

Dorothea Salo

Digital Repository Services Librarian

Library Systems Office

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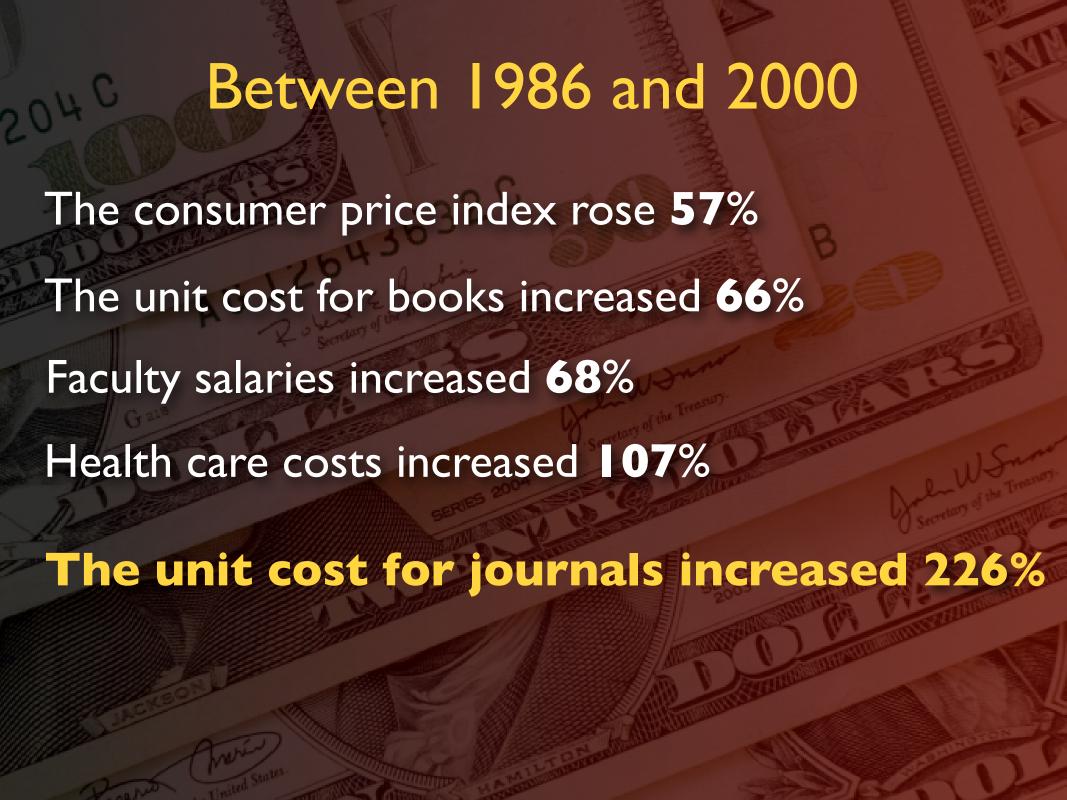
- How much research can you access?
 - Who else can access your research?
 - Will your research make the biggest possible you achieve tenure and promotion?

 rledge is power line application. impact on your field?

 - nowledge is power! Learn about the system!

wat my pass

The "Big Deal"



How?

- Major for-profit publishers bought up thousands of sci-tech-med journals
- Journal publication moved electronic
- The amount of research skyrocketed
- Publishers offered libraries "bundles" of e-journals — the Big Deal
- Prices on the Big Deal rose uncontrollably
- Popular sci-tech-med journals became unavailable outside the Big Deal

Invisible access worries

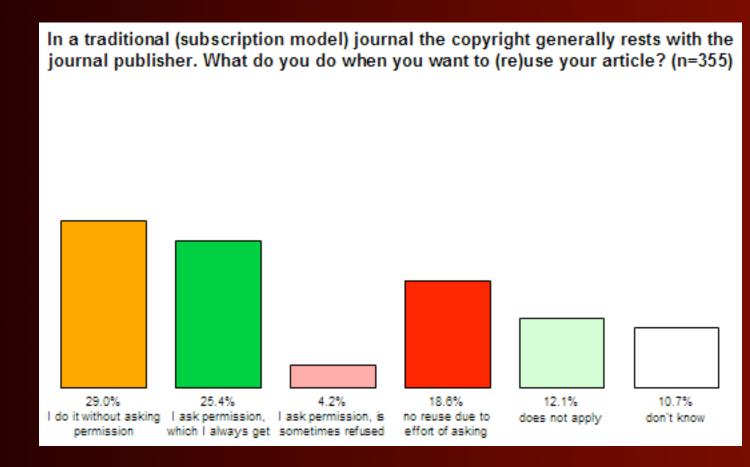
- Cancel a print journal, keep back issues
- Cancel an e-journal...???
- What if an e-journal dies? Or gets sold?
- What if a big aggregator goes out of business?
- Many libraries end up buying
 print AND electronic

Pernicious effects

- Libraries hate it
 - Lose ability to choose the best journals
 - Strain budgets and systems to breaking
 - Worry about long-term access, preservation
- The humanities and social sciences hate it
 - The scholarly monograph dies
 - University presses fold
- Quality journals hate it
 - Small journals lose subscriptions
 - Lousy Big Deal journals survive
- Sci-tech-med researchers don't notice it...

... or do they?

One-fifth to one-third of authors surveyed feel uncomfortable reusing their own work!



Graph from Hoorn, E. and Van der Graaf, M. "Copyright Issues in Open Access Research Journals: The Authors' Perspective." D-Lib 12:2 (Feb. 2006). http://www.dlib.org/dlib/february06/vandergraaf/02vandergraaf.html

Other developments

Measures of cachet

Sciences

Impact factors

The need for speed: preprints and preprint archives

"Grey literature"

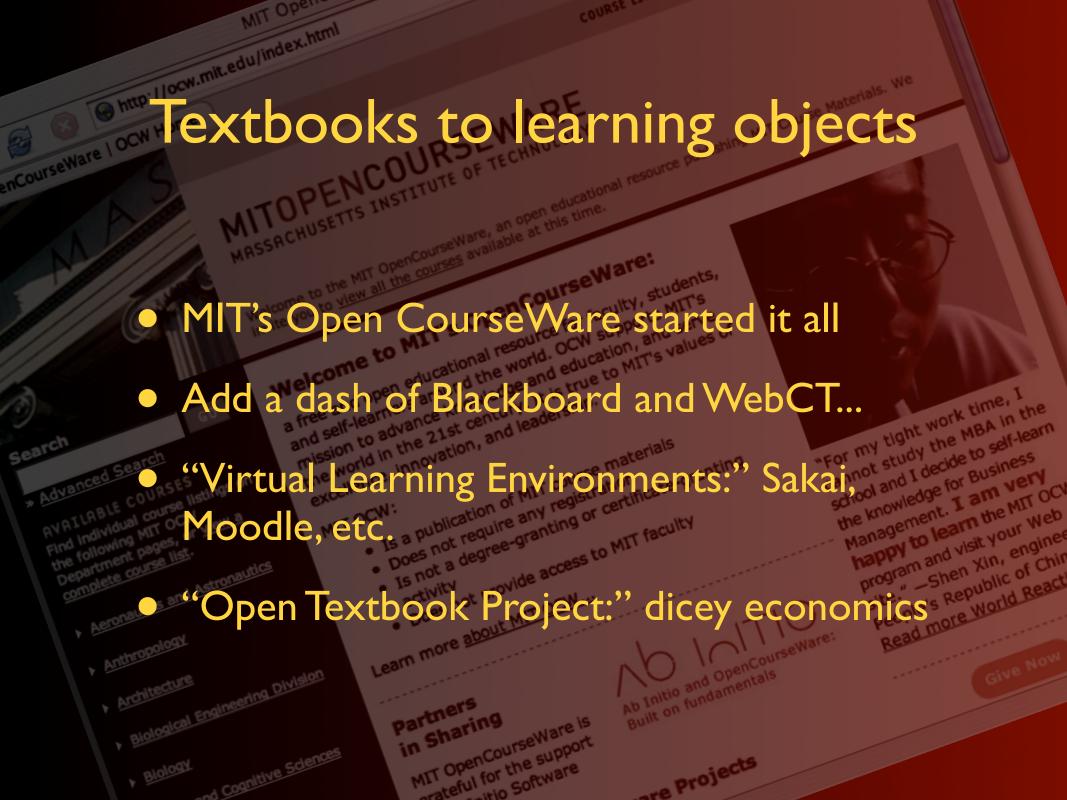
Humanities

Steadily harder to find monograph publishers

Innovative electronic projects cannot find funding or support

Research in the classroom

- E-reserves hit the big time
 - Publishers lose course-packet royalties
 - Print reserves die on the vine in libraries
- University lawyers get nervous
 - "Fair use" under threat anyway
 - Some library e-reserve policies arguably too conservative
- Association for American Publishers: \$\$\$
 - CHE: "They clearly had a lawsuit in mind when they started contacting our office," said Mary MacDonald, a lawyer for the university [of California] system."



Peer review in trouble

- Too many articles, not enough reviewers at top journals
- Authors feeling pressure to publish in "top journals" send inappropriate articles
- Peer review demonstrably doesn't catch all errors
- Biases and unsigned reviews assailed

Responses

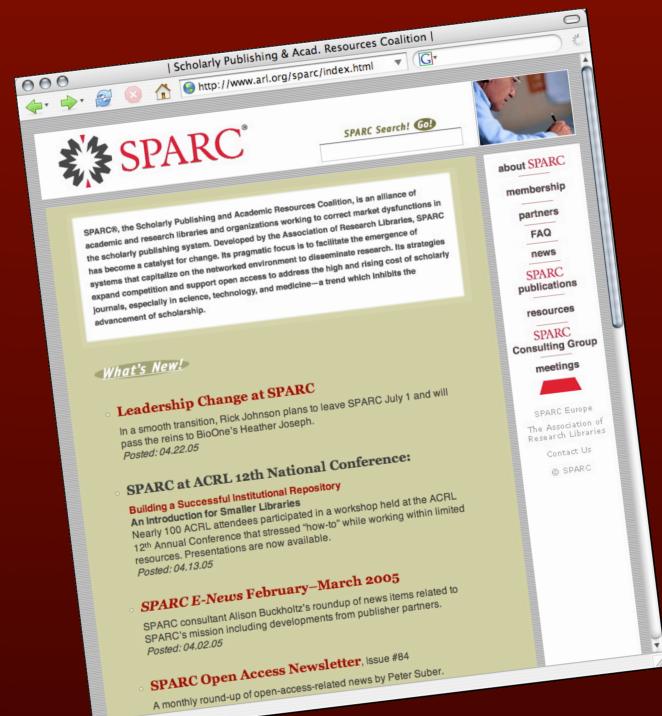
Library responses

Then

- Forming consortia
- Buying the "Big Deal"
- Cutting budgets to the bone to afford the "Big Deal"
- Cancelling other journals

Now

- Rejecting the "Big Deal"
- Building open access
 - Hosting OA journals
 - Building institutional repositories
 - Spreading the word



In 1997, the
Association of
Research Libraries
founded SPARC* to
address the
dysfunctional
economics of
scholarly publishing.

*Scholarly
Publishing and
Academic
Resources
Coalition

Done



Faculty responses

- Then...
- Now
 - Growth of "grey literature"
 - Faculty senates reject the "Big Deal"
 - Journal editorial boards revolt
 - A few faculty self-archive
 - Public Library of Science
 - MLA revalues e-scholarship
 - University of California charts the way forward

Funder responses

- The taxpayer
 - NIH proposal
 - CURES Act
 - Alliance for Taxpayer Access
- The private/non-profit funder
 - Wellcome Trust
 - SPARC
- The rest of the world
 - Major push for national research repositories
 - England, Australia, elsewhere







http://grants.nih.gov/grants/guide/notice-files/NC ▼

implementation of Policy on Enhancing Public Access to Archived Publications Resulting from NIH-Funded Research

Notice Number: NOT-OD-05-045

Key Dates

Release Date: April 29, 2005 Effective Date: May 2, 2005

National Institutes of Health (NIH), (http://www.nih.gov) Issued by

The National Institutes of Health (NIH) published its Public Access Policy (Policy) in the February 3, 2005, and in the Federal Register on February 9, 2005. These announcem including Questions and Answers regarding copyright and other concerns, are available http://www.nih.gov/about/publicaccess/.

The purpose of this Notice is to provide a summary of the Policy and to furnish guidar manuscripts.

The Policy becomes effective May 2, 2005. The Policy requests and strongly encou peer-reviewed author's final manuscripts available to other researchers and the py PubMed Central (PMC) [see http://www.pubmedcentral.nih.gov] immediately after submission, authors are given the option to release their manuscripts at a later tin publication. NIH expects that only in limited cases will authors deem it necessary

The Policy applies to all research grant and career development award mechan and Individual Ruth L. Kirschstein National Research Service Awards, as well a to peer-reviewed, original research publications that have been supported in v not apply to book chapters, editorials, reviews, or conference proceedings. NII resulting from 1) currently-funded NIH research projects or 2) previously-supp accepted for publication on or after May 2, 2005. Publications resulting from r submitted. We welcome comments and suggestions about the submission p

The NIH Manuscript Submission System

The password-protected, Web-based, NIH Manuscript Submission (NIHMS to facilitate the submission process. This system allows easy identification intramural project numbers by associating them with the corresponding ex research study. Currently, manuscript files from NIH Intramural PIs can be staff. Manuscript files from extramural PIs may be submitted by the PI only to the NIHMS system by either the extramural PI or a third party on the PI librarians, publishers, etc.).

account of the submitted materials and the determination, signed for individual submiss Done

May 2005, NIH "requests and strongly encourages" peerreviewed final manuscripts be placed in PubMed Central



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PMC's utilities include an OAI service that provides XML of the full-text of some articles, functions for scripting PMC searches and linking to specific PMC articles from your site, and more

Get answers to other questions about PubMed

Find out how you can include your journal in

The NIH Public Access plan is meant to make the published results of NIH-funded research freely available to everyone.

NIH-funded authors: see the NIH Manuscript Submission system.

It's about preservation and access: digitizing the complete run of back issues of many of

Looking for a thoroughly modern journal article DTD? Take a look at NLM's Journal Publishing XML DTD and schema.

Write to PMC | PMC Home | PubMed NCBI | U.S. National Library of Medicine NIH | Department of Health and Human Services Privacy Policy | Disclaimer | Freedom of Information Act

Last updated: April 29, 2005

Results

- NIH report released 16 February 2006
- Abject failure thus far
 - 3.8% compliance rate
 - Awareness was high; compliance still low
- NIH, National Library of Medicine reactions
 - Mandate deposit
 - Shorter or no embargo
 - Use paper's final published version
- Future: CURES Act?

Open-Access Journals

pen Access Journals

Open access journals do not charge readers

or their institutions for access.

"By 'open access,' we mean its free availability on the public internet, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles... without financial, legal, or technical barriers other

than those inseparable from gaining access to the internet.

"The only constraint on reproduction and distribution, and the

only role for copyright in this domain, should be to give

authors control over the integrity of their work and the right to

be properly acknowledged and cited."

Cui bono?

- Why publish?
 - Authors: career, prestige, impact
 - Small societies: journal sales fund society activities
 - Big publishers: \$\$\$
- Many actors in publishing are not paid \$\$\$
 - Article writers
 - Peer reviewers
 - Editors (often)



The Internet changes everything

- Print journal costs divide into three parts
 - "First copy" costs: peer review, editing, typesetting, etc.
 - Reproduction and dissemination costs
 - Preservation costs (borne by libraries)
- E-journals eliminate the second cost!
 - Copies after the first go out at nearly zero extra cost
 - Other economies possible (communication, management)
 - But what about preservation?

Why adoption is slow

- Many researchers: out of sight, out of mind
 - OA publishing requires research, intentional action
 - Who listens to librarians, anyway?
- Publishers: Fear, Uncertainty, and Doubt
- Authors, editors, reviewers have power but are not exercising it
- No institutional mandate

Self-Archiving and Institutional Repositories

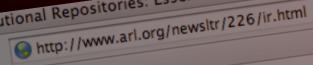


- Journal publishers don't have to provide OA if researchers do themselves!
- Some researchers already email each other preprints or post PDFs to the Web
 - And libraries said "hmmmmmm..."











ARL Bimonthly Report 226 February 2003

Institutional Repositories: Essential Infra

by Clifford A. Lynch, Executive Director, Coalition for Netwo in the Digital Age

In the fall of 2002, something extraordinary occurred in the conti revolution, shifting the dynamic among individually driven inn evolution of disciplinary scholarly practices. The development new strategy that allows universities to apply serious, systemat place in scholarship and scholarly communication, both moving role of supporting established publishers in modernizing schol: digital content, and also scaling up beyond ad-hoc alliances, pa with a few select faculty pioneers exploring more transformativ

An institutional repository is a set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members.

—Clifford Lynch, CNI

Many technology trends and development efforts came together to make this strategy possible. Online storage costs have dropped significantly; repositories are now affordable. Standards like the open archives metadata harvesting protocol are now in place; some progress has also been made on the standards for the underlying metadata itself. The thinking about digital preservation over the past five years has advanced to the point where the needs are widely recognized and well defined, the development of pproaches at least superficially mapped out, and the need for action is now clear. The development of



Mason Archival Repository Service

Logged in as | dsalo@gmu.edu (Logout | MARS Admin

Home

Advanced Search

Browse by:

Communities & Collections

Title

Author

Date

Sign on to:

Register with MARS

My MARS

Edit Profile

Welcome to MARS

Mason Archival Repository Service exists to be a stable, well-managed, permanent archive for digital scholarly and research materials of enduring value produced by Mason faculty, staff, and students.

Read more about MARS...

Scholarly Communication workshop

The MARS Librarian, Dorothea Salo, is holding three sections of a workshop on scholarly communication. These will take place February 22, March 28, and April 20 at 1 pm in Fenwick Library. Learn how MARS fits into the landscape; sign up today or send email to RSVP!

Communities in MARS

Choose a community to browse its collections.

- Event Proceedings
- MARS Pathfinders
- School of Law
- School of Public Policy
- University Libraries
- Volgenau School of Information Technology and Engineering

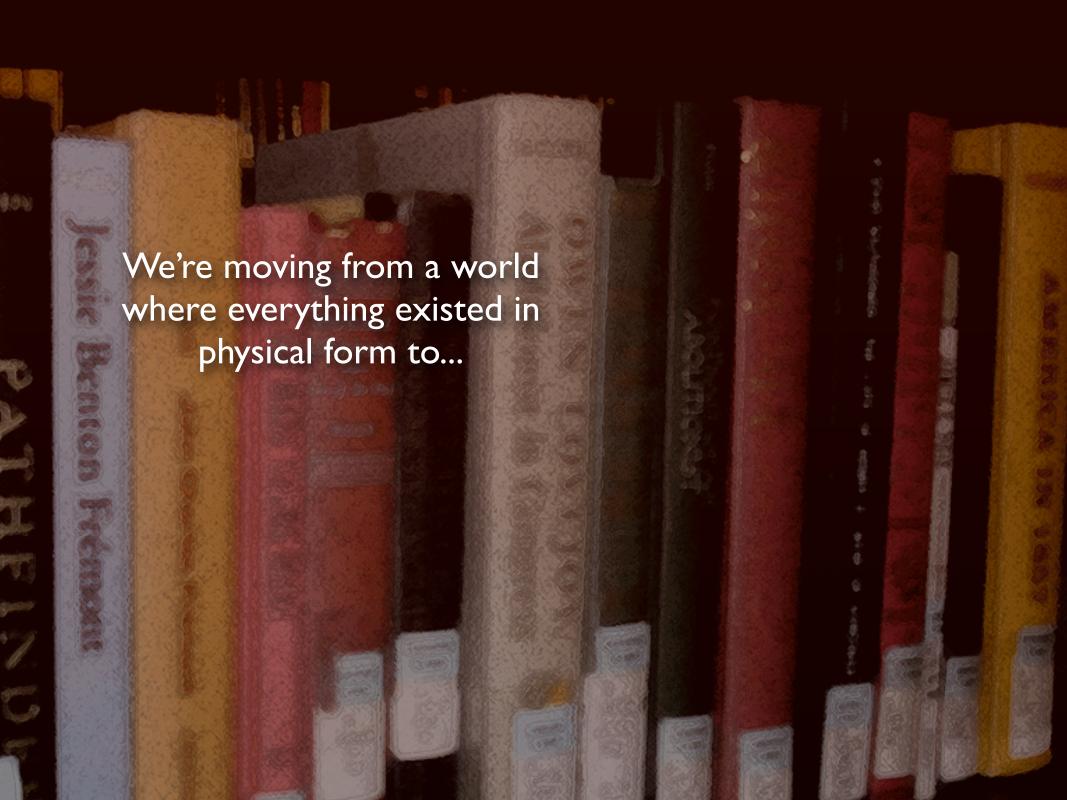
Common concerns

- "But I signed over my copyright!"
 - Don't do that next time!
 - Many journals permit self-archiving anyway
- "But if I self-archive, no one will publish it!"
 - Check with your favorite venues; many won't care
 - Self-archive on acceptance
- "But who will read and trust it?"
 - It can still undergo peer review
 - Research is unanimous: GREATER CITATION IMPACT FOR WORK FREELY AVAILABLE ONLINE, irrespective of venue

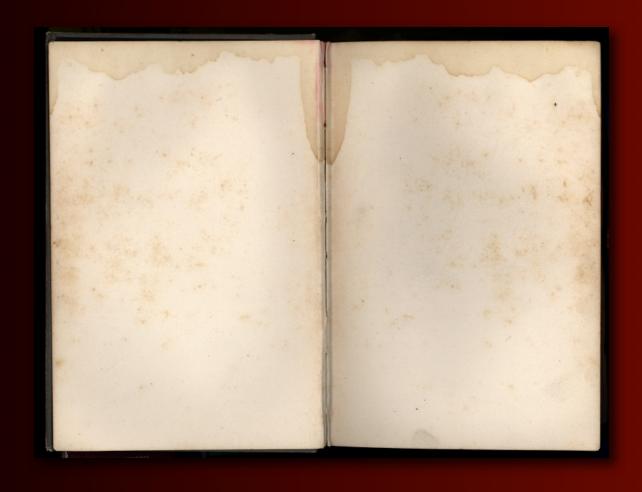
Suber's "Six Things"

- I. What OA journals exist in your field?
- 2. OA journals are not the whole story of OA. There are also OA archives or repositories.
- 3. OA archiving only takes a few minutes.
- 4. Most non-OA journals allow authors to deposit their postprints in an OA repository.
- 5. Journals using the Ingelfinger Rule are a shrinking minority.
- 6. OA enlarges your audience and citation impact.

The Law of Unintended Consequences



"...if it's not online it might as well not exist."



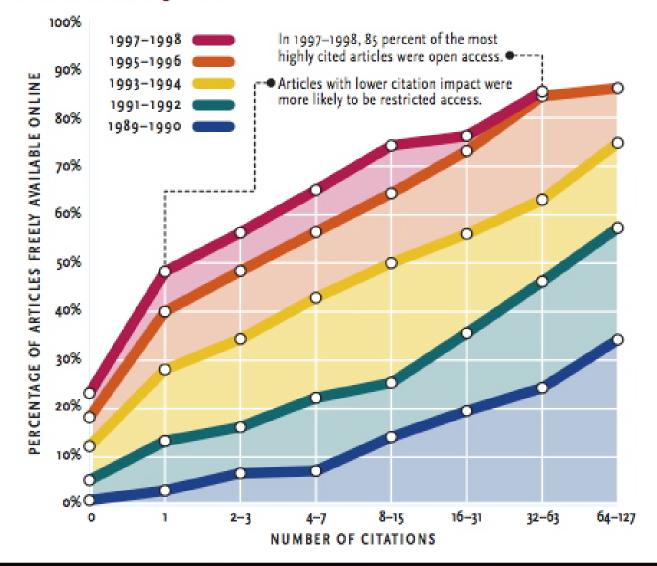
Impact factors

Steve Lawrence, a scientist at NEC Research Institute, analyzed nearly 120,000 computer-science articles.

Articles with higher levels of impact or citations were more likely to be openaccess, and vice versa.

The strength of this correlation steadily increased over a decade.

Open access increases research impact.



Love your OA journal!

- Vivian Siegel: PLoS Biology submissions were slow... until its huge impact factor became public, when submissions DOUBLED!
- Researchers submitting without knowing that PLoS Biology was OA!
 - faster publication
 - better author services
 - author charges comparable to for-profit journals
- Lesson: OA can compete on more than ideology



The Future

The humanities

- The "scholarly monograph" will fade
 - Monographs with wider appeal will still find publishers
 - Abstruse works may be published POD or all-electronic
- More innovative digital projects
 - In cooperation with libraries? We have the tech skills and the humanities backgrounds!
- Tenure/promotion requirements will change

The hard sciences

- More science funders will insist on OA
- Researchers will continue bypassing the formal publication system
- If the US does not step up to the OA plate, Europe, Australia, and Asia will eat its lunch
- OA journals will (mostly) thrive
- Will universities start charging for-profit publishers for editing and review services?

Academic libraries

- Will become publishers
- Will suffer rough transition from toll-access to OA
- Will experiment with better discovery services
- IRs may tip... or not
 - May end up limited to specialized uses, e.g. e-theses
 - May consolidate across state systems or consortia

Large journal publishers

- Will experience price and impact-factor pressure
- Will continue to lobby governments and spread misinformation to researchers
- Will experiment with business models
- May panic
 - Draconian restrictions on self-archiving and e-reserves
 - Will hasten scholars' move to other venues

Scholarly societies

- Won't suffer as much as they think they will
- Will still publish journals
 - With library help?
 - OA?
- Will find other ways to create member value
- Will continue partnerships, aggregations

Peer review

- Will continue
 - In for-profit journals
- Essential, ra of Pin OA journals what I need. I think this may just be 2. Faculty of 1000 Will operate alongside post facto measures like impact factors
 - May become post facto altogether (e.g.

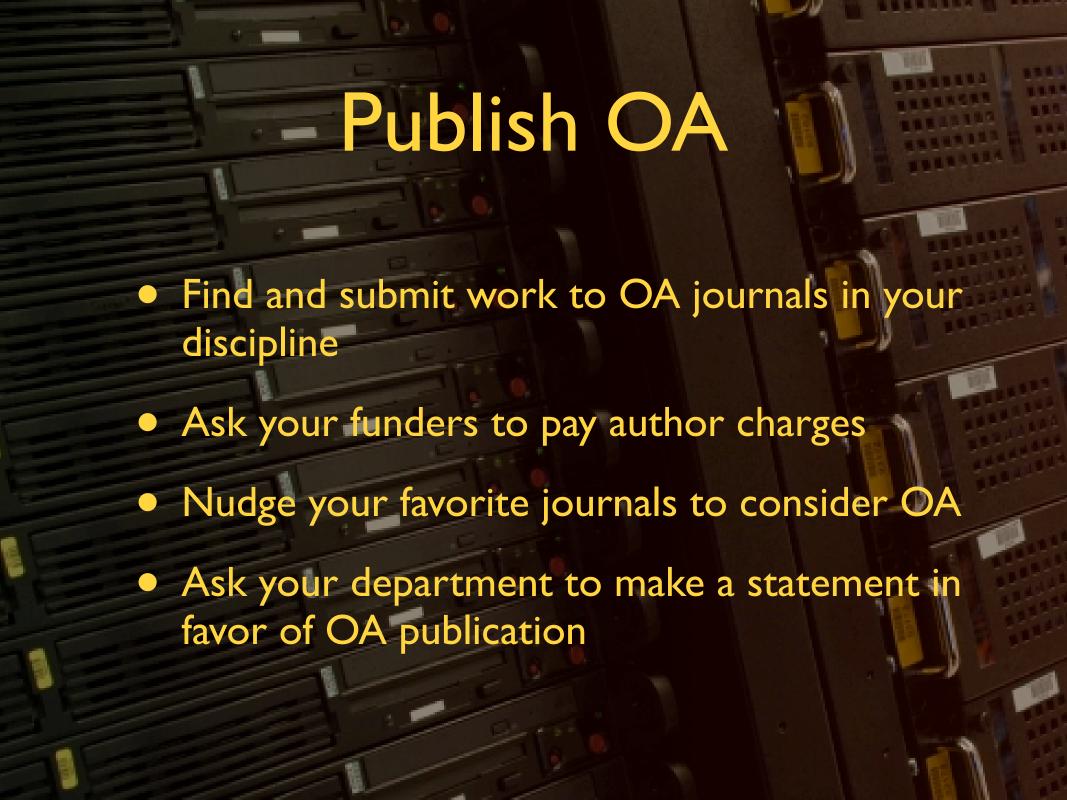
 - May become "cord ne"commenting" on the article-of-

What to do



Insist your publishers fly right

- After all, they're not paying you
- Don't sign over copyright!
- Check their policies
 - What do they charge?
 - Do they allow self-archiving?
 - Have they planned for subscribers' electronic access in case of business difficulties?
- When all else fails, revolt!
 - Join the best of the best
 - Support your discipline, not publishers' shareholders



Be a MARS Pathfinder!

- <http://mars.gmu.edu/>
- Register with MARS
- Email dsalo@gmu.edu to get deposit access
- Deposit your research!
 - Preprints/postprints, working papers
 - Conference slides
 - Podcasts or video
 - Datasets

Convince your colleagues

- Seven mentions before faculty investigate IRs
 - Be one (or more!) of the seven
 - Lead by example
 - Invite Dorothea Salo to faculty meetings!
- Join Cornell, California, and many other faculty senates:
 - Reject the Big Deal
 - Call for faculty to retain article copyrights
- Need an article on e-reserve? Ask the author to self-archive it instead.