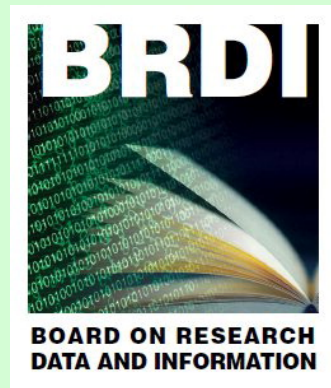


Open Access / Open Data: *Similarities and Differences*



Stevan Harnad
BRDI Symposium on Data-Sharing
NAS, Washington DC
1 December 2010



Expert Conference on Open
Access and Open Data
German National Library of
Medicine, Cologne
December 13-14 2010

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

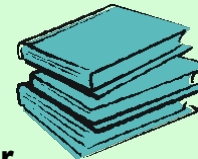
Impact cycle begins:

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

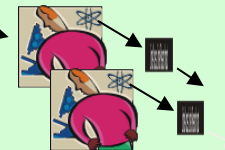
Refereed "Post-Print" Accepted, Certified, Published by Journal



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

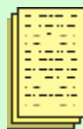
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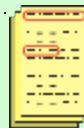


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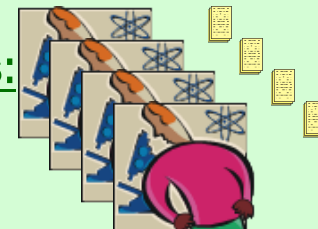
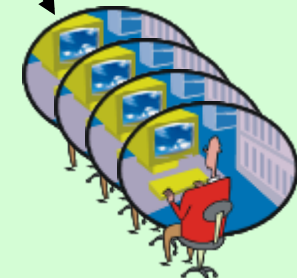
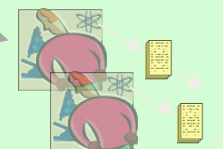


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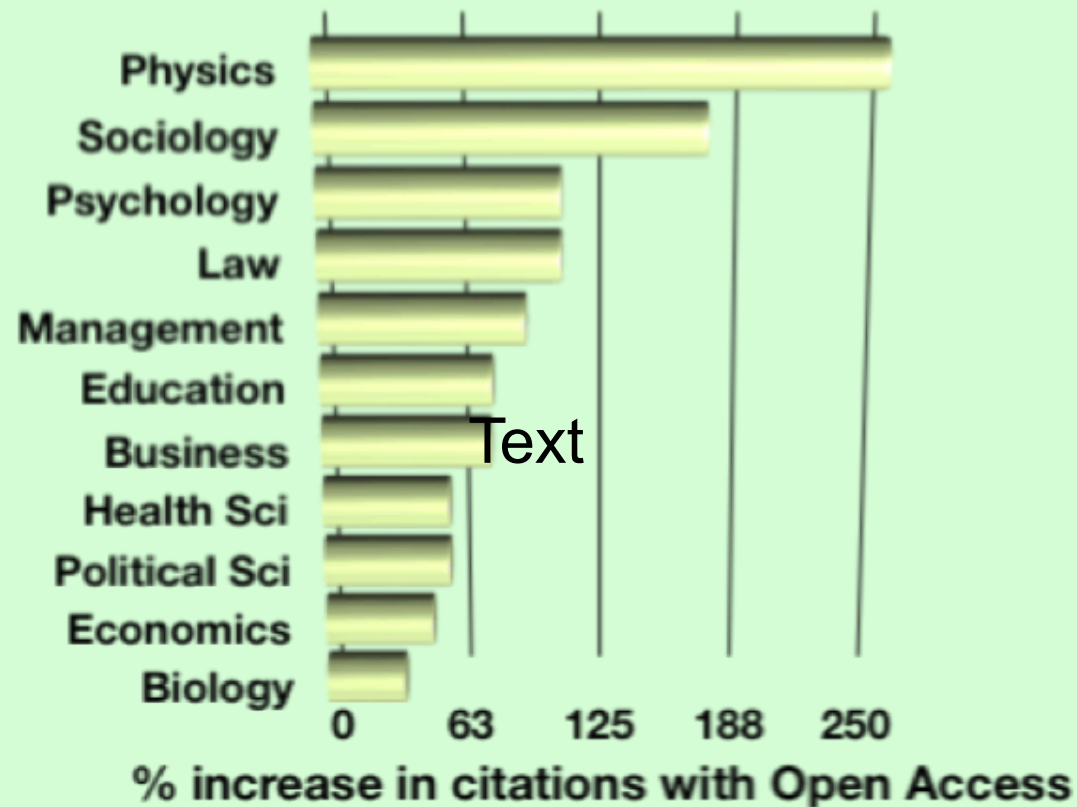


More impact cycles:

New impact cycles:
New research builds on existing research



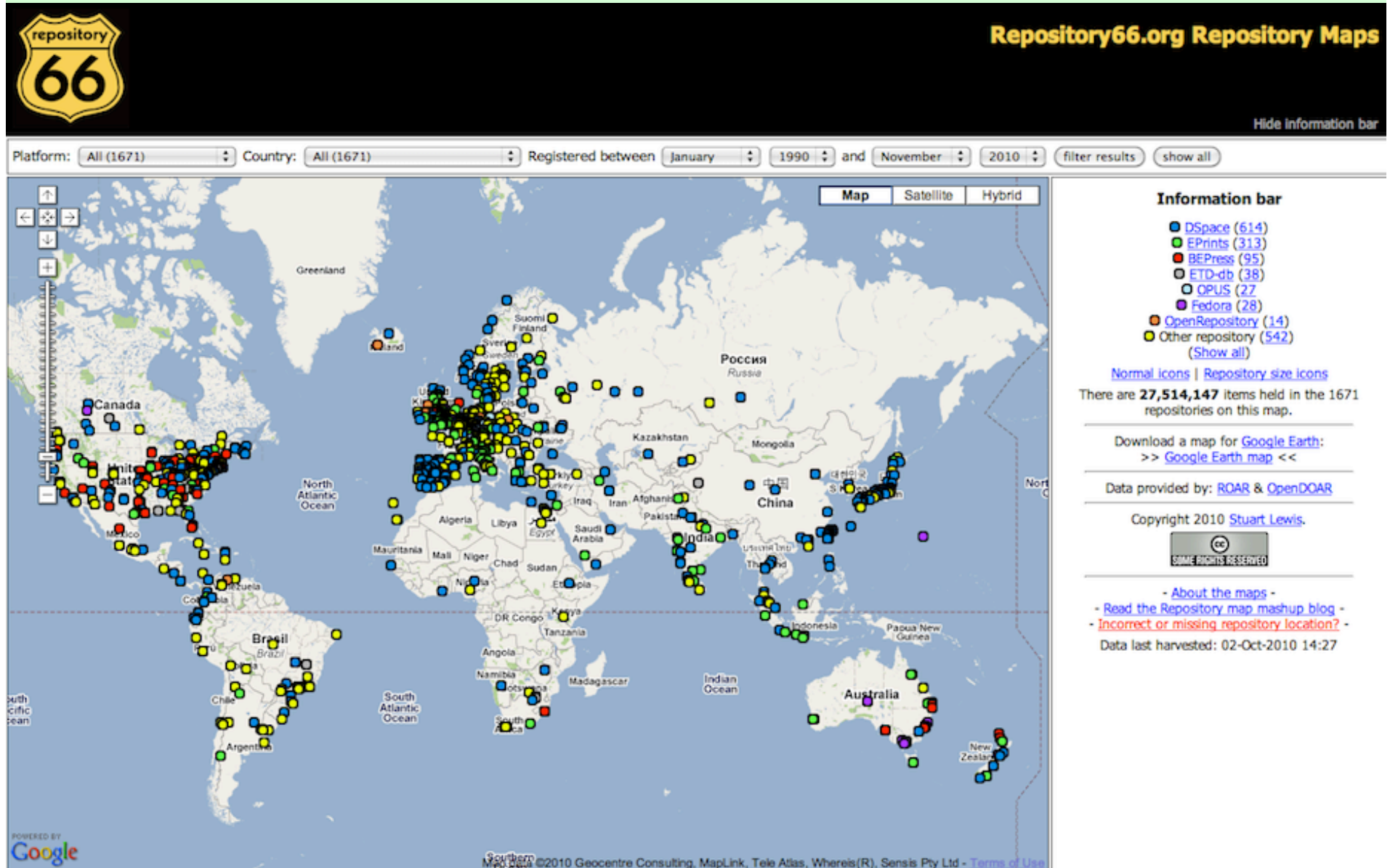
Impact



Range = 36%-200%

(Data: Stevan Harnad and co-workers)

There are plenty of repositories

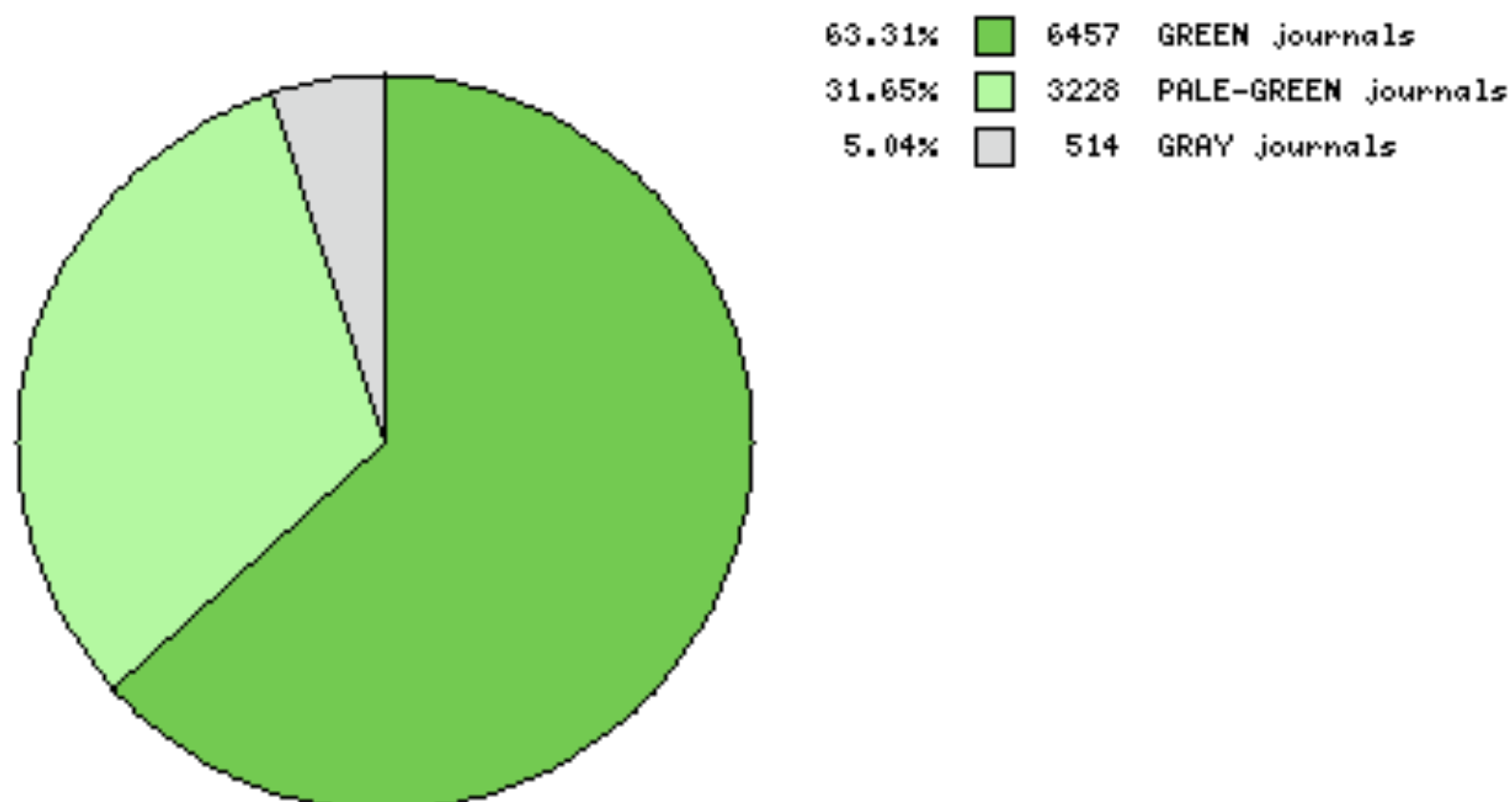


Journal Policies - Summary Statistics So Far

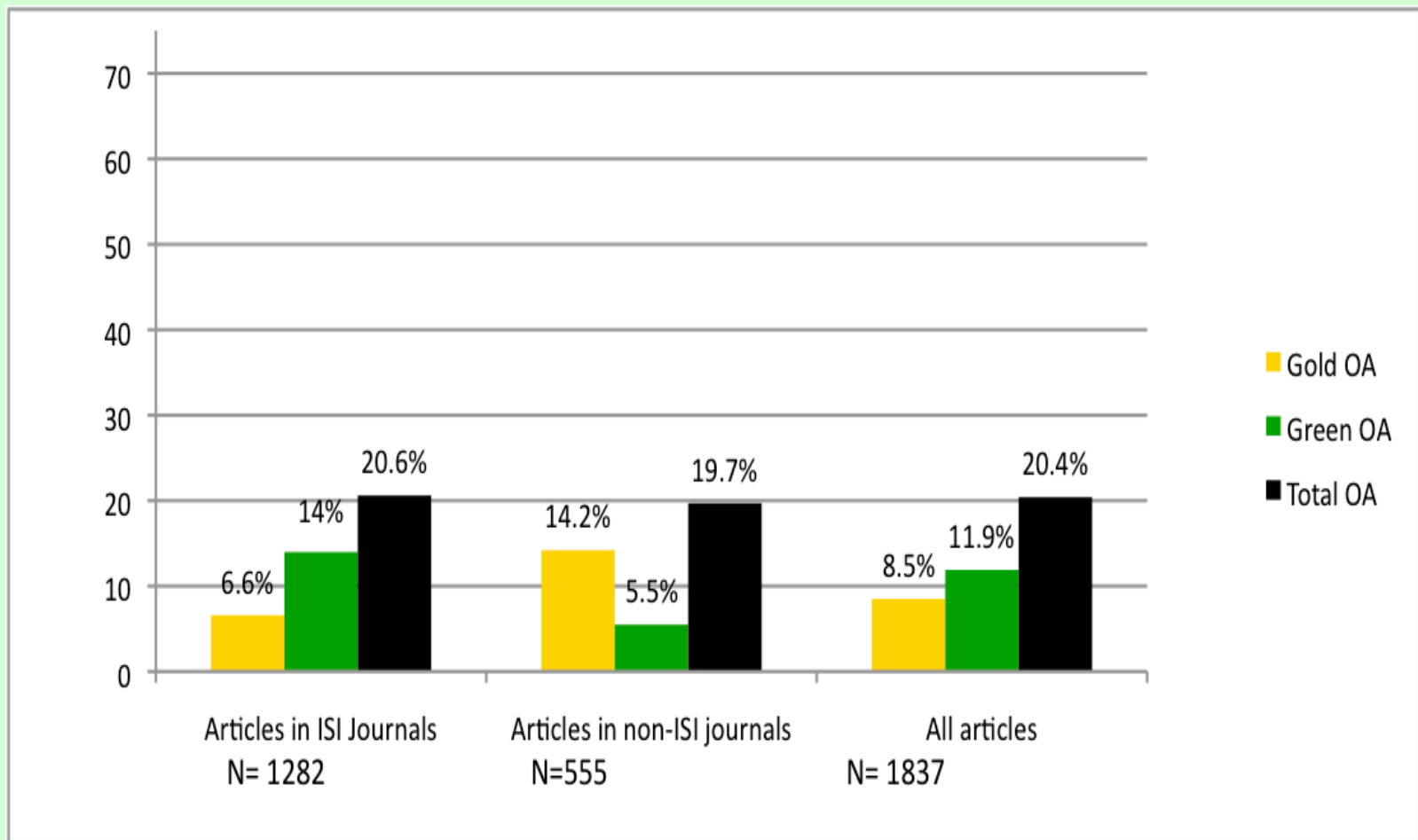
Current Journal Tally: 95% Green!

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

Total number of publishers registered at ROME0 to date: 414

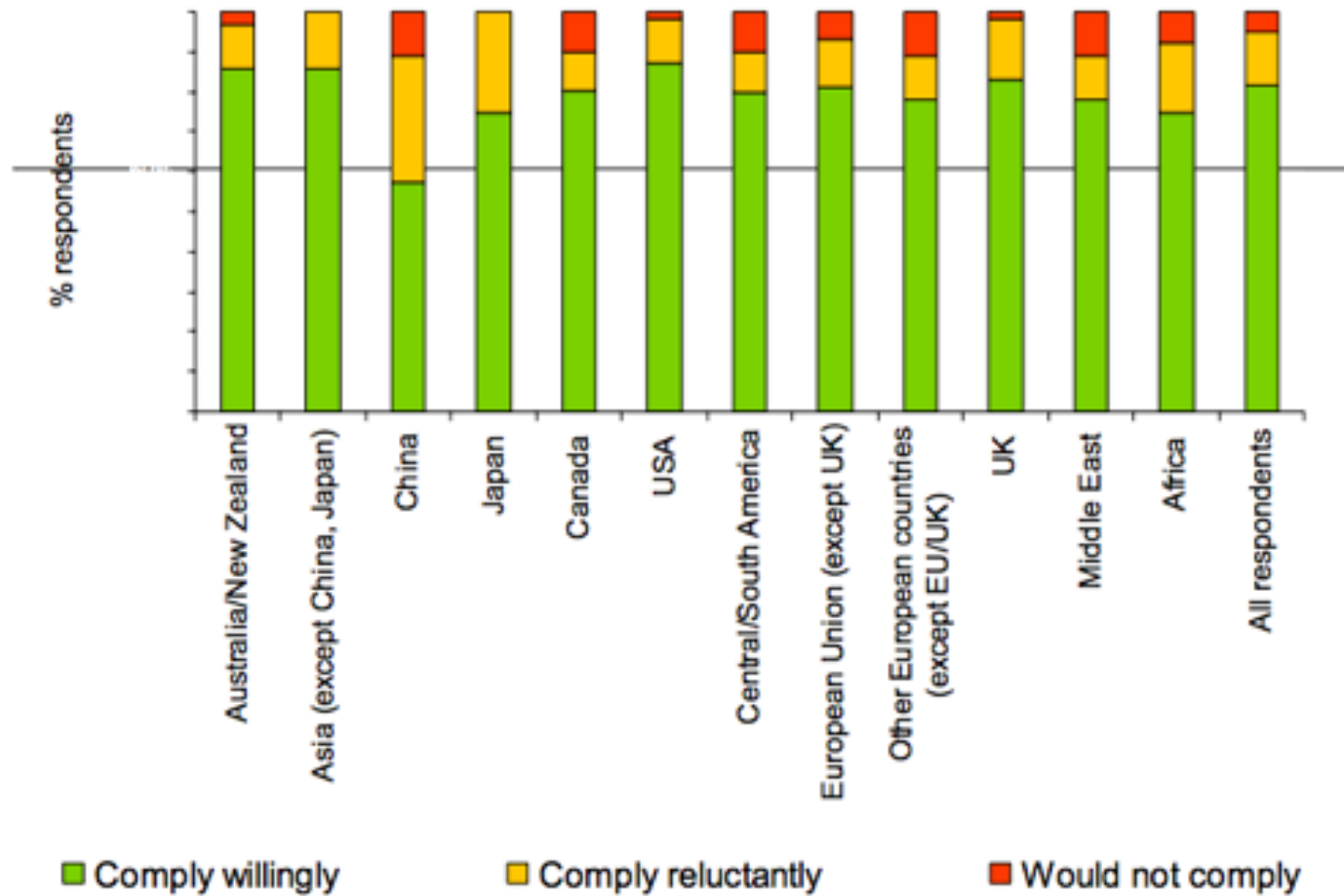


But almost all of them are almost-empty of OA's target content (20%)



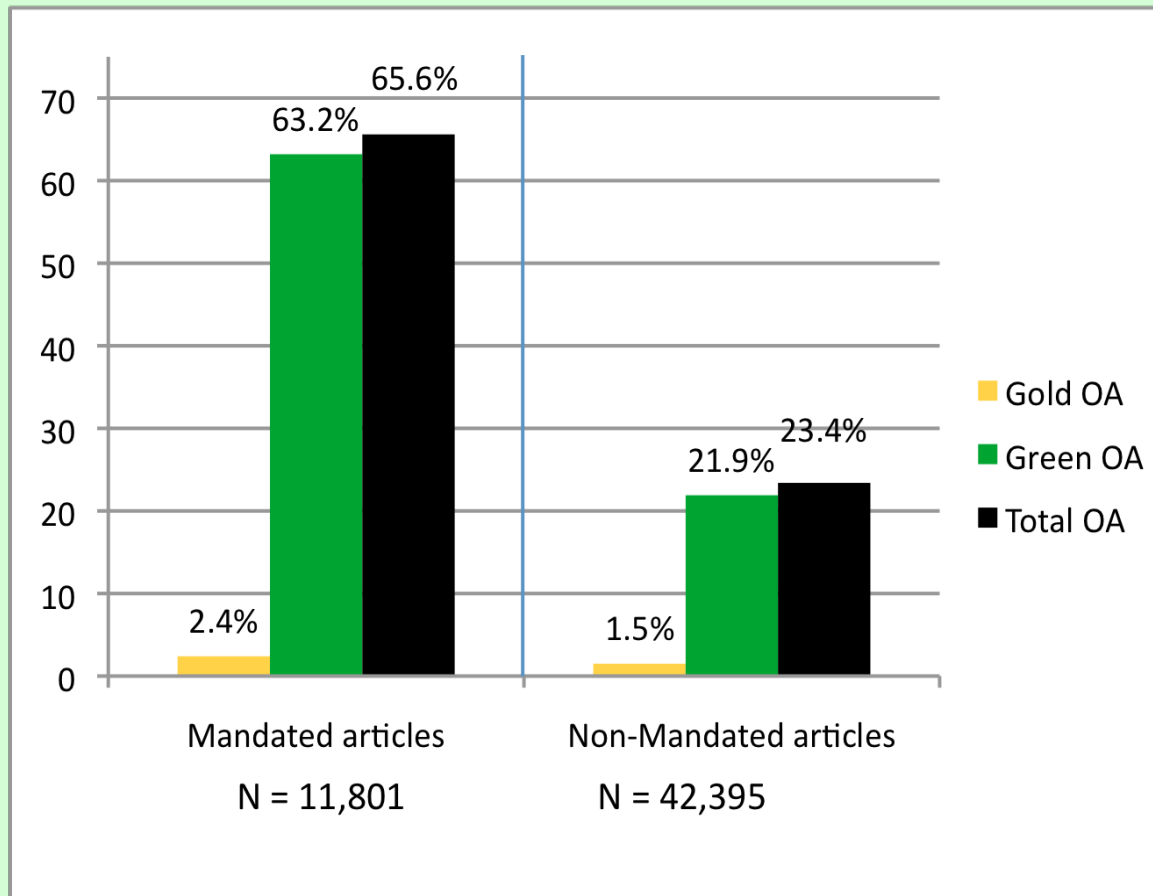
Björk et al 2010

Author Surveys (Alma Swan)



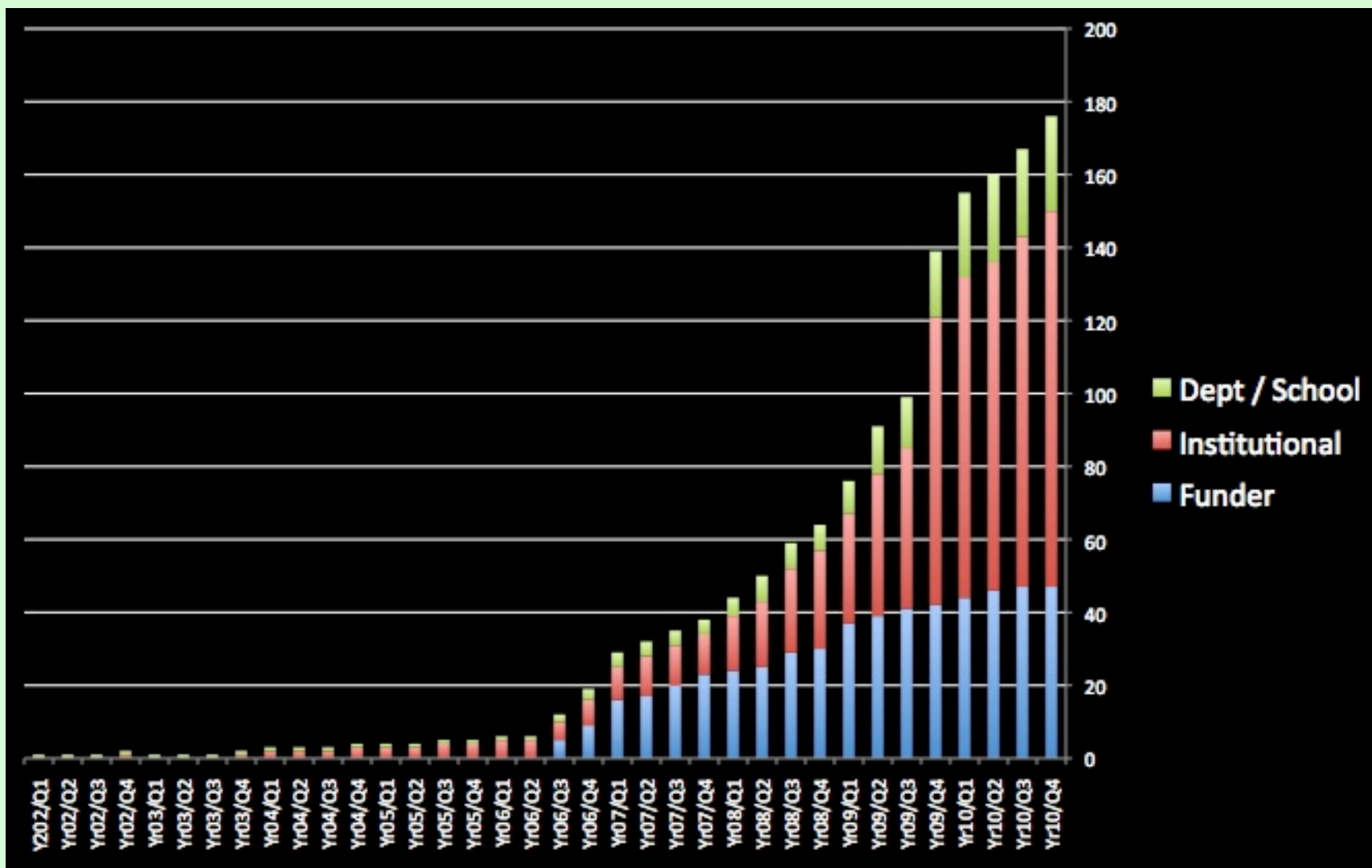
Key Perspectives Ltd

Percentage OA with and without and OA Mandate

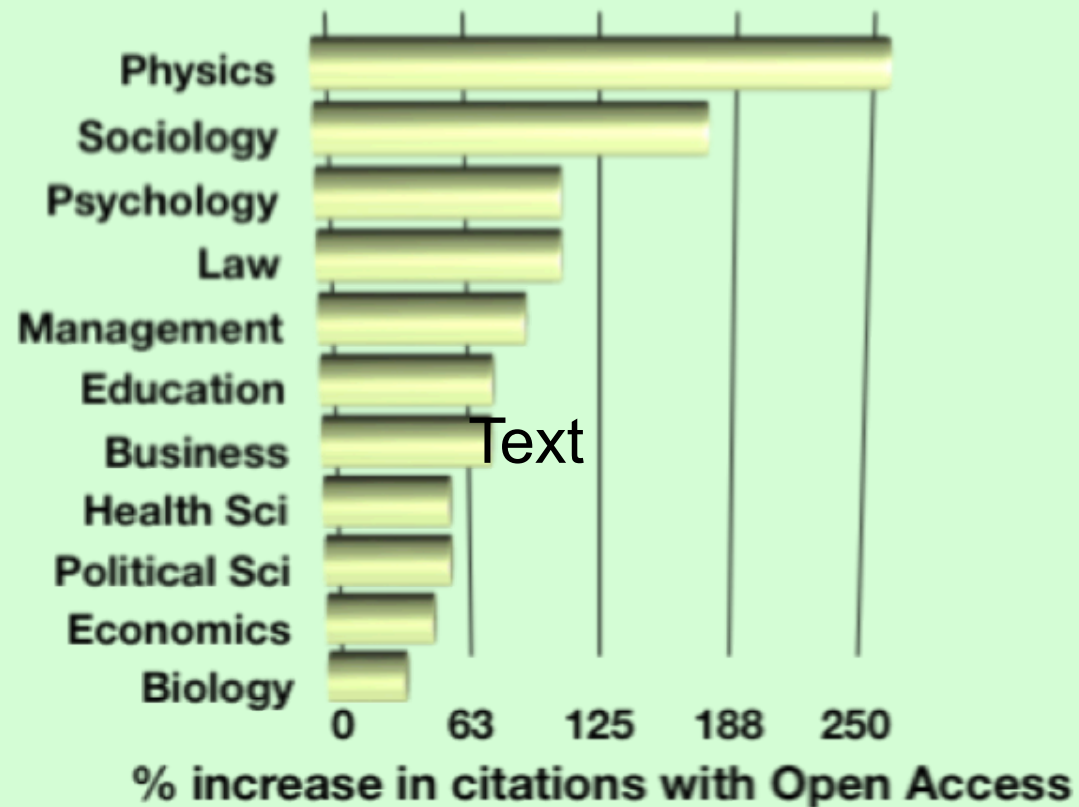


Gargouri et al 2010

OA Mandate Growth 2002-2010



Impact



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(Data: Stevan Harnad and co-workers)

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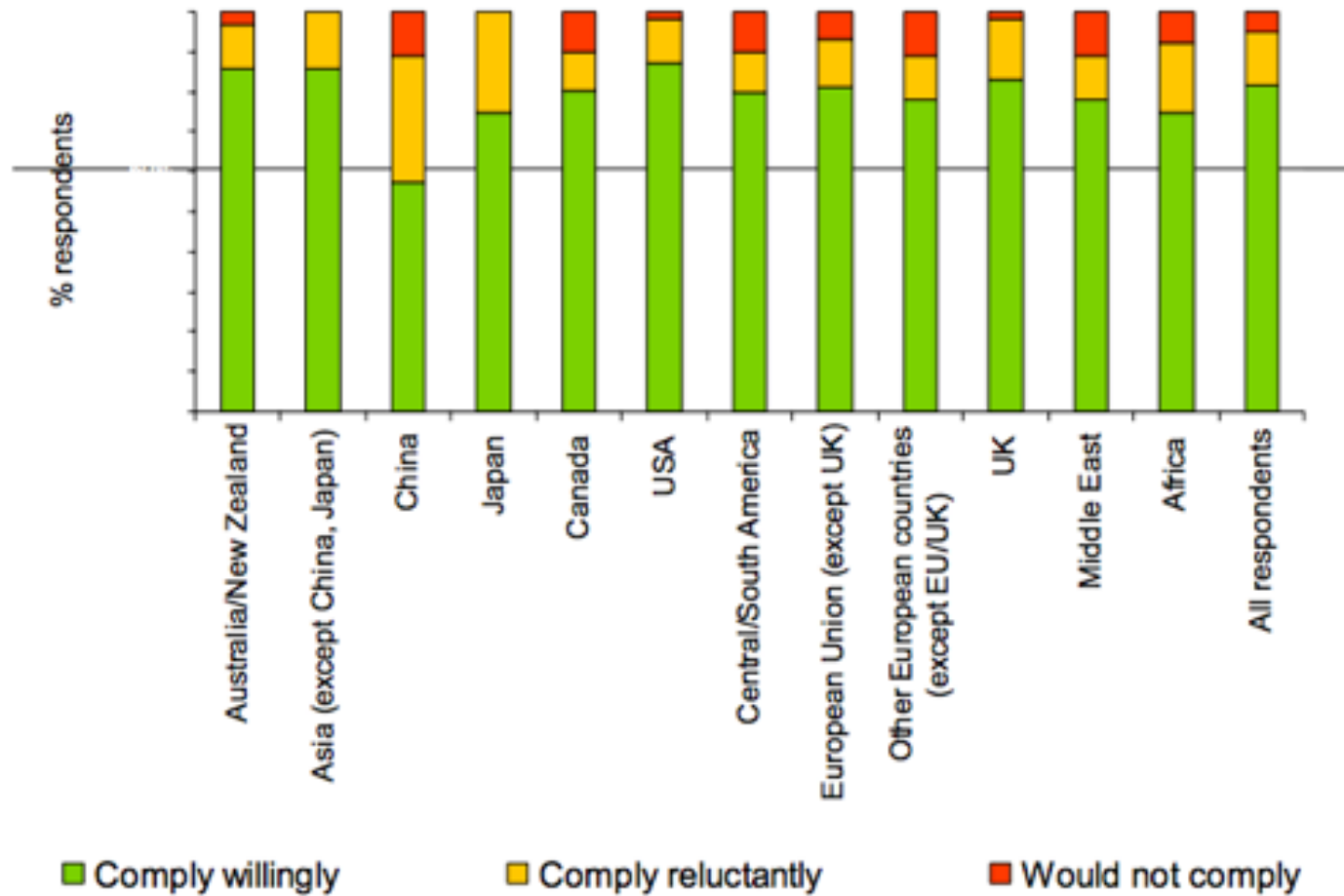
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9. Data

10. Unrefereed Preprints

Science and Scholarship
≠
Data-Gathering

Author Surveys (Alma Swan)



Key Perspectives Ltd

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
- Semiometrics (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/>

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