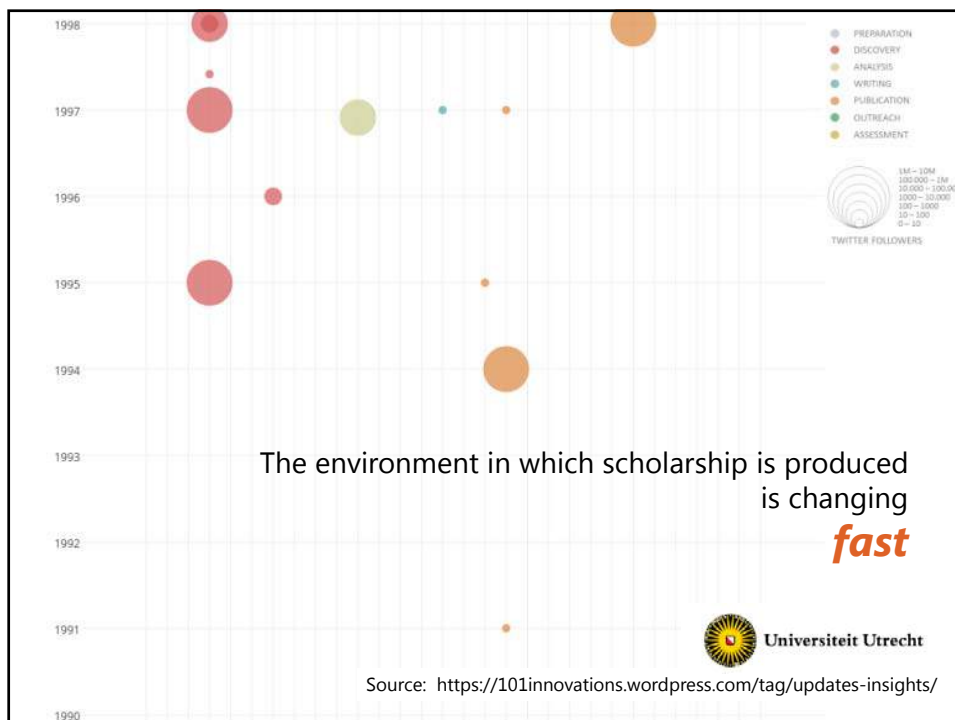
...clearly associates **mandate of KURA** with **institutional** and **researcher priorities**

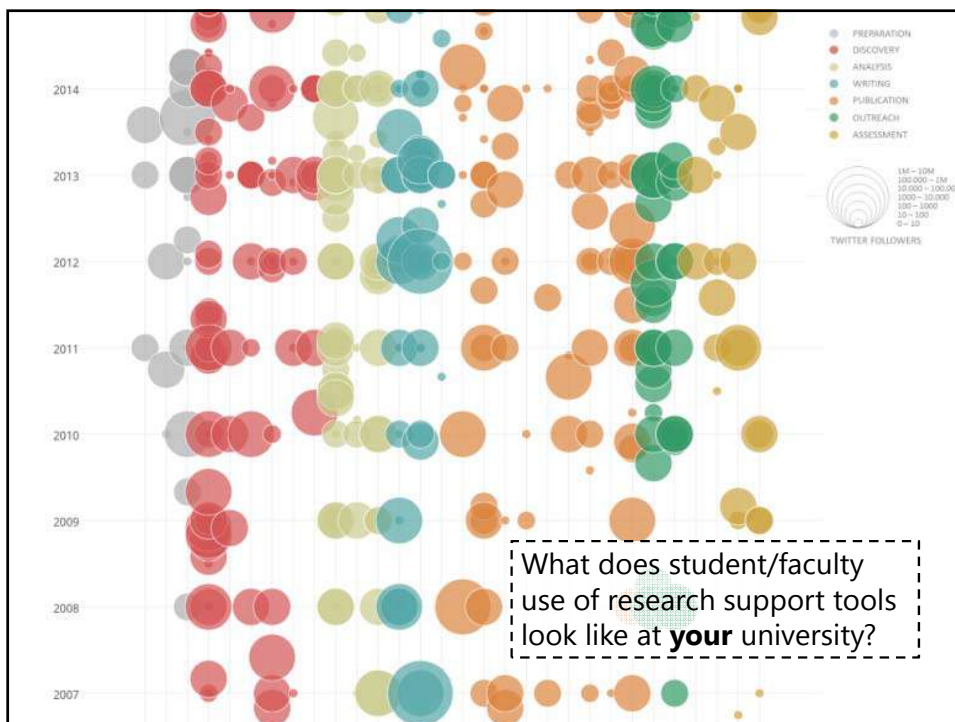
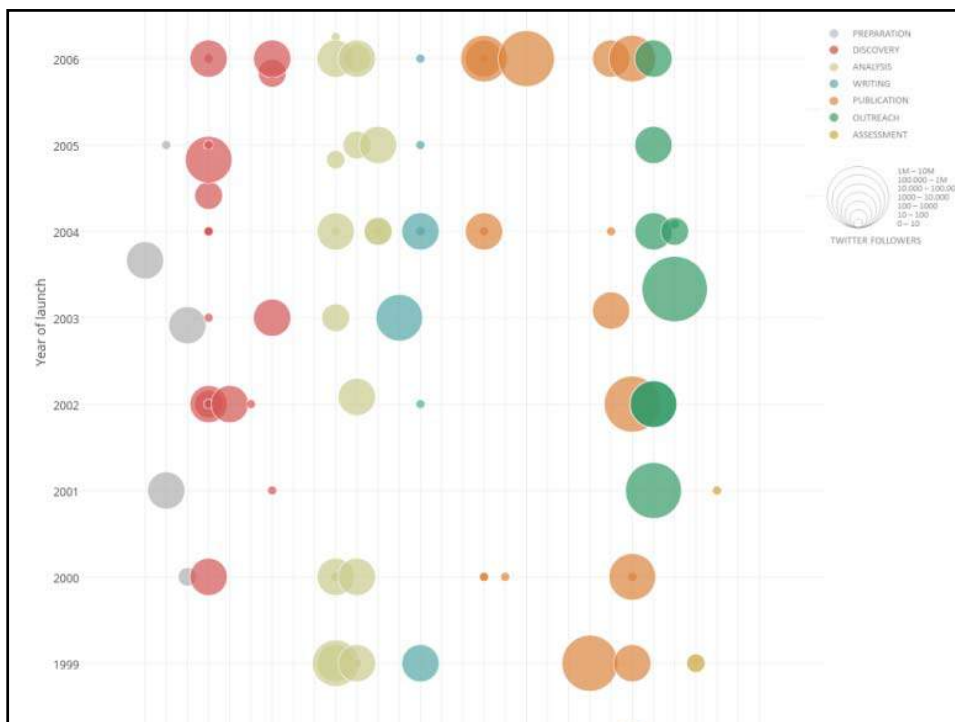
## And libraries? *into the flow*

**THEN:** "We are used to thinking about **the user in the library environment** ... a major part of our challenge moving forward is thinking about **the library in the user environment.**"

L. Dempsey *The Network Reshapes the Library* (2014), Chapter 3.

Library support for research management includes **closer engagement with evolving workflows** of institutional researchers





Keio University  
Tokyo, Japan

Individual and institutional reputation curated externally

19,249.63 Total RG Score  
69,479.59 Total Impact Pts

1,665 Members

DEPARTMENTS

- Graduate School of Media and Governance: 108 Total Impact Points, 59 Members
- Department of Economics: 13 Total Impact Points, 52 Members
- Department of System Design Engineering: 714 Total Impact Points, 49 Members

TOP PUBLICATIONS LAST WEEK

- Call for paper for sustainability science and implementing the sustainable development goals
- Fibroblastic reticular cell-derived lysophosphatidic acid regulates confined intranodal T-cell motility

Source: [https://www.researchgate.net/institution/Keio\\_University](https://www.researchgate.net/institution/Keio_University)

RECENT PUBLICATIONS

- Article: Integrating Heterogeneous Data Sources for Planning Road Reconstruction
- Article: Lesson Learned from Government and Private-sponsored 'Woody Biomass' Project —case Study of Shimokawa and Hita
- Article: EEG-Based Detection of TV Commercials Effects

TOP COLLABORATING INSTITUTIONS

- The University of Tokyo: 380,898 Total Impact Points, 5047 Members
- Kyoto University: 269,851 Total Impact Points, 3903 Members

COLLABORATIONS

Virtual institutional repository?

Collaboration networks

Source: [https://www.researchgate.net/institution/Keio\\_University](https://www.researchgate.net/institution/Keio_University)

Keio University

RIS RESEARCH INFORMATION SYSTEM

Welcome to Keio University

Explore profiles, expertise and research at Keio University

Substantially better coverage than Research Gate

... but fewer profiles

1235 Experts

174 Research Units

48816 Research Output

Welcome!

In an effort to synergize inter-disciplinary clinical and translational research, Keio University is committed to using innovative research tools and information technologies to promote collaboration regardless of organizational affiliation or position within the bench-to-bedside-to-population spectrum of science. This expertise portal is a key component of Keio University mission to catalyze the application of new knowledge and techniques to clinical practice at the front lines of patient care.

Other PURE implementations:  
Kumamoto University  
Waseda University  
Yokohama National University

Source: <https://keio.pure.elsevier.com/>

OCLC

ACADEMIA

Search...

HOME ANALYTICS SESSIONS UPLOAD

Keio University

<http://www.kbs.keio.ac.jp/english/index.html>

EDIT REPORT

110 Departments

A

Accounting, Economics and Finance 1 person | hide

Anthropology 1 person | hide

Archaeology 6 people | 2 documents | hide

Keio Business School

BIJ.TV Business in Japan TV "MBAs & Business Training"

KBS represents only a part of Keio University

Metadata matters! managing **organizational identity** is critical to **institutional visibility** on the web

Source: <https://keio.academia.edu/>

OCLC

The screenshot shows the 'researchmap' website interface. The main content area displays a list of researchers under the affiliation 'Keio University'. Four researcher profiles are visible: 北島 政樹 (Masaki Kitajima), 天谷 雅行 (Masayuki Amagai), 末岡 浩 (Hiroyuki Sueoka), and 鈴木 秀和 (Shuwa Suzuki). A red dashed box highlights the total number of researchers: 総件数: 4213件.

Nationally-provisioned research networking platform with nearly 250,000 members

Source: <http://researchmap.jp/>

### A fragmented view of research activity

	ELSEVIER Pure	ACADEMIA .edu	R <sup>G</sup>	KOARA JAIRØ	researchmap
<b>Researchers</b>	1,235	684	1,645	?	4,214
<b>Departments</b>	174	110	?	?	?
<b>Publications</b>	48,816	<1000	25,393	50,676	?

↑ Institutional performance
↔ Professional reputation
↑ National visibility

Library can help address gaps by managing IR/CRIS boundary, assisting with author identifiers etc.

# Library roles in research information management



## Library Roles in Research Information Management

University: manage **knowledge 'stocks and flows'**  
to maximize **institutional success**

Researcher: support for **evolving workflows**,  
personal **reputation management**

**Library** supports both through

- Managing boundary of **institutional repository and CRIS**
- Managing **institutional metadata** for discovery & impact
- Closer **engagement with research process**, e.g. RDM





## University Libraries and 'New Knowledge Work'

- Manage **author, object and organizational identifiers** for the semantic web
- Manage in- and outbound **metadata flows** to maximize visibility of institutional output
- Manage **researcher activity data** to inform institutional research assessment
- Maximize **visibility and impact of institutional research** in social networks
- Advance role of the **library as publisher**

Source: Arlitsch et al. "Demonstrating Library Value at Network Scale" (2014)



## Evolving Scholarly Record: implications for libraries



Framework for understanding the changing nature of scientific and scholarly publications: **workflow is the new content**

<http://oc.lc/esr>



Exploration of **how library stewardship will change** as scholarly practices evolve: greater reliance on **conscious coordination**

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



## Metadata Management: emerging library roles



Overview of **researcher identifier landscape** with functional requirements and **recommendations** for providing authoritative researcher identifiers

[oclc/researcherids](https://oclc.org/researcherids)



Examines use cases, functional requirements and recommendations for managers of **organizational identifiers**

coming soon



search on figshare

## EVOLVING SCHOLARLY RECORD

kyoto university

Individual and institutional **research assets** managed externally

sort NEW

<p><b>COLLECTION</b></p> <p>Collection: Cumulative incidence of surgical site infection after living d... Masaki Yamamoto ▾</p>	<p><b>DATASET</b></p> <p>Multivariate analysis of risk factors for SSite in 128 adult living donor liv... Masaki Yamamoto ▾ 02/12/2015</p>	<p><b>DATASET</b></p> <p>Multivariate analysis of risk factors for SSite in 72 pediatric living donor... Masaki Yamamoto ▾ 02/12/2015</p>	<p>Cumulative incidence of surgical site infection after living donor liver tra... Masaki Yamamoto ▾ 02/12/2015</p>
<p>Vestibular Profiles of Upper (Left) and Lower (Right) Pierpapa Perma... Maczyslaw Wiklan ▾ 02/12/2015</p>	<p><b>DATASET</b></p> <p>List of samples examined in this study and the accession numbers... Yuko F. Kitano ▾ 02/12/2015</p>	<p><b>DATASET</b></p> <p>Convex hull specimen list and source of body mask... Charlotte A. Brassey ▾ 02/12/2015</p>	<p>Thin section and quick-freeze deep etch images of chattrin coated veal... Jacobine Krijnen Louker ▾ 02/12/2015</p>
<p>Data caught by spiders. A - 02/12/2015</p>	<p>Role of IL13RA2 in Sumitrib Resistance in Clear Cell Renal Cell... 02/12/2015</p>	<p>Identifiers.org: Integration tool for heterogeneous datasets</p>	<p>Occasional Paper #25 - Desafios de los negocios amazonicos y oportu...</p>

Source: <https://figshare.com/search?q=kyoto+university>



figshare search on figshare EVOLVING SCHOLARLY RECORD

Q kyoto university

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sort NEW

Collection: Cumulative incidence of surgical site infection after living d... Masaki Yamamoto

Multivariate analysis of risk factors for SSI in 129 adult living donor liv... Masaki Yamamoto 02/12/2015

Multivariate analysis of risk factors for SSI in 72 pediatric living donor... Masaki Yamamoto 02/12/2015

Vestibular Profiles of Upper (Left) and Lower (Right) Piniped Perma... Mieczyslaw Wiktor 02/12/2015

List of samples examined in this study and the accession numbers... Yuko F. Kitano 02/12/2015

Convex hull specimen list and sources of body mass. Charlotte A. Brassey 02/12/2015

Source: <https://figshare.com/search?q=kyoto+university>

Range of scientific publication types / units is expanding:  
Documents plus...  
Data  
Figures  
Images  
Posters/presentations  
Collections of things

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- Figures
- Images
- Posters/presentations
- Collections of things

Source: <https://figshare.com/search?q=kyoto+university>

OCLC

researchmap METADATA MANAGEMENT

鈴木 正崇

研究者ID: 10126279

研究キーワード

研究分野

経歴

Source: <http://researchmap.jp/read0024784>



METADATA MANAGEMENT

[Jump To: Overview](#) | [Publication Timeline](#) | [Works About](#) | [Works By](#) | [Audience Level](#) | [Related Identities](#) | [Useful Links](#) | [Fast Headings](#)

## 鈴木正崇 1949-

### Overview

- Works:** 48 works in 89 publications in 1 language and 370 library holdings
- Genres:** History Conference papers and proceedings
- Roles:** Author, Editor
- Classifications:** HQ1762, 950.4

### Publication Timeline



Suzuki-sensei has a **prominent 'footprint'** in the global scholarly record

### Most widely held works by 鈴木正崇

**Nyonin kinsei** by Masataka Suzuki (Book)  
3 editions published in 2002 in Japanese and held by 44 libraries worldwide

### Related Identities

- 吉原和馬 1949-
- 金丸良子 1951-
- 宮家幸 1933-
- 末成道馬 1938-
- 野村伸一 1949-
- 飯田白二 1938-


#### Alternative Names

Masataka Suzuki  
Suzuki, Masataka 1949-  
スズキ, マサタカ 1949-  
鈴木, 正崇 1949-...  
鈴木正崇  
鈴木正崇 1949-

#### Languages

Japanese (35)

Source: <http://www.worldcat.org/wcidentities/lccn-n85355188>



科学研究費助成事業データベース  
 <前のページに戻る>

METADATA MANAGEMENT

**鈴木正崇**  
スズキ マサタカ Suzuki, Masataka  
 研究番号: 10126279  
 研究種別/リポジトリID: 1000010126279

**所属**

2004年度～2014年度: 慶應義塾大学 / 文学部 / 教授  
 2001年度: 慶應義塾大学 / 文学部 / 教授  
 1998年度～1999年度: 慶應義塾大学 / 文学部 / 教授  
 1999年度～1991年度: 慶應義塾大学 / 文学部 / 助教授  
 1990年度: 慶應義塾大学 / 文学部 / 講師

**研究課題の研究分野**

【前期】宗教学 文化人類学 文化人類学(含民族学・民俗学)  
【後期】美学・芸術史 建築史・書誌

**研究課題のキーワード**

【前期】民間宗教 習礼 文化人類学 民俗学 宗教学 文化的景観 文化遺産 道の宗教性 神聖 観光 記憶 空間の表象 御祭道 道流 歴史道文化

**研究課題**

CSVで出力

- 民間宗教が生産する景観の歴史道文化に関する研究**  
鈴木正崇  
 研究期間: 2012年4月1日～2015年3月31日(予定)  
 研究分野: 宗教学 民俗学 研究種目: 基礎研究(B) 研究機関: 慶應義塾大学
- ファンズムと宗教文化に関する地域・時代比較的综合研究**  
高澤 英隆 FUKASAWA, Hidetaka  
 研究期間: 2011年4月1日～2014年3月31日(予定)  
 研究分野: 宗教学 研究種目: 基礎研究(B) 研究機関: 一橋大学
- 世界神話の二元構造の研究―善悪・生死・型類**  
藤田 知和基 SHINODA, Chieki  
 研究期間: 2009年4月1日～2014年3月31日(予定)  
 研究分野: 宗教学 研究種目: 基礎研究(A) 研究機関: 広島市立大学
- 道の宗教性と文化的景観**  
鈴木正崇 SUZUKI, Masataka

Source: <https://kaken.nii.ac.jp/d/r/10126279.ja.html>

Suzuki-sensei is **'well identified'** in Japanese research information infrastructure

23

Search

ORCID  
Connecting Researchers and Researchers

FOR RESEARCHERS FOR ORGANIZATIONS ABOUT HELP SIGN IN

SIGN IN REGISTER FOR AN ORCID ID LEARN MORE

1,937,345 ORCID iDs and counting. See more...

Search results

ORCID iD	First name	Last name	Other names
0000-0003-2924-5098	Masataka	Suzuki	Economist at Yokohama NU
0000-0002-7008-2879	Masataka	Suzuki	Unclaimed profile
0000-0002-8082-2148	Masataka	HAKAMADA	
0000-0002-7384-4429	Masataka	Oda	
0000-0002-4327-5771	Masataka		
0000-0002-6025-7356	Masataka		
0000-0002-0394-2381	Masataka		
0000-0001-5916-1202	Masataka	KURBE	
0000-0001-7999-8050	Nobuo	Masataka	
0000-0003-4552-4185	Masataka	Matsumoto	

.. but (as yet) his local identifiers have not been linked to a global identifier.

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Carnegie Mellon University Libraries

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Home / ORCID @ CMU

## ORCID @ CMU

The University Libraries is leading a university-wide campaign urging faculty, graduate students and researchers to obtain an Open Researcher and Contributor ID (ORCID®) and, when they have one, link it to their Andrew ID.

Yes, there's an app for that. [orcid library 2015 03 10](#)

Increasingly, reputations and careers are built on your body of work. Fundraising, research and potential collaborations, from benchmarking and...

**A library-led initiative to register university researchers with ORCID, link institutional ID to global ID**

"An ORCID ID uniquely identifies you throughout your career," said Scholarly Communications Librarian Denise Troil Covey. "It distinguishes you from other researchers with the same or similar names, and identifies you with all the name variations by which you may be known."

Covey said it also allows researchers to bring together their works and data associated with other institutions and identity systems. "You can maintain all your important contributions in one place, including citations and links to publications, datasets and software," she said.

At CMU, campus systems will strategically harvest ORCID IDs from the identity management system. For example, the Sponsored Programs and Research Compliance System will use the IDs to facilitate communication with research sponsors.

See [ORCID @ CMU](#) for complete info and details.

News category: Data & Publishing

Source: <http://www.library.cmu.edu/orcidkickoffmar2015>

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**RNR to ORCID 連携ウェブアプリケーション**

ORCID ID (<http://orcid.org/>)と研究者リゾルバーIDを対応付けし、スタートボタンを押すと対応付け作業を開始します。最初に、本ウェブアプリケーションがあなたのORCIDページへアクセスできるよう、ORCIDサイトのアクセス許可ダイアログが表示されます。ORCIDサイトにサインイン（ログイン）していないときは、サインインの後アクセス許可ダイアログが表示されます。

スタート

**A national-scale initiative to disambiguate researcher identities**

**研究者リゾルバーについて**

- 研究者リゾルバーとは?
- 研究者ページに表示されるものは?
- 初期のリリースノート at 13 May 2008

**ウェブサービス**

- OpenSearchによるデータベース検索
- Linked Dataのための研究者URIとコンテンツ各ごシエーション連携
- ダイレクトリンクのためのURLリダイレクトサービス
- 研究者IDマッピングテーブル検索

**本サービス**

- 国立情報
- 学術コン
- 研究者リ
- nr 印刷

**Kakenhi ID**  
**researchmap ID**

**National identifiers**

**RNR ID** ↔ **ORCID**

**Global identifiers**

**ResearcherID**  
**SCOPUS Author ID**

Source: <http://rns.nii.ac.jp/callback/orcid/>

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## Summary

- There is a clear trend toward **more systematic assessment of university research performance** and productivity
- Organizations and institutions with **'well-controlled' metadata** about authors and outputs will **manage better**
- Libraries can play a vital role in research and reputation management:
  - Metadata expertise and **'new knowledge work'**
  - **Stewardship** mandate (Collections + faculty outputs)
  - Deepening engagement in **research process**

## Opportunities?

### National scale:

- Extend **identifier resolution** for authors and organizations
- leverage **'system-wide' view** of Japanese research outputs in JAIRO

### Institution scale:

- increase linkages between **library and research administration** for improved **entity/asset management**
- educate CRIS/profiling vendors about **metadata sources** to represent full range of institutional research output
- elevate **faculty awareness** about online reputation management, research data management (RDM) etc.



ご清聴ありがとうございました

Thank you for your kind attention.

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Together we make breakthroughs possible.



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