Libraries collaborating to advance open initiatives

Heather Piwowar
Violeta Ilik
Vicky Steeves
Edit Görögh
Simone Sacchi
Laurent Romary
oaDOI + Unpaywall and libraries :)

Heather Piwowar
@impactstory

OA Week 2017, FORCE17
“The State of OA” https://doi.org/10.7287/peerj.preprints.3119
The OA movement began in the mid-90s.

This is the most recent year sampled in the new study.

Based on current growth, all articles published this year will be OA.

Percent of papers that are OA by year of publication:

- 25% pre-1995
- 47% in 2015
- 100% in 2040
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.
Search the metadata of 92,193,140 journal articles, books, standards, datasets & more
"evidence": "oa repository (via OAI-PMH doi match)",
"host_type": "repository",
"id": "oai:arXiv.org:1703.01424",
"is_best": false,
"license": null,
"updated": "2017-10-22T19:22:57.256256",
"version": "submittedVersion"
- 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 repository. 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/](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
free.
Read paywalled research papers for free.

Click the green tab and skip the paywall. It’s fast, free, and legal, powered by our database of millions of author-uploaded PDFs.

Free for Chrome and Firefox

Add Unpaywall to Chrome
- improved access
- IR discoverability and filling
- journal negotiations
Search or Browse for Repositories

Results 1 - 20 of 2453. RSS1 Feed for this Query

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
The Forbidden Forecast: Thinking About Open Access and Library Subscriptions

By RICK ANDERSON | FEB 21, 2017
62 COMMENTS
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.
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 continue offering it.
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](http://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.

Supported by the Alfred P. Sloan Foundation, the National Science Foundation, Clarivate Analytics, the Public Knowledge Project, and the Open Knowledge Foundation.
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

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
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
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/
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.”
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
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
Technical Obsolescence
Technology changes affect the reproducibility

Normative Dissonance
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
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

<table>
<thead>
<tr>
<th>Education</th>
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<tbody>
<tr>
<td>- Regular library classes</td>
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<tr>
<td>- Embedded classes in for-credit courses</td>
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<tr>
<td>- E.g. <a href="#">Repro-R</a> for data science class</td>
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<tr>
<td>- Special workshops</td>
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<tr>
<td>- E.g. RCR</td>
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<tr>
<td>- Openly available &amp; licensed materials</td>
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<tr>
<th>Outreach</th>
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<tbody>
<tr>
<td>- Meet with everyone in the library</td>
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<tr>
<td>- Liaison librarians</td>
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<tr>
<td>- Digital archivists</td>
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<tr>
<td>- IT</td>
</tr>
<tr>
<td>- Researchers</td>
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<tr>
<td>- 1:1 consultations</td>
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<td>- Group/lab consultations</td>
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<tr>
<th>Tools/Infrastructure</th>
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<tbody>
<tr>
<td>- ReproZip, open source tool for full reproducibility</td>
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<tr>
<td>- <a href="#">OSF for NYU</a></td>
</tr>
<tr>
<td>- Collaborations with software engineers in CDS</td>
</tr>
<tr>
<td>- Teaching RDM &amp; reproducibility using only open source tools</td>
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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](https://github.com/nyu-dataservices)
  - [ReproducibleScience.org](https://reproduciblescience.org) & [@ReproFeed](https://twitter.com/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

Lead in shaping innovative research
Enable Open Science
Lead in changing scholarship
Positioning libraries in innovative and open research environments.

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

Best practice in open science, metrics and RDM.
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

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
pening UP new methods, indicators and tools for…

within the Open Science ecosystem.

Topics

Methodology

Use cases

peer review

dissemination of research results

impact measurement

Analysis of available methods

User centered evaluation

Defining requirements

Involving stakeholders

Arts and Humanities

Social sciences

Life sciences

Energy
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

- Citizens
- SMEs
- IT providers
- Funders
- Publishers
- Policy makers
- Academia
- Educators
- Other related projects
- Young scholars
- Partners’ organisations
- OpenUP Consortium

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!

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

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International Collaborative Initiatives

#FORCE2017, Berlin, 25 October 2017 Year

Simone Sacchi, EU Projects Manager - LIBER
About 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

Open Access

Platforms for Innovative Scholarly Communication

Digital Skills

Hubs for Digital Skills and Services

Participatory Research Infrastructures

Cultural Heritage of Tomorrow

FAIR Research Data

Partners in Research Infrastructure

Research Libraries 2022

Enablers

Advocacy & Communication
International Project Participation
Policy Development
Leadership & Skills Building
International Alignment & Coordination
Steering Committees and Working Groups
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

- FOSTER
- EUDAT
- AARC
- EOSCpilot
- OpenAIRE
- HuMetricsHSS
- openMINED
30 LIBER Libraries Active In International Collaborative Projects...

...in which LIBER is also a partner.
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
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.
Why Joining An Internation Project?

- Cross-border cooperation (and be “out there”)
- Build capacity and skills (and transfer 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
Thank you!

QUESTIONS?

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@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

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

Provides content

Publishes content

Consumes content

Publishes content

SUPER LIBRARIAN!
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
En place pour l'atelier de création ID Hal #openaccessweek #archiveouverte avec @JoSadowska et @madamebilou54
• *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.