

Sri Lankan Workshop on Open Access, Colombo, 29/30 April 2013

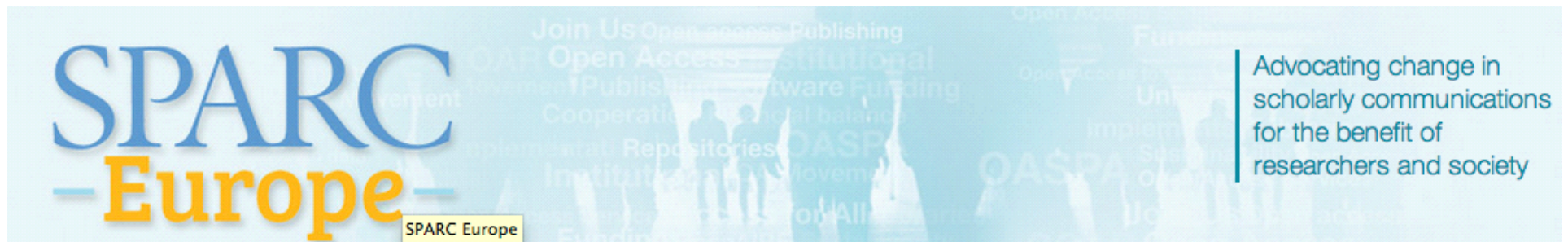
# The benefits of Open Access

Alma Swan

SPARC Europe

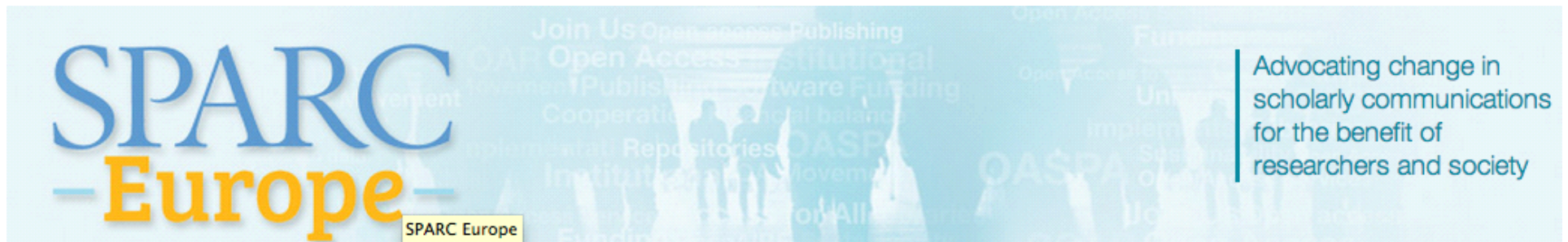
Enabling Open Scholarship

Key Perspectives Ltd



# Old paradigms of research dissemination

- Use of proxy measures of an individual scholar's merit is as good as it gets
- The responsibility for disseminating your work rests with the publisher
- The printed article is the format of record
- Other scholars have time to search out what you want them to know

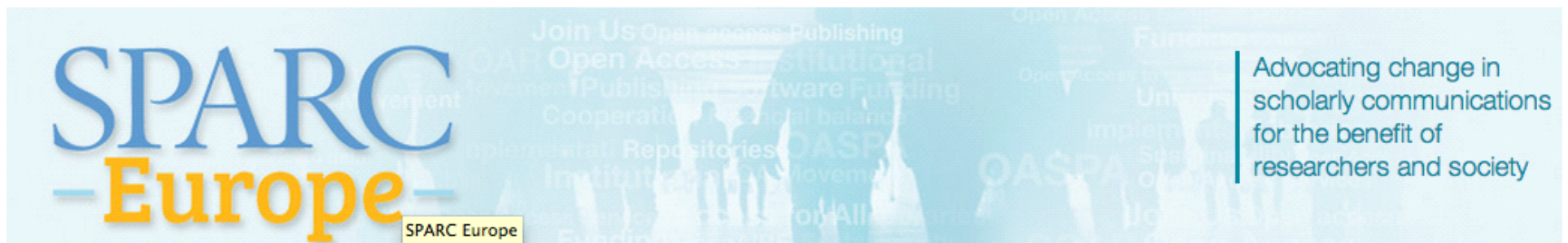


# New paradigms of research dissemination

- Rich, deep, broad metrics for measuring the contributions of individual scholars
- Effective dissemination of your work is now in your hands (at last)
- The digital format will be the format of record (is already in many areas)
- Unless you routinely publish in *Nature* or *Science*, ‘getting it out there’ is up to you

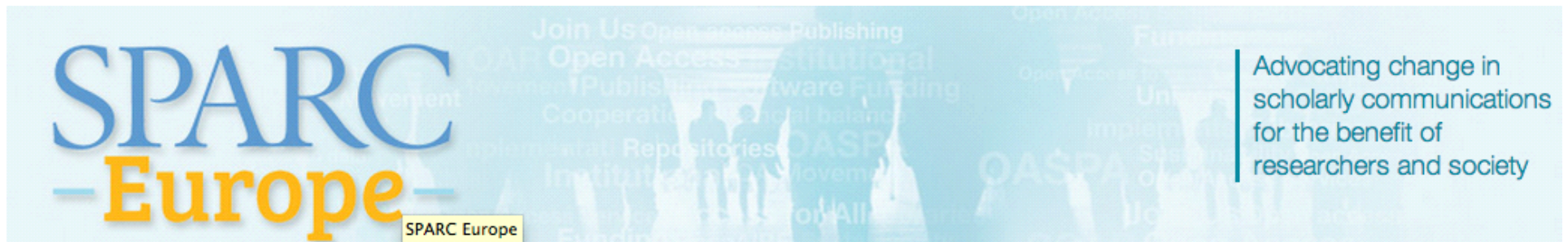
# Open Access

- Immediate
- Free (to use)
- Free (of restrictions)
- Access to the peer-reviewed literature (and data)
- Not vanity publishing
- Not a 'stick anything up on the Web' approach
- Moving scholarly communication into the Web Age



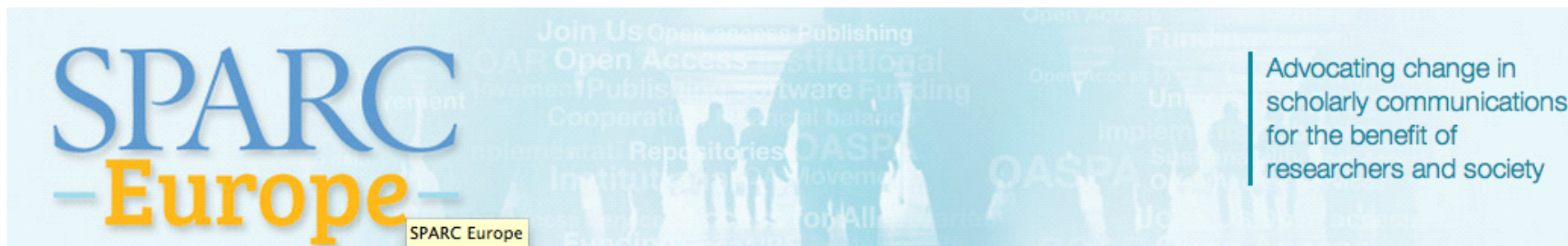
# Open Access: how

- Open Access journals  
([www.doaj.org](http://www.doaj.org))
- Open Access repositories
- Open Access monographs



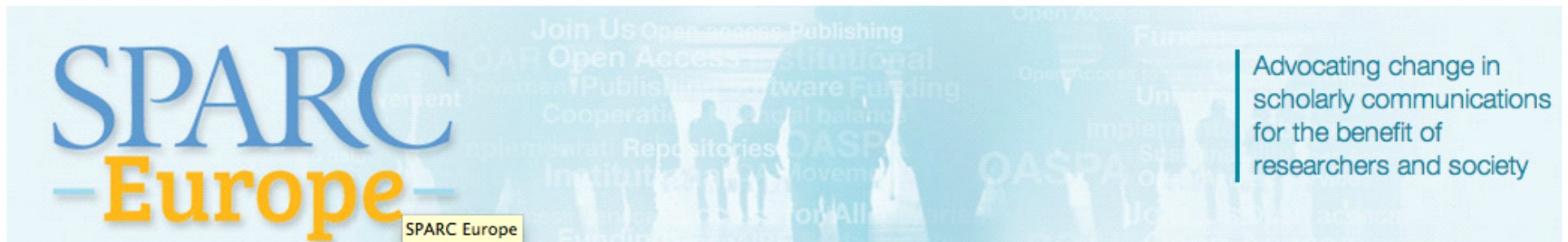
# Open Access journals

- Content available free of charge online
- In many cases, free of restrictions on use too
- Some charge at the ‘front end’
- More than half do not levy a charge at all
- Around 9000 of them
- Listed in the Directory of Open Access Journals (DOAJ: [www.doaj.org](http://www.doaj.org))



# Open Access repositories

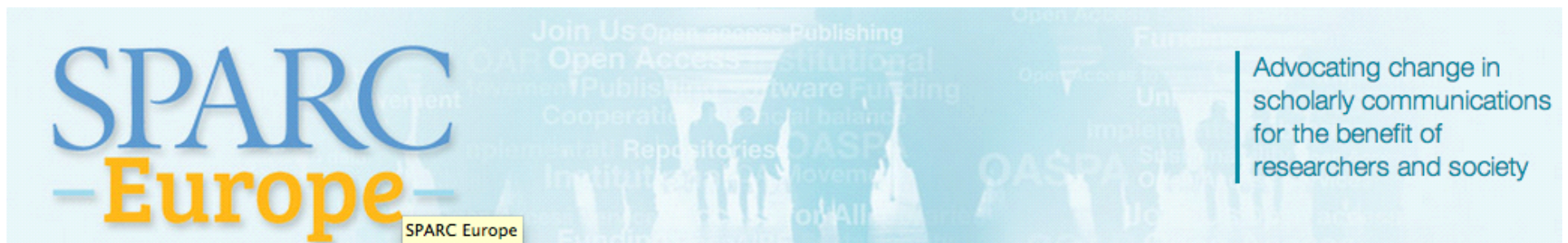
- Digital collections
- Most usually institutional
- Sometimes centralised (subject-based)
- Interoperable
- Form a network across the world
- Create a global database of openly-accessible research
- Currently circa 3390





# Author advantages from Open Access

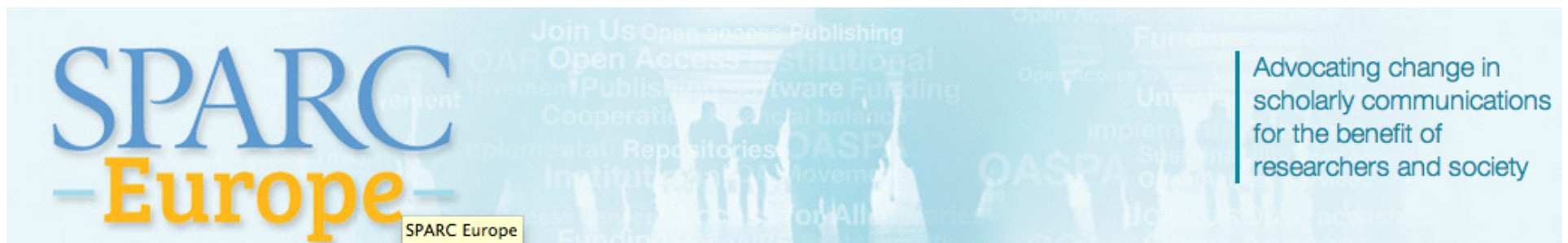
- Visibility
- Usage
- Impact
- Personal profiling and marketing





# An author's own testimony on open access visibility

“Self-archiving in the PhilSci Archive has given instant world-wide visibility to my work. As a result, I was invited to submit papers to refereed international conferences/journals and got them accepted.”

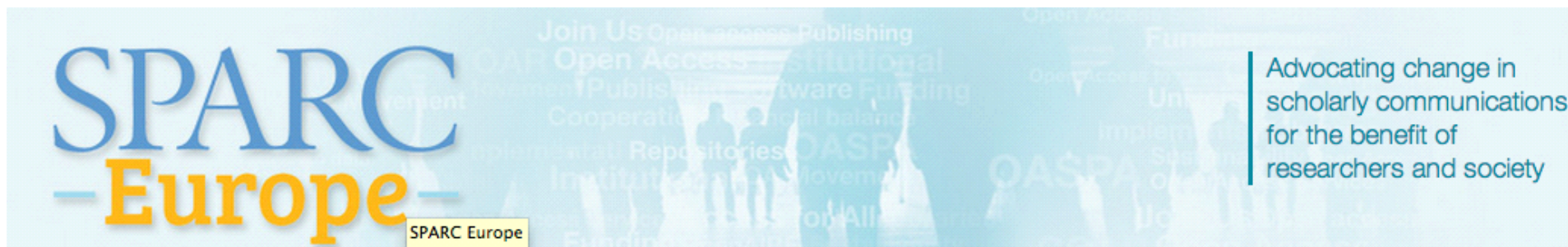


# Professor Martin Skitmore

School of Urban Design, QUT

“There is no doubt in my mind that ePrints [university repository] will have improved things – especially in developing countries such as Malaysia ... many more access my papers who wouldn’t have thought of contacting me personally in the ‘old’ days.

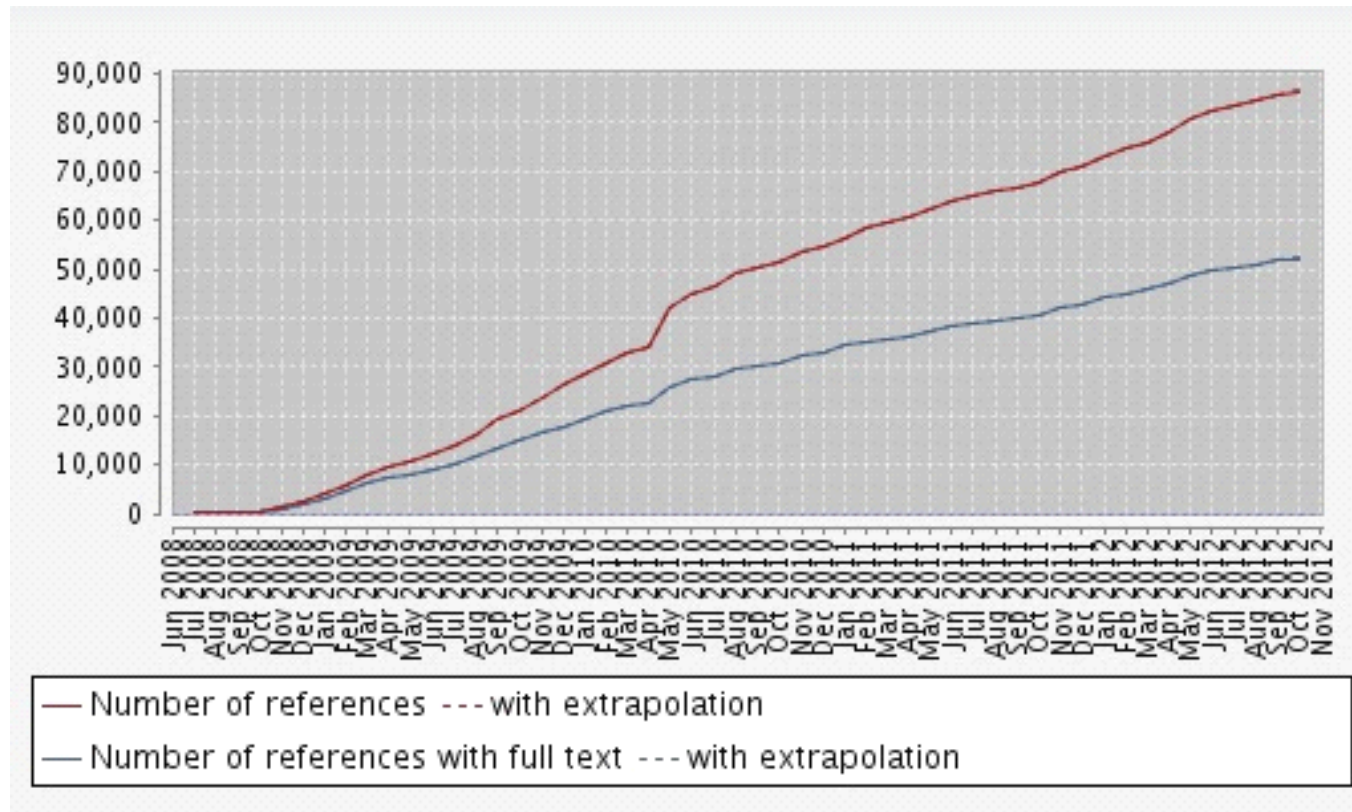
While this may ... increase ... citations, **the most important thing ... is that at least these people can find out more about what others have done...**”







# People deposit

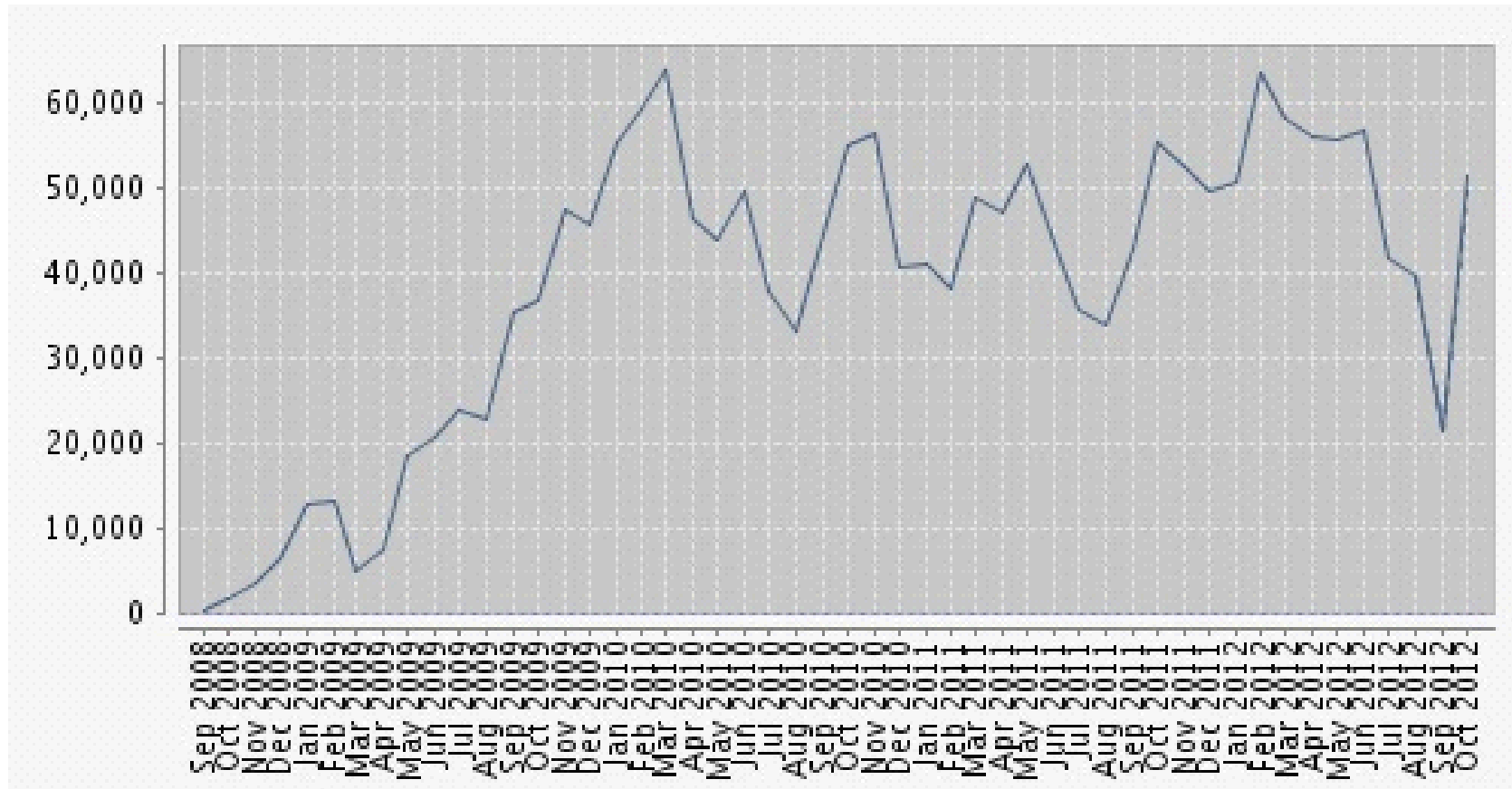


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# And it gets used



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## Why Open Access can change science in the developing world

[URI & RDF](#)

Swan, A. and Hall, M. (2010) Why Open Access can change science in the developing world. *Public Service Review: International Development Online* . (In Press)

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**Item Type:** Article

**Creator/Authors:**



[Alma Swan](#)



Martin Hall

**Keywords:** Open Access Developing countries Developing world

**Research Group:** [Intelligence, Agents, Multimedia](#)

**Date:** September 2010

Information about this record:

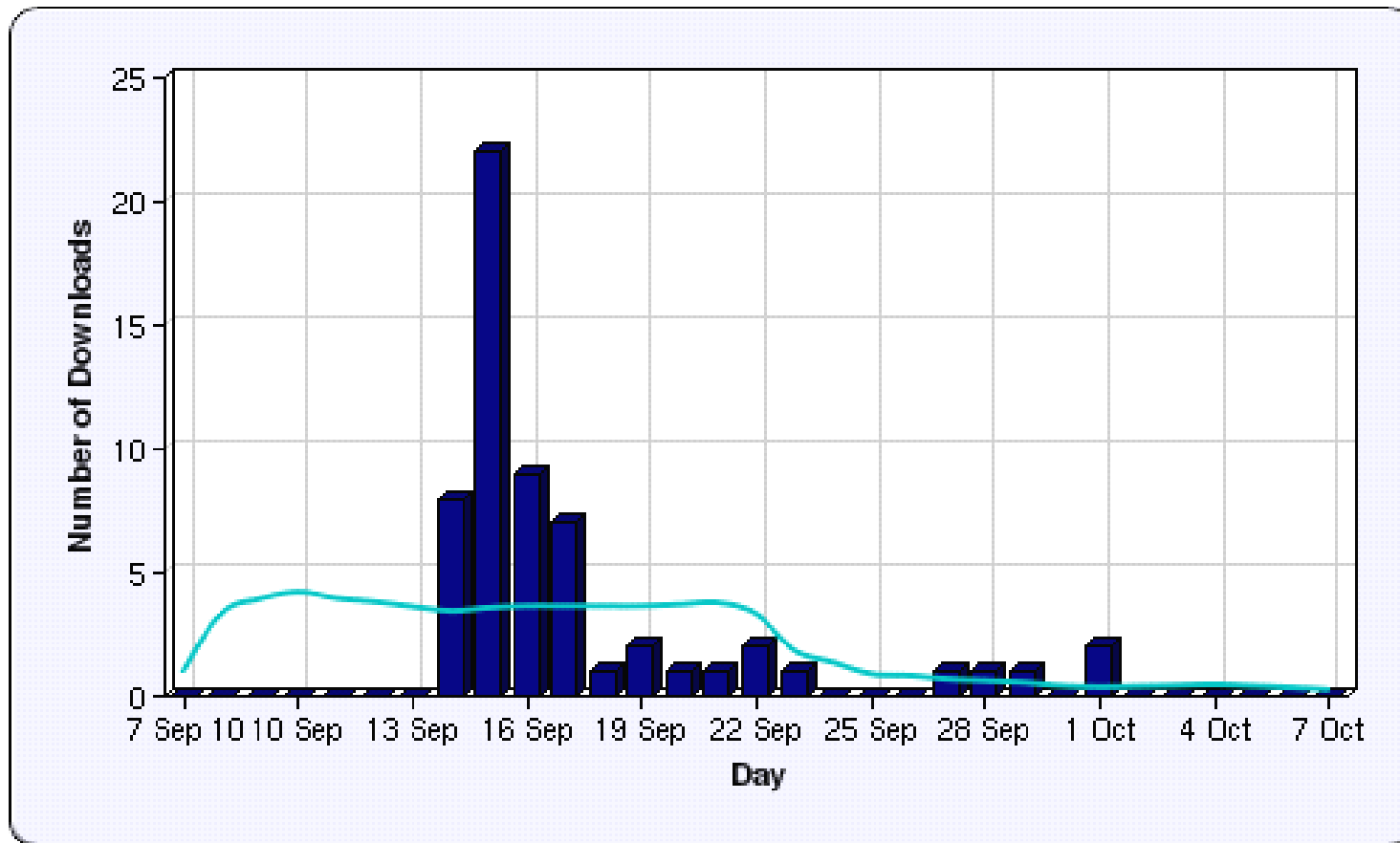
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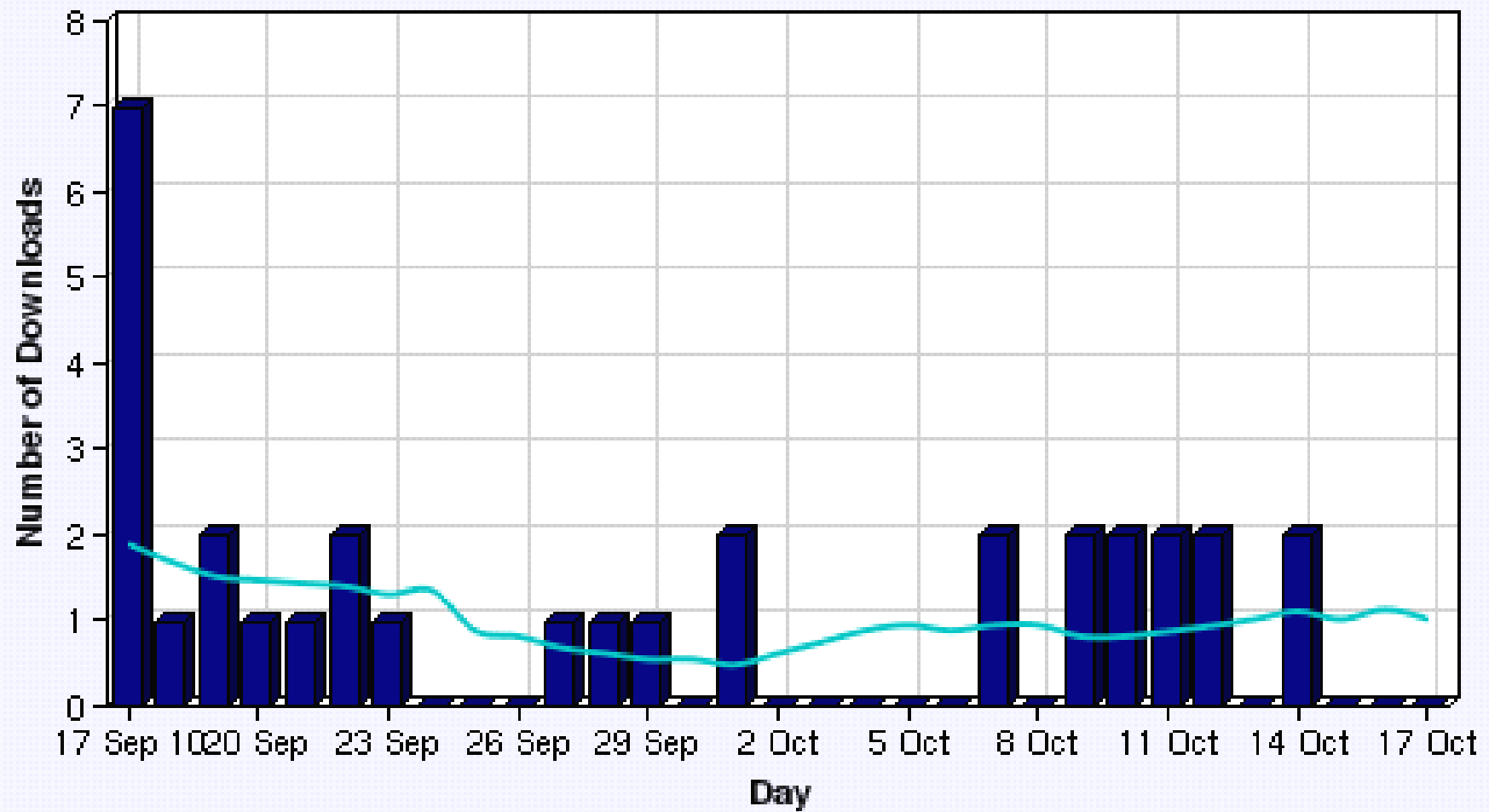
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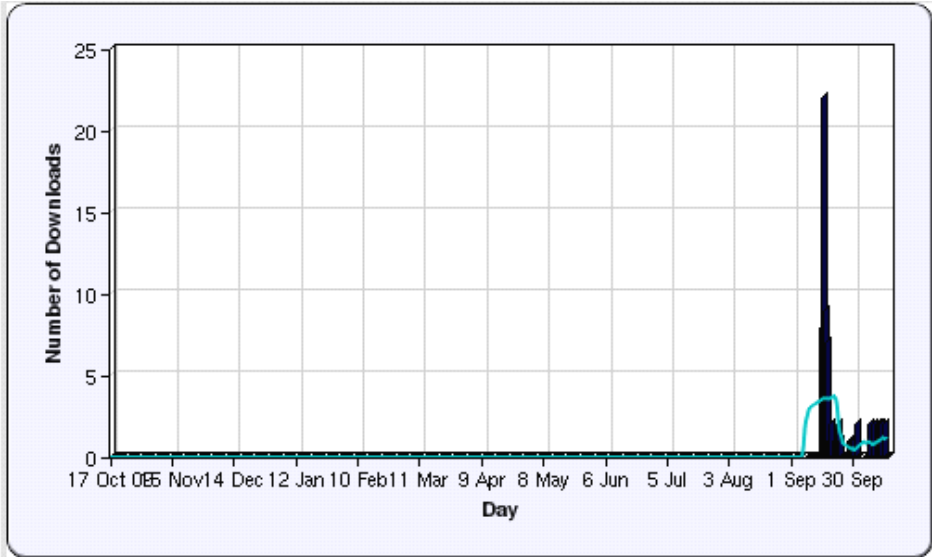
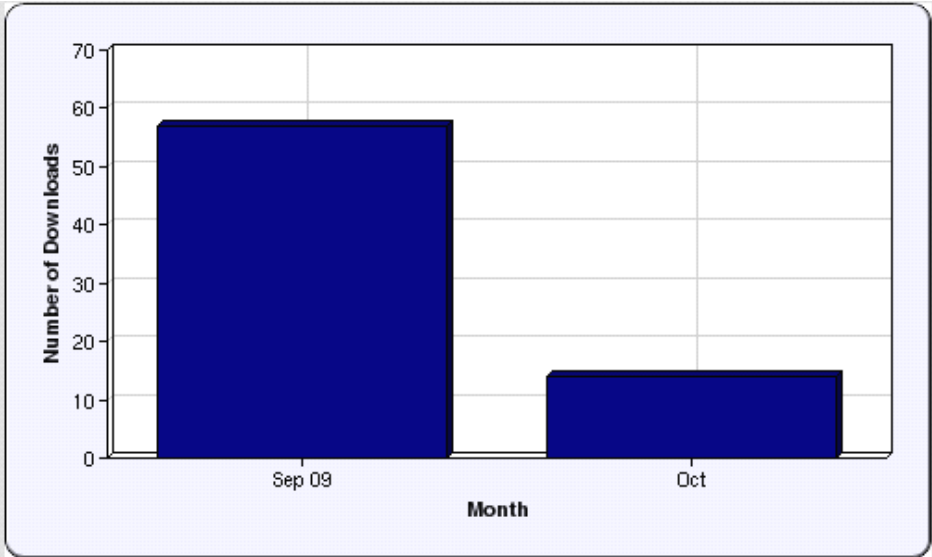
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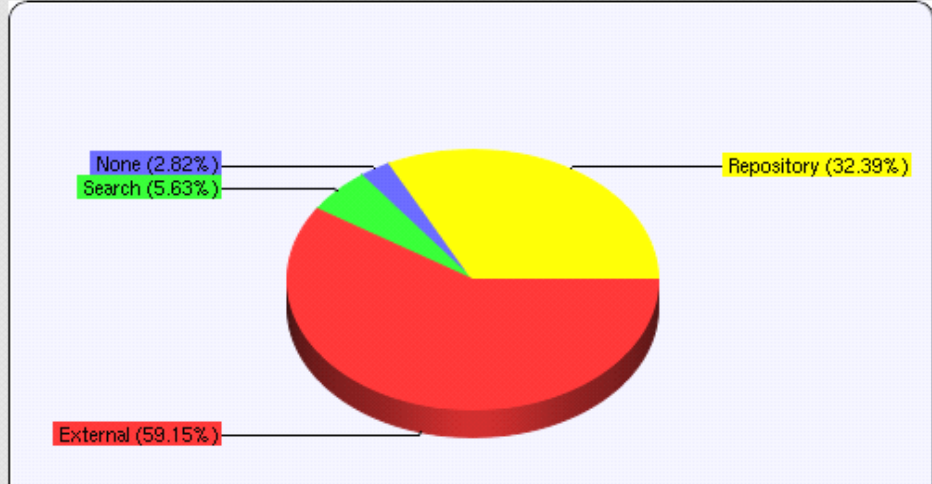
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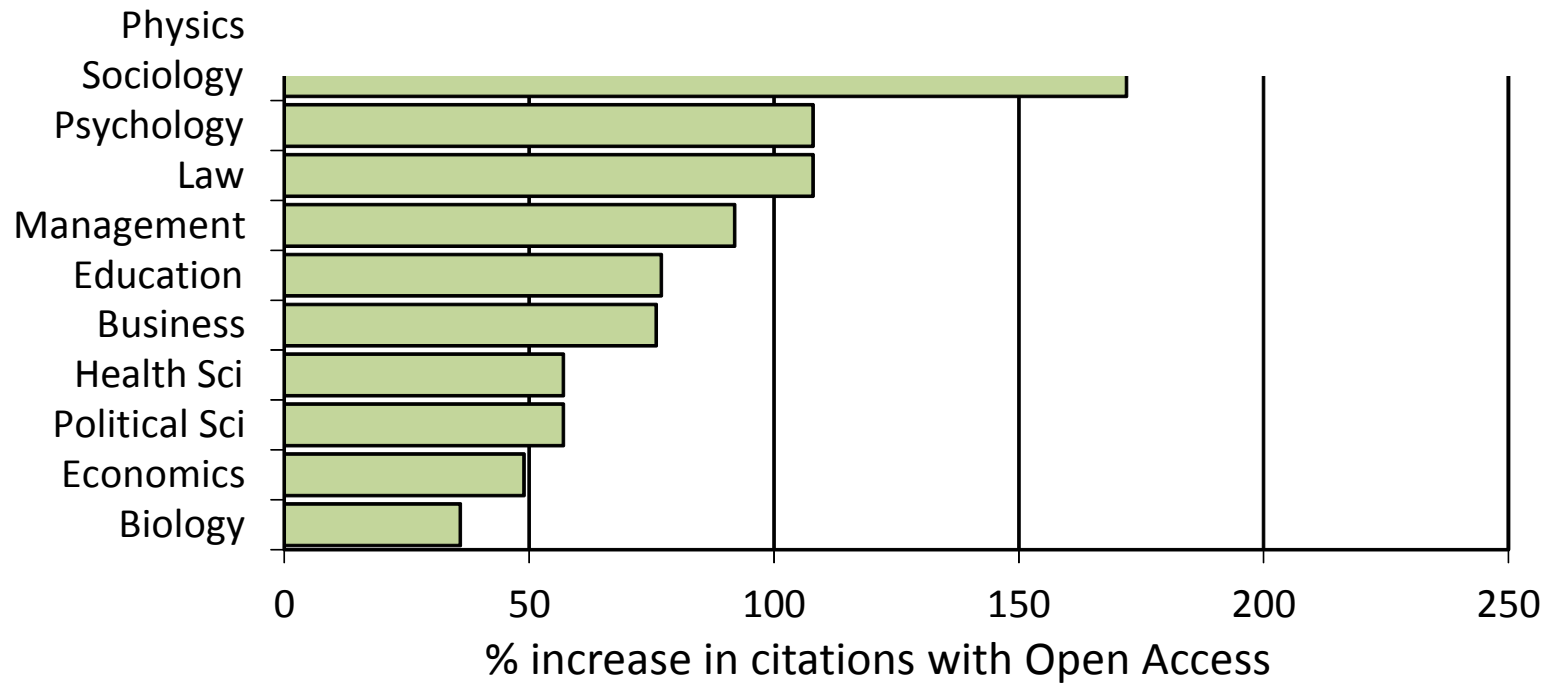


**TopTenAcademies**

Domain Tail	Downloads
nottingham.ac.uk	2
salford.ac.uk	2
cf.ac.uk	1
yale.edu	1
une.edu.au	1
sihe.ac.uk	1
mdp.edu.ar	1
univie.ac.at	1

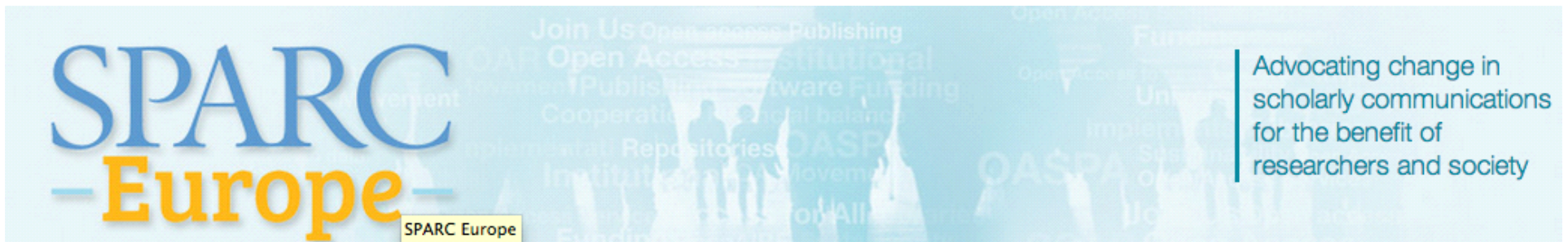


# Impact

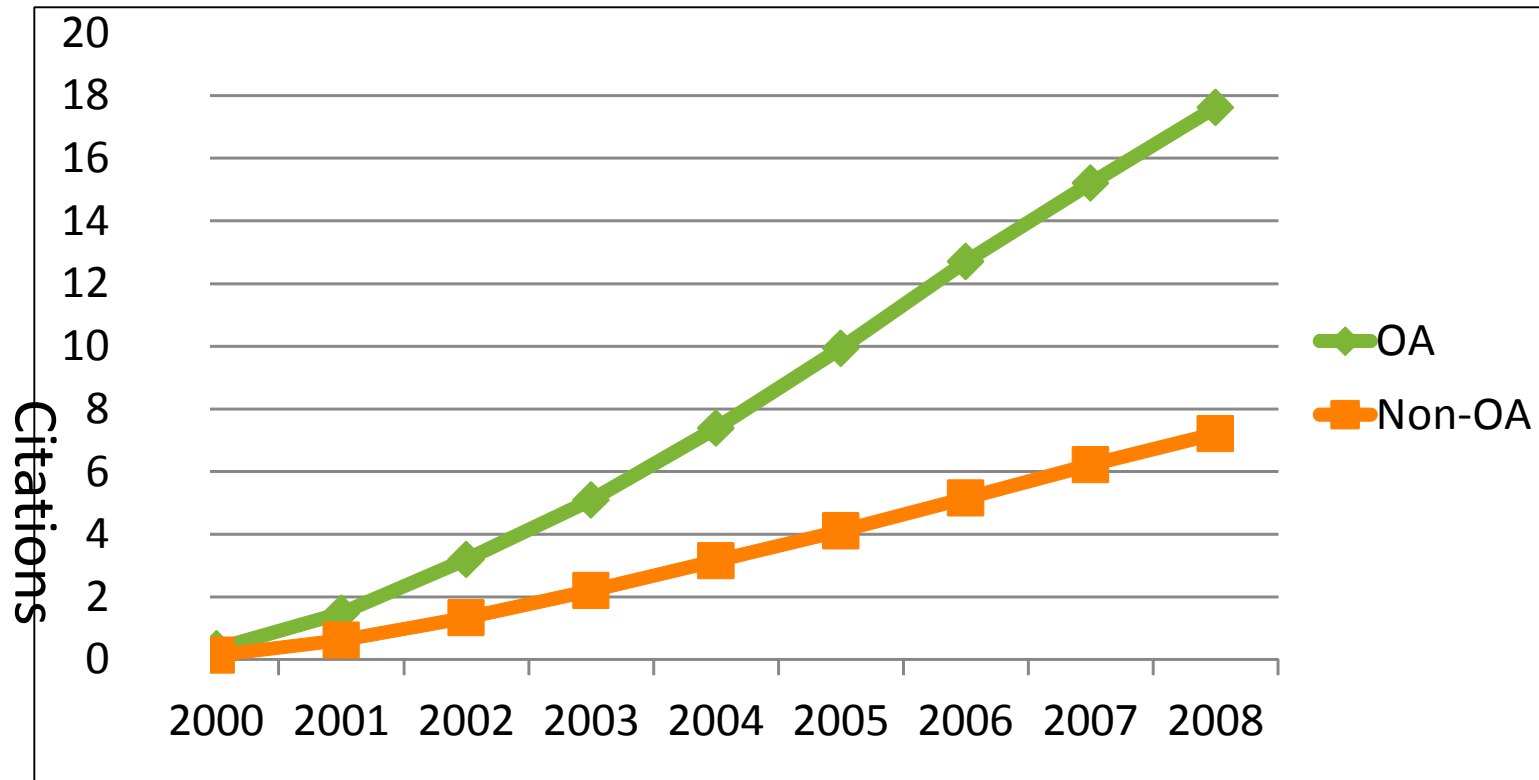


**Range = 36%-200%**

(Data: Stevan Harnad and co-workers)

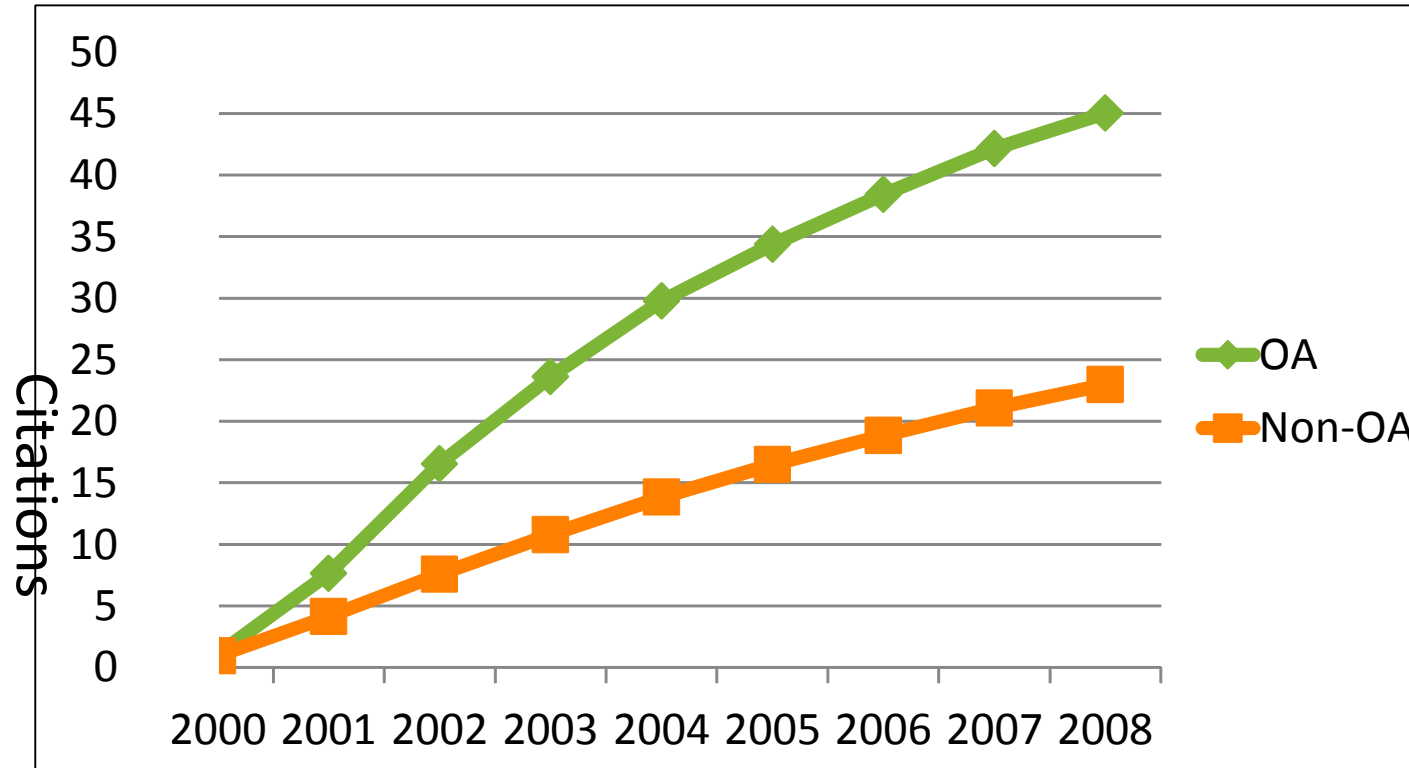


# Engineering



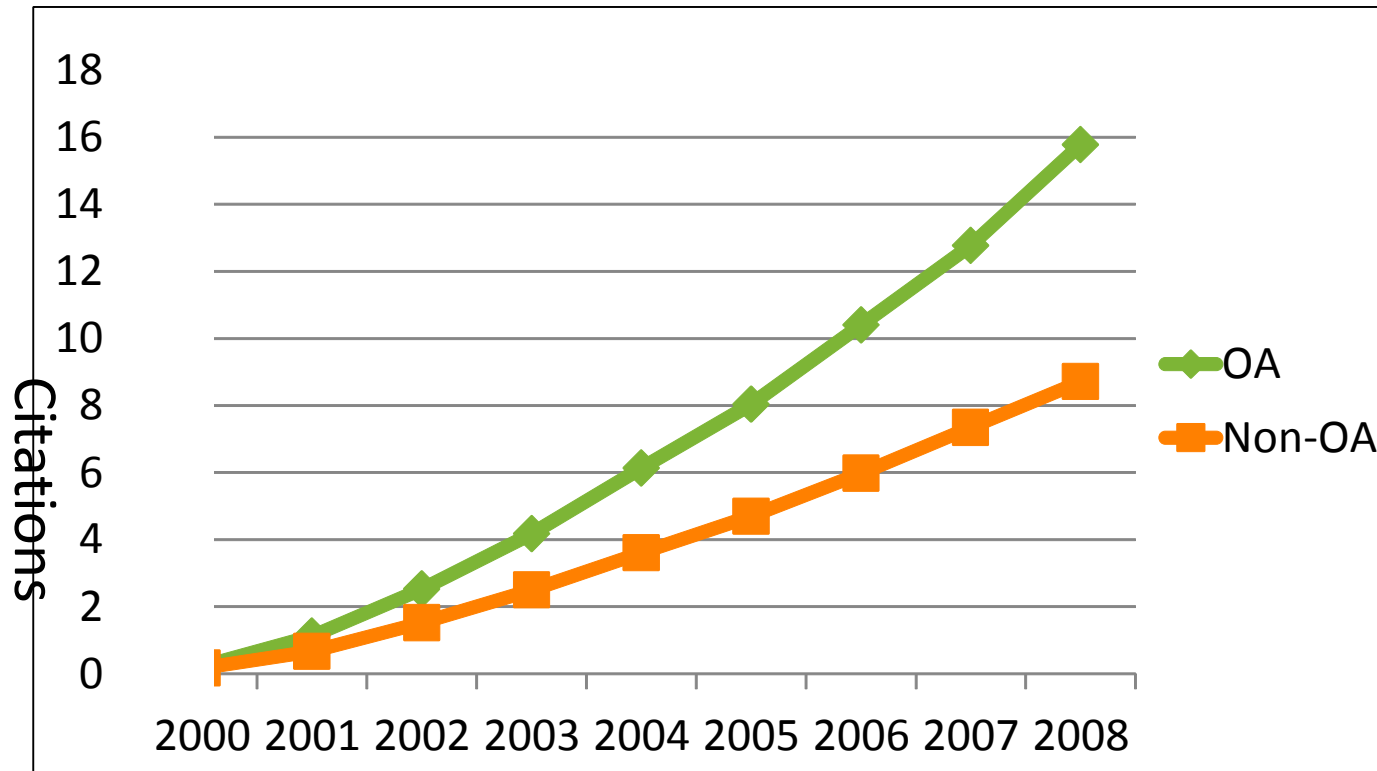
Data: Gargouri & Harnad, 2010

# Clinical medicine



Data: Gargouri & Harnad, 2010

# Social science



Data: Gargouri & Harnad, 2010

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# What OA means to a researcher

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**Book Chapter**

Frost, Ray L. and Klopogge, J. Theo (2007) [Heating stage spectroscopy: infrared, raman, energy dispersive x-ray and x-ray photoelectron spectroscopy](#). In: Gallagher, Patrick and Brown, Michael, (eds.) Handbook of Thermal Analysis and Calorimetry. Elsevier, Amsterdam, pp. 171-208.

Frost, Ray L. and Kristof, Janos (2004) [Raman and infrared spectroscopic studies of kaolinite surfaces modified by intercalation](#). In: Wypych, Fernando and Satanarayana, Kestur Gundappa, (eds.) Clay surfaces: fundamental and applications. Elsevier, The Netherlands, Amsterdam, pp. 184-215.

Frost, Ray L. and Klopogge, J. Theo (2002) [Infrared emission spectroscopy of clay and related minerals](#). In: Somasundaran, P and Hubbard, A, (eds.) Encyclopedia of Surface and Colloid Science. Marcel Dekker (Routledge), United States of America, New York, New York, pp. 2490-2513.

Frost, Ray L. and Klopogge, J. Theo and Kristof, Janos (2002) [Raman and infrared spectroscopic study of modification of kaolinite surfaces by intercalation organic molecules](#). In: Somasundaran, P and Hubbard, A, (eds.) Encyclopedia of surface and colloid science. Marcel Dekker (Routledge), United States of America, New York, New York, pp. 4438-4452.

Klopogge, J.Theo and Frost, Ray L. (2001) [Infrared and raman spectroscopic studies of layered double hydroxides\(LDHs\)](#). In: Rives, Vicente, (ed) Layered double hydroxides: Present and future. Nova Science Publishers, Inc, New York, pp. 139-192.

**Conference Paper**

He, Hongping and Zhu, Jianxi and Yuan, Peng and Zhou, Qin and Ma, Yuehong and Frost, Ray L. (2008) [Pore structure of surfactant modified montmorillonites](#). In: ICAM 2008 - Ninth International Congress for Applied Mineralogy, 8-10 September 2008, Brisbane.



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2	<a href="#">Skitmore, Martin</a>	<a href="#">28685</a>	<a href="#">176350</a>
3	<a href="#">Ferreira, Luis</a>	<a href="#">18700</a>	<a href="#">119946</a>
4	<a href="#">Worthington, Andrew</a>	<a href="#">17375</a>	<a href="#">118633</a>
5	<a href="#">Watters, James</a>	<a href="#">15304</a>	<a href="#">113029</a>
6	<a href="#">Courtney, Mary</a>	<a href="#">18300</a>	<a href="#">109967</a>
7	<a href="#">Cunningham, Stuart</a>	<a href="#">15553</a>	<a href="#">108278</a>
8	<a href="#">Fitzgerald, Brian</a>	<a href="#">24688</a>	<a href="#">107480</a>
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## Top 50 Authors

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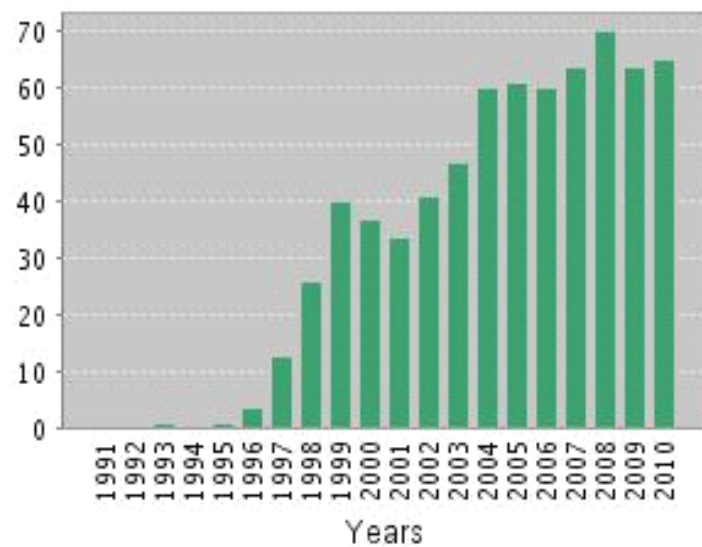
# Ray Frost's impact

**Citation Report** Author=(frost r\*) AND Address=(brisbane)

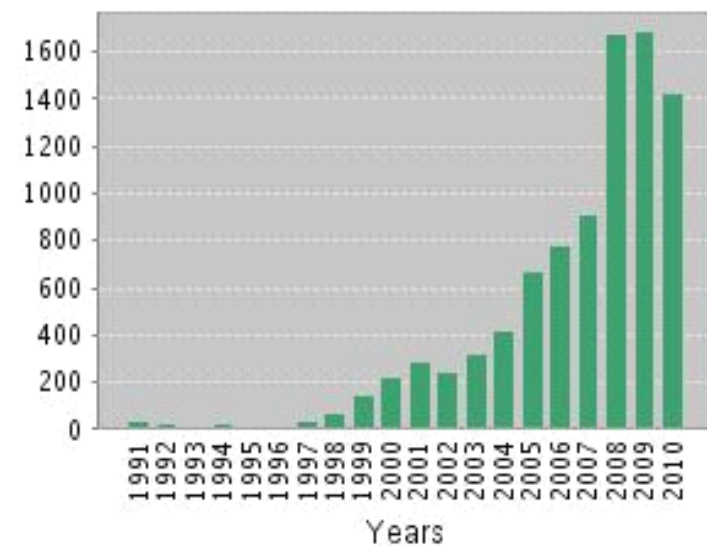
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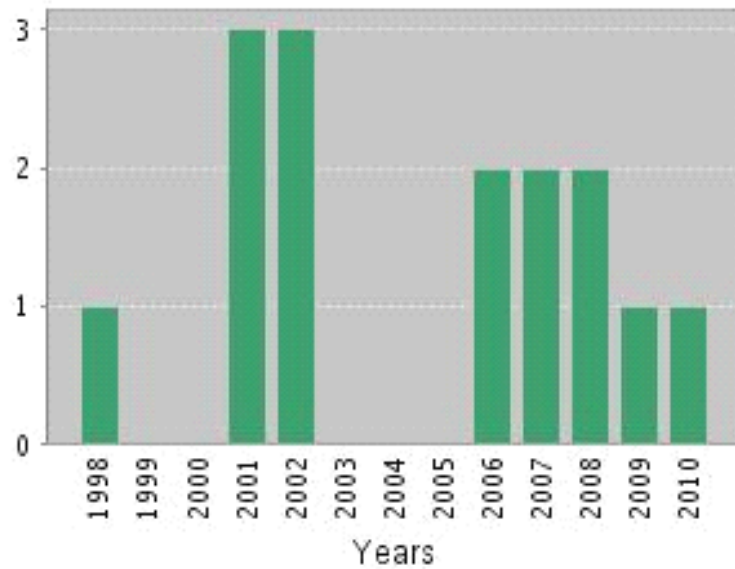
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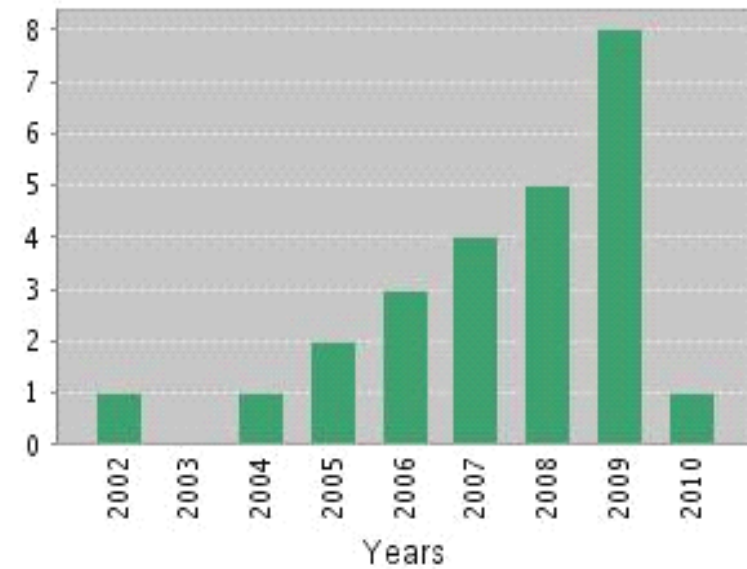
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# Martin Skitmore (Urban Design)

### Published Items in Each Year



### Citations in Each Year



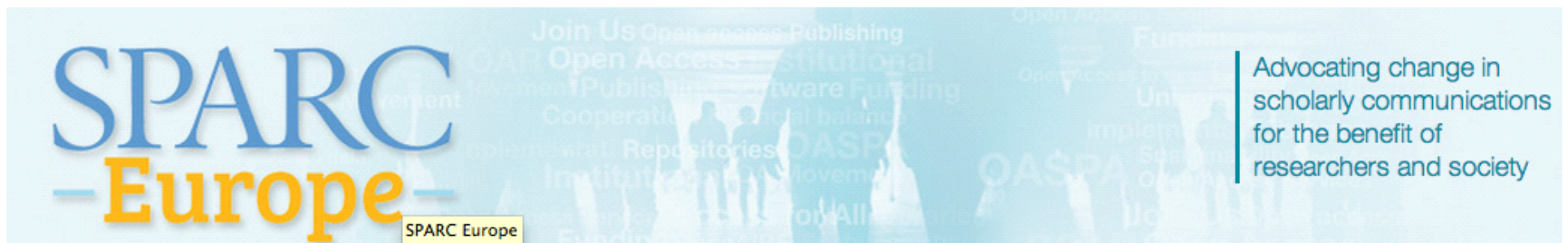
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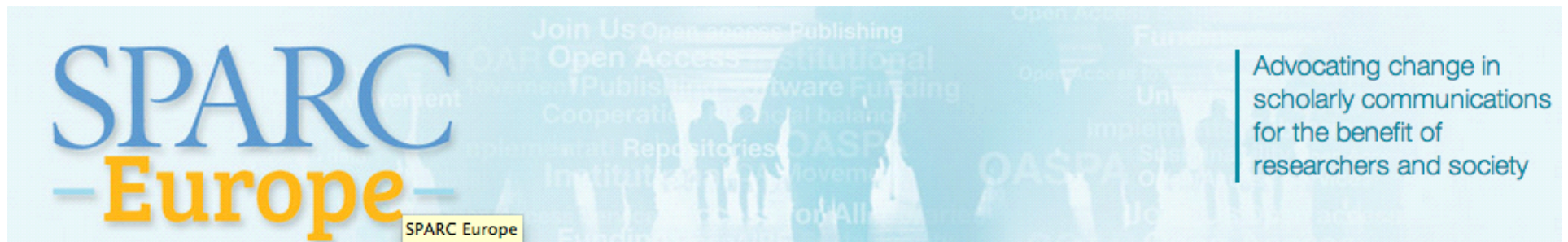
# Cardiology

“We are looking for experts in cardiac surgery and medical imaging research who could collaborate with us, as well as provide data such as echocardiographic images ... if you are interested in this project, perhaps you’d be interested in collaborating with us?”



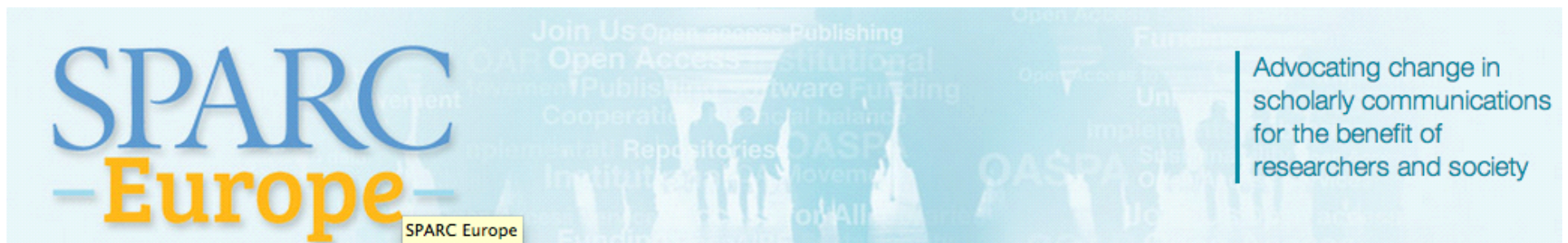
# Law

“...a few weeks ago X ... was contacted by a firm of solicitors in Melbourne. They are representing pro bono (for no payment) a number of Aboriginal people .... The lawyers had seen our article on eprints [university repository] and asked X if he would give expert evidence to a hearing in the Federal Court this month.”



# Media studies

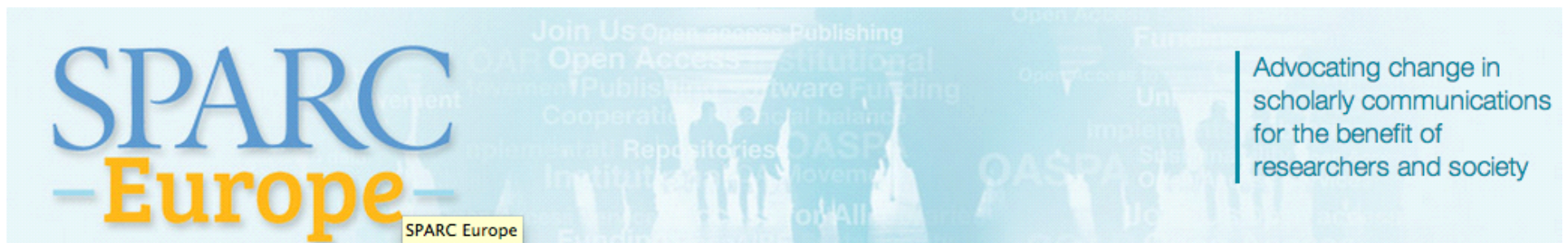
[from a county library] “Just wanted to write and tell you that I was able to supply a young client with high quality information on the representation of youth in the Australian media because of your e-prints [institutional repository] archive.”



# Design

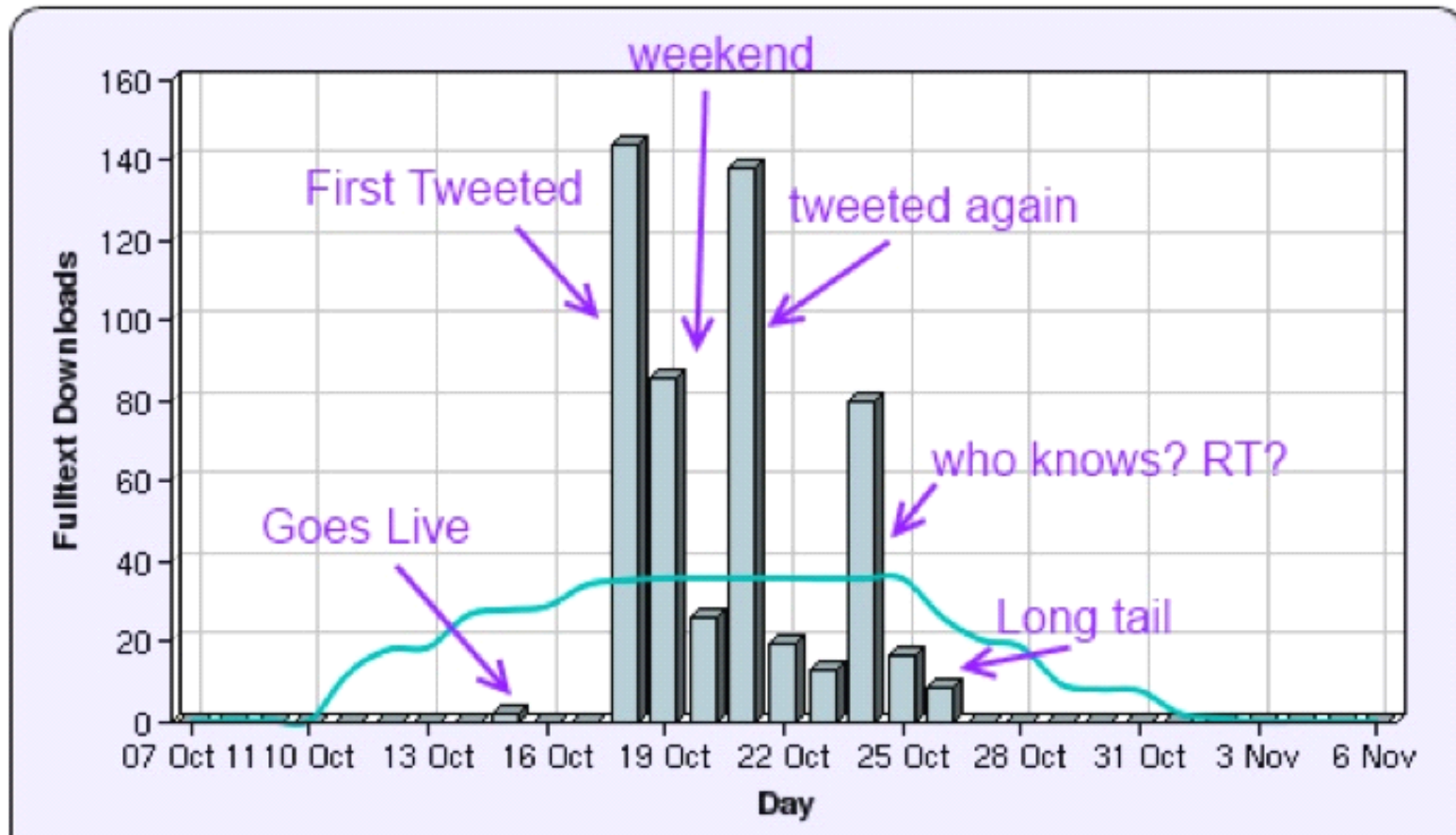
“QUT ePrints has allowed me to discover new research partners, or contacts in the community. Just last week, the General Manager of Sustainable Development from an Australian rural industry called me – based on reading one of my research papers in ePrints.

He loved what he read ..... and we are now in discussion about how we can help them measure their industry’s social impacts.”





# Melissa Terras



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*“It's a really good thing to make your work Open Access. More people will read it than if it is behind a paywall. Even if it is the most downloaded paper from a journal in your field, Open Access makes it even more accessed.”*

*Melissa Terras, University College London*

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# HUGO

**"Genomic Research, Agriculture, Security & Justice, and Energy and Promises to Create Significantly More Jobs in the Future"**

WASHINGTON, D.C. — The \$3.8 billion the U.S. government invested in the Human Genome Project (HGP) from 1988 to 2003 helped drive \$796 billion in economic impact and the generation of \$244 billion in total personal income, according to a study released today by Battelle. In 2010 alone, the human genome sequencing projects and associated genomics research and industry activity directly and indirectly generated \$67 billion in U.S. economic output and supported 310,000 jobs that produced \$20 billion in personal income. The genomics-enabled industry also provided \$3.7 billion in federal taxes during 2010.

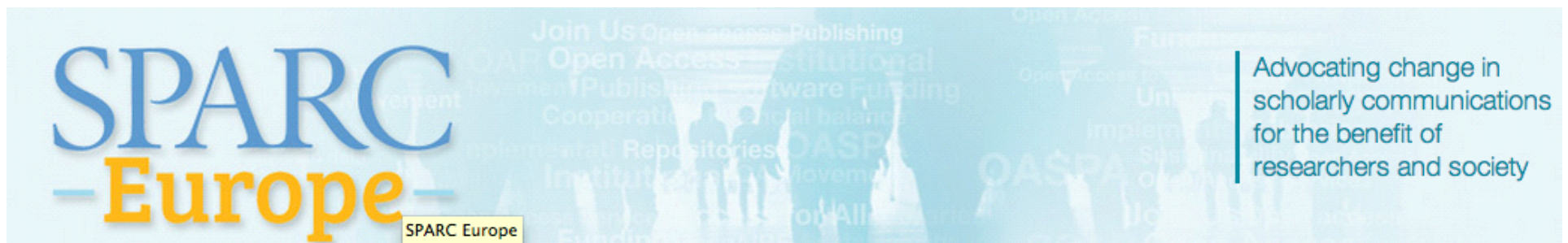
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# HUGO

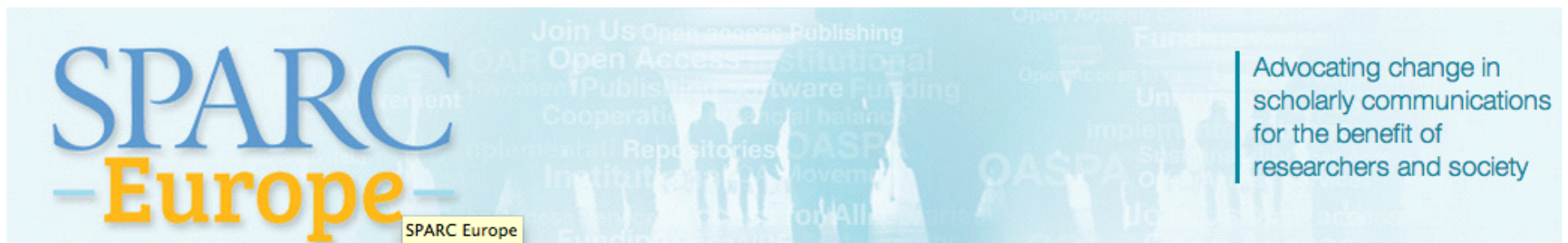
- 1998-2003, US Government invested **3.8 billion USD** (5.6 billion USD in 2010 terms) in HUGO
- Generated economic output (impact) of **796 billion USD**
- **Every \$1** of federal investment **generated \$141** in the economy
- Created **3.8 million job-years** of work
- **310,000 jobs** in 2010
- Average personal income **\$63,7000 per job-year**



# Economic implications in Denmark

- Access to research articles is very/extremely important (48%)
  - 79% have access difficulties
- Difficulties in searching/accessing articles cost €73m per year to researchers in Danish firms
- Average delay to product or process development without access to academic research: 2.2 years
- For new PRODUCTS, this would amount to around €4.8 million per company per year

Houghton, Swan & Brown, 2011






Author  
**Sergiu-Valentin PARVAN**

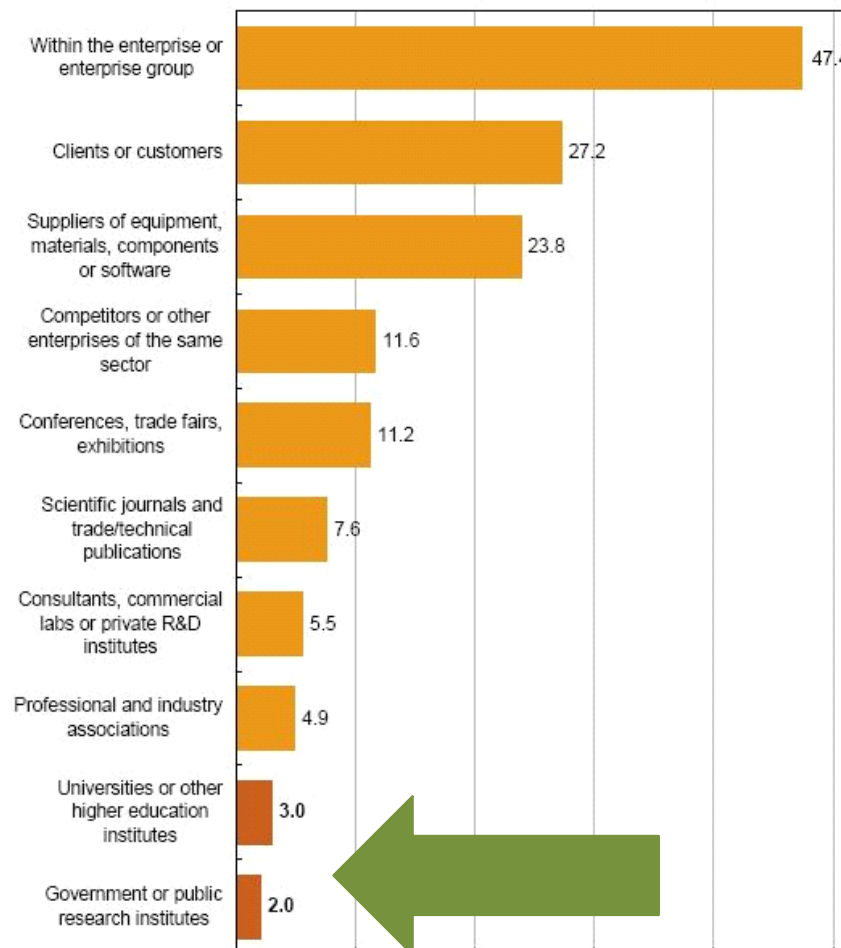
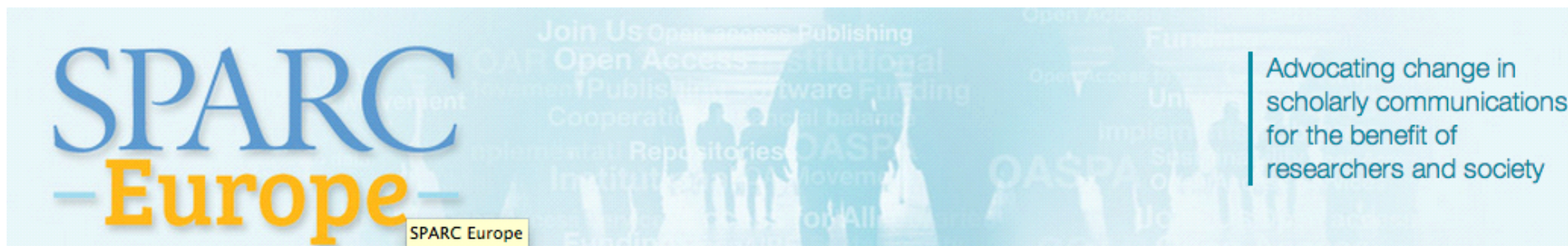
**Contents**

Highly important sources of information for innovation during 2002-2004..... 2

Link between science and industry ..... 4



**Figure 1: Sources of information identified by enterprises as highly important for the enterprise's innovation activities, as a percentage of innovative enterprises, EU-27 average**

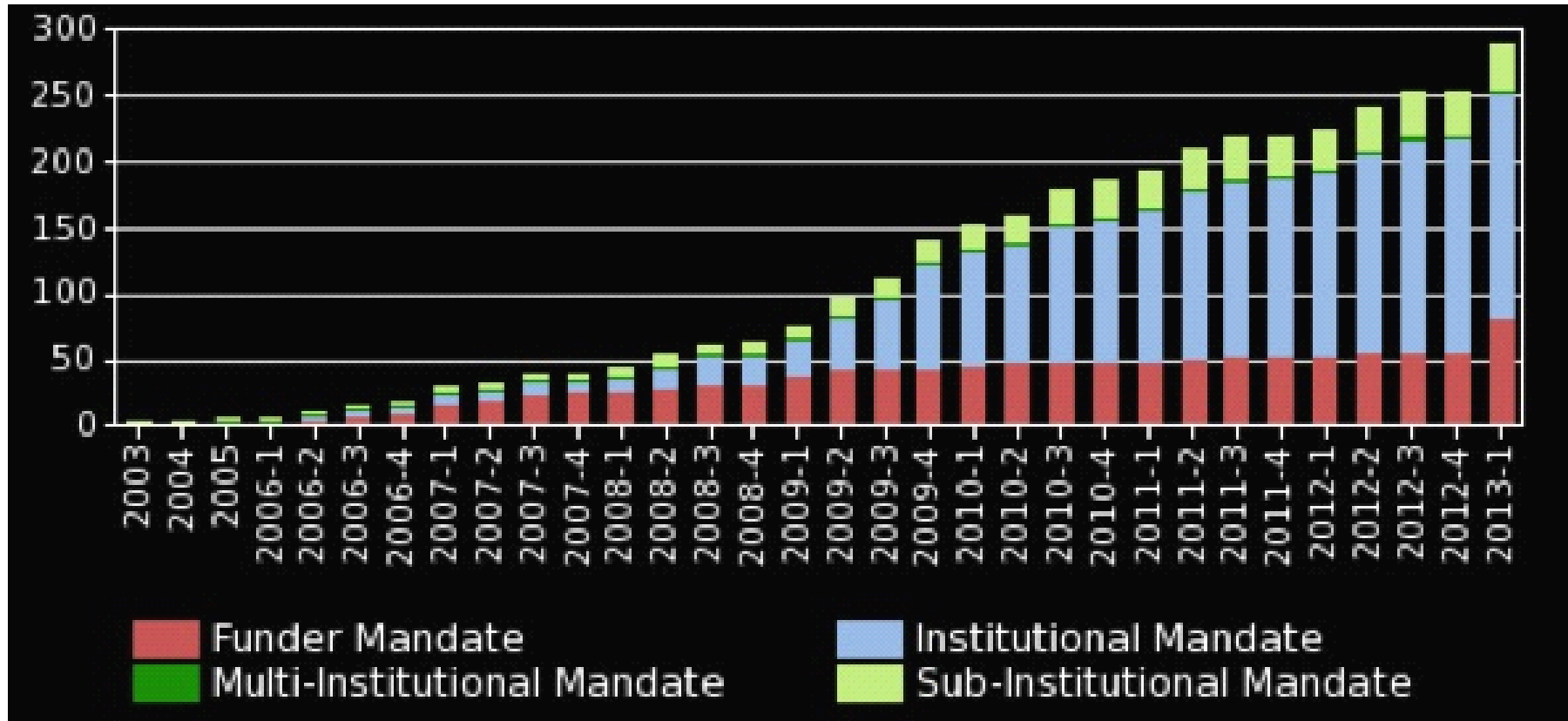



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# Open Access mandatory policies



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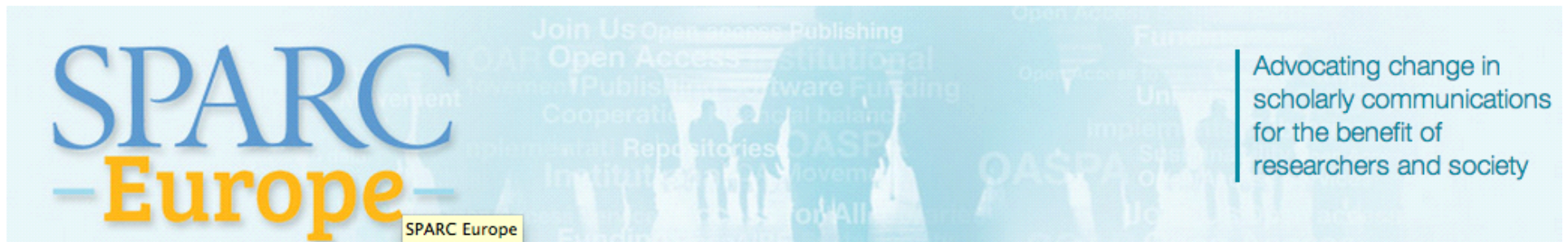
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# Daniel Coit Gilman

First President, Johns Hopkins University

“It is one of the noblest duties of a university to advance knowledge and to diffuse it, not merely among those who can attend the daily lectures, but far and wide.”



# Thank you

[www.sparceurope.org](http://www.sparceurope.org)

[www.keyperspectives.co.uk](http://www.keyperspectives.co.uk)

[www.openscholarship.org](http://www.openscholarship.org)

[www.openoasis.org](http://www.openoasis.org)

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# Resources

1. General, comprehensive resource on Open Access:

OASIS

(Open Access Scholarly Information Sourcebook)

[www.openoasis.org](http://www.openoasis.org)

2. Resource for policymakers, institutional managers:

EOS

(Enabling Open Scholarship)

[www.openscholarship.org](http://www.openscholarship.org)

