

# Building a Global Knowledge Commons: The Role of Open Access Repositories

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# Factsheet



- COAR was founded in 2009 as an international association
- Office is based in Göttingen, Germany
- Members & Partners: over 120 institutions from 35 countries in Australia, Africa, Asia, Europe, North and South America
- Institutional membership fees: EUR 500





# **Executive Board**



- Eloy Rodrigues, University of Minho, Portugal (Chair)
- Carmen-Gloria Labbé, CLARA, Chilé
- Márta Virágos, University and National Library of Debrecen, Hungary
- Wolfram Horstmann, University of Göttingen, Germany
- Oya Rieger, Cornell University, United States
- Daisy Selematsela, National Research Foundation, South Africa





# Vision



A global knowledge commons based on a network of open access repositories



# **COAR** Activities



# **Global Voice**

# Alignment and Interoperability

# Capacity Building

Value-added Services







# The international publishing system is broken!



# The access problem



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### Information Culture 🔊

Thoughts and analysis related to science information, data, publication and culture.

About

Welcome to the Scientific American Blog Network, a forum for a diverse and independent set of voices to share news and opinions and discuss issues related to science. For more information see our About page and Guidelines....more

### ADVERTISEMENT

### Why are journals so expensive?

By Bonnie Swoger | September 26, 2012 | - 8

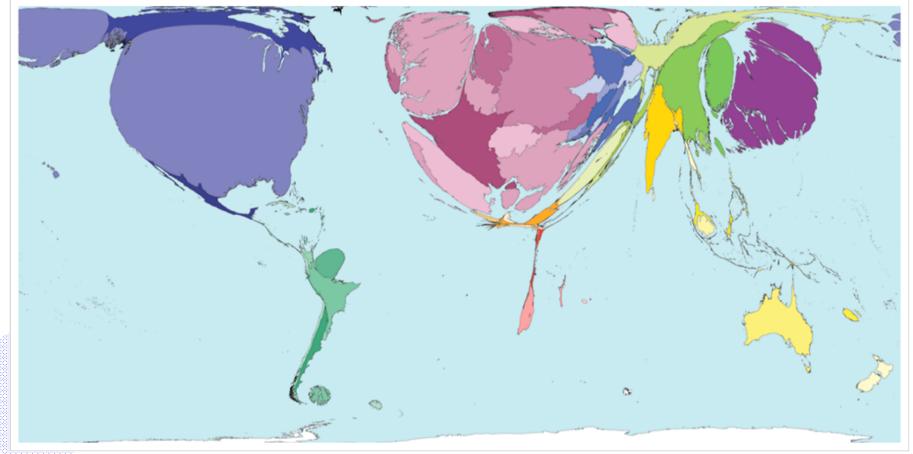
This morning, at minute 48 of a 50 minute information literacy session for an introductory biology class, a student asked me one of those seemingly innocuous questions,

"Why are journals so expensive?"



# The participation problem





From: The World of Scientific Output According to Thomson's ISI Science Citation Index (2007)







"The pressure to publish in "luxury" journals encouraged researchers to cut corners and pursue trendy fields of science instead of doing more important work."

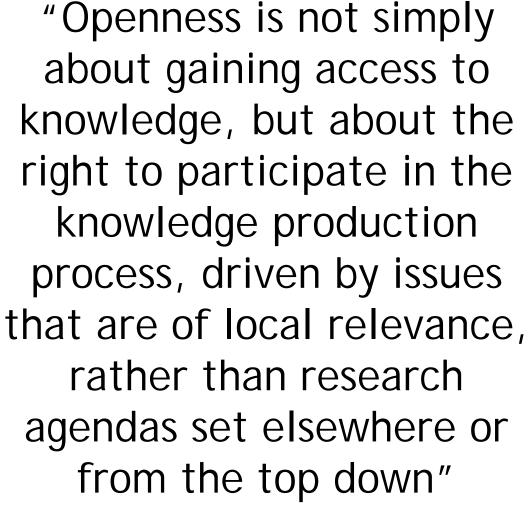








Leslie Chan





# The gold road





### BUSINESS MODELS, COMMERCE, CONTROVERSIAL TOPICS, ECONOMICS, OPEN ACCESS, RESEARCH

## Is it True that Most Open Access Journals Do Not Charge an APC? Sort of. It Depends.

POSTED BY DAVID CROTTY · AUG 26, 2015 · 25 COMMENTS

FILED UNDER APC, BUSINESS MODELS, DOAJ, OPEN ACCESS

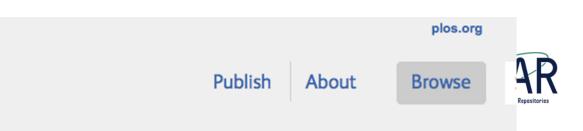




# These are print "legacy" problems







🔓 OPEN ACCESS 👔 PEER-REVIEWED

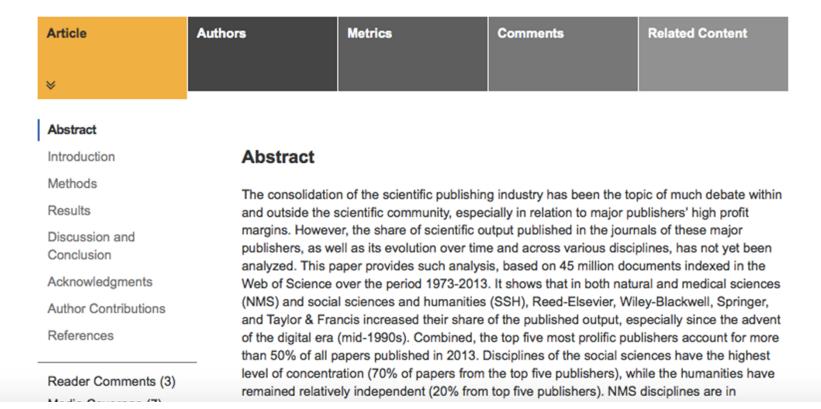
PLOS ONE

RESEARCH ARTICLE

### The Oligopoly of Academic Publishers in the Digital Era

Vincent Larivière I , Stefanie Haustein, Philippe Mongeon

Published: June 10, 2015 • DOI: 10.1371/journal.pone.0127502



# Research is increasingly global!



**GÉANT Global Connectivity Map** 



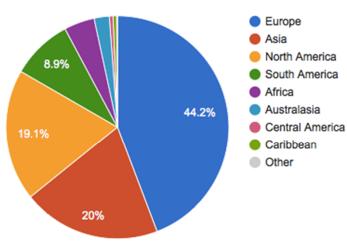
# "Green" open access has arrived



### OA Policy Requirements - Pasteur4OA

Criterion (Green OA)	Number of policies	Criterion (Gold OA)	Number of policies
Deposit in repository required (Green OA)	381	OA publishing required	2
Deposit in repository requested	140	Recommended alternative to Green OA	97
Deposit in repository not specified	141	Permitted alternative to Green OA	101
		Not specified/other	463
Total	663		663

Table 3: Open Access policies: Green and Gold OA criteria



### Proportion of Repositories by Continent - Worldwide

### OA Publisher Archiving Policies

RoMEO colour	Archiving policy	Publishers	%
green	Can archive pre-print and post-print	827	38
blue	Can archive post-print (ie final draft post-refereeing)	730	34
yellow	Can archive pre-print (ie pre-refereeing)	137	6
white	Archiving not formally supported	472	22

Total = 2988 repositories

OpenDOAR - 13-Oct-2015



At COAR, we believe that a global network of repositories is a crucial part of the solution to improve both the access and visibility gaps.





#9: Local infrastructure that is sustainable and inclusive

(Open, distributed systems, like the Internet, are more flexible, sustainable and less likely to fail)







# From repositories to repository networks



# But...



Existing networks are being developed based on different policies, objectives, requirements, metadata standards and vocabularies

...creating SILOS





# Aligning Repository Networks







# Areas of alignment



- 1. Strategic
  - Coordinating policy and strategy
- 2. Technical and semantic interoperability
  - Metadata schemas
  - Standard vocabularies
- 3. Services
  - Usage statistics
  - Routers/brokers, harvesting and curation technologies
  - Peer review on top of repository networks





# Strategic activities

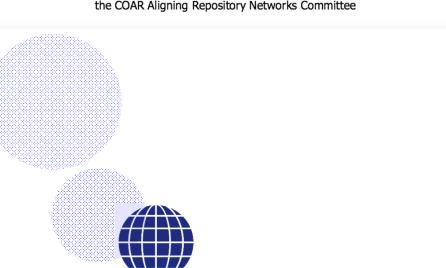




### Promoting Open Knowledge and Open Science Report of the Current State of Repositories

May 21, 2015

Produced by Confederation of Open Access Repositories (COAR) on behalf of the COAR Aligning Repository Networks Committee



### COAR Guidelines for Assessing Publisher Repository Services

- Services should include the transfer of both **full text** and **metadata** into the repository
- 2. Services should **not impose embargo times of longer than 12 months** and existing publisher embargo periods should not be lengthened as a result of the adoption of the publishers' repository services

Repositories are also encouraged to seek licenses that enable the re-use and full-text mining of content once embargo periods are over.



# Embargo periods



<u>COAR Statement on Embargo Periods</u>: "Embargo periods dilute the benefits of open access policies and we believe that, if they are adopted, they should be no more than 6 months for the life and physical sciences, 12 months for social sciences and humanities."

<u>Statement against Elsevier's Sharing Policy</u>: In their new policy, Elsevier has placed greater restrictions on depositing into institutional repositories and imposes embargo periods of to up to 48 months

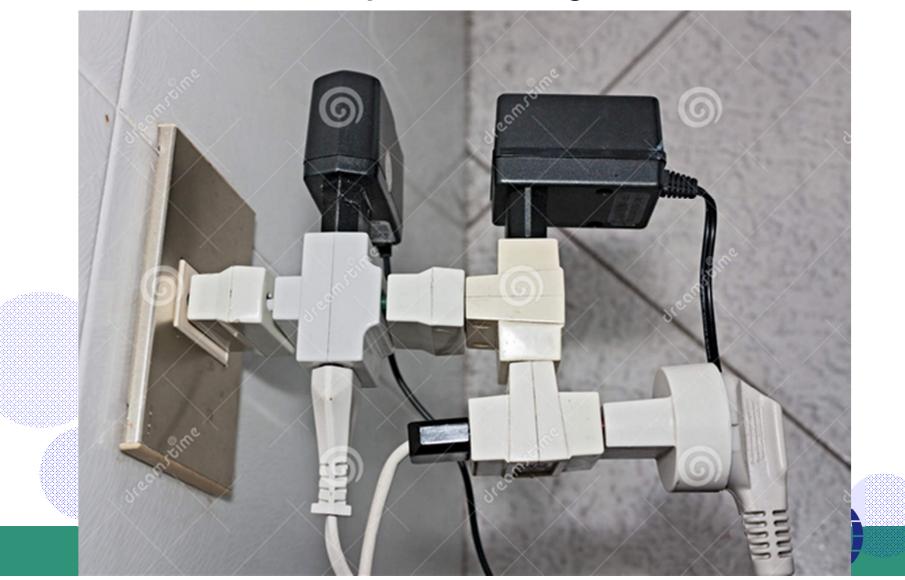
• More than 3000 signatories





# Technical and semantic interoperability





# Metadata and vocabularies for OA repositories



Funding agency	Different approaches
Project/grant number	Different approaches
Author name	$\checkmark$
Output types	Controlled vocabularies being
	proposed by COAR
Publication date	$\checkmark$
Open access status	Different approaches
Embargoes	
Licenses	
Unique identifier for publication	$\checkmark$
Jurisdictional information	Ø
Institution	Ø





# **COAR Controlled Vocabularies**



Develop and maintain a set of international controlled vocabularies (into English, Chinese, Dutch, French, Portuguese and Spanish)

- Beginning with "resource type"
- e.g. Journal article, book, theses, etc.

<u>https://www.coar-repositories.org/activities/repository-</u> interoperability/ig-controlled-vocabularies-for-repositoryassets/deliverables/









# Usage statistics (impact measures) Journal journal Google index Reports academ altmetrics scholarship an half-life luence analytics factor **Eigenfactor impact-5** articleJCR Citation author Broker/router SCImago services ... overlay for repositories

# DATA

# 90% of world's data has been generated over last two years

http://www.sciencedaily.com/releases/ 2013/05/130522085217.htm



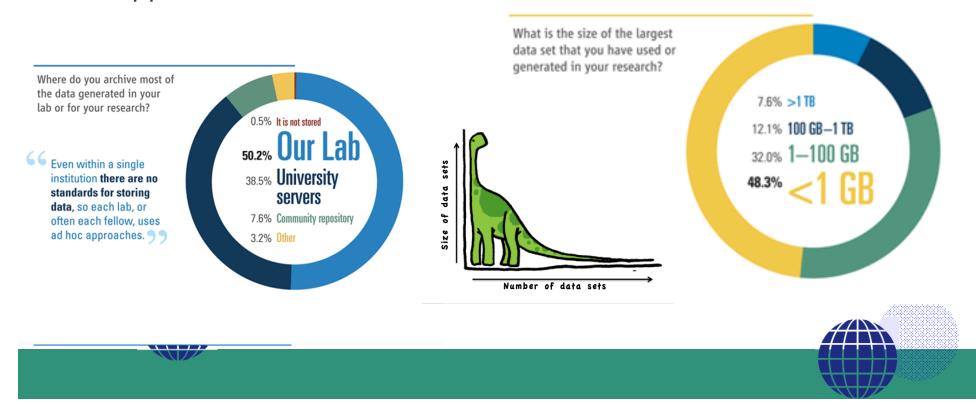
Image: Erik Fitzpatrick licensed CC BY 2.0



# Value-added services



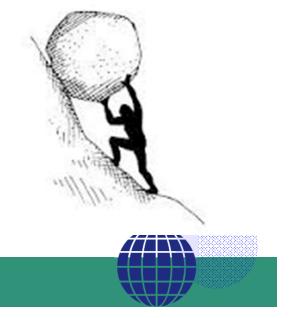
**Research data** A 2011 survey by *Science*, found that 48.3% of respondents were working with datasets that were less than 1GB in size and over half of those polled store their data only in their laboratories. *Science* 11 February 2011: Vol. 331 no. 6018 pp. 692-693 *DOI:* 10.1126/science.331.6018.692





# Challenges

- Geography and language
- Different levels of implementation
- Divergent missions and objectives
- Local priorities, not global
- Lack of resources









COAR is a mechanism to facilitate collaboration, build confidence and develop relationships







Thank you!

COAR Meeting in Portugal 2015

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