How Open Infrastructures

Benefit Libraries

Silvio Peroni: OpenCitations
Niels Stern: OAPEN/DOAB
James MacGregor: Public Knowledge Project
Joanna Ball: Royal Danish Library/Roskilde University Library

Values of Open Infrastructures

Fairness: avoid that institutions and independent scholars having to pay tens of thousands of euros annually (that most of them cannot afford!) for relevant services and software, e.g. commercial access to their own scholarly data and publications

Reuse: licenses to foster maximum discoverability and reuse, so users can re-publish and use, for any purpose, data, software, and publications that Open Infrastructures provide

Transparency: providing open and freely available knowledge of relevance for the scholarly ecosystem (e.g. for dissemination activities and within research evaluation exercises) to foster transparent and reproducible processes

Governance: crucial to involve the stakeholder community in the governance of the Open Infrastructures, to build more confidence that the organisation will take decisions driven by community consensus and consideration of different interests

OpenCitations: basic information

OpenCitations (http://opencitations.net) is an independent not-for-profit infrastructure organization

- dedicated to open scholarship and the publication of open bibliographic and citation data by the use of Semantic Web (Linked Open Data) technologies
- engaged in advocacy for open citations and open bibliographic metadata, as a founding member of both the Initiative for Open Citations (I4OC) and the Initiative for Open Abstracts (I4OA)

It provides:

- a data model: the OpenCitations Data Model (based on the SPAR Ontologies)
- bibliographic and citation databases (CC0): OpenCitations Corpus, COCI, CROCI, CCC
- software: in our GitHub repository, released with open source licenses
- online services: REST APIs, SPARQL endpoints, dumps, and search and query interfaces

Using OpenCitations data

We provide data containing more than 7 hundred million citations that the community can use for any purpose

Such data can be crucial as a vehicle for use in national and international research evaluation exercises to make such activities more transparent and reproducible as compared to other proprietary services

As a librarian, you can use our citation data (e.g. via our REST API) to enhance or develop tools to support your authors, researchers, students, institutional administrators, for instance by providing metrics to monitor research at your institution and by improving the discoverability of research products such as publications and data

Examples of use

The availability of the citation data via dumps and REST APIs has fostered new applications, from the description of references and citations of a given article in metadata libraries to the visualisation of networks of publications

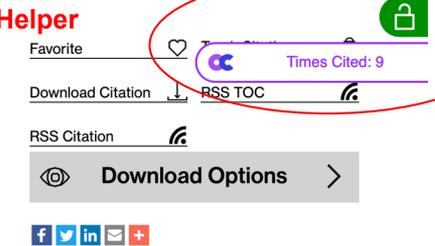In 2020-2021, we had more than 33,800,000 accesses to the REST API

Full dumps have been downloaded more than 169,000 so far

OpenCitations, an infrastructure organization for open scholarship

Silvio Peroni and David Shotton

Posted Online January 23, 2020
https://doi.org/10.1162/qss_a_00023

Article https://doi.org/10.1162/qss_a_00023 visualised with the Open Access Helper plugin (https://www.oahelper.org/)
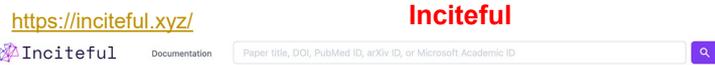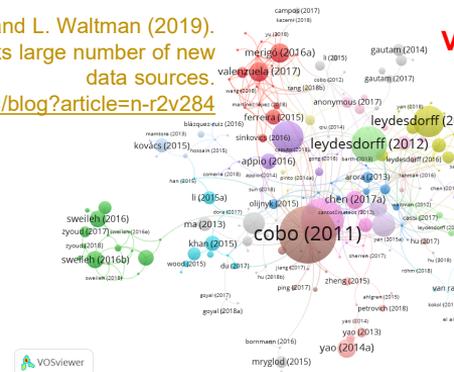
https://dblp.uni-trier.de/rec/conf/semweb/PeroniS18.html

DBLP

dblp computer science bibliography

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"The SPAR Ontologies."
Silvio Peroni, David M. Shotton (2018)

> Home

Trier 1

Silvio Peroni ®, David M. Shotton ®:
The SPAR Ontologies. International Semantic Web Conference (2) 2018: 119-136

[−] References

load references from crossref.org, opencitations.net, and semanticscholar.org

Simon Buckingham Shum ®, Enrico Motta ®, John Domingue ®:
ScholOnto: an ontology-based digital library server for research documents and discourse. Int. J. on Digital Libraries 3(3): 237-248 (2000)

Paolo Ciccarese, Silvio Peroni:
The Collections Ontology: Creating and handling collections in OWL 2 DL frameworks. Semantic Web 5(6): 515-529 (2014)

The Lens

The Lens @TheLensOrg · Jan 20
Release 6.6 is now live with new citing patents chart for individual scholarly works, new first or last author filter toggle and more! Check it out at lens.org

The Lens

Release 6.6 New citing patents chart for individual scholarly works. New first or last author filter toggle and more!

Citing Patents | Citing Scholarly Works

In: Science, Issue: 4254, Volume: 193, Page: 673-675

💬 2   ⟲ 26   ♡ 39

The Lens @TheLensOrg

Update: Release 6.6 now includes updated citation data from the January 2020 COCI release, thanks @OpenCitations!

N. van Eck and L. Waltman (2019). VOSviewer supports large number of new data sources. https://www.cwts.nl/blog?article=n-r2v284

https://twitter.com/TheLensOrg/status/1225004057086967808

https://inciteful.xyz/

Inciteful

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OpenCitations, an infrastructure organization for open scholarship

Silvio Peroni | David M. Shotton

arXiv: Digital Libraries, vol 1 no 1.

OpenCitations is an infrastructure organization for open scholarship dedicated to the publication of open citation data as Linked Open Data using Semantic Web technologies, thereby providing a disruptive alternative to traditional proprietary citation indexes. Open citation data are valuable for bibliometric analysis, increasing the reproducibility of large-scale analyses by enabling publication of the source data. Following brief introductions to the development and benefits of open scholarship and to Semantic Web technologies, this paper describes... ⌄ more

16	12	2020	Yes	8,183	29,947	2
Cited By	Citing	Published	Open Access	Papers in Graph	Citations in Graph	Graph Depth

VOSviewer

Mission of the OAPEN Foundation

➔ to increase the discoverability of open access books

➔ to build trust around open access books

OAPEN Foundation is a non-profit foundation based on community funding

Three open source platforms enabling open access to books

Directory of Open Access Books – basic indexing service

OAPEN Library – premium services for libraries, publishers, and funders

OAPEN OA Books Toolkit – public information resource for authors

Directory of Open Access Books (DOAB)

Launched in 2012

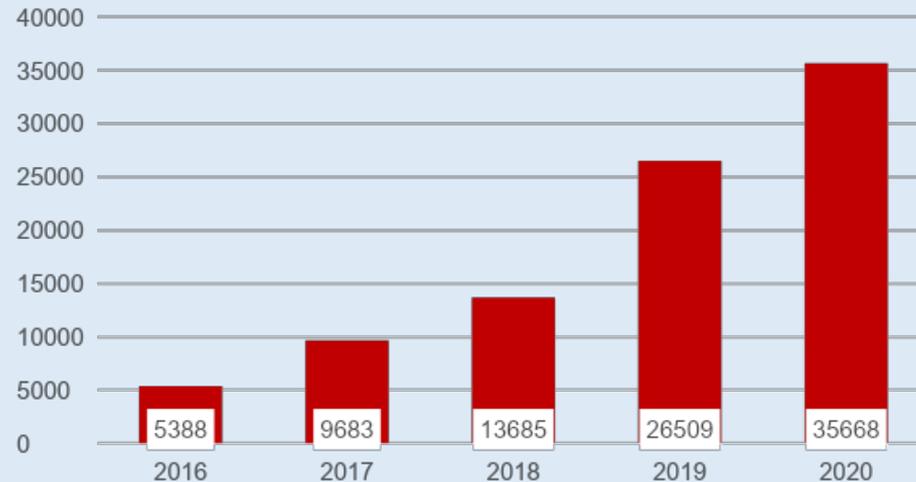International hub for peer reviewed open access books

43,000+ OA books indexed

500+ OA book publishers

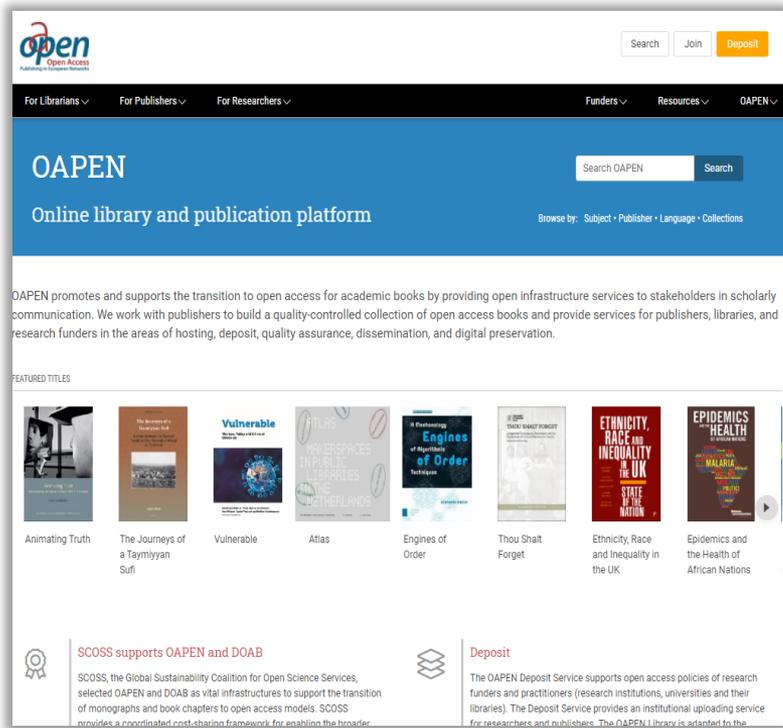All metadata is freely available (CC0)

DSpace 6.0

Titles in DOAB

2016	2017	2018	2019	2020
5388	9683	13685	26509	35668

Easy integration with library catalogues

✔ Metadata feeds in MARCXML, CSV, RIS, ONIX XML
✔ OAI-PMH Harvesting
✔ REST API
✔ RSS and Atom feeds

OAPEN Library

Launched in 2010

Repository of 17,000+ open access books

Hosting, distribution, and preservation

DSpace 6.0

Easy integration with library catalogues

- ✔ Metadata feeds in MARCXML, CSV, RIS, ONIX XML
- ✔ OAI-PMH Harvesting
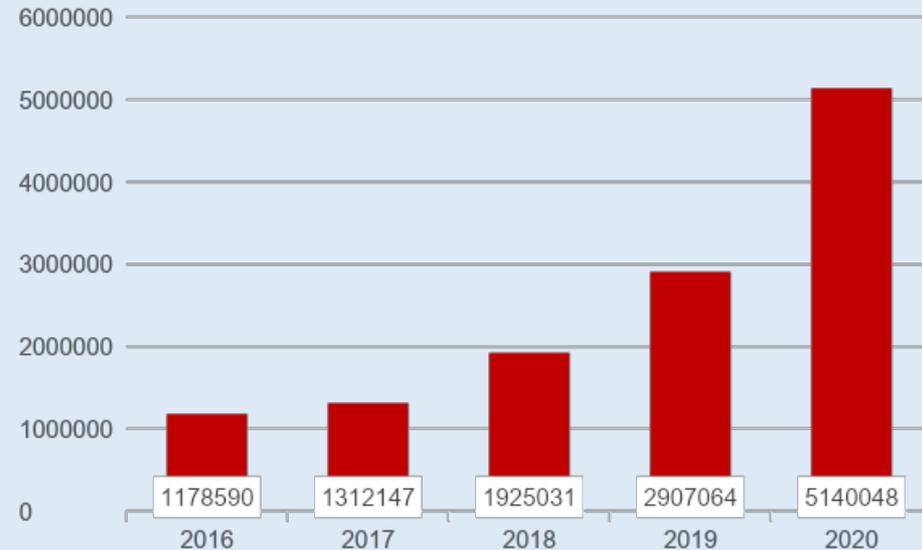- ✔ REST API
- ✔ RSS and Atom feeds

OAPEN Library: Number of downloads

Year	Downloads
2016	1178590
2017	1312147
2018	1925031
2019	2907064
2020	5140048

OAPEN OA Books Toolkit, launched autumn 2020

https://oabooks-toolkit.org

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https://oabooks-toolkit.org

open Open Access
Publishing in European Networks

| Life cycle | FAQ | Keywords | Glossary |

🏠 About OA ⌄   The OA Books landscape ⌄   About the Toolkit ⌄   Support ⌄   Resources ⌄

OAPEN
OA Books Toolkit

For authors

This toolkit aims to help book authors to better understand open access book publishing and to increase trust in open access books. You will be able to find relevant articles on open access book publishing following the research lifecycle, by browsing frequently asked questions or by searching with keywords.

Life cycle ▶   FAQ ▶   Keywords ▶

Engagement & Communication

Engagement

- Participation in the stakeholder committees

- Regular community events for libraries

- Advisory Board

- Scientific Committee

Communication

- Annual stakeholder report

- Newsletters

- Library member mailing list

- Presentations at webinars and conferences

DOAB @DOABooks · 28 okt. 2020

Join us next week for a workshop as part of #OPERAS2020 on: An Open Infrastructure for Open Access Books - Nov 4, 10.00 CET including perspectives from @SofieWennstrom, @joanna_ball, @viroviacum, @njneilj, Jeff Edmunds, @eferwerda and @piotrr70

Register: operas2020.com

How libraries can engage with infrastructure

PKP at a glance:

- 23 years old
- 3 applications (OJS, OPS, OMP), all OSS
- 28 staff

PKP community at a glance:

- 6 development partners (SFU Library, UBC Libraries, University of Alberta Library, University of Pittsburgh ULS, TIB, Stanford, OCUL)
- Dozens of sustainers
- Hundreds if not thousands of contributors
- 27,000 journals using OJS in the world (conservatively)

How libraries can engage with infrastructure

PKP
PUBLIC
KNOWLEDGE
PROJECT

"Typical" contributions to PKP:

- Money! Development partners and sustainers (incl. SCOSS) do this.
- Code: Plugins, core code pull requests, bugs/issues filed, etc.

But also:

- Translations (55 OJS translations maintained currently)
- Documentation (6 new guides this year, and new translations)

How libraries can engage with infrastructure

More fundamental engagement:

- Usability and accessibility testing
- Contributing to PKP School / education resources
- Engagement with advisory committees and working groups (Advisory, Members and Technical Committees; Documentation Interest Group, Accessibility Interest Group, etc.)
- Regional workshops, sprints, webinars

Supporting Open Infrastructure

A Library perspective

Joanna Ball

June 2021

DET KGL.
BIBLIOTEK
Royal Danish Library

Why are we supporting open infrastructure?

- Open Science is a strategic priority for the Royal Danish Library, as well as the universities for which it provides library services

- Strategy 2020-23: *We will make knowledge freely available for the benefit of users, society and democracy. The Royal Danish Library will actively support and contribute to Open Science*

- In line with role as national licence consortium

- We provide support for two areas:
  - Open Infrastructure & Services
  - Innovative initiatives that support an Open Access transition

Created by Krisada
from Noun Project

How do we decide what to support?

Established a fund (2020) and a set of principles (2021):
- Community-driven initiatives preferred
- Relevant for Danish research institutions & balance between STM and HSS
- Transparent business models
- Rights should be retained by the author, and/or CC-BY minimum licence
- Initiatives should be straightforward for us to administer

Sustainability – we expect to invest in an initiative for 2-4 years at a time

What we won't support:
- APC payments
- Initiatives that support research data (covered by DEIC – the Danish E-infrastructure Co-operation)
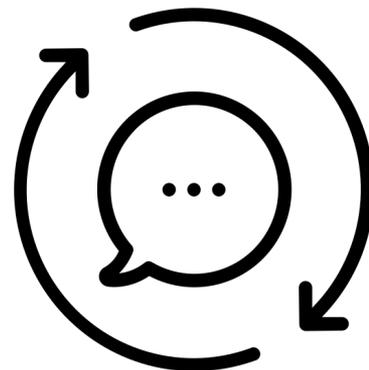
Created by Justin Blake
from Noun Project

DET KGL.
BIBLIOTEK
Royal Danish Library

Reflections on libraries and open infrastructure

- It's not just about the money…
- Balance between sustainability and disruptive innovation
- Shift in focus away from local to global
- What role do libraries play in a long-term solution?

Created by Gülce Akdogan
from Noun Project

Questions?