

5-2012

Openness: Contribute, Access, Use

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Openness: contribute, access, use

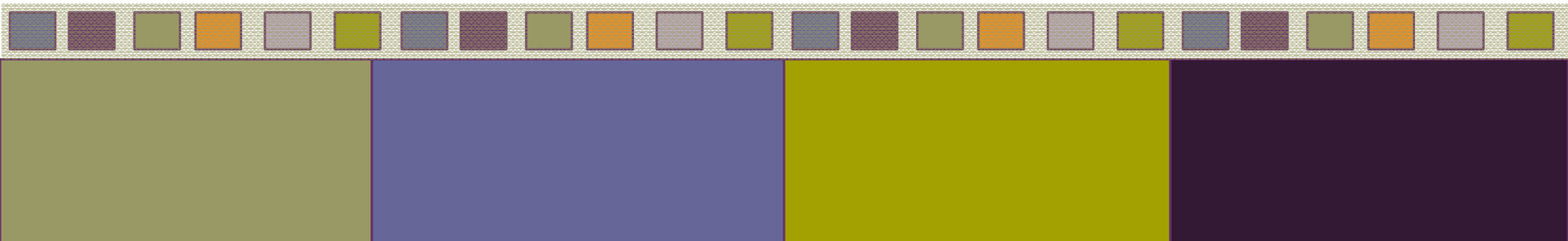
Lee Van Orsdel
Atlanta University
May 21, 2012



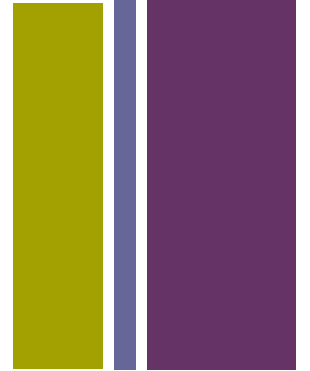
ACRL Scholarly Communications Roadshow:
From Understanding to Engagement

Learning Outcomes


- Understand that open access is part of a larger open movement
- Understand the conceptual underpinnings of open movements
- Identify current events within the open and public access movements
- Identify the benefits of OA and ways to address concerns about OA



OPEN *source*
education
textbooks
science
data
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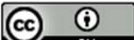
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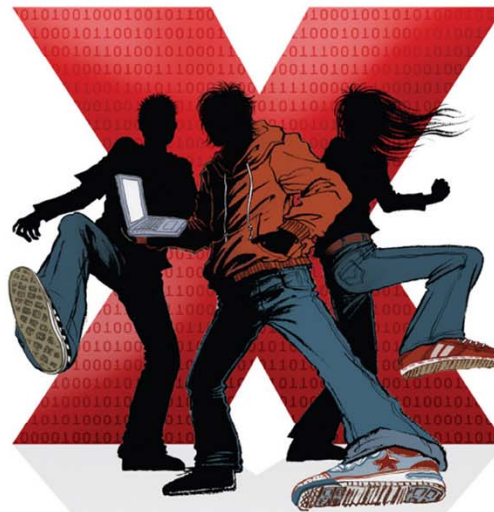


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author of **UGLIES**, **PRETTIES**, and **SPECIALS**

OPEN BOOKS



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online library and publication platform

OAPEN (Open Access Publishing in European Networks) is a collaborative initiative to develop and implement a sustainable Open Access publication model for academic books in the Humanities and Social Sciences. The OAPEN Library aims to improve the visibility and usability of high quality academic research by aggregating peer reviewed Open Access publications from across Europe.

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Academia Press

OPEN PEER REVIEW

SHAKESPEARE QUARTERLY



*Shakespeare
and New Media*

Published for the Folger Shakespeare Library
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The George Washington University
by The Johns Hopkins University Press

Volume 61

Fall 2010

Number 3

OPEN SCIENCE



Labs & Groups

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Protocols

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[Mycoplasma florum](#) [show]

[Mouse](#) [show]

[Mycobacterium smegmatis](#) [show]

[Plasmodium falciparum](#) [show]

[Streptomyces](#) [show]

[T7](#) [show]

[Yeast](#) [show]

[Phycomyces](#) [show]

In silico

[Cloning](#) [show]

[Data analysis](#) [show]

[Databases](#) [show]

[Modelling](#) [show]

[Sequence analysis](#) [show]

In vitro

[Nucleic acids](#) [show]

[DNA](#) [show]

[RNA](#) [show]

[Protein](#) [show]

[Lipid](#) [show]

[Mammalian cell culture](#) [show]

[Plant specific protocols](#) [show]

Other

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[Microscopy](#) [show]

OPEN DATA

- Open access to data not just papers
- The rate of discovery is accelerated by better access to data
- Actionable data
- Funder mandates around management and sharing of data (in some cases)

OPEN ACCESS



Self-archiving

Authors deposit manuscript in a repository
voluntarily or
to comply with mandate or
to follow discipline practice

OA publishing

Publisher finds alternative
funding model—all content
free to read
Funding model may require
author/funder to pay APC
Liberal author and user rights

Hybrid

Publisher experiments
Offers authors choice—OA or
regular publishing route
OA choice requires payment of
article processing fee
May/may not affect journal cost



Libre

+  permissions





What 'libre' means

open and free to read

open to contributions and participation

open to use with few or no restrictions

open to indexing and machine readable



OA approaching a tipping point? four indicators

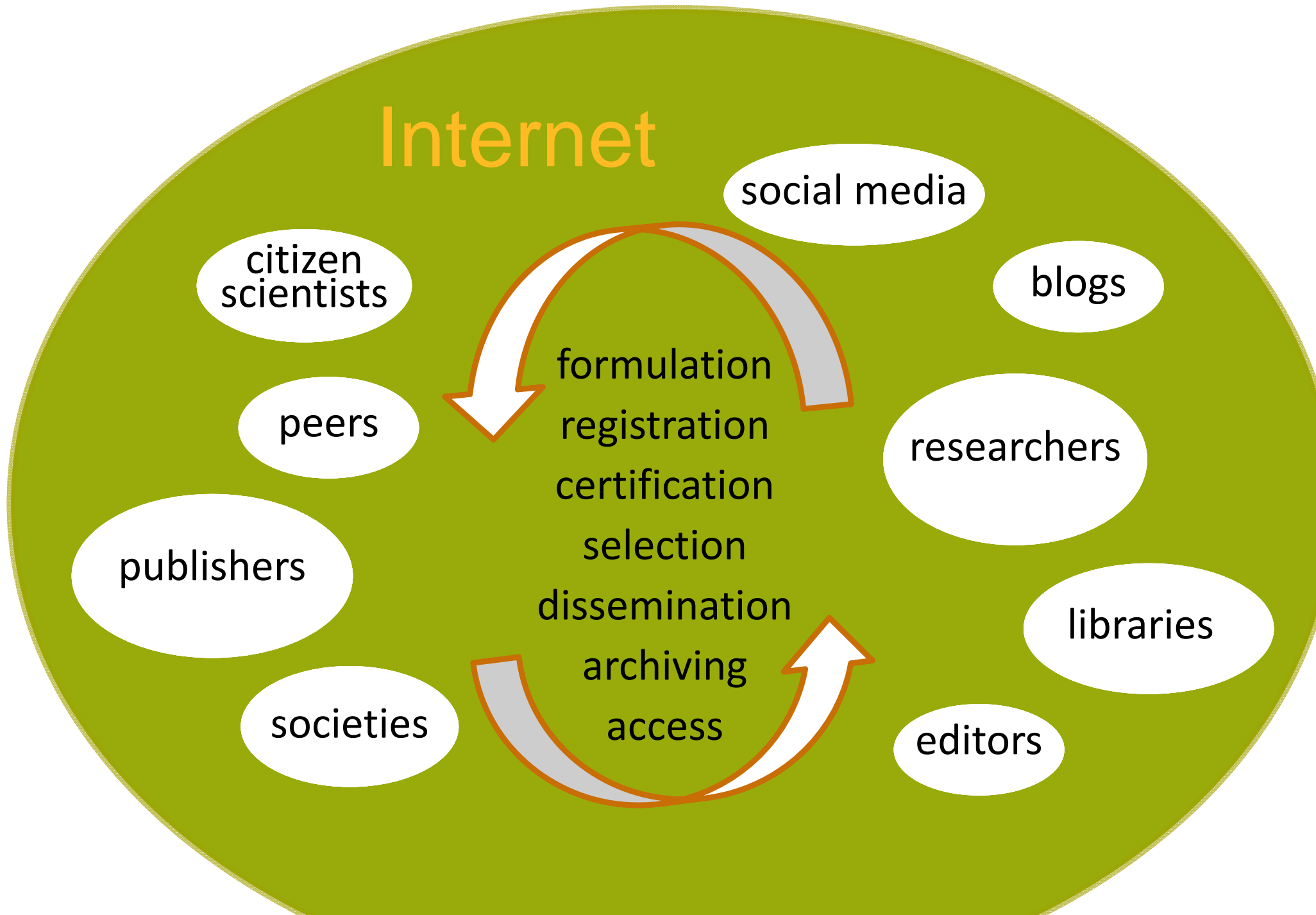
disaggregation of traditional publishing

rise of mega-journals

momentum from researchers & funders

push for access to publicly funded research

disaggregation of traditional publishing system



rise of the mega-journal



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PLoS ONE Highlights

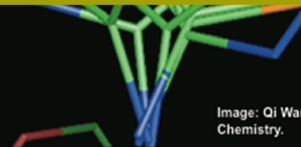


Image: Qi Wang et al. PLoS ONE. Chemistry.

PLOS one: Explore by Subject

Anesthesiology and Pain Management
Biochemistry
Biophysics
Biotechnology
Cardiovascular Disorders
Cell Biology
Chemical Biology
Chemistry
Computational Biology
Computer Science
Critical Care and Emergency Medicine
Dermatology
Developmental Biology
Diabetes and Endocrinology
Ecology
Evidence-Based Healthcare
Evolutionary Biology
Gastroenterology and Hepatology
Genetics and Genomics
Geriatrics
Hematology

Microbiology
Molecular Biology
Neurological Disorders
Neuroscience
Non-Clinical Medicine
Nutrition
Obstetrics
Oncology
Ophthalmology
Otolaryngology
Pathology
Pediatrics and Child Health
Pharmacology
Physics
Physiology
Plant Biology
Public Health and Epidemiology
Radiology and Medical Imaging
Respiratory Medicine
Rheumatology
Science Policy

RESEARCH ARTICLE



The Illusion of Owning a Third Arm

Article

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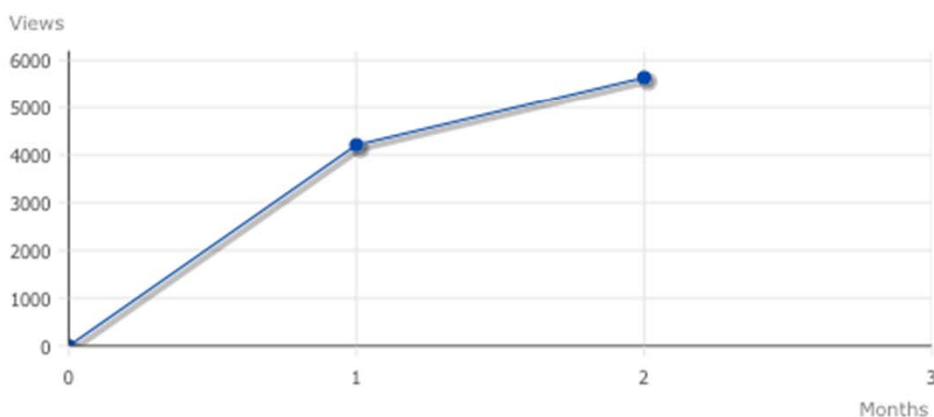
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HTML Page Views: **5049**

PDF Downloads: **567**

XML Downloads: **19**

Cumulative Views from **Feb 23, 2011** (publication date) - **Mar 9, 2011***



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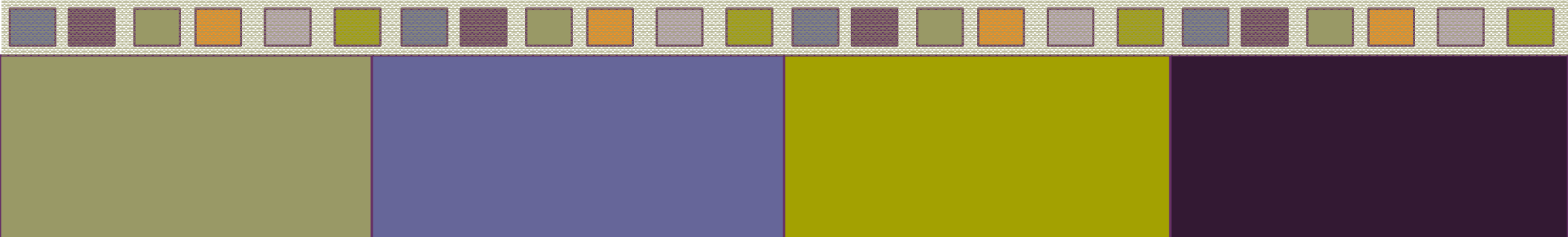
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peer review

certification selection

sound methodology

interest/importance





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expanding access

nature publishing group npg

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Genes | Genomes | Genetics

momentum from researchers and funders (including universities)

OA Repositories

The image is a collage of three overlapping screenshots of Open Access (OA) repository websites. The top-left screenshot shows the Cornell University Library's arXiv.org interface, featuring a search bar and a list of physics subjects. The top-right screenshot shows the IDEALS (Illinois Digital Environment for Access to Learning) website, with a navigation menu and a search bar. The bottom screenshot is a larger view of the Digital Commons @ IWU website, which includes a header with the university logo, a navigation menu, and a main content area with a search bar and a list of categories for browsing research, scholarship, and creative work.

arXiv.org
Cornell University Library
Open access to 668,198 e-prints in Physics, Mathematics, and Engineering
Subject search and browse:
21 Jan 2010: Collaborative support plan announced
8 Apr 2009: Added public author identifiers, Facebook
See cumulative "What's New" pages. Read robots.txt

Physics

- Astrophysics ([astro-ph new](#), [recent](#), [find](#)) includes: Cosmology and Extragalactic Astrophysics
- Condensed Matter ([cond-mat new](#), [recent](#), [find](#)) includes: Disordered Systems and Neural Networks
- General Relativity and Quantum Cosmology
- High Energy Physics - Experiment ([hep-ex new](#), [recent](#), [find](#))
- High Energy Physics - Lattice ([hep-lat new](#), [recent](#), [find](#))
- High Energy Physics - Phenomenology ([hep-ph new](#), [recent](#), [find](#))
- High Energy Physics - Theory ([hep-th new](#), [recent](#), [find](#))
- Mathematical Physics ([math-ph new](#), [recent](#), [find](#))
- Nuclear Experiment ([nucl-ex new](#), [recent](#), [find](#))
- Nuclear Theory ([nucl-th new](#), [recent](#), [find](#))
- Physics ([physics new](#), [recent](#), [find](#)) includes: Accelerator Physics; Atmospheric and Oceanic Physics; General Physics; Geophysics; History and Philosophy of Physics
- Quantum Physics ([quant-ph new](#), [recent](#), [find](#))

Mathematics

- Mathematics ([math new](#), [recent](#), [find](#)) includes (see detailed description): Algebraic Combinatorics; Algebraic Geometry; Algebraic Number Theory; Algebraic Topology; Functional Analysis; General Mathematics; General Relativity and Quantum Cosmology; Operator Algebras; Optimization and Control Theory

Nonlinear Sciences

- Nonlinear Sciences ([nlin new](#), [recent](#), [find](#)) includes (see detailed description): Adaptivity

Computer Science

IDEALS
Illinois Digital Environment for Access to Learning

Digital Commons @ IWU
Illinois Wesleyan University

My Account FAQ About Home

Browse

- IDEALS
- Titles
- Authors
- Subjects
- Date
- Communities

My Account

- My IDEALS
- Submit a New Item
- My Profile
- Logout

Administrative

- Access Control
- People
- Groups
- Authorizations

Registries

Browse Research, Scholarship and Creative Work

- [Schools, Departments or Programs](#)
- [Individual Faculty & Staff Pages \(SelectedWorks\)](#)
- [Journals and peer-reviewed series](#)
- [Conferences & Events](#)

Digital Commons @ Illinois Wesleyan University (DC@IWU) reflects the nature of the intellectual, creative and scholarly culture of our campus. DC@IWU serves as the central location for outstanding student work, faculty scholarship, University records, and campus history. Our goals are to:

- Promote and disseminate academic and creative achievements of students and faculty
- Ensure preservation of and persistent access to said work
- Increase discovery of IWU scholarship and artistic expressions
- Foster scholarly collaborations with colleagues
- Document and record IWU's history and progress

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in this repository ▾

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SelectedWorks

- Log into SelectedWorks
- Set-up Instructions (Campus Access Only)

Browse

- Collections
- Disciplines
- Authors

*momentum from researchers and funders
(including universities)*



OA Mandates

Harvard (9 schools)

MIT

Kansas

Oberlin

Duke

and others (<http://roarmap.eprints.org>)



momentum from researchers and funders

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RECENT NEWS

[Open sesame \(The Economist\)](#)
April 17, 2012

...The Wellcome Trust, a medical charity that pumps more than £600m (\$950m) a year into research, already requires open access within six months of publication, but the compliance rate is only 55%. The charity says it will "get tough" on scientists who publish in journals ...[read more.](#)

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wellcome trust

momentum from researchers and funders



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Who's online

There are currently 1 user and 123 guests online.

Online users

• NostenF

• 734 malaria professionals are enjoying the free benefits of MalariaWorld today

Home > Bart G.J. Knols's blog

“We envision a world in which there is free and unrestricted access to information on malaria, independent of geographical locality or socio-economic status.

Knowledge empowers. Empowered people prevent and control malaria better. “

2 comments Read more 162 reads 1 attachment

E-interview with Prof. Marcel Tanner (Switzerland, 1952)

Submitted by Bart Knols on April 4, 2012 - 20:48

Tags: E-interviews Marcel Tanner STPH



Professor Tanner is Chief Executive of the Swiss Tropical and Public Health Institute (Swiss TPH), based in Basel. He is an epidemiologist and chair of medical parasitology and epidemiology at the University of Basel. Besides this, he is engaged in numerous activities and initiatives that research and control communicable diseases, notably malaria

Offline

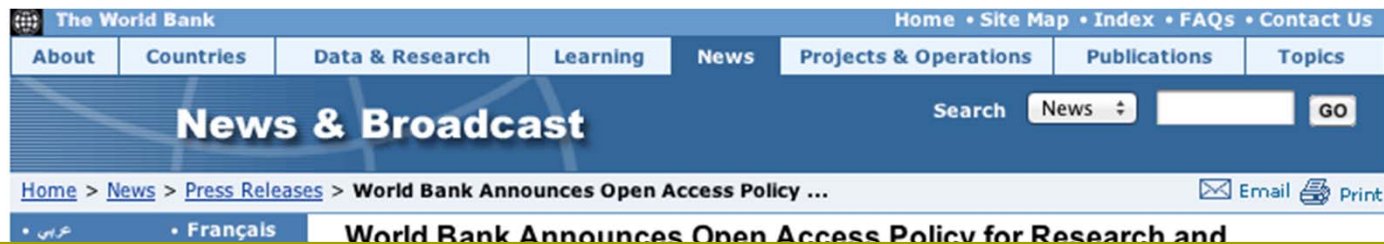
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Posts:



momentum from researchers and funders



Quoting World Bank president:

“Knowledge is power....Making our knowledge widely and readily available will empower others to come up with solutions to the world’s toughest problems. Our new Open Access policy is the natural evolution for a World Bank that is opening up more and more.”

Issue Briefs	<i>world's toughest problems. Our new Open Access policy is the natural evolution for a world Bank that is opening up more and more."</i>
Results Profiles	
Events and Consultations Calendar	
Media Contacts	
Online Media Briefing Cntr Embargoed news for accredited journalists only. Login / Register	
Resources	
▶ About Media Team	
▶ Contacts	
▶ Data	
▶ FAQs	
▶ Online Media Briefing	

The policy will also apply to Bank research published with third party publishers including the institution's two journals—*World Bank Research Observer (WBRO)* and *World Bank Economic Review (WBRE)*—which are published by Oxford University Press, but in accordance with the terms of third party publisher agreements. The Bank will respect publishing embargoes, but expects the amount of time it takes for externally published Bank content to be included in its institutional repository to diminish over time.

In support of the new Open Access Policy, the World Bank is adopting a Creative Commons Attribution (CC BY) copyright license for content published by the Bank, the most accommodating of all licenses offered by Creative Commons. It allows anyone to distribute, reuse, and build upon the Bank's published work, even commercially, as long as the Bank is given credit for the original creation. The CC BY license helps the Bank to maximize its impact while simultaneously protecting the Bank's reputation and the integrity of its content.

World Bank content published by third party publishers will be available in the Open Knowledge Repository under a more restrictive Creative Commons license. The new copyright practice goes

push for access to publicly funded research



NIH Mandate

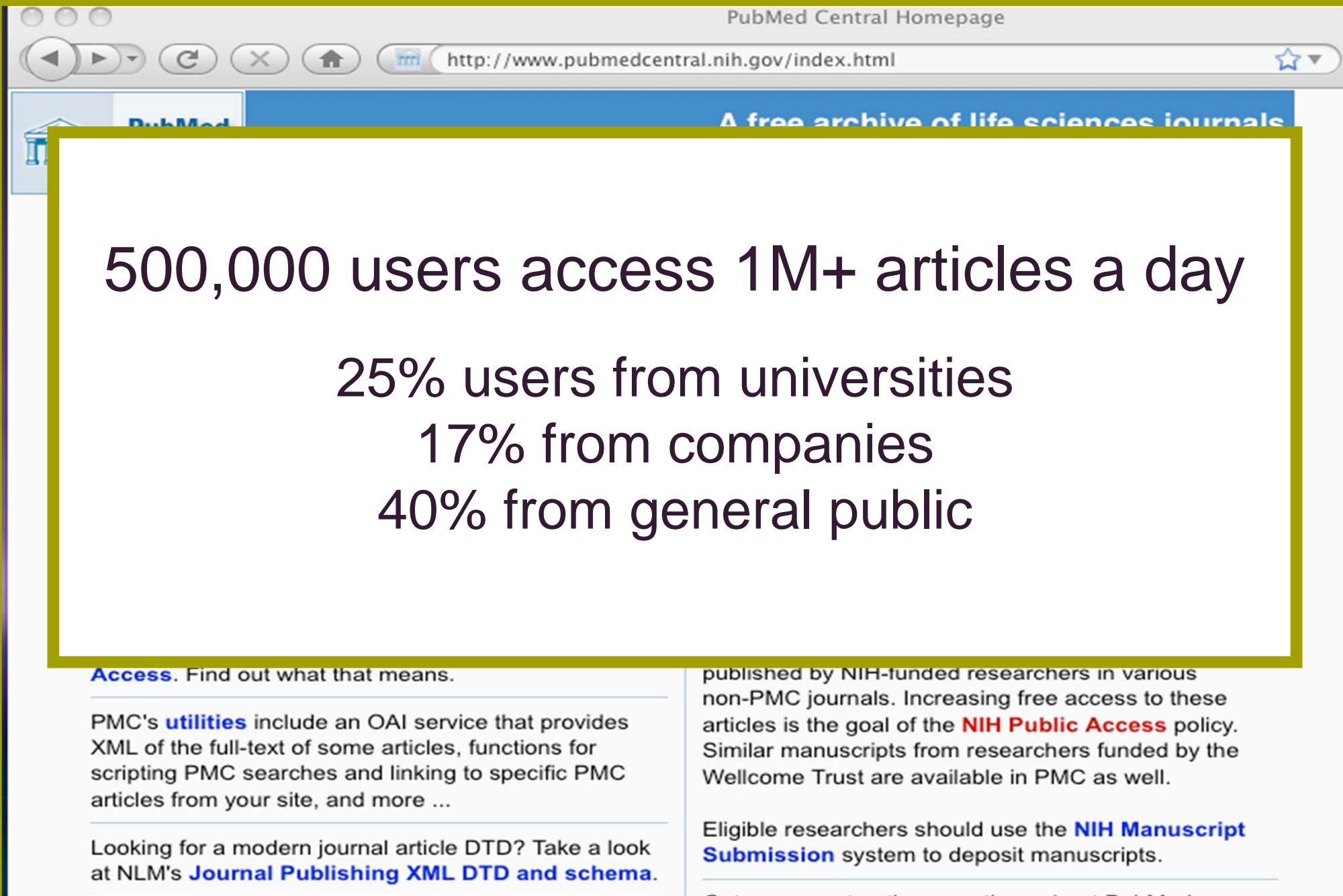
\$ 32 Billion

biomedical research grants each year

90,000

peer-reviewed articles each year

PubMed Central

A screenshot of the PubMed Central homepage in a web browser. The browser's address bar shows the URL 'http://www.pubmedcentral.nih.gov/index.html'. The page header includes the text 'PubMed Central Homepage' and 'A free archive of life sciences journals'. A large white text box with a yellow border is overlaid on the page, containing statistics about user access. Below the text box, the page content is partially visible, showing sections for 'Access', 'PMc's utilities', and 'Eligible researchers should use the NIH Manuscript Submission system'.

500,000 users access 1M+ articles a day

25% users from universities
17% from companies
40% from general public

Access. Find out what that means.

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 ...

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

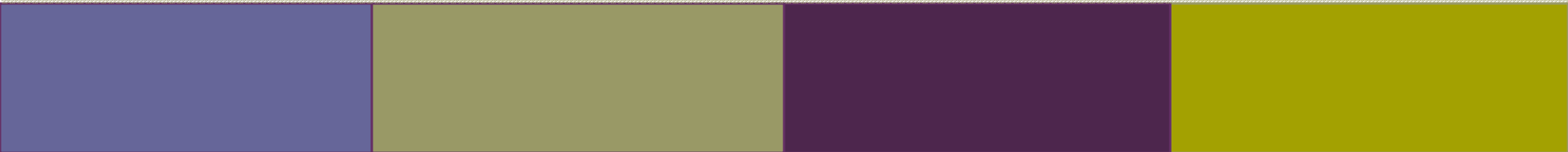
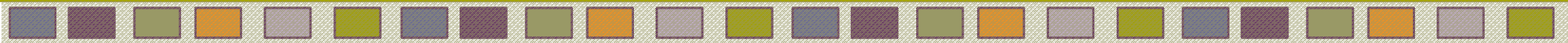
published by NIH-funded researchers in various non-PMc journals. Increasing free access to these articles is the goal of the **NIH Public Access** policy. Similar manuscripts from researchers funded by the Wellcome Trust are available in PMc as well.

Eligible researchers should use the **NIH Manuscript Submission** system to deposit manuscripts.

push for access to publicly funded research

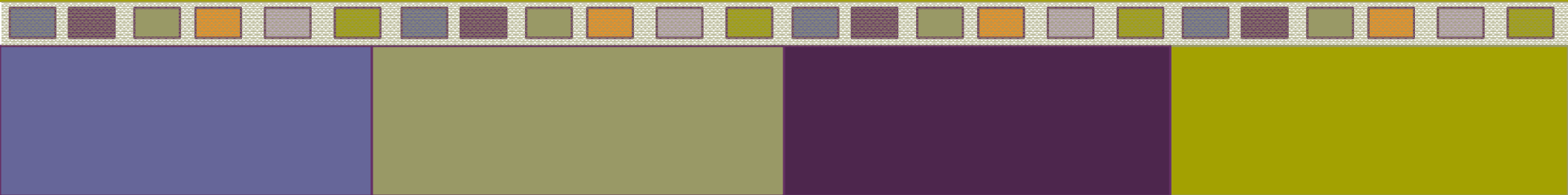
FRPAA

Federal Research
Public Access Act



push for access to publicly funded research

We the People petition movement



OA approaching a tipping point? four indicators

disaggregation of traditional publishing

rise of mega-journals

momentum from researchers & funders

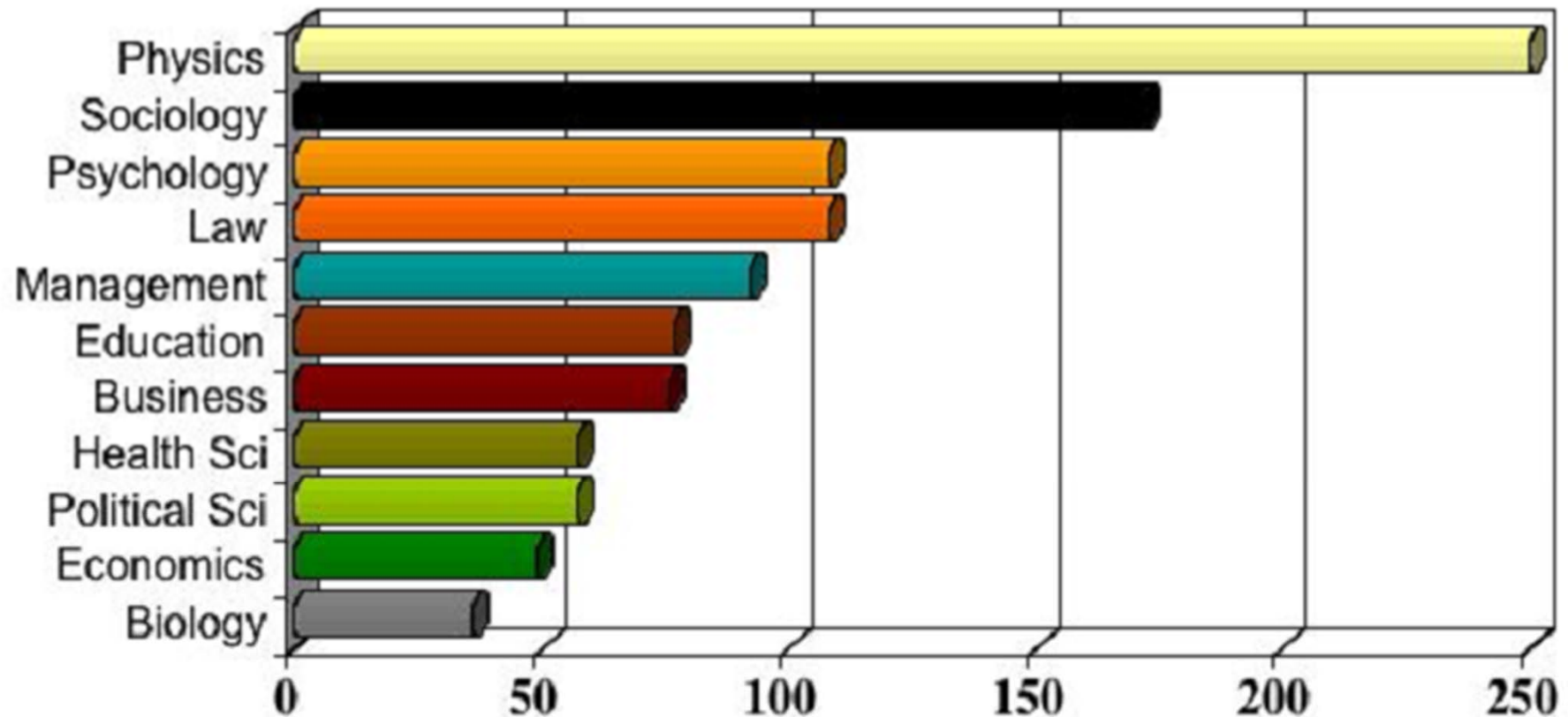
push for access to publicly funded research



?

Arguments you can
make for open access

Open Access increases citations



% increase in citations with Open Access

From a 12-year sample of 14 M articles in ISI databases
Data: Brody & Harnad 2004; Hajjem et al. 2005



We don't know who all might
want to read our stuff

interdisciplinary readers

underfunded readers

international readers

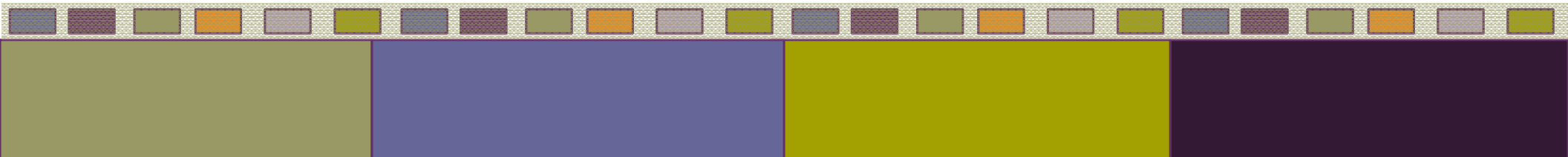
digital readers

serendipitous readers



'Better mining' argument

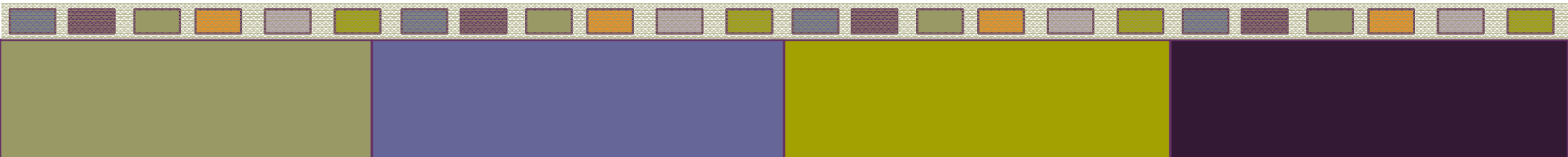
allows for better discovery within
and between disciplines
(text and data mining)





'Public Good' arguments

speeds invention and discovery
greater return on investment
serves mission of universities





Virtually all OA publishers offer...

better support for authors

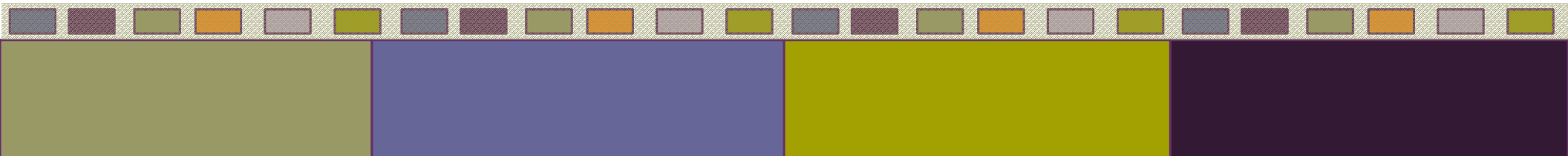
shorter time to publication

rapid dissemination

more eyes on the page

better feedback to authors about use

authors keep copyrights



Concerns you may hear about open access

?

? Hybrid Models ?

- mixed business model uncomfortable for many
- relatively low adoption rate by authors (around 2%)
- unknown impact on subscription prices
- many OA funds exclude funding for hybrid articles

For faculty who are skeptical...

Has taken time for impact factors
and reputations to build

Business models still emerging

Author pays (APC) has better
traction in the STM community

Growing challenge with
predatory publishers

OA archiving has challenges

Sustainability can be an issue

Participation of faculty typically weak
(particularly for institutional)

Confusion over what can be deposited
(post print, pre print, published version?)

Copyright issues murky and (often) frustrating

ATTRIBUTION

Screenshots used under fair use.

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