Sara Mannheimer, Daniel Bangert, Heather Coates

# Libraries collaborating to advance open initiatives
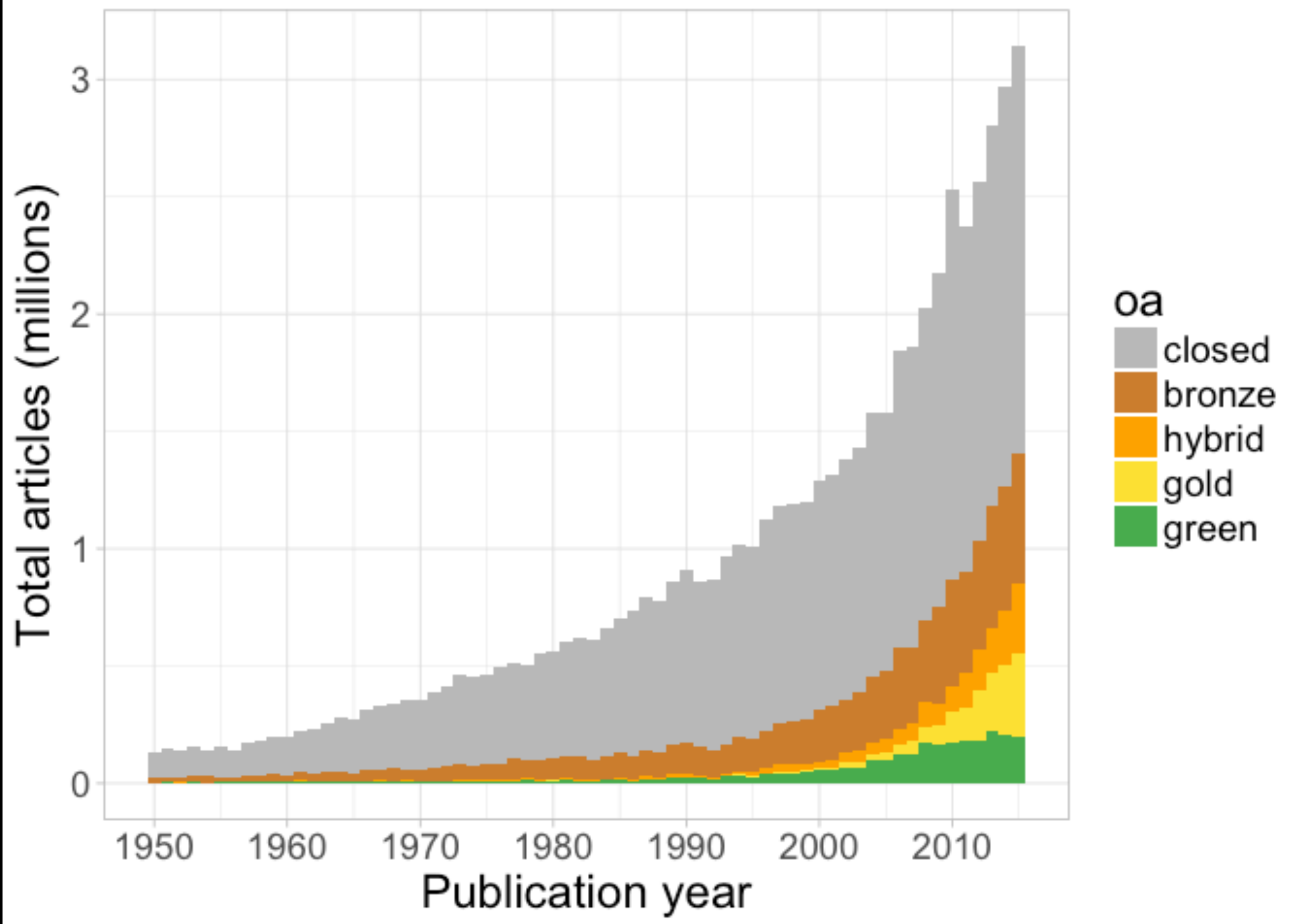
Heather Piwowar

Violeta Ilik

Vicky Steeves

Edit Görögh

Simone Sacchi

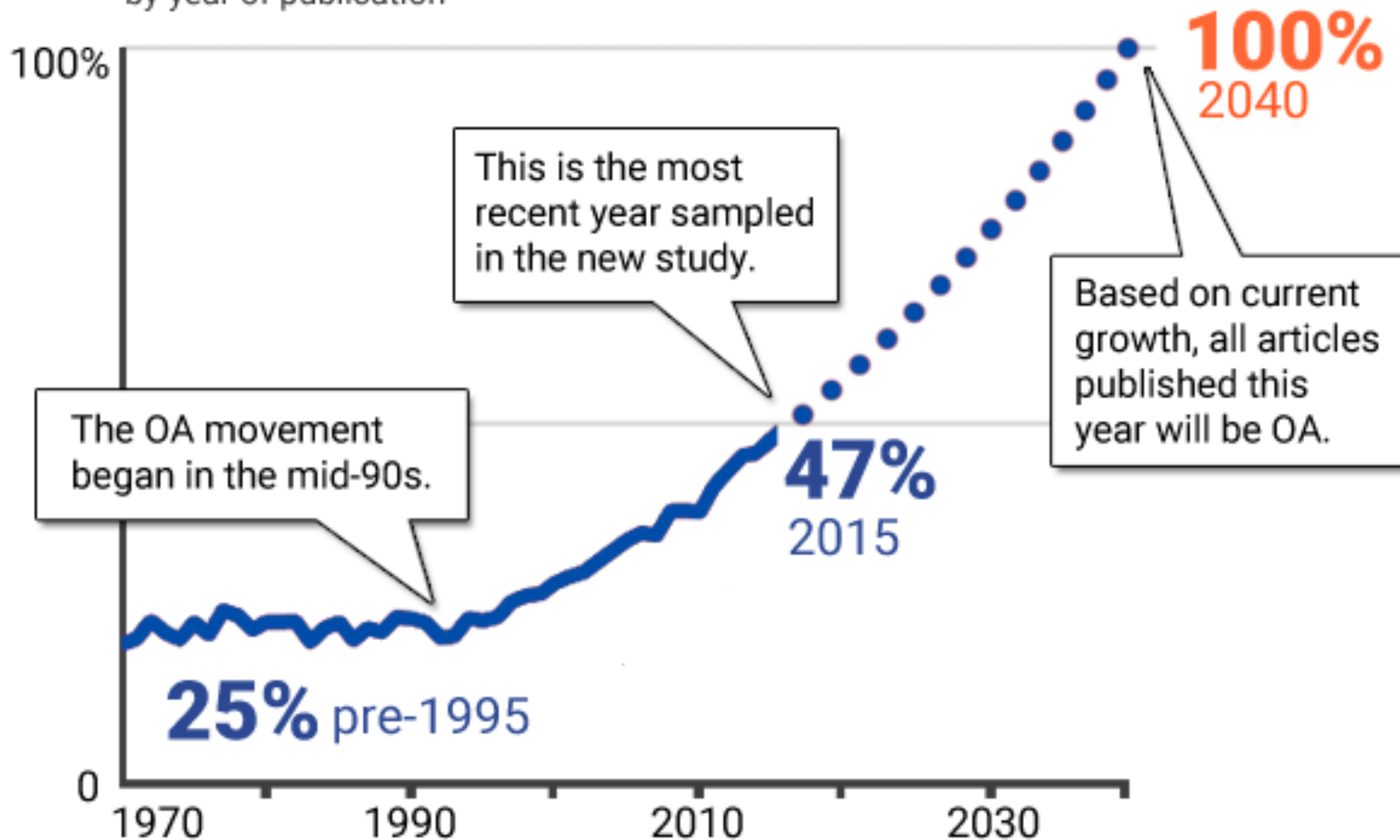Laurent Romary

# oaDOI+Unpaywall and libraries :)

Heather Piwowar

OA Week 2017, FORCE17

@impactstory

# Impactstory

# We make tools to power the Open Science revolution.

Impactstory is a nonprofit obsessed with making scholarly research more open, accessible, and reusable. We create and support free services including Unpaywall, oaDOI, Impactstory Profiles, and Depsy.

✉ Email    🐦 Twitter    ◯ GitHub

# Crossref

Search the metadata
of 92,193,140 journal articles, books,
standards, datasets & more

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```

- improved access
- IR discoverability and filling
- journal negotiations

- improved access
- IR discoverability and filling
- journal negotiations

# How to enable oaDOI service on SFX

- **Product:** SFX

## Description

Via SFX you can make use of the oaDOI.org service.
This service has the potential to direct users to a free copy of an article that may otherwise be hidden, especially if it is an individual article in an institutional rep
By using the oaDOI API, SFX checks if such a free copy is available and obtains the appropriate link to it.
The oaDOI service is provided by the ImpactStory team (https://impactstory.org/).

## To enable the oaDOI service on your SFX

1. Activate the oaDOI target and its service on the target list on SFXAdmin

2. Optional:

- Set a rule to only show the service if there is no other full text available.
  There is currently a rule (display logic) set to only show the service if there is no full text from publishers (non-aggregators) available.
  We strongly recommend to change this rule to only show the service if there is no full text at all available (not just aggregators).
  To do this:

600 libraries,
   including BL, UC, many more
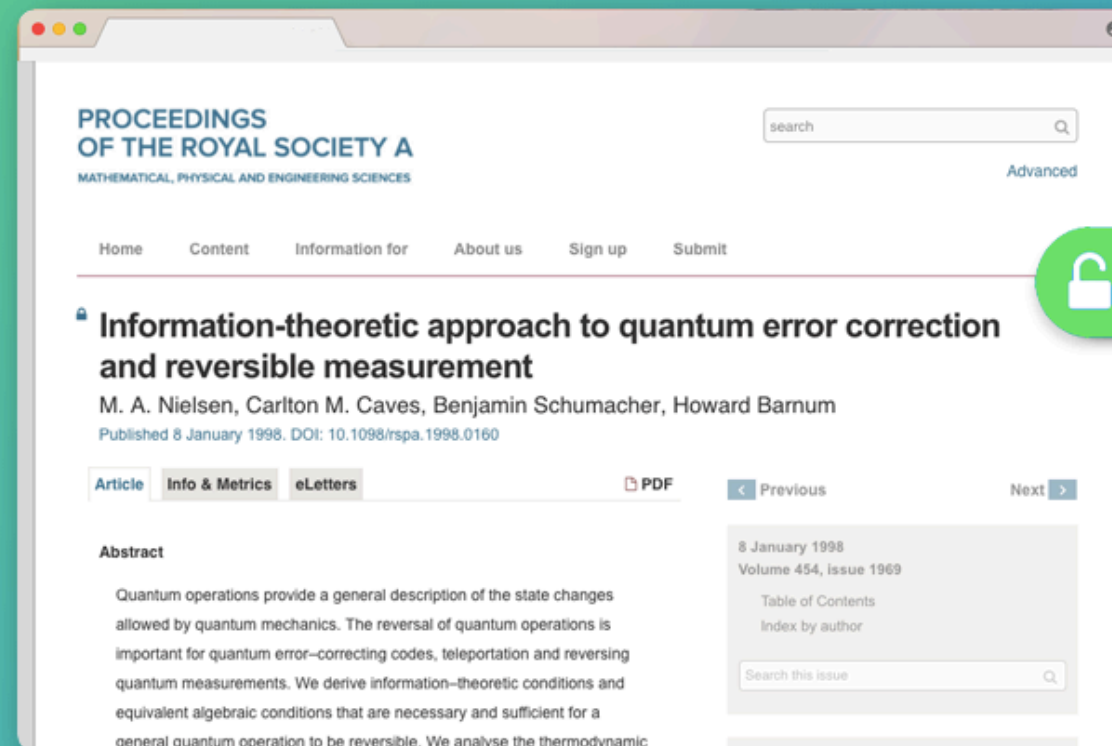a million calls a day
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MATHEMATICAL, PHYSICAL AND ENGINEERING SCIENCES

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### Information-theoretic approach to quantum error correction and reversible measurement

M. A. Nielsen, Carlton M. Caves, Benjamin Schumacher, Howard Barnum

Published 8 January 1998. DOI: 10.1098/rspa.1998.0160

Article    Info & Metrics    eLetters    📄 PDF    ◄ Previous    Next ►

**Abstract**

Quantum operations provide a general description of the state changes allowed by quantum mechanics. The reversal of quantum operations is important for quantum error–correcting codes, teleportation and reversing quantum measurements. We derive information–theoretic conditions and equivalent algebraic conditions that are necessary and sufficient for a general quantum operation to be reversible. We analyse the thermodynamic

8 January 1998
Volume 454, issue 1969

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- improved access
- IR discoverability and filling
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10.1111/bcp.12680,t,1,http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4594707,repository,publishedVersion,,oa repository (via pmcid lookup),"Evaluation of the QT effect of a combi
of piperaquine and a novel anti-malarial drug candidate OZ439, for the treatment of uncomplicated malaria",,Br J Clin Pharmacol,f,Wiley-Blackwell,2017-08-16 01:38:55.79574
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# BASE
Bielefeld Academic Search Engine

*MORE THAN 5000 SOURCES!*

## Your search

| | Entire Document |

☑ Boost open access documents

**Find**

○ Verbatim search
● Additional word forms
○ Multilingual synonyms (Eurovoc Thesaurus)

Currently in BASE: 116,682,759 documents of 5,877 content sources

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© 2004-2017 by Bielefeld University Library
Search powered by Solr & VuFind.

**Suggest Source**
**BASE Interfaces**

# *Open*DOAR

## Search or Browse for Repositories

| | | |
|---|---|---|
| Any Subject Area | Articles (2453) | Any Repository Type |
| Any Country | Any Language | Any Software | Search |
| Summaries | 20 per page. | Sort by: OAI Base URL (desc.) | New Query |

To search the *contents* of the repositories listed in *OpenDOAR*, please see our Content Search page.

Results **1 - 20** of **2453**. 🔊 RSS1 Feed for this Query          Page: << Previous **1** 2 3 4 5 6 7 8 9 10 **Next >>**

## OAR@UoM

**Organisation:** University of Malta, Malta

**Description:** This site provides access to the research output of the institution and the national intellectual output and heritage of Malta. Users may set up Atom and RSS feeds to be alerted to new content. The interface is available in English. Some content is not available as full-text.

**OAI-PMH:** https://www.um.edu.mt/library/oar/oai/openaire

**Software:** DSpace

**Size:** 19430 items (2017-10-19)

- improved access
- IR discoverability and filling
- journal negotiations

[rick anderson writes about it](#).

# The Forbidden Forecast: Thinking About Open Access and Library Subscriptions

*By* **RICK ANDERSON** | FEB 21, 2017

**62 COMMENTS**

BIG DEAL | BUSINESS MODELS | COMMERCE | CONTROVERSIAL TOPICS | OPEN ACCESS | WORLD OF TOMORROW

# Leveraging the Growth of Open Access in Library Collection Decision Making

*Kristin Antelman**

A primary goal for collection management is assessing the relative value of continuing information resources. A variety of new environmental factors and data are pertinent to relative value. One of the emerging metrics is the degree to which the articles within a subscription journal are also available open access (OA). That OA level directly affects the value of a journal subscription. This paper outlines a theoretical model for accounting for open access in decision making by proposing an Open Access-adjusted Cost per Download metric. Refinements to the metric are also discussed, as well as how it can be applied, and the broader scholarly communication implications of leveraging open access in library decision making.

# Université de Montréal | *les bibliothèques*

🏠 | CATALOGUE *ATRIUM* ⌄ | RESSOURCES ÉLECTRONIQUES ⌄ | FORMATION ⌄ | OBTENIR UN DOCUMENT ⌄ | HORAIRES | NOUS JOINDRE

## À propos des Bibliothèques

**À propos des** ⊞
**bibliothèques**

**Modalités de prêt**

**Horaires**

**Nous joindre** ⊞

**Services spécialisés** ⊞

**Quoi de neuf** ⊟

Année courante

**Archives** ⊞

**À votre écoute** ⊞
**(consultations)**

**Faire un don**

**Offres d'emploi**

## Communiqué

**Bibliothèques**

Version française

### UdeM Libraries cancel Big Deal subscription to 2,231 periodical titles published by *Taylor & Francis Group*

**May 4ᵗʰ 2017** — Following negotiations with *Taylor & Francis Group*, Université de Montréal Libraries have been forced to unbundle the "Big Deal" periodicals package with the publisher, as its usefulness is not worth the approximately US $500,000 per year demanded to

# Quick facts

‣ UdeM Libraries will renew access to 160 periodicals out of the 2,391 in the *Taylor & Francis* "Big Deal" package. The price UdeM Libraries will be paying for these individual subscriptions in 2017 corresponds to the amount it was prepared to pay for the complete package.

‣ Pre-2017 issues of 404 titles will remain accessible.

‣ The subscriptions being retained represent 30% of what the UdeM community used from the entire package in 2015.

‣ Statistics show that a large number of *Taylor & Francis* titles are hardly or never used (248 titles unused in 2015; 1,103 titles used fewer than 20 times in 2015).

‣ The per-view/per-printing costs of articles further confirm that the price UdeM was asked to pay for this Big Deal is unjustifiable: *Taylor & Francis* articles cost twice as much as those of Elsevier.

‣ Journal articles may be ordered by members of the UdeM community at no cost through the UdeM inter-library loan service. Delivery is via e-mail within five working days.

‣ Several articles from the cancelled *Taylor & Francis* journals are available in OA repositories or through initiatives such as Unpaywall.org

‣ Members of the UdeM community can express their disapproval of *Taylor & Francis* pricing policy, by refusing to review articles, or by supporting the open access distribution model.
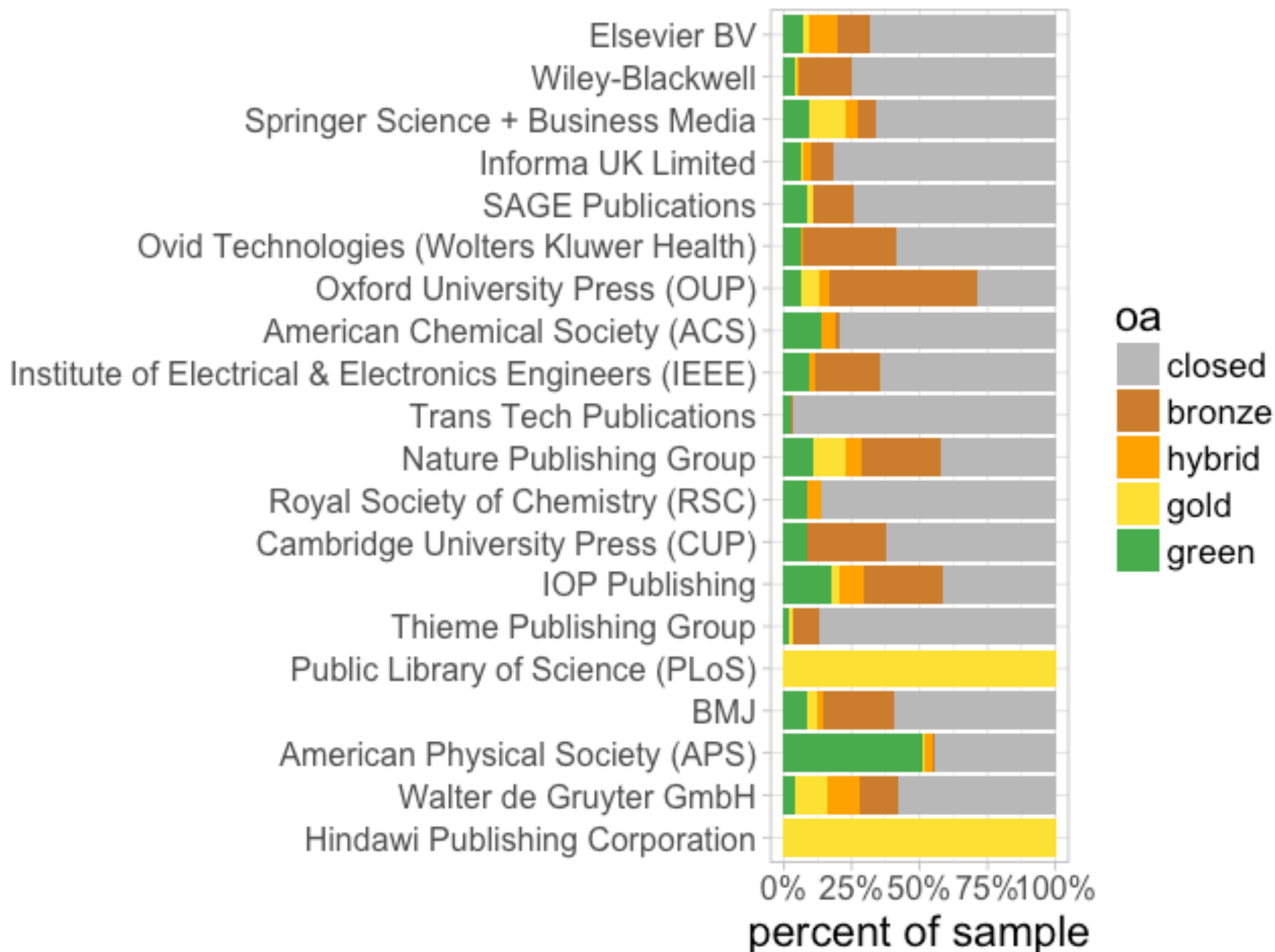
- future: OA stats by journal
- future: dashboards
- future: would love to talk!

oadoi + libraries

- improved access
- IR discoverability and filling
- journal negotiations

# thank you!

Thanks to the open science community, and those who release their articles, datasets and photos openly.

**Impactstory**

# Real Time Information Channel

Violeta Ilik
Stony Brook University, NY

# Thinking out loud

To solve the identity management issue in the scholarly communication landscape, libraries, publishers, vendors, identity providers need to build a shared information sharing pipeline built on open standards

Feature: real time data exchange

**azra** 🕊️ ☮️
@azraiekv

like the one airlines use - GDS
en.wikipedia.org/wiki/Global_di ... where
everything is updated automatically. It
shouldn't be hard. Any takers? #LOD
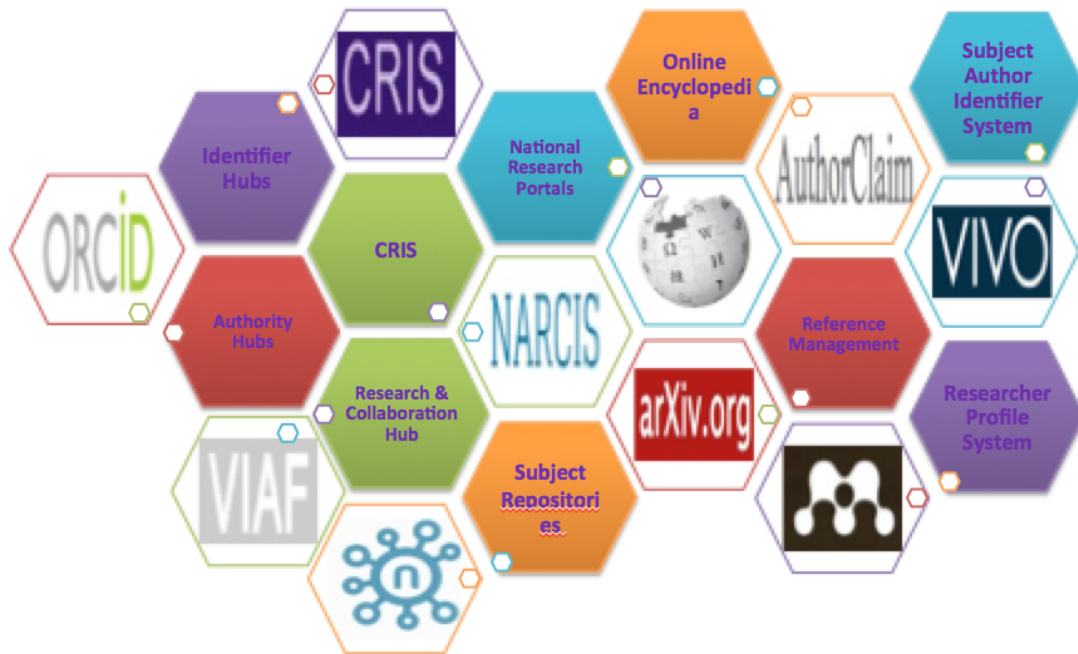
11:46 AM - 22 Aug 2017

FORCE
2017

# Libraries manage and use identity information and are ready to work with you

## What does identity management look like in a linked data environment?

Summary

- Libraries will use more data sources than the LC NAF
- Libraries will create data in places other than the LC NAF
- Libraries will need to accept data quality outside the control of library standards
  - Granularity of this data may vary
- Data delivery systems will need to utilize identifiers rather than unique strings for entity matching in data quality control. This will make contextual information about the entity very important to accurately identify entities
- Changes in one platform will initiate changes in other platforms that reference an entity's identifier

**Library of Congress: PCC Task Group on Identity Management in NACO**

FORCE 2017

# Institutions/applications that manage and use identity information

# Real Time Information Channel



Stakeholder : Libraries

Stakeholder : Publishers

Stakeholder : Vendors

Stakeholder : Identity Providers

Stakeholder : OCLC

Global Distribution System for authors' information exchange

Agent - including the above stakeholders

Violeta Ilik
https://creativecommons.org/licenses/by/4.0/

FORCE 2017
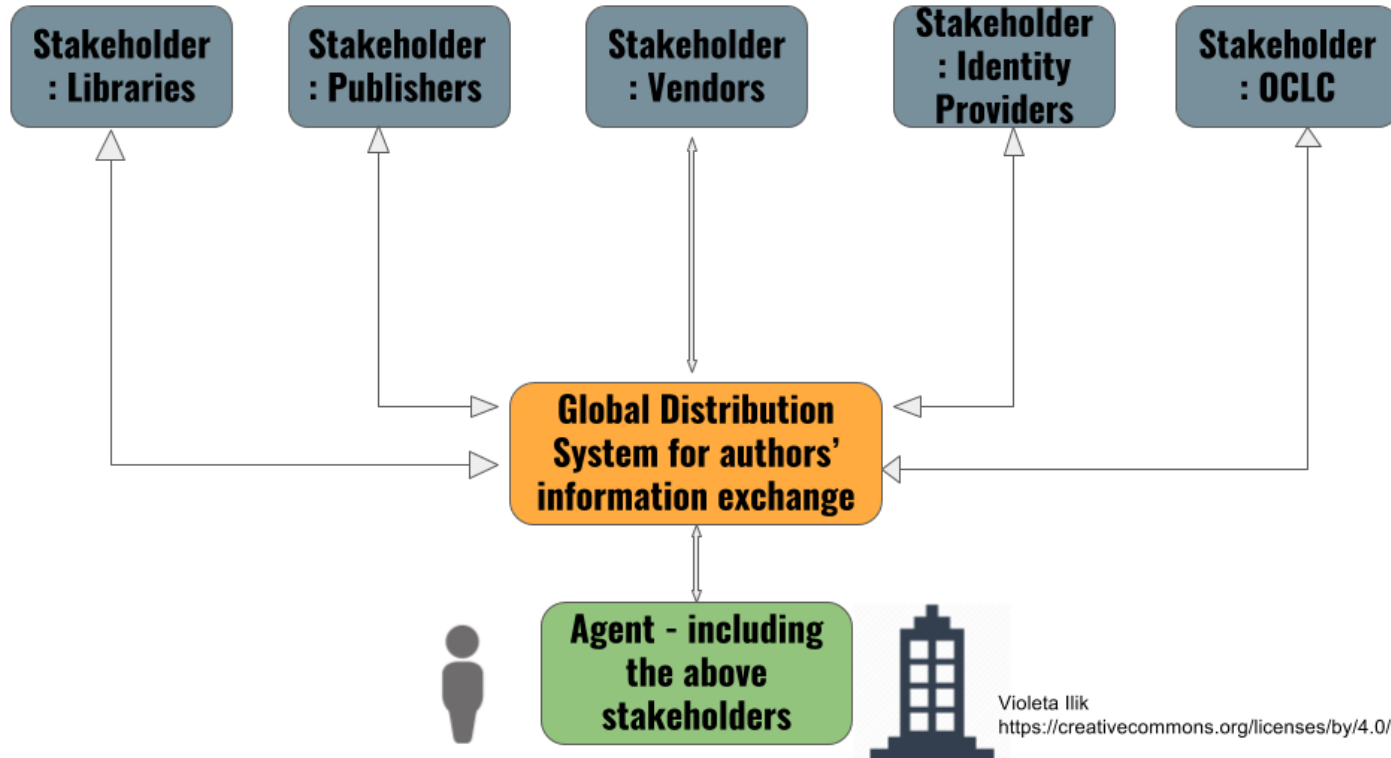
# Real Time Information Channel

"**WebSub** provides a common mechanism for communication between publishers of any kind of Web content and their subscribers, based on HTTP web hooks. Subscription requests are relayed through hubs, which validate and verify the request. Hubs then distribute new and updated content to subscribers when it becomes available."

**WebSub**

**W3C**

# Real Time Information Channel

real time information channel fed by and consumed by institutions and applications that manage and use identity information.

Thank you

Violeta Ilik

@azra

https://orcid.org/0000-0003-2588-3084

Violeta Ilik

@azra

https://orcid.org/0000-0003-2588-3084

FORCE
2017

# Reproducibility Librarianship

Vicky Steeves │ NYU Libraries & Center for Data Science
@VickySteeves, vicky.steeves@nyu.edu

FORCE2017 │ October 25, 2017

# Reproducibility on a spectrum

Reviewable Research: Sufficient detail for peer review & assessment.

Replicable Research: Tools are available to duplicate the author's results using their data.

Confirmable Research: Main conclusions can be attained independently without author's software.

Auditable Research: Process & tools archived such that it can be defended later if necessary.

**Open/Reproducible Research: Auditable research made openly available.**



Stodden et al ICERM report (2013)
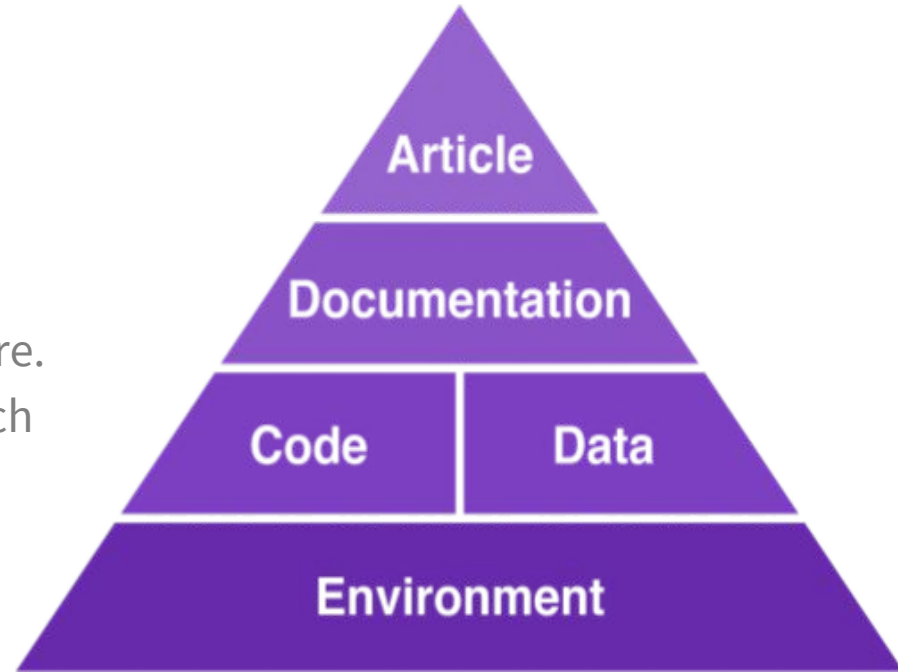
# Even if runnable, results may differ...

[The Effects of FreeSurfer Version, Workstation Type, and Macintosh Operating System Version on Anatomical Volume and Cortical Thickness Measurements](#)

We investigated the effects of data processing variables such as FreeSurfer version (v4.3.1, v4.5.0, and v5.0.0), workstation (Macintosh and Hewlett-Packard), and Macintosh operating system version (OSX 10.5 and OSX 10.6). **Significant differences** were revealed between **FreeSurfer version v5.0.0 and the two earlier versions**. [...] About a factor two smaller differences were detected between **Macintosh and Hewlett-Packard workstations** and between **OSX 10.5 and OSX 10.6**

# Challenges in Reproducibility

## Workload & Time Challenges

It is a time commitment to get data and code ready to share, and to share it

*Otherwise known as…*

## the Incentive Problem

Reproducibility takes time, and is not always valued by the academic reward structure

**"Insufficient time is the main reason why scientists do not make their data and experiment available and reproducible."**
Carol Tenopir, Beyond the PDF2 Conference

**"77% claim that they do not have time to document and clean up the code."**
Victoria Stodden, Survey of the Machine Learning Community – NIPS 2010

# Challenges in Reproducibility

## Technical Obsolescence
Technology changes affect the reproducibility

## Normative Dissonance[1]
Espoused values don't always match practice

*Otherwise known as…*

## the Pipeline Problem
Reproducibility requires skills that are often not included in most curriculums!

> **"It would require huge amount of effort to make our code work with the latest versions of these tools."** Collberg et al., Repeatability and Benefaction in Computer Systems Research, University of Arizona TR 14-04

[1] https://www.ncbi.nlm.nih.gov/pubmed/19385804

# Data Management + Reproducibility + Libraries

Emerging field of data librarianship has sparked changes in what librarians are offering:

- Data management/data services
- Grants support (data management plan review)
- Repository services, especially emerging data repositories

Reproducibility is the next frontier -- you'll see many librarians developing in tandem with engineers, humanists, and scientists!

# My three primary areas of work

## Education

- Regular library classes
- Embedded classes in for-credit courses
  - E.g. Repro-R for data science class
- Special workshops
  - E.g. RCR
- Openly available & licensed materials

## Outreach

- Meet with everyone in the library
  - Liaison librarians
  - Digital archivists
  - IT
- Researchers
  - 1:1 consultations
  - group/lab consultations

## Tools/Infrastructur

- ReproZip, open source tool for full reproducibility
- OSF for NYU
- Collaborations with software engineers in CDS
- Teaching RDM & reproducibility using only open source tools

# Education

Teaching the folks about reproducibility & RDM!

- 3 offices for consultations:
  - Center for Data Science
  - Bobst Library
  - NYU Tandon CS department
- Openly available/licensed teaching materials: github.com/nyu-dataservices
- Reproduciblescience.org & @ReproFeed
  - Open source development

———

# Outreach

Making sure people know these services exist & we can help them!

- Met with every liaison librarian
  - Learn about their depts' research & they learn about repro/RDM services
- Met with researchers 1:1 or in labs
  - Learn about their research & they learn about repro/RDM services
- Reproducibility Symposium: researchers showed tools and workflow on how working reproducibility has helped them

# Tools & Infrastructure

Building new ways for researchers

- ReproZip: OSS tool for full reproducibility
  - Build open user-facing materials
  - Creates easily shareable, citable object
- OSF for Institutions @ NYU
  - 30 + public projects on osf.nyu.edu
  - Easier to propagate best RDM practices

——

# **Questions? Thoughts?**

Vicky Steeves | NYU Libraries & Center for Data Science

Tweet me: @VickySteeves
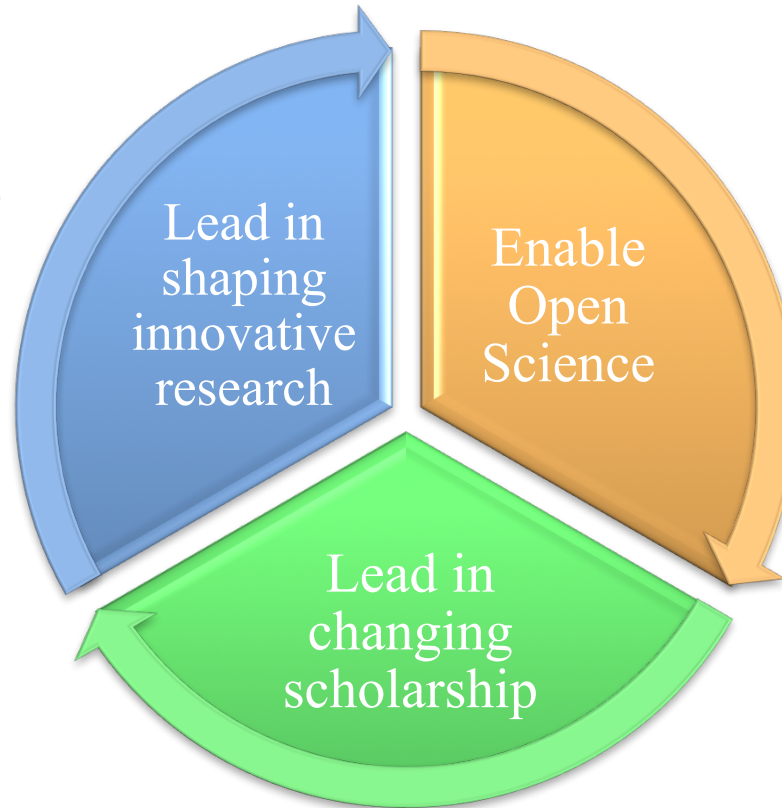Email me:  vicky.steeves@nyu.edu

# Libraries collaborating to advance open science
## University of Göttingen

**FORCE 2017, Berlin, October 25**

# LIBER strategy for libraries

Supporting researchers with tools for open access, copyright issues, RDM, data mining, etc.

Best practice in open science, metrics and RDM.

**Lead in shaping innovative research**

**Enable Open Science**

**Lead in changing scholarship**

Positioning libraries in innovatove and open research environments.

# University of Göttingen

Supporting Open Science through

- its policies and support measures for its practical implementation
  - 2016 Nov: joint policy on Open Access to publications was adopted by the University of Göttingen and the University Medical Center Göttingen (updates 2005 policy),
  - 2014 June: a joint research data policy.
- Offering open access publishing services through the Library (uni. press, publication fund, etc.),
- assistance in data management issues through eResearch Alliance.
- Local initiatives based at faculty-level such as the Göttingen Open Source and Science Initiative of Psychology.
- Open Science meet-ups organized by the Library
- Participating in Open Science projects, programs and associa

# Open Science Göttingen Meet-up

- Initiated in December 2016
- Focus on Open Science topics: research data, publishing, peer review, research integrity, etc.
- Junior researchers, librarians, research management, HE didactics, from UGOE, Max Planck Institutes etc.
- Outreach primarily via graduate schools' mailing lists





Work mode

- Quarterly Meet-ups with short presentations & group discussions
- Working groups (monthly): Teaching Open Science, HackyHour

# What's next?

**Topics for forthcoming meetings, e.g.**

- Metrics, impact, researcher profiles
- Cartoons/graphical abstracts/storytelling
- Incentivize Open Science at UGOE & awareness
- Library services (SUB, GWDG, MPG)
- Open Educational Resources
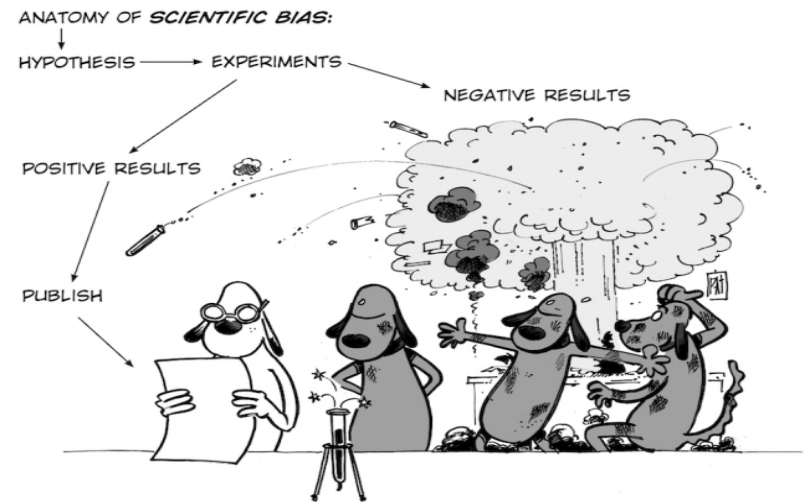


Source: P Hochstenbach, CC-BY-SA 4.0, http://bit.ly/2mrU7Q1

**Benefits**

- Great to work with the „willing ones" and jointly step up Open Science promotion
- The network already plays out as a facilitator for discussions on how to integrate Open Science into PhD trainings, including on research data management, coding basics (e.g. Python notebooks), research integrity

# Projects

**OPENing UP new methods, indicators and tools for peer review, impact measurement and dissemination of research results**

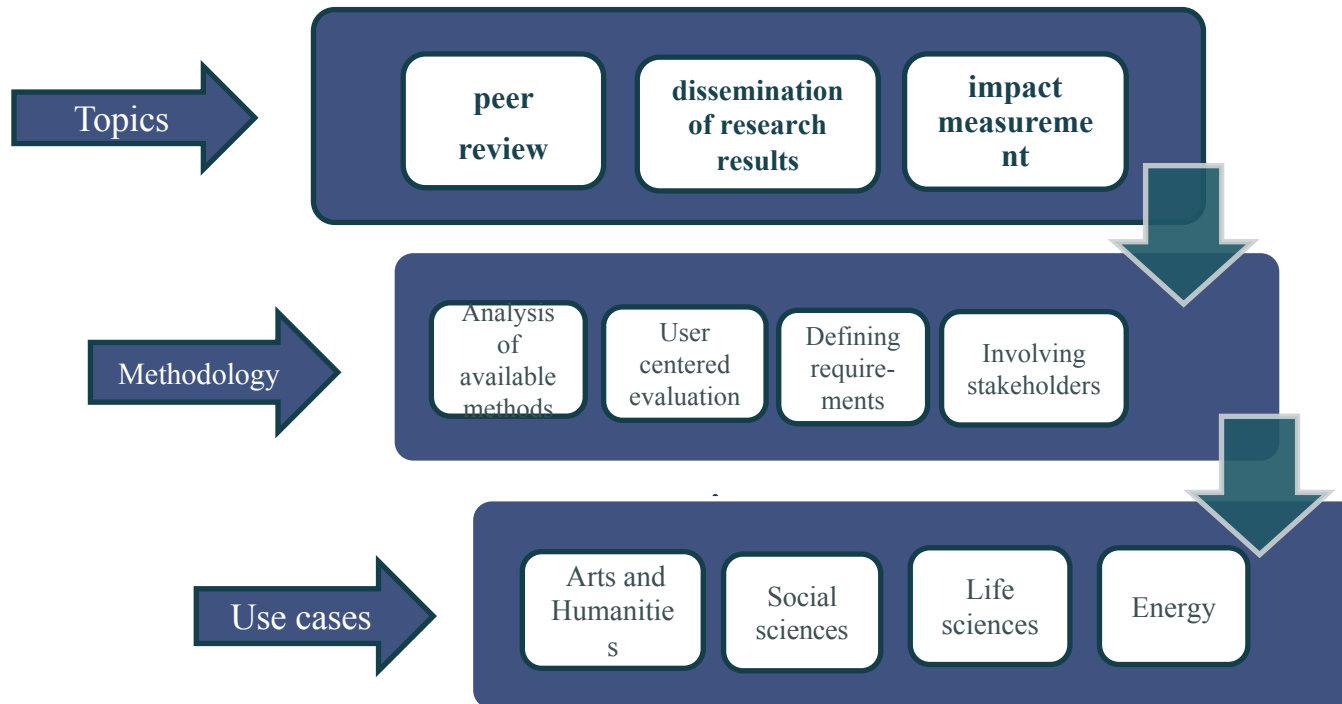H2020-GARRI-2015-1

2016 June- 2018 November

# Our mission

**OpenUP**

Opening UP new methods, indicators and tools for…

| Topics → | peer review | dissemination of research results | impact measurement |
|---|---|---|---|

| Methodology → | Analysis of available methods | User centered evaluation | Defining require-ments | Involving stakeholders |
|---|---|---|---|---|

| Use cases → | Arts and Humanities | Social sciences | Life sciences | Energy |
|---|---|---|---|---|

within the Open Science ecosystem.

# Aims and activities

Contributing to the developing open science discourse

- Map out the alternative review, dissemination and impact measurement tools and services

- Create ties with other EU projects – aligning efforts in researching open peer review and open science practices.

- Sharing taxonomies (FOSTER),

- Building on previous research (OpenAIRE), developing collaborations.

- Open science advocacy work: organizing workshops and webi

# Collaborations

**Pilot studies**

Validate the frameworks through a series of pilots involving researchers from four scientific communities (Life Sciences, Social Sciences, Arts & Humanities, Energy)

- **Peer review**
    - Open Peer Review for Conferences
    - Open Peer Review for Research Data
    - A data journal for the Arts and Humanities
- **Innovative Dissemination**
    - Transferring the research lifecycle to the web (Open Science Repositories)
    - Addressing & reaching businesses and the public with research output
- **Impact Assessment**
    - Relevance of dissemination channels and altmetrics indicators
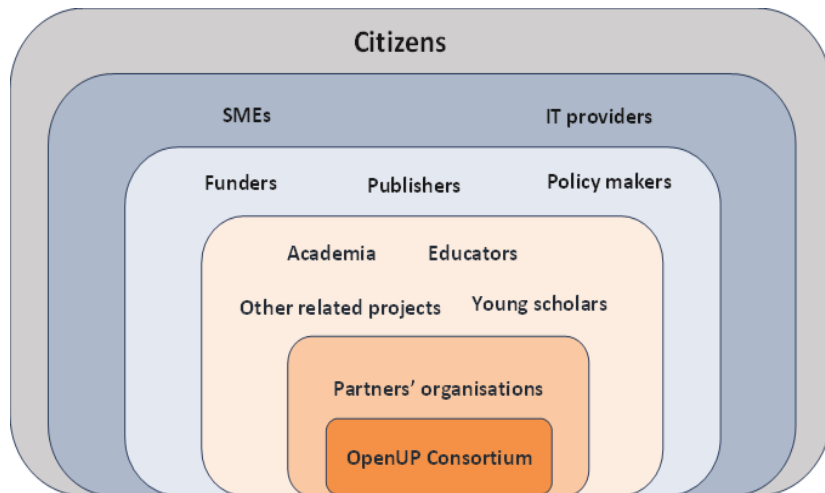    - Piratical demand / Piratical distribution
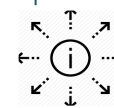
# Advocacy



**Target communities**

**Tools**

- Trainings
- Webinars
- Workshops
- Information resources

OpenUp hub (beta version)
https://www.openuphub.eu

Principles of Open Scholarship

Transparency · Accountability · Inclusivity · Responsibility · Community & Collaboration · Visibility · Rigour · Equality · Public good · Reproducibility · Findability · Accessibility · Interoperability · Re-usability · Innovation

CC BY @tonyR_H

Tony Ross-Hellauer

**Thank you!**

**Edit Görögh**
**goeroegh@sub.uni-goettingen.de**

**More information:**
**http://openup-h2020.eu/**
**https://www.openuphub.eu/**
**@ProjectOpenUP**

# International Collaborative Initiatives

**#FORCE2017, Berlin, 25 October 2017 Year**

**Simone Sacchi, EU Projects Manager - LIBER**

# About
# LIBER

LIBER

We're Europe's largest research library network.

Founded in 1971. Based in The Hague.

**400+ libraries**

University, national
and special libraries.

- **13 Board Members**
- **3 Special Advisors**
- **10 Office Staff**



**100+ Volunteers** serving on Steering Committees, Working Groups, Fora

**Our Mission: Help our libraries to support world-class research.**

- Collaborative
- Cross border
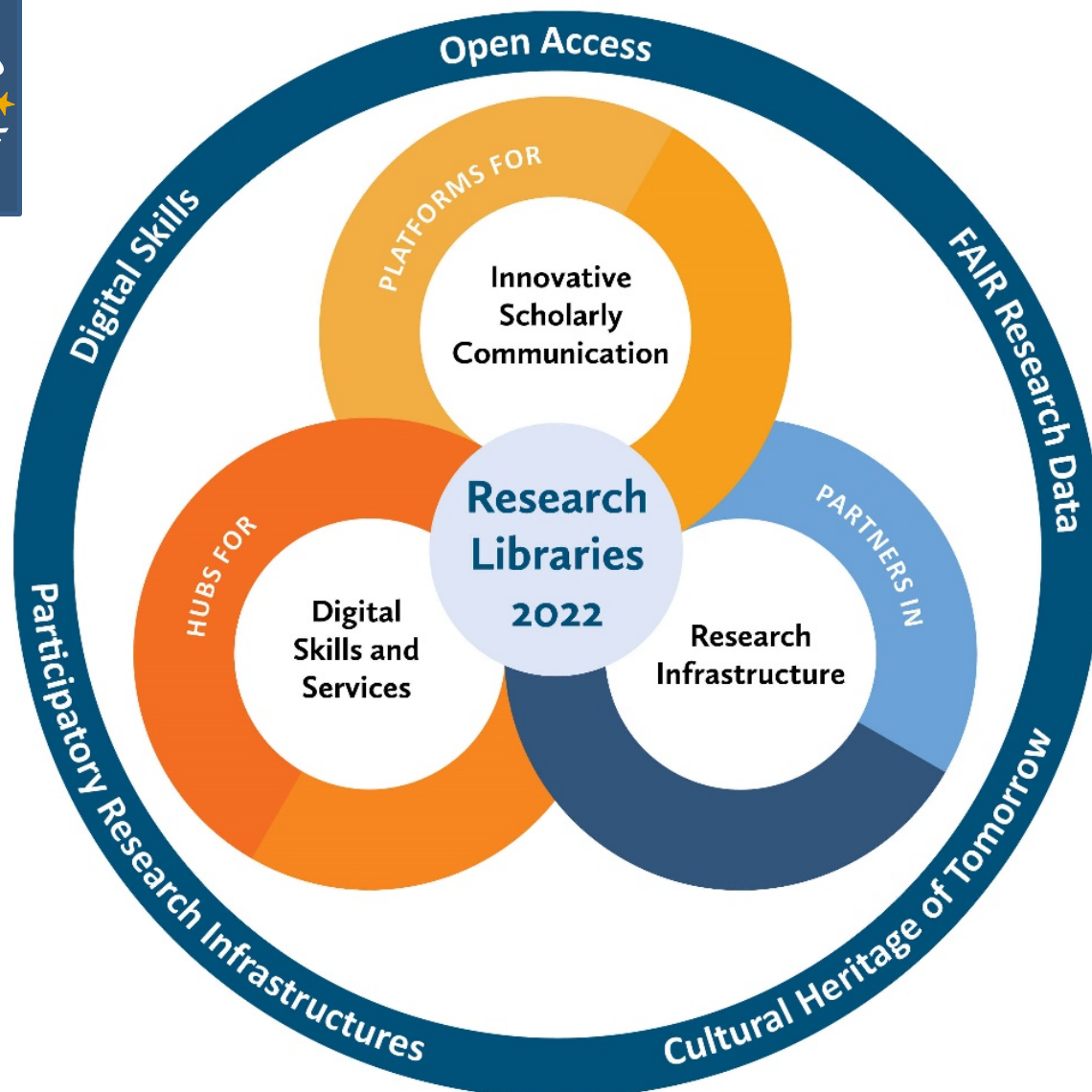- Cross discipline
- Increasingly data intensive
- Open

# LIBER Strategy 2018-2022.

LIBER
Strategy
2018-2022

# Steering Committees and Working Groups

- **3 Steering Committees**
- **7 Working Groups**

**Advantages of joining:**
- **Learn from others**
- **Share** your professional knowledge
  – You **ARE** an expert
- **Work together** for a stronger voice

# International Collaborative Projects

# International Collaborative Projects

## 7 current projects:

**Budget:** €400,000- €10 million
**Partners:** 5-50
**Duration:** 2-4 years

**30 LIBER Libraries Active In International Collaborative Projects…**

…in which LIBER is also a partner.

# International Collaborative Projects

# How we contribute

- **Lead** the uptake of Open Science practices
- **Promote** innovative scholarly communication
- **Support** the development of digital skills
- **Foster** the development and uptake of research (e)infrastructures and services
- **Work** with academic communities on metrics and incentives to support more open, transparent, and fulfilling research and scholarly practices

# International Collaborative Projects

*We do this with years of experience in engaging the broadest range of stakeholders throughout the research lifecycle and in advocating and lobbying at the European and local level.*

# International Collaborative Projects

# Why Joining An Internation Project?

- **Cross-border cooperation (and be "out there")**
- **Build capacity and skills (and tranfer them locally)**
- **Get to know your peers (and work with them)**
- **Funding (…but most projects are cost recovery!)**

"For me participating in EU Projects means **learning from good practice** overseas, building international networks that bring together a range of perspectives and expertise, and the **opportunity to co-develop** systems and services"

-*Sarah Jones, Digital Curation Centre*

# Advocacy and Communication

**We Bring Library Issues To MEPs**

We Sit On The EC's Open Science Policy Platform

**Open Science Cafes**

# Thank you!
# QUESTIONS?

simone.sacchi@kb.nl                    @libereurope

# Research-library collaboration – an institutional view

Laurent Romary

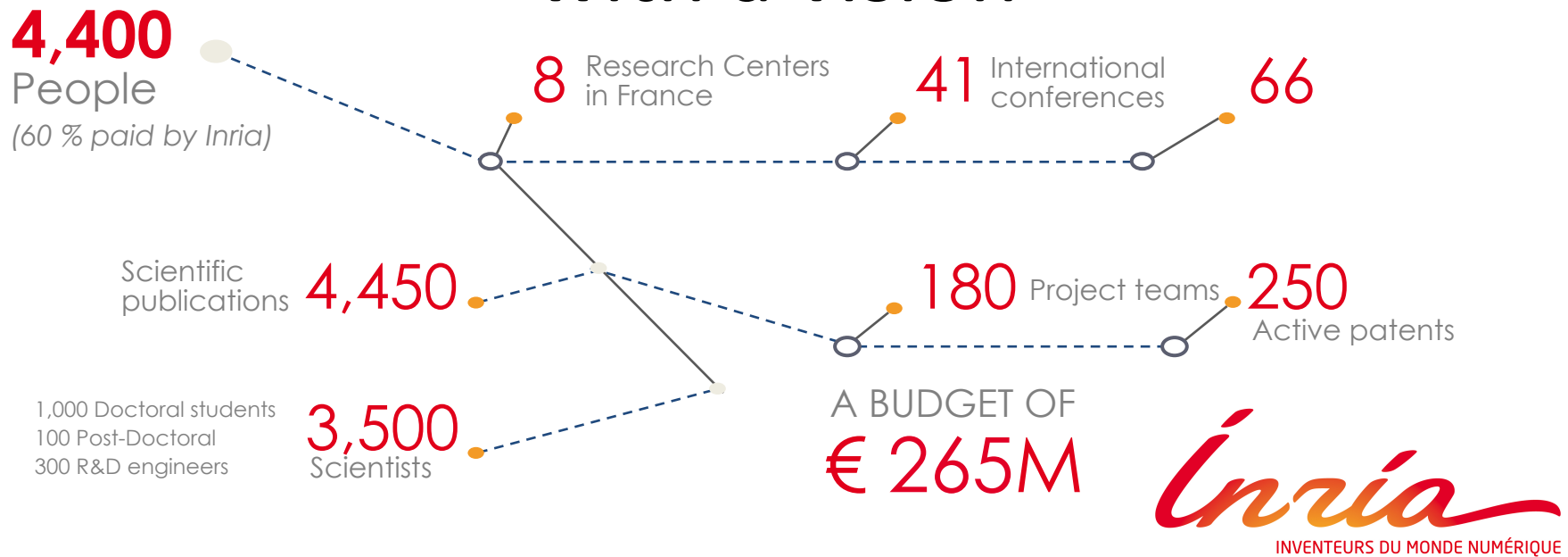Inria, team ALMAnaCH

DARIAH, General Director

# Overview

- A library network at the service of an open access policy…
  - Inria


- Understanding the roles of libraries in accompanying the scholarly activity
  - Competences, proximity, stability

# Inria — a research organisation with a vision

**4,400**
People
*(60 % paid by Inria)*

8 Research Centers in France

41 International conferences

66

Scientific publications 4,450

180 Project teams 250
Active patents

1,000 Doctoral students
100 Post-Doctoral
300 R&D engineers

3,500 Scientists

A BUDGET OF
€ 265M

*Inria*
INVENTEURS DU MONDE NUMÉRIQUE

**Vision for a scientific information policy**

- Maximising the **dissemination** of our scientific assets (visibility and swift dissemination of knowledge), for a reasonable price

- Constitution of a reliable and **sovereign institutional corpus** (documentation, preservation, access), with clear public governance principles

- Contribution to shaping the scientific communication landscape in terms of **editorial processes** and **usage** made of scientific productions

# Inria scientific information policy in concrete terms

- Setting up priorities
  - Printed material as disposable goods
  - Deposit mandate on scientific publications
  - Rejecting hybrid open access
  - Engaging in developing new publication models
- Consequences
  - Less collection development on the basis of our acquisitions (national consortia, national licences)
  - More collection development as part of the digital curation activities

# Two additional contextual elements

- A strong political support
  - State: *loi pour une république numérique*
    - Published in September 2016
    - Two articles on *open access* and *text and data mining*
  - Higher education and research
    - A wide network of institutions favouring the use of publication repositories
- A technical infrastructure
  - A national publication repository: HAL
    - CNRS, Inria, Université de Lyon
  - Coupled with a comprehensive authority back-office: AureHAL
    - Authors, Institutions, journals, national and EU projects

# A paradigm change

# A day in the life of a librarian at Inria

- HAL stewardship
  - Implementing/explaining the open access policy
  - Moderating content
  - Updating authorities
  - Creating specific collections/digital libraries (e.g. IFIP)
- Editorial support
  - SciencesConf: conference management service
  - Episciences: overlay journal platform
- Managing a central APC budget
  - Documenting costs, predatory journals, licences
  - Explaining the open access policy…
- Providing usage statistics - indicators
  - Acquisitions, Open access publications

# Trends and conclusions

- Constant increase in technical competence
  - Data formats, mastering complex editorial platforms
- Efficiency resulting from a proximity to research and researchers
  - Library network spread over the 8 research centres
- Constant decrease in staff
  - Library services still seen as a cost
- Request to deal with more duties
  - Research data management
- Risk of not living up to our expectations
  - We need to identify the appropriate budget

Epilogue 1

VirginieVB
@Virginie_VB_

Suivre

En place pour l'atelier de création ID Hal #openaccessweek #archiveouverte avec @JoSadowska et @madamebilou54

10:32 - 24 oct. 2017

# Epilogue 2

- *Appel de Jussieu*: http://jussieucall.org
  - This Call is aimed at scientific communities, professional associations and research institutions to promote a scientific publishing open-access model fostering bibliodiversity and innovation without involving the exclusive transfer of journal subscription monies to APC payments.