

Open Access / Open Data: *Similarities and Differences*



Stevan Harnad

**Expert Conference on
Open Access and Open Data**

German National Library of
Medicine, Cologne

Open Access is:

- Free,
- Immediate
- Permanent
- Full-Text
- On-Line
- Access

Open Access to What?

~2.5 million articles yearly

~25,000 peer-reviewed journals

1. Books

2. Textbooks

3. Magazine articles

4. Newspaper articles

5. Music

6. Video

7. Software

8. "Knowledge"

9. Data

10. Unrefereed Preprints

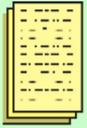
Limited Access: Limited Research Impact

Impact cycle

begins:
Research is done



Researchers write
pre-refereeing
"Pre-Print"



Submitted to Journal

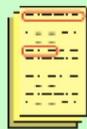


Pre-Print reviewed by Peer
Experts – "Peer-Review"



Pre-Print revised by
article's Authors

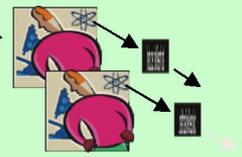
Refereed "Post-Print" Accepted,
Certified, Published by Journal



Researchers can access the
Post-Print if their university
has a subscription to the
Journal



New impact cycles:
New research builds on
existing research



12-18 Months

Maximized Research Access and Impact Through Self-Archiving

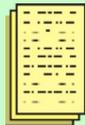
12-18 Months

Impact cycle begins:

Research is done



Researchers write pre-refereeing "Pre-Print"



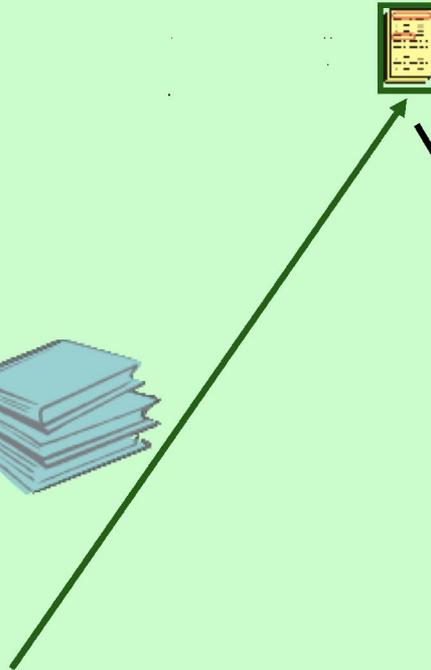
Submitted to Journal



Pre-Print reviewed by Peer Experts – "Peer-Review"



Pre-Print revised by article's Authors



Refereed "Post-Print" Accepted, Certified, Published by Journal



Researchers can access the Post-Print if their university has a subscription to the Journal



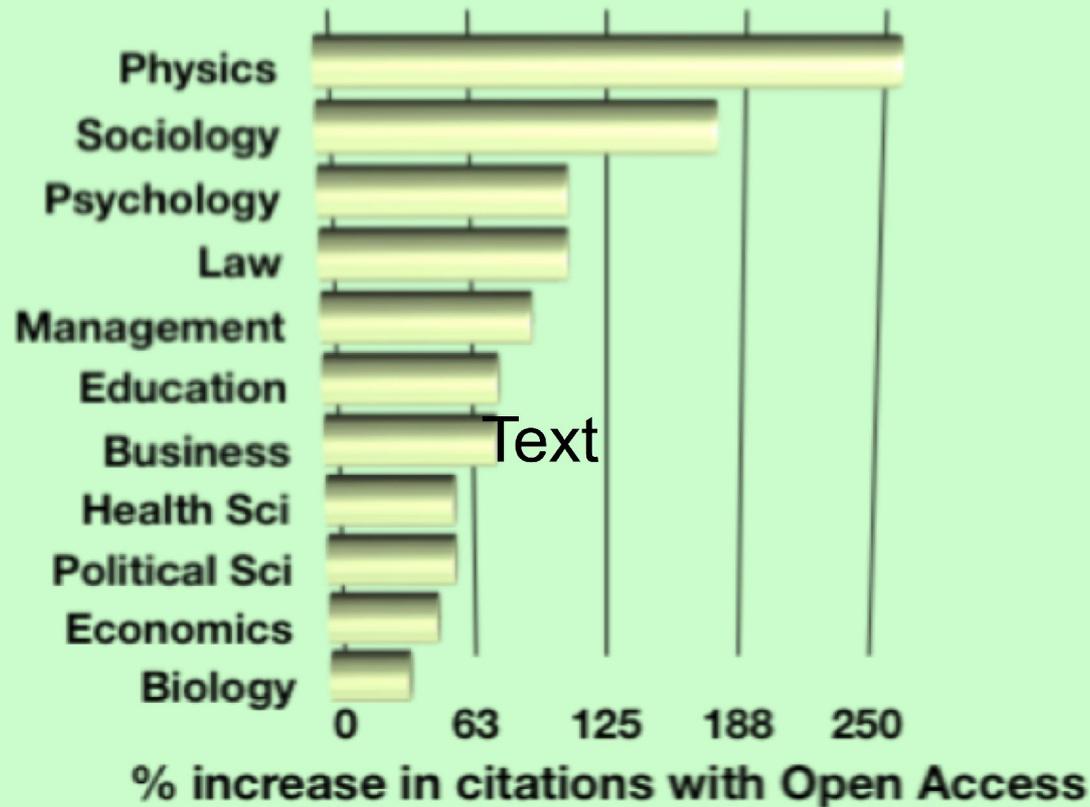
More impact cycles:



New impact cycles:
New research builds on existing research



Impact



Range = 36%-200%

(Data: Stevan Harnad and co-workers)

There are plenty of repositories

repository 66

Repository66.org Repository Maps

Hide information bar

Platform: All (1671) Country: All (1671) Registered between January 1990 and November 2010 filter results show all

Map Satellite Hybrid

Information bar

- DSpace (614)
- EPrints (313)
- BEPress (95)
- ETD-db (38)
- OPUS (27)
- Fedora (28)
- OpenRepository (14)
- Other repository (542) (Show all)

[Normal icons](#) | [Repository size icons](#)

There are **27,514,147** items held in the 1671 repositories on this map.

Download a map for [Google Earth](#):
>> [Google Earth map](#) <<

Data provided by: [ROAR](#) & [OpenDOAR](#)

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- [About the maps](#) -
- [Read the Repository map mashup blog](#) -
- [Incorrect or missing repository location?](#) -

Data last harvested: 02-Oct-2010 14:27

POWERED BY Google

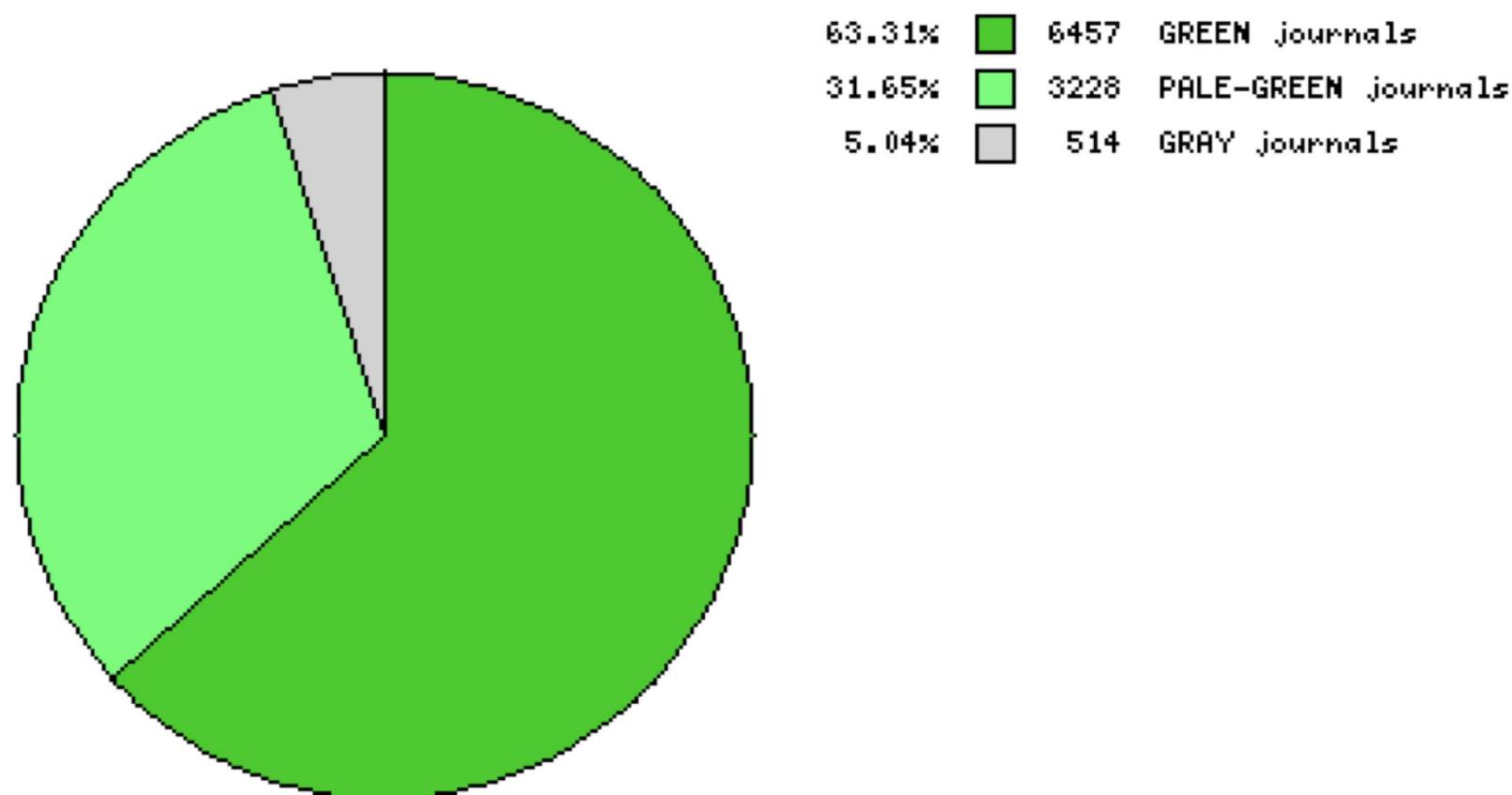
©2010 Geocentre Consulting, MapLink, Tele Atlas, Whereis(R), Sensis Pty Ltd - [Terms of Use](#)

Journal Policies - Summary Statistics So Far

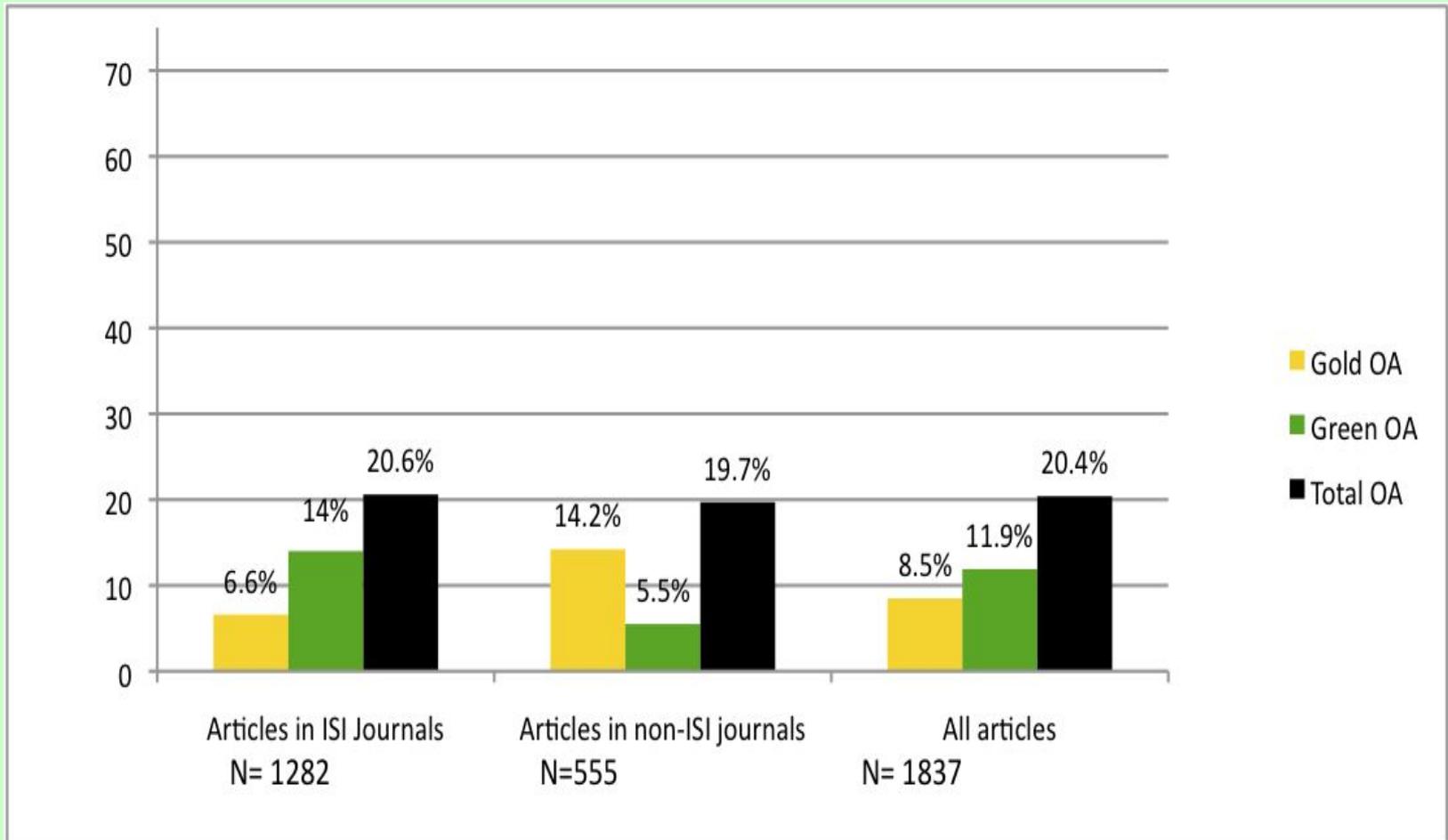
Current Journal Tally: 95% Green!

FULL-GREEN = Postprint, PALE-GREEN = Preprint, GRAY = neither yet

Total number of publishers registered at ROMEIO to date: 414

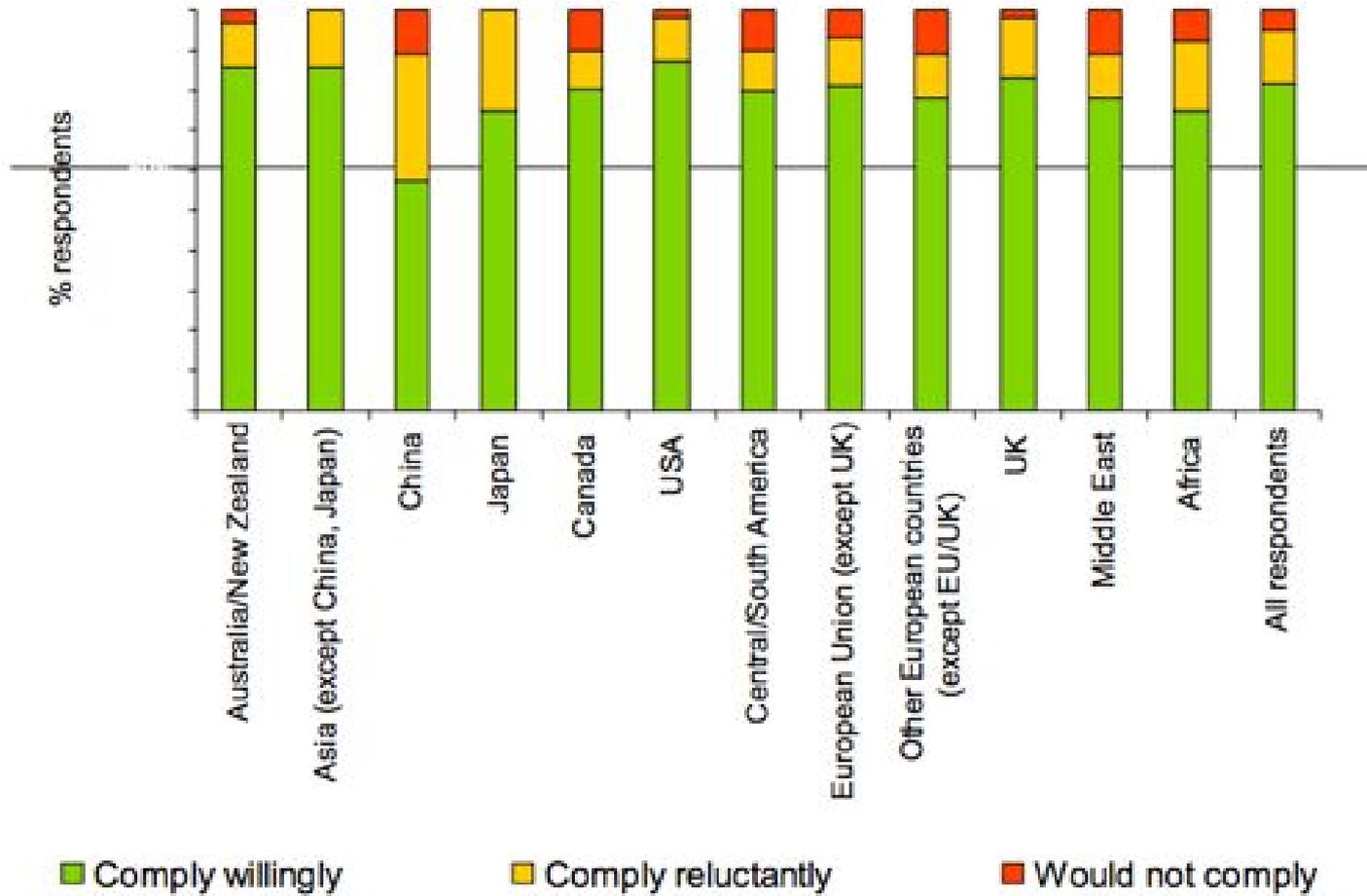


But almost all of them are almost-empty of OA's target content (20%)



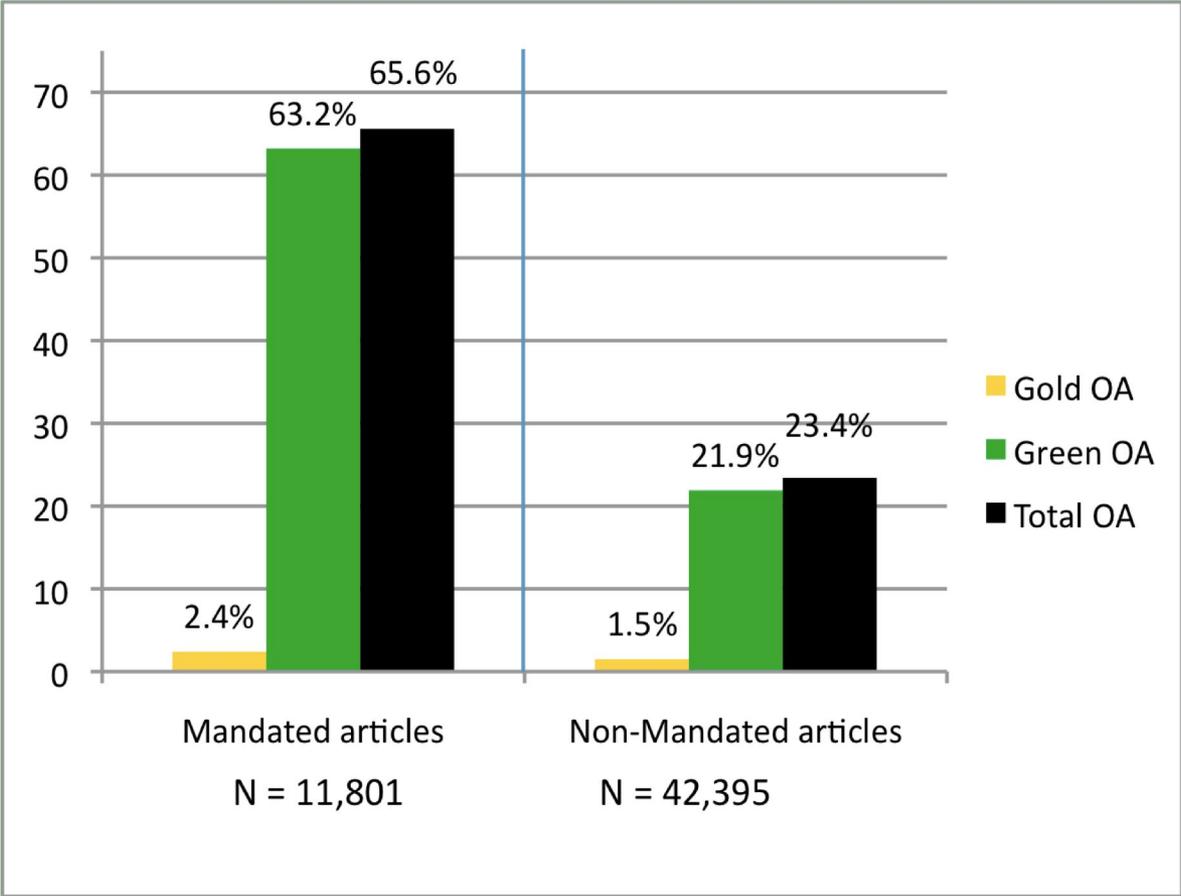
Björk et al 2010

Author Surveys (Alma Swan)

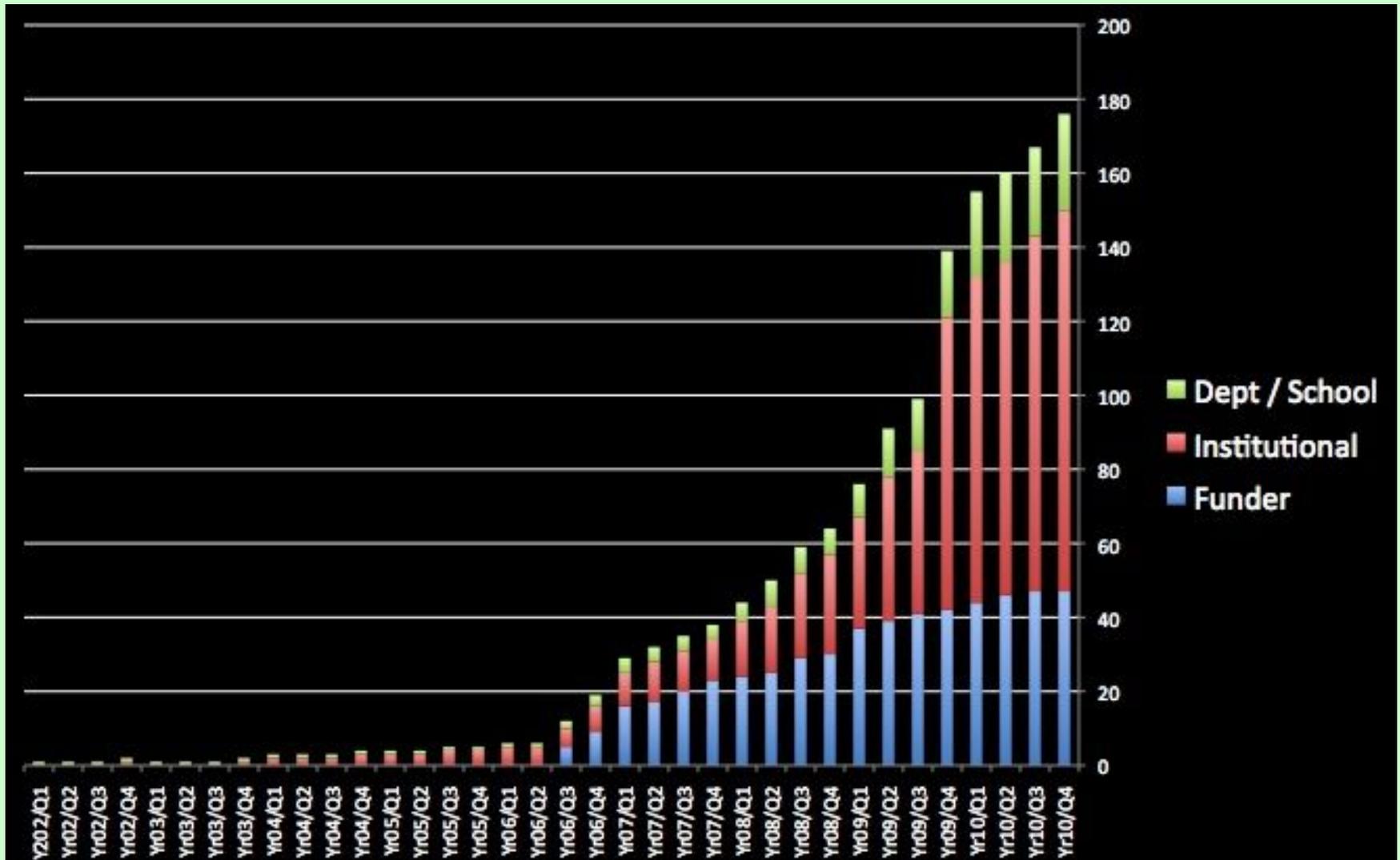


Key Perspectives Ltd

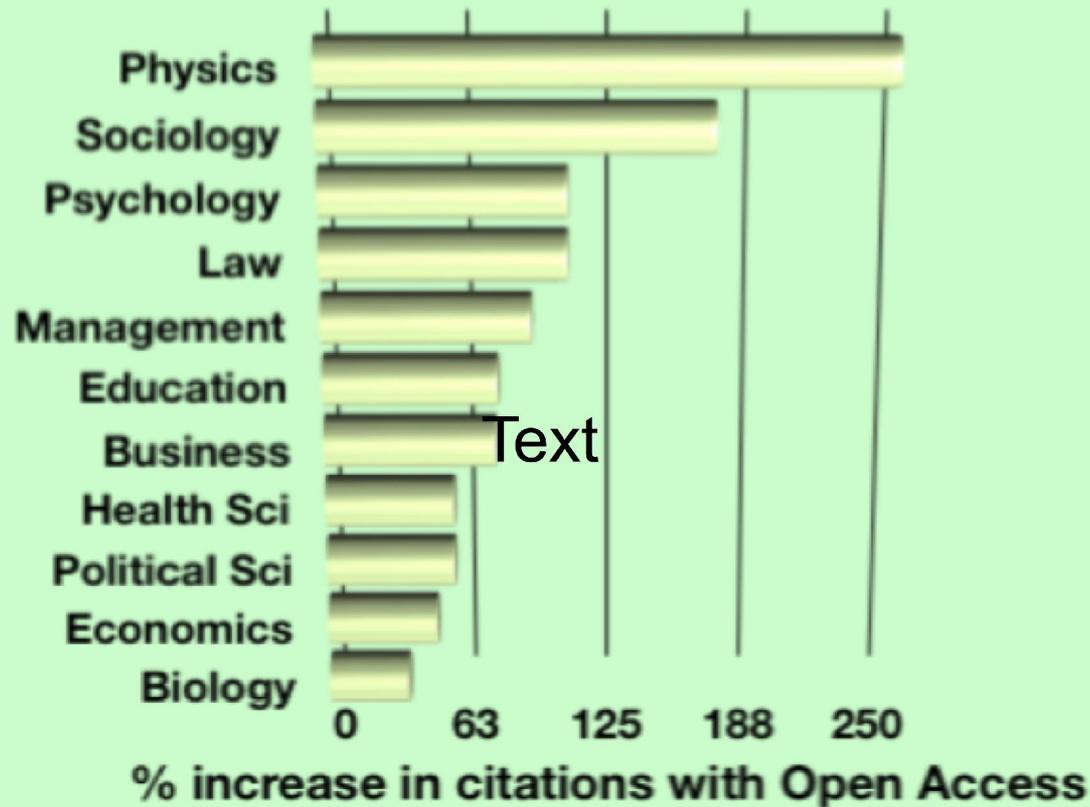
Percentage OA with and without and OA Mandate



OA Mandate Growth 2002-2010



Impact



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(Data: Stevan Harnad and co-workers)

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Science and Scholarship
≠
Data-Gathering

Exclusive First- Exploitation Rights

Sample of candidate OA-era metrics:

- **Citations (C)**
- **CiteRank (like Google)**
- **Co-citations**
- **Downloads (D)**
- **C/D Correlations**
- **Hub/Authority index**
- **Chronometrics:**
 - **Latency/Longevity**
- **Endogamy/Exogamy**
- **Book citation index**
- **Links**
- **Tags**
- **Commentaries**
- **Journal Impact Factor**
- **Data-download metrics**
- **Data-citation metrics**
- h-index (and variants)
- Co-authorships
- Publication counts
- Number of publishing years
- Semiotics (latent semantic indexing, text overlap, etc.)
- Research funding
- Students
- Prizes

Open Access: How?

By mandating Green OA Self-Archiving



OA Metrics motivate OA Mandates

And OA Mandates maximize OA Metrics



Brody et al (2007) Incentivizing the Open Access Research Web: Publication-, Data-Archiving and Scientometrics. *CTWatch Quarterly* 3(3). <http://eprints.ecs.soton.ac.uk/14418/>

Author's URLs (UQAM & Southampton):

<http://www.crsc.uqam.ca/>

<http://users.ecs.soton.ac.uk/harnad/>

BIBLIOGRAPHY ON OA IMACT ADVANTAGE:

<http://opcit.eprints.org/oacitation-biblio.html>

BOAI Self-Archiving FAQ: <http://www.eprints.org/self-faq/>

CITEBASE (scientometric engine): <http://citebase.eprints.org/>

EPRINTS: <http://www.eprints.org/>

OA ARCHIVANGELISM: <http://openaccess.eprints.org/>

ROAR (Registry of OA Repositories): <http://roar.eprints.org/>

ROARMAP (Registry of OA Repository Mandates):

<http://www.eprints.org/openaccess/policysignup/>

ROME0/EPRINTS (Directory of Journal Policies on author OA Self-Archiving): <http://romeo.eprints.org/>