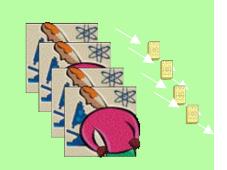
These slides were made by Tim Brody, Chawki Hajjem and Stevan Harnad (Southampton University & Uiversité du Québec à Montréal)

Permission is granted to anyone to use them to promote open access and selfarchiving as long as their source is acknowledged.

# The Research-Impact Cycle

Open access to research output maximizes research *access* maximizing (and accelerating) research *impact* 

(hence also research *productivity* and research **progress** and their *rewards*)



### 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

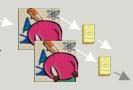




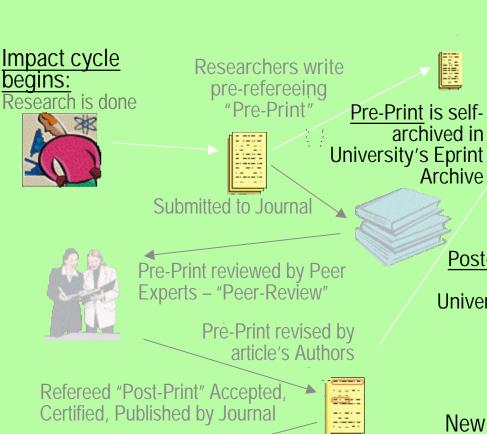
Researchers can access the Post-Print if their university has a subscription to the Journal



New impact cycles: New research builds on existing research



### Maximized Research Access and Impact Through Self-Archiving



Researchers can access the

Post-Print if their university

has a subscription to the

Journal

Post-Print is selfarchived in University's Eprint Archive

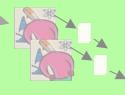


New impact cycles:
Self-archived
research
impact is greater (and
faster) because
access is maximized

(and accelerated)



New impact cycles: New research builds on existing research



# Open Access: Why?

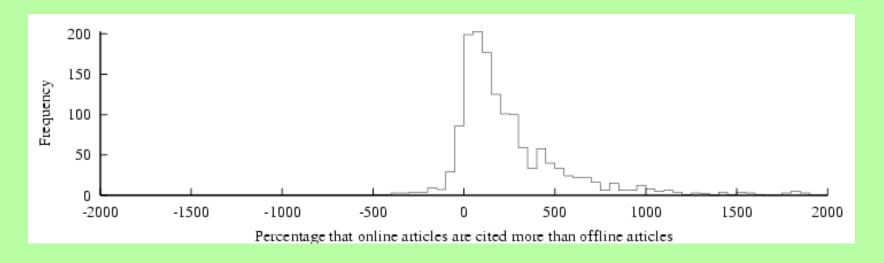
#### To maximise:

research visibility research usage research uptake research impact research progress

#### By maximising:

research access

### "Online or Invisible?" (Lawrence 2001)

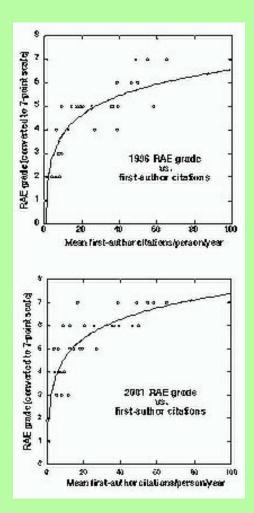


"average of 336% more citations to online articles compared to offline articles published in the same venue"

Lawrence, S. (2001) Free online availability substantially increases a paper's impact Nature 411 (6837): 521.

http://www.neci.nec.com/~lawrence/papers/online-nature01/

# Research Assessment, Research Funding, and Citation Impact



"Correlation between RAE ratings and mean departmental citations +0.91 (1996) +0.86 (2001) (Psychology)"

"RAE and citation counting measure broadly the same thing"

"Citation counting is both more cost-effective and more transparent"

(Eysenck & Smith 2002)

http://psyserver.pc.rhbnc.ac.uk/citations.pdf

# The objective of open-access self-archiving (and what will persuade researchers to provide it)

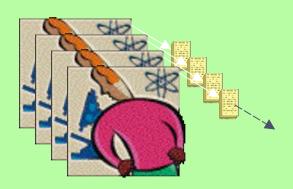
• <u>is not</u> to quarrel with, ruin or replace journals, publishers or peer review (at all)

(Self-archiving is a <u>supplement to</u>, not a <u>substitute for</u> journal publication; it is done for the sake of providing access to all would-be research-users worldwide whose institutions cannot afford the publisher's official version.)

- <u>nor</u> will researchers be persuaded to self-archive for the sake of providing access to teachers - students - the general public (and yet that will come with the territory...)
- nor will researchers be persuaded to self-archive for the sake of providing access to the Developing World (and yet that will come with the territory ...)
- <u>nor</u> will researchers be persuaded to self-archive for the sake of providing access to medical information for tax-payers (and yet that will come with the territory ...)
- nor will researchers be persuaded to self-archive for the sake of making all knowledge/information free (and yet some of that will come with the territory...)
- <u>nor</u> will researchers be persuaded to self-archive for the sake of relieving the budgetary problems of libraries (and yet <u>some relief</u> for access needs that exceed the budget will come with the territory...)

### The objective of open-access is:

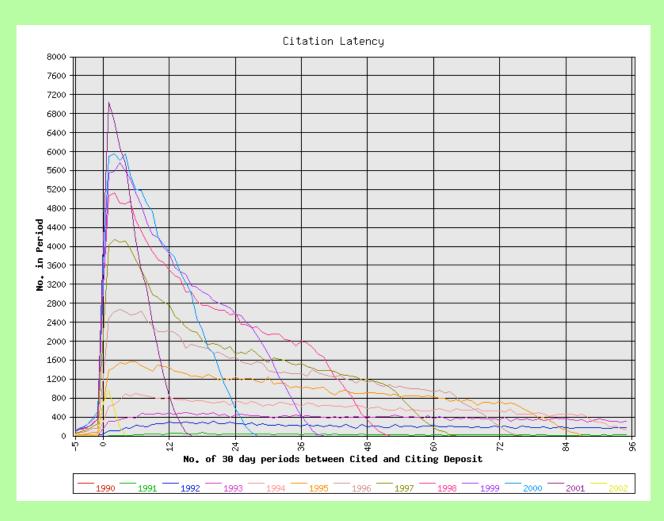
to maximize research impact



by maximizing research access



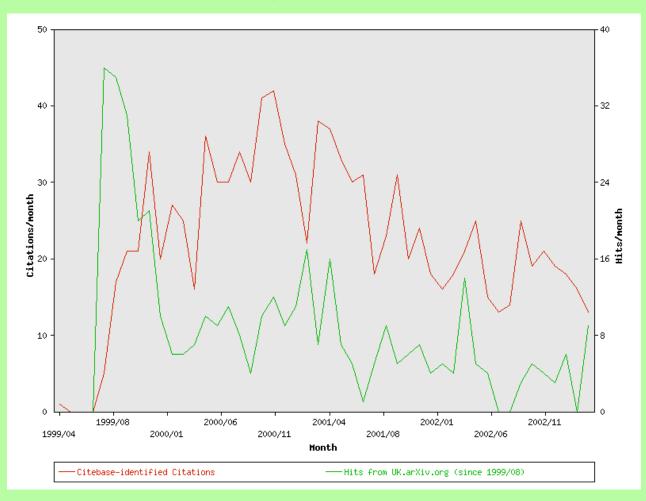
### **Changing Citation Behaviour**



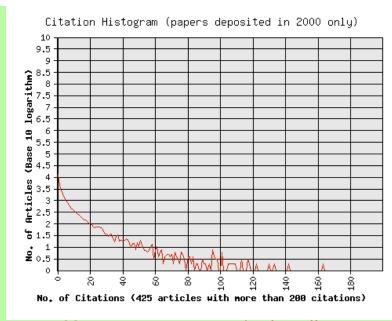
The peak latency between a paper being deposited and then cited has reduced over the lifetime of arXiv.org: This means that papers are being read and cited sooner, both as preprints and as postprints.

# Time-Course and cycle of Citations (red) and Usage (hits, green)

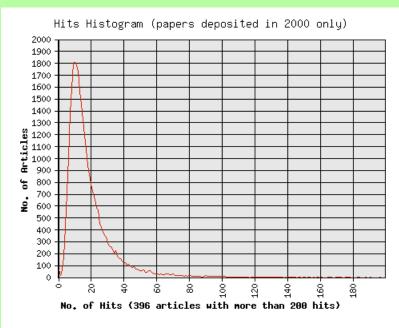
Witten, Edward (1998) String Theory and Noncommutative Geometry Adv. Theor. Math. Phys. 2:253



- Preprint or Postprint appears.
- 2. It is downloaded (and sometimes read).
- 3. Next, citations may follow (for more important papers)...
- 4. This generates more downloads...
- 5. More citations...



#### Most papers are not cited at all



Average UK downloads per paper: 10 (UK site only: 18 mirror sites in all)

#### **Usage Impact (downloads)**

#### is correlated with Citation Impact

(Physics ArXiv: **hep**, astro, cond, quantum; math, comp) <a href="http://citebase.eprints.org/analysis/correlation.php">http://citebase.eprints.org/analysis/correlation.php</a>

### downloads from first 6 months after publication predict citations 2 years after publicattion

(Quartiles Q1 (lo) - Q4 (hi))

(correlation is highest for highcitation papers/authors)

# **Open Access: What?**

Free, **Immediate** 

Permanent

**Full-Text** 

**On-Line** 

Access

## **Open Access: How?**

Deposit all institutional research article output

In institutional OAI-compliant repositories

## Open Access: How Not:

Archives without an institutional self-archiving policy (near empty, in some cases for several years)





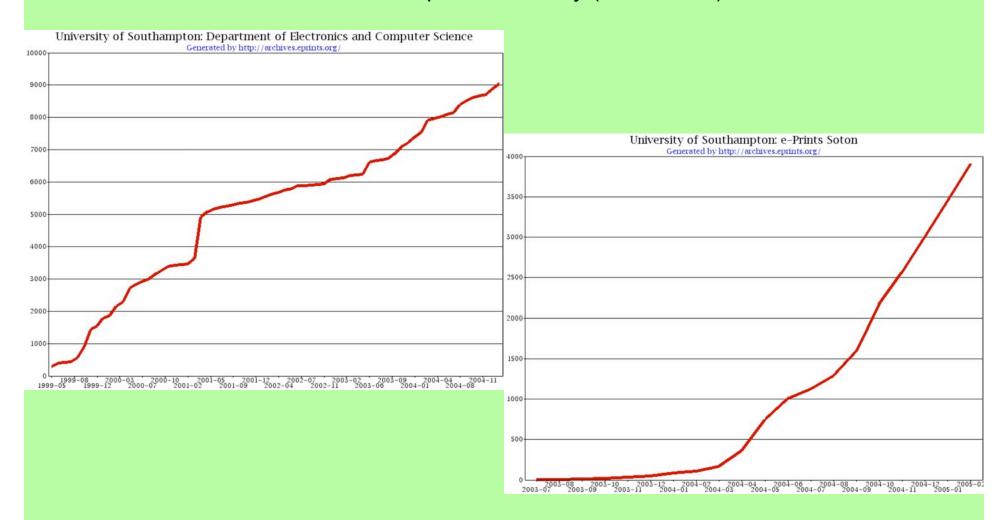




## **Open Access: How:**

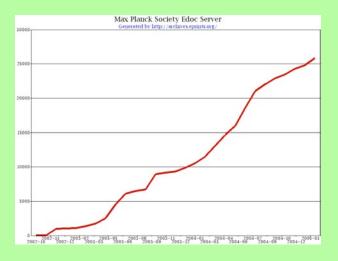
### Two archives with an institutional self-archiving policy

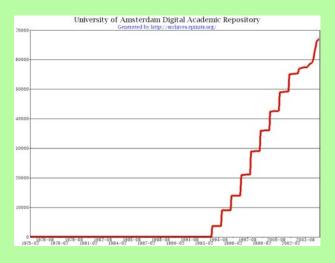
Southampton Department of Electronic and Computer Science (since 2002) and Southampton University (since 2004)

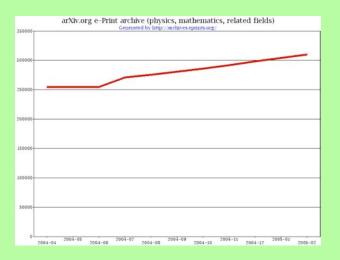


### More archives with institutional self-archiving policies:

Max-Planck Institute (Edoc) (Germany), Physics ArXiv (USA), University of Amsterdam (Netherlands), Lund University (Sweden)









## For at least 10 years now, keystrokes have been the only barrier to 100% Open Access

Hence what is now needed is an institutional keystroke policy.

# The Southampton Bureaucratic "Keystroke" Policy:

The keystrokes for depositing the metadata and full text of all Southampton research article output need to be performed (not necessarily by you)

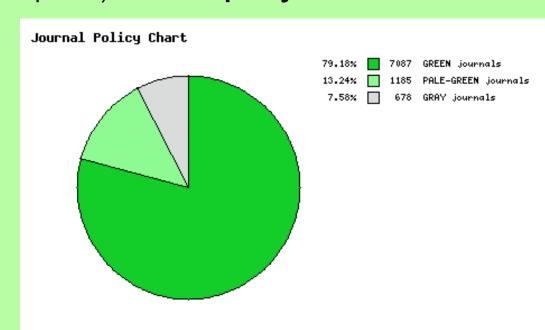
For institutional record-keeping and performance evaluation purposes

Otherwise your research productivity is invisible to the university (and RAE) bureaucracy

### Southampton Bureaucratic "Keystroke" Policy: The Nth (OA) Keystroke

The metadata and full-text need merely be **deposited**, for the bureaucratic functions (for record-keeping and performance evaluation purposes)

The Nth (OA) Keystroke is strongly encouraged (for both preprints and postprints) but it is **up to you**.



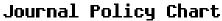
# Current Journal Tally: 92% of journals have already given their official green light to self archiving

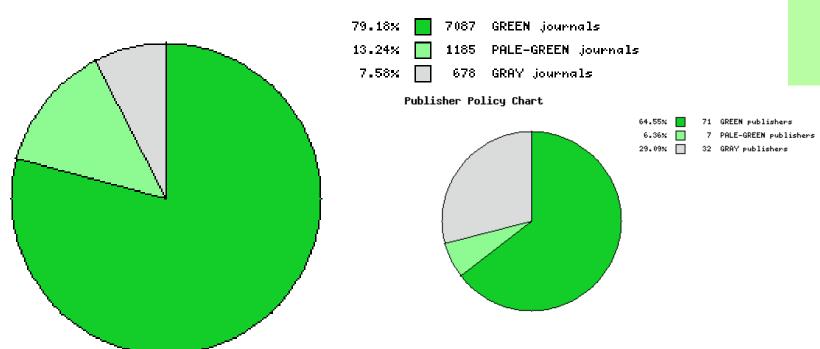
FULL-GREEN = Postprint 79%
PALE-GREEN = Preprint 13%
GRAY = neither yet 8%

Publishers to date: 110

Journals processed so far: 8950

http://romeo.eprints.org/stats.php





### What is needed for open access now:

- 1. <u>Universities</u>: Adopt a university-wide policy of making all university research output open access (via either the gold or green strategy)
- 2. <u>Departments</u>: Create and fill departmental OAI-compliant open-access archives
- 3. <u>University Libraries</u>: Provide digital library support for research selfarchiving and open-access archive-maintenance. Redirect 1/3 of any eventual toll-savings to cover open-access journal peer-review service charges
- 4. <u>Promotion Committees</u>: Require a standardized online CV from all candidates, with refereed publications all linked to their full-texts in the open-access journal archives and/or departmental open-access archives
- 5. Research Funders: Mandate open access for all funded research (via either the gold or green strategy). Fund (fixed, fair) open-access journal peer-review service charges. Assess research and researcher impact online (from the online CVs).
- 6. Publishers: Become either gold or green.

#### Institutional Archives Registry: (395 Archives, most near empty!)

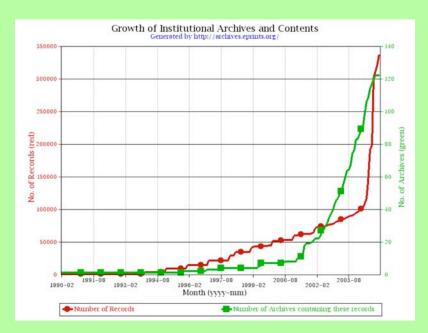
#### http://archives.eprints.org/eprints.php

#### **Archive Type**

- \* Research Institutional or Departmental (199)
- \* Research Cross-Institution (53)
- \* e-Theses (55)
- \* e-Journal/Publication (33)
- \* Database (8)
- \* Demonstration (39)
- \* Other (38)

#### Software

- \* GNU EPrints v1 & v2 165)
- \* DSpace (78)
- \* CDSWare (9)
- \* ARNO (2)
- \* DiVA (1)
- \* other (various) (188)



#### Country

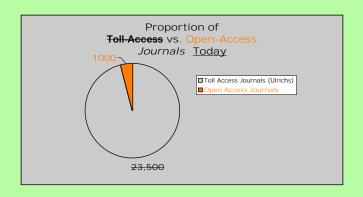
- 1 United States (129)
- 2 United Kingdom (55)
- 3 Germany (38)
- 4 Canada (28)
- 5 France (19)
- 6 Sweden (17)
- 7 Australia (16)
- 7 Netherlands (16)
- 8 Brazil (14)
- 9 Italy (13)
- 10 India (6)
- \* Japan 4)
- \* Spain (4)
- \* Hungary (4)
- \* China (4)
- \* Finland (4)
- \* Belgium (4)
- \* Denmark (4)

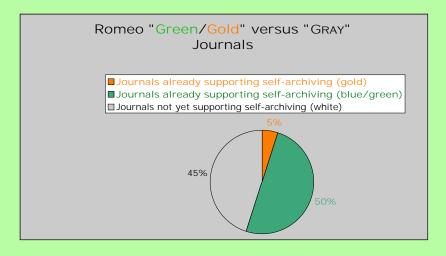
- \* Colombia (3)
- \* Mexico (3)
- \* Austria (3)
- \* Portugal (3)
- \* South Africa (3)
- \* Chile (2)
- \* Switzerland (2)
- \* Ireland (2)
- \* Singapore (2)
- \* Norway (2)
- \* Russia (1)
- \* Turkey (1)
- \* Argentina (1)
- \* Greece (1)
- \* Israel (1)
- \* Slovenia (1)
- \* Croatia (1)
- \* Namibia (1)
- \* Peru (1)
- \* Taiwan (1)

#### The optimal open-access strategy today: open-access publishing (5%)

http://www.doaj.org/ plus open-access self-archiving (95%):

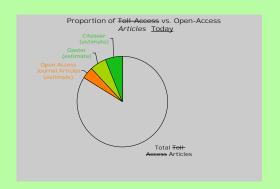
Open access is possible today for 5% of articles by publishing them in open access journals, and for at least 83% (but probably closer to 95%) of the rest by self-archiving them.

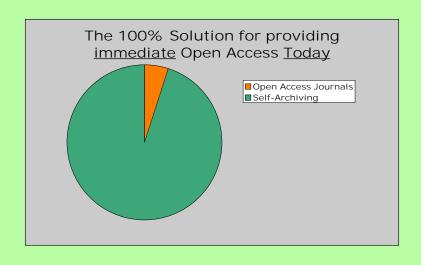




The optimal dual strategy is hence to

- (1) <u>publish your article in an open-access journal</u> if a suitable one exists and otherwise:
- (2) <u>publish your article in a toll-access journal</u> and <u>also <u>self-archive it</u> in your institutional openaccess eprint archive.</u>

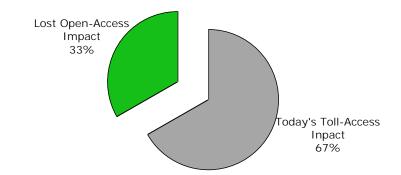




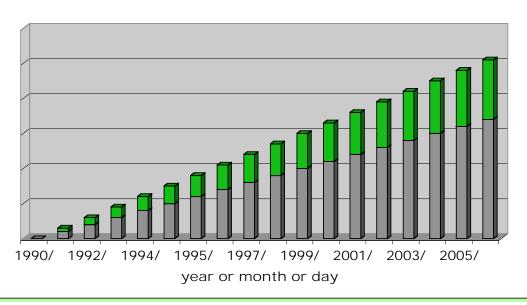
# Quo usque tandem patientia nostra...?

How long will we go on letting
our cumulative
daily/monthly/yearly researchimpact losses grow,
now that the online medium has
at last made this all preventable?

What we stand to gain once we provide Open Access (assuming minimal 50% OA Advantage)



Our cumulative yearly/monthly/daily impact losses as long as we keep delaying Open Access (assuming even only a minimal 50% OA advantage)



open-access impacttoll-access impact

# The two open-access strategies: Gold and Green

# Open-Access Publishing (OApub) (BOAl-2)

- Create or Convert 23,000
   open-access journals (1000
   exist currently)
- 2. Find funding support for open-access publication costs (\$500-\$1500+)
- 3. Persuade the authors of the annual 2,500,000 articles to publish in new open-access journals <u>instead</u> of the existing toll-access journals

# Open-Access Self-Archiving (OAarch) (BOAI-1)

 Persuade the authors of the annual 2,500,000 articles they publish in the existing toll-access journals to <u>also</u> self-archive them in their institutional open-access archives.



### **Dual Open-Access Strategy**

GREEN (95%):

Publish your article in the toll-access journal of your choice (currently 23,500, >95%) <a href="http://romeo.eprints.org/stats.php">http://romeo.eprints.org/stats.php</a>

OR

GOLD (5%):

Publish your article in an open-access journal if/when a suitable one exists (currently 1500, <5%) <a href="http://www.doaj.org/">http://www.doaj.org/</a>

### and

deposit all your articles
-- GREEN and GOLD -in your own institutional repository

http://www.publications.parliament.uk/pa/cm200304/cmselect/cmsctech/399/39903.htm

### To Maximize Research Impact:

#### **Research Funders:**

- 1. Mandate open access provision for all funded research via the gold or green strategies
- 2. (Help cover open-access journal charges)

#### **Research Institutions:**

- 1. Mandate open access provision for all research output via the gold or green strategies
- 2. (Libraries redirect 1/3 of any eventual toll-cancellation windfall savings toward funding openaccess journal charges)

#### Outcomes:

- 1. Authors either find an open-access (gold) journal or a green journal to publish in.
- 2. Gray publishers will turn green.
- 3. Eventually **green** publishers <u>might</u> turn **gold**, but in the meanwhile:
- 4. Open-access itself increases to 100%.
- 5. Eventually toll-cancellation savings <u>might</u> increase to 100%
- 6. <u>If so</u>, then 1/3 of the growing institutional windfall toll-cancellation savings can pay for all institutional gold journal publication charges (peer review)





# Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities

http://www.zim.mpg.de/openaccess-berlin/berlindeclaration.html

Here are its pertinent passages, distilling the essence [while flagging the points that are still too vague/ambiguous for a practical, concrete implementation]

#### "Open access [means]:

- "1. free... [online, full-text] access [to what?]
- "2. A complete version of the [open-access] work [ = what?] ... is deposited... in at least one online repository... to enable open access, unrestricted distribution, [OAI-] interoperability, and long-term archiving.

"[W]e intend to... encourag[e]... our researchers/grant recipients to publish [?] their work [?] according to the principles [?]... of the open access paradigm [?]."



# Berlin Declaration on



#### Open Access to Knowledge in the Sciences and Humanities

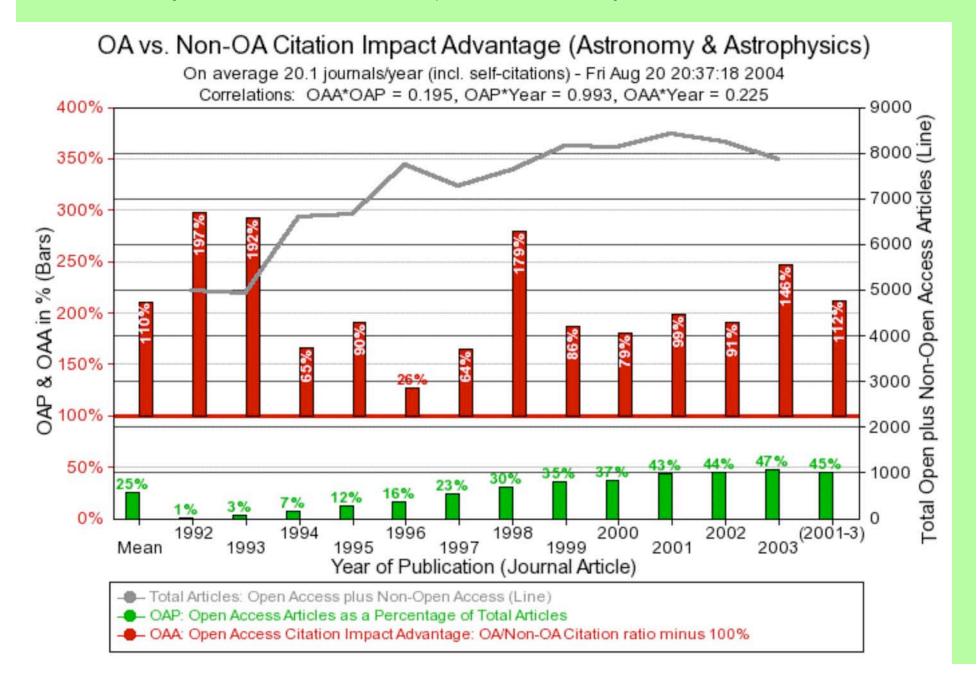
http://www.zim.mpg.de/openaccess-berlin/berlindeclaration.html

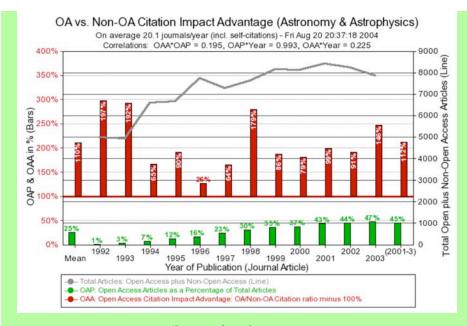
The pertinent passages (updated in green):

"Open access [means]:

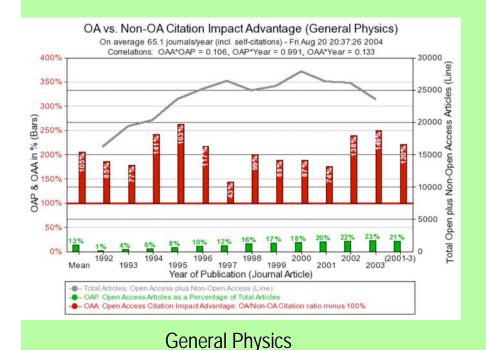
- "1. immediate free... [online, full-text] access to published research articles
- "2. A complete version of **every search article**... is deposited... in at least one online repository... to enable open access, unrestricted distribution, [OAI] interoperability, and long-term archiving.
- "[W]e intend to... (1) require... our researchers/grant recipients to self-archive all their research articles in our own institutional repository and to (2) encourage them to make them... open access."

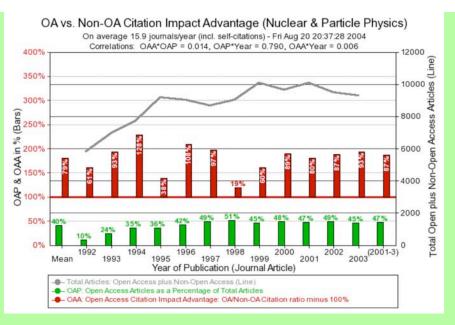
Citation impact for articles in the same journal and year are consistently higher for articles that have been self-archived by their authors. (Below is a comparison for Astronomy articles that are and are not in ArXiv.)



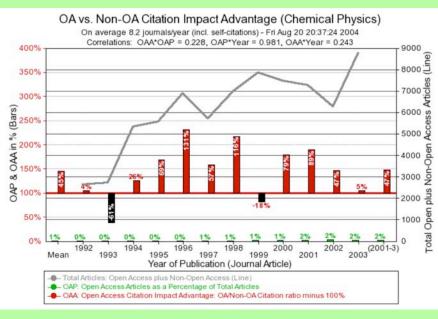


#### **Astrophysics**





#### **HEP/Nuclear Physics**



**Chemical Physics** 

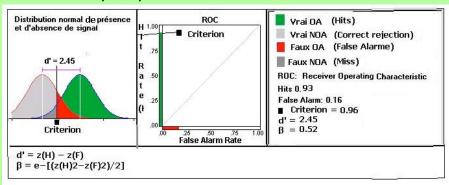
The citation impact advantage is found in all fields analyzed so far, including articles (self-archived in any kind of open-access website or archive) in social sciences (above right) biological sciences (below right) and all fields of Physics (self-archived in ArXiv, below). Note that the percentage of published articles that have been self-archived (green bars) varies from about 10-20%from field to field and that the size of the open-access citation impact advantage (red bars) varies from about 25% to over 300%, but it is always positive.

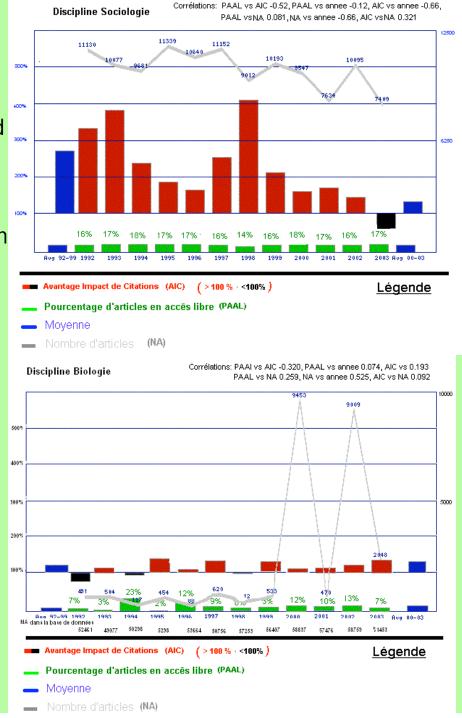
http://opcit.eprints.org/oacitation-biblio.html

Signal detection analysis of the hit/miss rate of the algorithm that searched for full-text OA papers on the web:

d' = 2.45 (sensitivity)

b = .52 (bias)





# UK House of Commons Science and Technology Committee Recommendation to Mandate Institutional Self-Archiving

http://www.publications.parliament.uk/pa/cm200304/cmselect/cmsctech/399/39903.htm

"This Report recommends that all UK higher education institutions establish <u>institutional repositories</u> on which their published output can be stored and from which it can be read, free of charge, online.

"It also recommends that Research Councils and other Government Funders mandate their funded researchers to deposit a copy of all of their articles in this way.



[The Report also recommends funding to encourage further experimentation with the "author pays" OA journal publishing model.]

# US House of Representatives Appropriations Committee Recommendation that the NIH should mandate self-archiving

http://thomas.loc.gov/cgi-bin/cpquery/?&db\_id=cp108&r\_n=hr636.108&sel=TOC\_338641&



"The Committee... recommends NIH develop a policy... requiring that a complete electronic copy of any manuscript reporting work supported by NIH grants.. be provided to PMC upon acceptance... for publication... [and made] freely and continuously available six months after publication, or immediately [if]... publication costs are paid with NIH grant funds.

(since passed by both House and Senate, then weakened by NIH to "encourage" rather than require, and within 12 months rather than 6; publication-charge rider dropped; delay/embargo period up to author; encouraged to self-archive as soon as possible)

### OA advantage = EA + AA + QB + OA + UA + SA

- **1. EA: Early Advantage**: Permanent citation increment for preprint (not just phase-shift advantage in timing)
- **2. AA: Arxiv Advantage**: (Physics/maths only) citation advantage for Arxiv even with 100% OA (astro, hep)
- **3. QB: Quality Bias**: Higher-citation authors/papers self-archived more: self-selection bias
- **4. OA: Open Access**: OA enhances citations 25%-400%+ (<u>relative</u> advantage only; disappears at 100% OA)
- **5. UA: Usage Advantage**: OA enhances downloads 300%+ (<u>absolute</u> advantage; persists at 100%OA)
- **SA: Selectivity Advantage**: At 100% OA, researchers do not cite more, but can use and cite the best and most relevant work (not just what their institutions can afford to access)

# **Open Access: To What?**

2.5 million annual research articles

In 24,000 peer-reviewed journals (conferences)

#### **Open Access: To What?**

#### **ESSENTIAL:**

to all 2.5 million annual research articles

published in all 24,000 peerreviewed journals (or conferences) in all scholarly and scientific disciplines, worldwide

#### **OPTIONAL:**

(because these are not all author give-aways, written only for usage and impact)

1. Books

2. Textbooks

3. Magazine articles

4. Newspaper articles

5. Music

6. Video

7. Software

8. "Knowledge"

(or because author's choice to self-archive can only be encouraged, not required in all cases):

9. Data

10. Unrefereed Preprints

### Research Impact



- I. measures the <u>size</u> of a research contribution to further research ("publish or perish")
- II. generates further research funding
- III. contributes to the research <u>productivity</u> and financial support of the researcher's institution
- IV. advances the researcher's career
- V. promotes research progress

## The author/institutional self-archived version is a <u>supplement</u> to -- not a <u>substitute</u> for -- the publisher's official version

- Link the self-archived author/institution supplement to the publisher's official website
- Pool and credit download counts for the self-archived supplement with downloads counts for the official published version
- 2. (All citation counts of course accrue to the official published version)

### Registry of Institutional Open Access Provision Policies

http://www.eprints.org/signup/sign.php

Universities and research institutions who officially commit themselves to *implementing* the Berlin Declaration by adopting a systematic institutional self-archiving policy for their own peer-reviewed research output are invited to describe their policy in this Registry so that other institutions can follow their example. *Self-archive unto others as ye would have them self-archive unto you...* 

Institution	OA Archive(s)	OA Policy
AUSTRALIA: Queensland Univ. Technology, Brisbane	http://eprints.gut.edu.au/	Policy
FRANCE: CNRS	http://www.cnrs.fr/	Policy
FRANCE: INRIA	http://www.inria.fr/index.en.html	Policy
FRANCE: Institut Jean Nicod, CNRS	http://jeannicod.ccsd.cnrs.fr/	Policy
FRANCE: Institut Nat. de la Rech. Agronomique	http://phy043.tours.inra.fr:8080/	Policy
GERMANY: Universitaet Hamburg	http://www.rrz.uni-hamburg.de/FZH/archiv.html	<u>Policy</u>
GERMANY: Institute for Science Networking Oldenburg	http://www.isn-oldenburg.de/publications.html	<u>Policy</u>
MULTINATIONAL: CERN	http://library.cern.ch/	<u>Policy</u>
UK: Southampton Univ. Electronics/Computer Science	http://eprints.ecs.soton.ac.uk/	<u>Policy</u>
PORTUGAL: Universidade do Minho, Portugal	https://repositorium.sdum.uminho.pt	<u>Policy</u>
UK University of Southampton	http://eprints.soton.ac.uk/	<u>Policy</u>
US: University of Kansas	http://kuscholarworks.ku.edu/	<u>Policy</u>

#### Declaration of Institutional Commitment to implementing the Berlin Declaration on open-access provision

Our institution hereby commits itself to adopting and implementing an official institutional policy of providing open access to our own peer-reviewed research output -- i.e., toll-free, full-text online access, for all would-be users webwide -- in accordance with the Budapest Open Access Initiative and the Berlin Declaration

#### UNIFIED OPEN-ACCESS PROVISION POLICY:

(OAJ) Researchers publish their research in an open-access journal if a suitable one exists otherwise

(OAA) Researchers publish their research in a suitable toll-access journal and also self-archive it in their own research institution's open-access research archive.

To sign: http://www.eprints.org/signup/sign.php

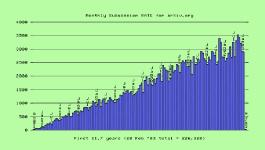
A JISC survey (Swan & Brown 2004) "asked authors to say how they would feel if their employer or funding body required them to deposit copies of their published articles in one or more... repositories. The vast majority... said they would do so willingly."

http://www.jisc.ac.uk/uploaded\_documents/JISCOAreport1.pdf

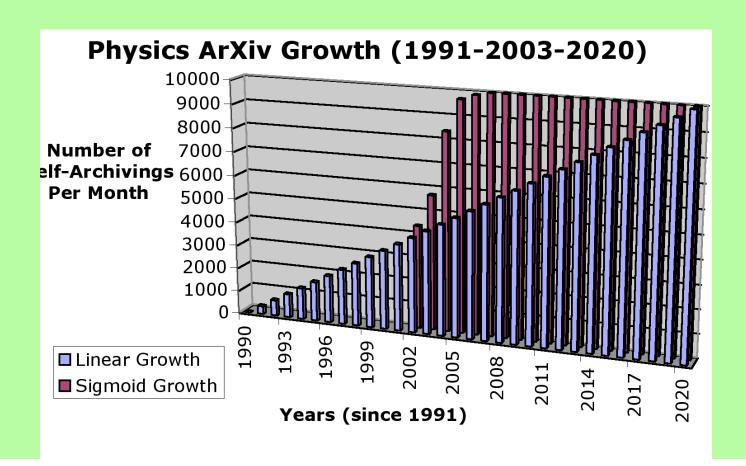
## Central/Discipline-Based Self-Archiving vs Distributed Institutional/Departmental Self-Archiving

- All OAl-compliant Archives (Central and Institutional) are interoperable and functionally equivalent
- Researchers and their institutions (but not researchers and their disciplines) share a common stake in their research impact
- A self-archiving mandate will propagate quickly and naturally across departments and institutions if archiving is institutional, not if archiving is central
- Institutions can <u>monitor compliance</u>, <u>measure impact</u>, <u>and share</u> the distributed archiving cost
- Institutional archive contents <u>can be automatically harvested into</u> central archives (metadata alone, or full-texts too)
- UK JISC report recommends distributed self-archiving and harvesting rather than central archiving
- 92% of journals have given green light to author self-archiving but many are <u>reluctant to endorse 3rd-party archiving</u> (which could sanction to free-loading rival re-publishers)

Even the fastest-growing archive, the Physics ArXiv, is still only growing linearly (since 1991):



At that rate, it would still take a decade before we reach the first year that all physics papers for *that year* are openly accessible (Ebs Hilf estimates 2050!)



#### Four reasons for research impact

(shared by researcher and institution but not by researcher and discipline)

- 1. Contributions to Knowledge
- 2. Employment, Salary, Promotion, Tenure, Prizes
- 3. Research Funding, Resourcing
- 4. Institutional Overheads, Prestige (attracting teachers, students, researchers, industrial collaboration)

## Don't conflate the different forms of institutional archiving: Only the 5th is relevant here

- 1. Institutional digital collection management
- 2. Institutional digital preservation
- 3. Institutional digital courseware
- 4. Institutional digital publishing
- 5. Institutional self-archiving of refereed research output

## Would-be peer review reformers, please remember:

- The pressing problem is to free peer-reviewed research access and impact from tolls:
- not from peer review!
- If you have a peer-review reform hypothesis,
- please take it elsewhere,
- and test it,
- and then let us all know how it comes out...
- Meanwhile,
- please let us free peer-reviewed research
- · such as it is!

## Universal Access Through Affordable Licensing?

Open access through author/institution self-archiving is a <u>parallel</u> self-help measure for researchers, to prevent further impact-loss now. Open access is a <u>supplement</u> to toll-access, but not necessarily a <u>substitute</u> for it.

One possible outcome is that the toll access and open access versions will peacefully co-exist in perpetuity, with all researchers using the toll-access versions of the research their own institutions can afford and the open-access versions of the rest. The more affordable the toll-access licenses, the less researchers will need to use the open-access versions.

Even if the growth of the open-access versions is destined eventually to reduce the demand for the toll-access versions, that is a long way off, because self-archiving proceeds gradually and anarchically, and journals cannot be cancelled while only random parts of their contents are openly accessible.

If and when open accessibility does reduce the demand for the toll-access versions, this will at the same time be creating windfall savings for institutions on their periodical budgets -- savings which will then be available to institutions to pay for peer-review service provision up-front to those journals that are ready to convert to becoming open-access journals.

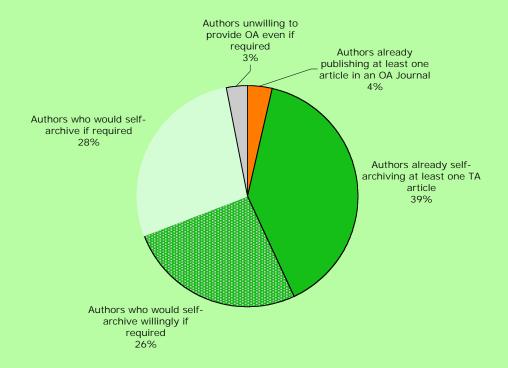
#### Swan & Brown (2005)

49% of authors have self-archived (at least once)

#### 81% would self-archive willingly if required

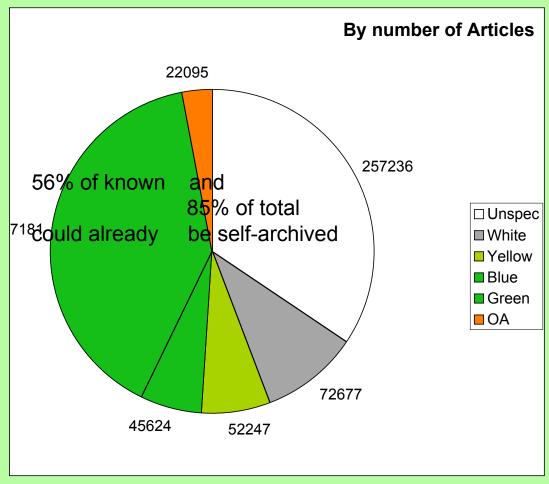
(only 15% of articles are self-archived today)

Actual and potential proportions of Open Access Arcticles



## % of ISI-indexed articles that could have been OA in 2003 (if their authors had acted on their publishers' green light to self-archive

http://www.isinet.com/isihome/media/presentrep/essayspdf/openaccesscitations2.pdf



Publisher self-archiving policies, by article from JCR 2003 and Project Romeo listings at <a href="http://www.sherpa.ac.uk/romeo.php">http://www.sherpa.ac.uk/romeo.php</a>

## Some old and new scientometric ("publish or perish") indices of research impact

- Peer-review quality-level and citation-counts of the journal in which the article appears
- citation-counts for the article
- citation-counts for the <u>researcher</u>
- co-citations, co-text, "semantic web" (cited with whom/what else?)
- CiteRank/PageRank, hub/authority analysis
- citation-counts for the preprint
- usage-measures (webmetrics: downloads, codownloads)
- time-course analyses, early predictors, etc. etc.

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

#### What-is/why/how FAQs:

What is self-archiving?

What is the Open Archives Initiative (OAI)?

What is OAI-compliance?

What is an Eprint Archive?

How can I or my institution create an Eprint Archive?

How can an institution facilitate the filling of its Eprint Archives?

What is the purpose of self-archiving?

What is the difference between distributed and central self-archiving?

What is the difference between institutional and central Eprint Archives?

Who should self-archive?

What is an Eprint?

Why should one self-archive?

What should be self-archived?

Is self-archiving publication?

What about copyright?

What if my copyright transfer agreement explicitly forbids self-archiving?

Peer-review reform: Why bother with peer review?

Is self-archiving legal?

What if the publisher forbids preprint self-archiving?

#### What-to-do FAQs:

What can researcher/authors do to facilitate self-archiving?

What can researchers' institutions do to facilitate self-archiving?

What can libraries do to facilitate self-archiving?

What can research funders do to facilitate self-archiving?

What can publishers do to facilitate self-archiving?

#### BOAI Self-Archiving FAQ <a href="http://www.eprints.org/self-faq/">http://www.eprints.org/self-faq/</a>

#### "I-worry-about..." 32 FAQs (sub-grouped thematically)

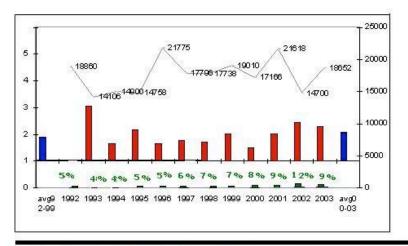
- I. 10. <u>Copyright</u>
  32. <u>Poisoned Apple</u>
- II. 7. <u>Peer review</u>
  - 5. Certification
  - 6. Evaluation
  - 22. Tenure/Promotion
  - 13. Censorship
- III. 29. Sitting Pretty
  - 4. Navigation (info-glut)
- **IV. 1. Preservation** 
  - 2. Authentication
  - 3. Corruption
  - 23. Version control
  - 25. Mark-up
  - 26. Classification
  - 16. Graphics
  - 15. Readability
  - 21. Serendipity
  - 18. Libraries'/Librarians' future
- V. 19. Learned Societies' future
- VI. 17. Publishers' future
  - 9. Downsizing
  - 8. Paying the piper
  - 14. Capitalism
  - 24. Napster
  - 31. Waiting for Gold
- VII. 20. University conspiracy
  - 30. Rechanneling toll-savings
  - 28. Affordability
- VIII. 12. Priority
  - 27. Secrecy
- IX. 11. Plagiarism

#### http://www.ecs.soton.ac.uk/~harnad/intpub.html

- Harnad, S. (1990) Scholarly Skywriting and the Prepublication Continuum of Scientific Inquiry. Psychological Science 1: 342 343 (reprinted in Current Contents 45: 9-13, November 11 1991). http://cogprints.soton.ac.uk/documents/disk0/00/00/15/81/
- Harnad, S. (1994) A Subversive Proposal. In: Ann Okerson & James O'Donnell (Eds.) Scholarly Journals at the Crossroads: A Subversive Proposal for Electronic Publishing. Washington, DC., Association of Research Libraries, June 1995. <a href="http://www.arl.org/scomm/subversive/toc.html">http://www.arl.org/scomm/subversive/toc.html</a>
- Harnad, S. (2001) For Whom the Gate Tolls? How and Why to Free the Refereed Research Literature Online Through Author/Institution Self-Archiving, Now. <a href="http://cogprints.soton.ac.uk/documents/disk0/00/00/16/39/">http://cogprints.soton.ac.uk/documents/disk0/00/00/16/39/</a>
- Harnad, S., Carr, L., Brody, T. & Oppenheim, C. (2003) Mandated online RAE CVs Linked to University Eprint Archives: Improving the UK Research Assessment Exercise whilst making it cheaper and easier. Ariadne 35 <a href="http://www.ariadne.ac.uk/issue35">http://www.ariadne.ac.uk/issue35</a> <a href="http://www.ariadne.ac.uk/issue35">harnad//</a>
- Harnad, S. (2003) Electronic Preprints and Postprints. Encyclopedia of Library and Information Science Marcel Dekker, Inc.

  http://www.ecs.soton.ac.uk/~harnad/Temp/eprints.htm
- Harnad, S. (2003) Online Archives for Peer-Reviewed Journal Publications. International Encyclopedia of Library and Information Science. John Feather & Paul Sturges (eds). Routledge. <a href="http://www.ecs.soton.ac.uk/~harnad/Temp/archives.htm">http://www.ecs.soton.ac.uk/~harnad/Temp/archives.htm</a>

Discipline Psychologie Corrélations: PAAI vs AIC 0,14 - PAAL vs Annee 0,94 - AIC vs Annee 0,21
PAAI vs NB 0,19 - NB vs Annee 0,26 AIC vs NB -0,02



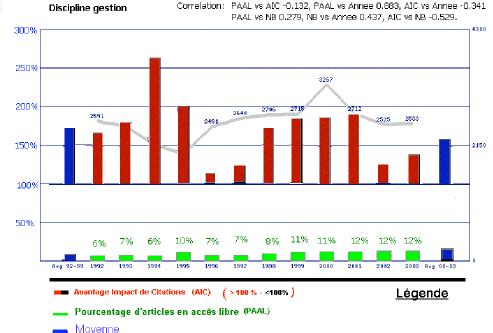
Avantage Impact de Citations (AIC) (>100 % <100%)

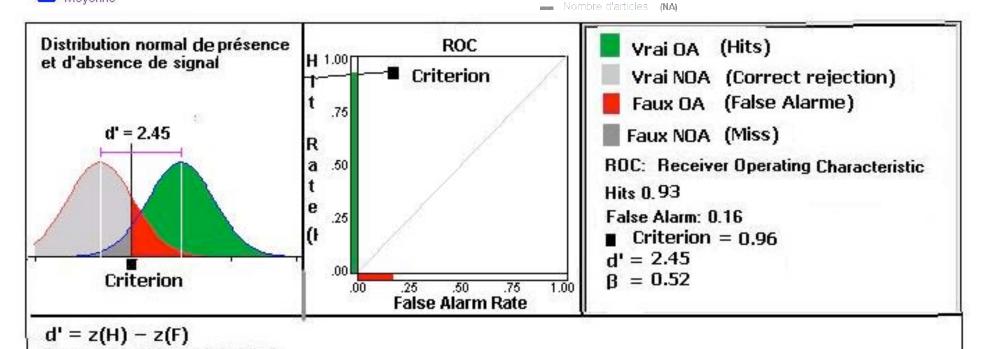
Légende

Pourcentage d'articles en accès libre (PAAL)

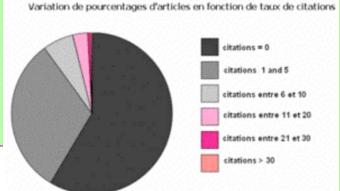
 $\beta = e - [(z(H)2 - z(F)2)/2]$ 

Moyenne

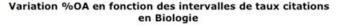


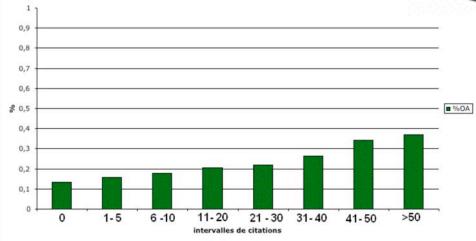


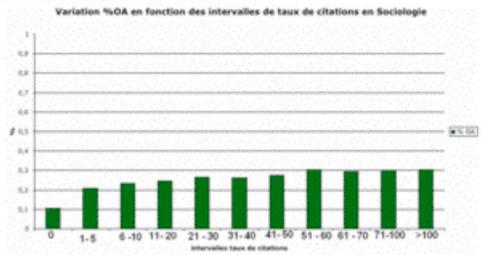
### Percentage of high and low citation articles that are self-archived: BIOLOGICAL SCIENCES



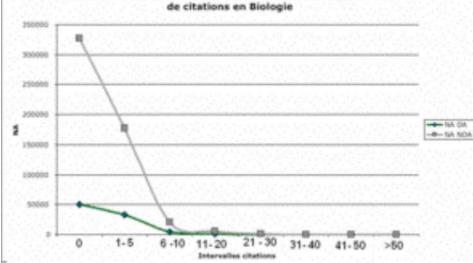
#### SOCIAL SCIENCES

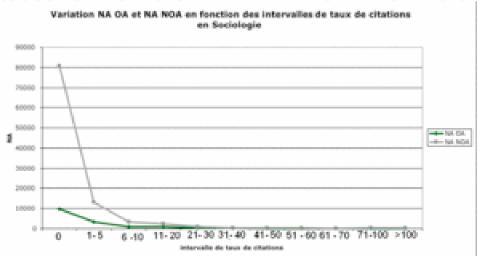




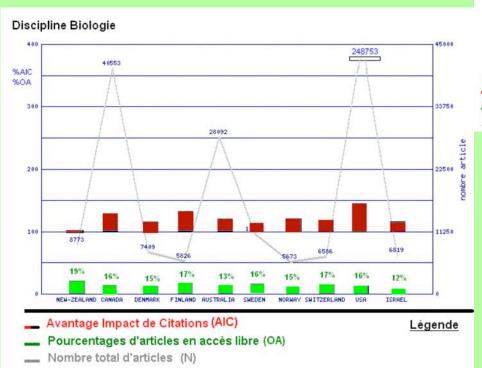


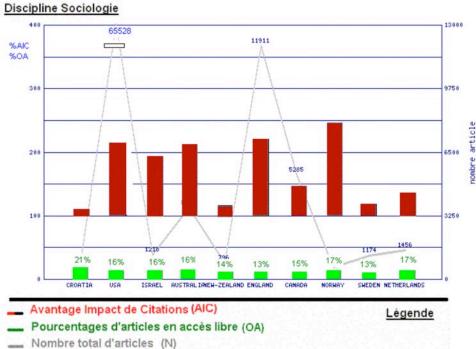
#### Variation NA OAet NA NOA en fonction des intervalles de taux de citations en Biologie





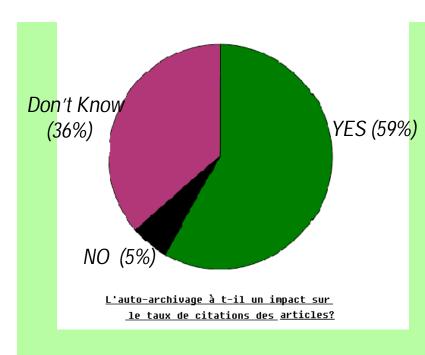
# Percent OA articles and OA Impact Advantage by country

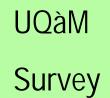


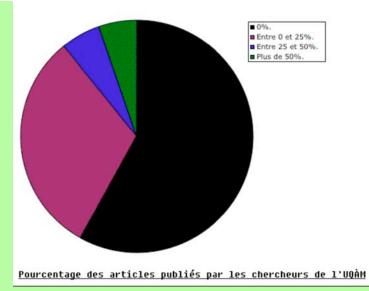


Social Sciences

**Biological Sciences** 

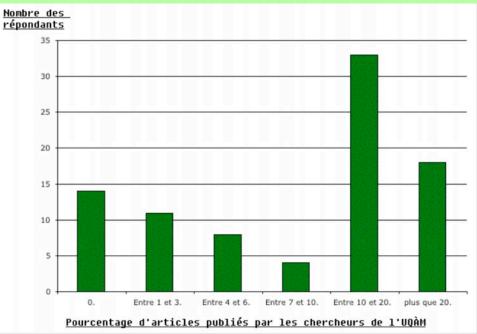


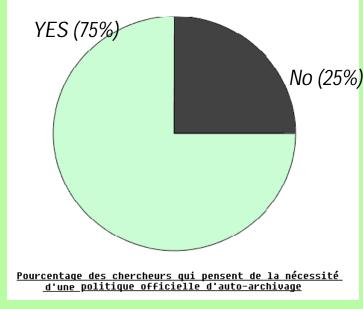




What percentage of your articles have you made Open Access?

#### Do you think self-archiving influences citation impact?



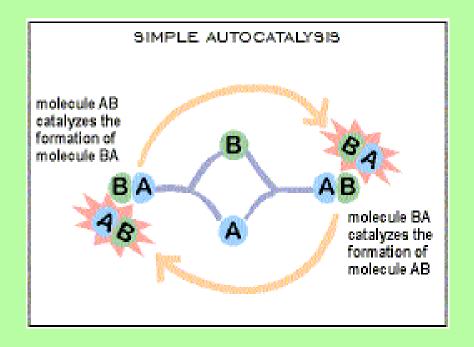


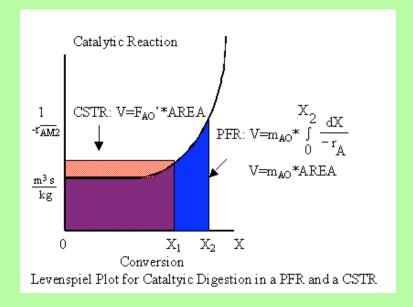
Is an official UQàM self-archiving policy necessary?

How many articles do you publish yearly?

#### The Golden Rule for Open Access: Reciprocity

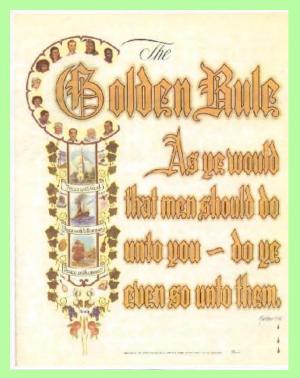
- (i) <u>Researchers</u> share a <u>common stake</u> with their own <u>Institutions</u> (not their Disciplines) in maximizing their joint research impact
- (ii) Institutions share a <u>reciprocal stake</u> in access to one another's (give-away) research output



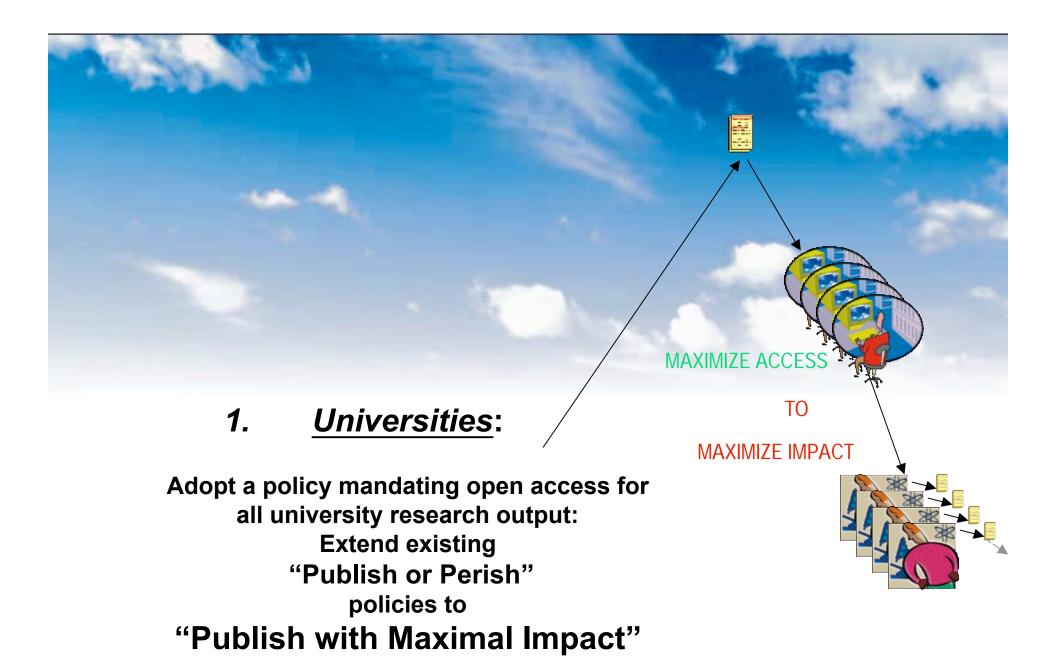


## "Self-archive unto others as ye would have them self-archive unto you."

http://www.ecs.soton.ac.uk/~harnad/Temp/unto-others.doc



http://www.ecs.soton.ac.uk/~harnad/Temp/self-archiving.ppt



http://www.eprints.org/signup/sign.php

#### 2. Departments:

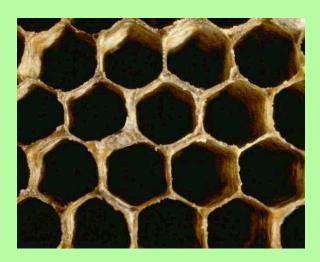
Adopt a departmental policy mandating

Open Access for All Research Output

Create (and Fill):

OAl-compliant Eprint Archives

http://software.eprints.org/handbook/departments.php





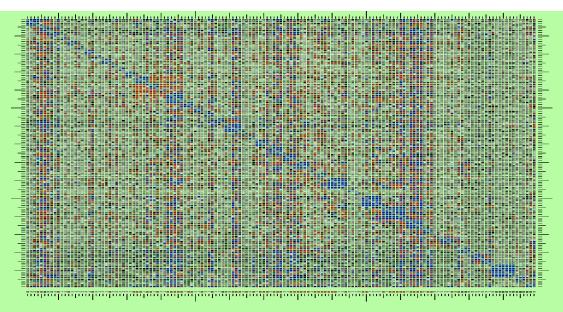
#### 3. **University Libraries**:

Provide digital library support for university research self-archiving and archive-maintenance

(and if/when university toll-cancellation savings begin to grow, prepare to redirect 1/3 of annual windfall savings to cover open-access journal peer-review service-costs for university research output)







#### 4. Universities and Research Institutions:

Mandate open access for all research output.

http://www.eprints.org/signup/sign.php

Adopt a standardized online-CV with harvestable performance indicators and links to open-access full-texts

(template and demo below)

http://paracite.eprints.org/cgi-bin/rae\_front.cgi

#### 5. Research Funders:

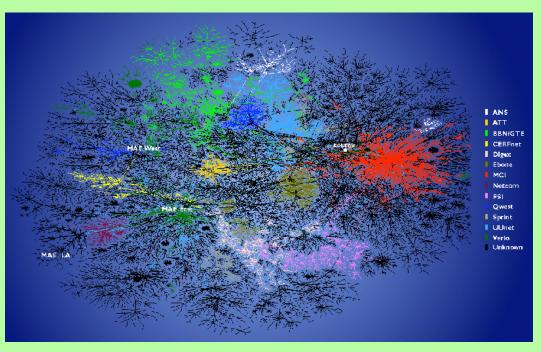
Mandate open access for all research output.

See proposal for a UK national policy of open access for all refereed research output for research assessment...

http://www.ecs.soton.ac.uk/~harnad/Temp/Ariadne-RAE.doc

...as a model for the rest of the world





#### **Tools for**

- (a) creating OAI-compliant university eprint archives
- (b) parsing and finding cited references on the web,(c) reference-linking eprint archives,
- (d) doing scientometric analyses of research impact,
  - (e) creating OAI-compliant open-access journals

http://software.eprints.org



http://paracite.eprints.org/



http://opcit.eprints.org/evaluation/Citebase-evaluation/evaluation-report.html OpCit

http://citebase.eprints.org/help/



http://psycprints.ecs.soton.ac.uk/



#### **Budapest Open Access Initiative**

## The BOAI Self-Archiving FAQ (BOAI-1)

http://www.eprints.org/self-faq/

http://www.soros.org/openaccess/

