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Facilitate Open Science Training for European Research

The default is ‘Open’

Victoria Tsoukala, PhD|National Documentation Centre
Alma Swan, PhD|Enabling Open Scholarship

Università degli Studi di Trieste, July 7 2015

PART ONE

Definitions and descriptions

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Open Access: the first definition

- Budapest Open Access Initiative (2002)
- The literature (and data) that scholars give away for free (peer-reviewed but may also include preprints)
- Barrier-free (financial, legal, technical and temporal barriers)
- To read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose

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Open Access: a working description

- 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 part of a wider ongoing conversation about Open Science

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Vague but exciting ...

CERN DD/OC

Tim Berners-Lee, CERN/DD

Information Management: A Proposal

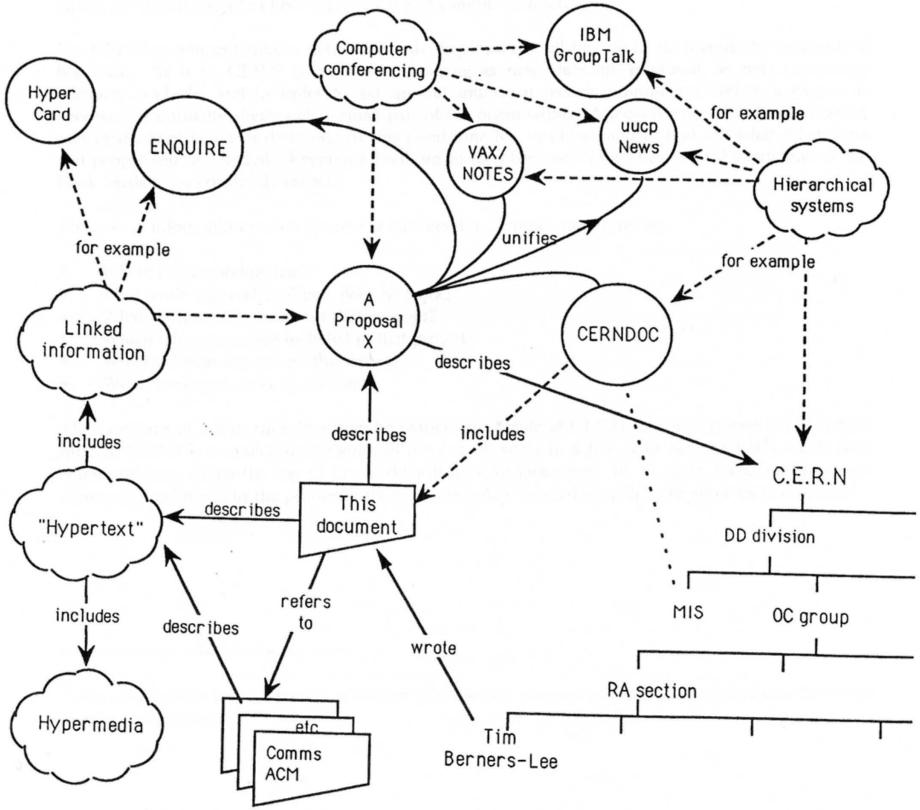
March 1989

Information Management: A Proposal

Abstract

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext sytstem.

Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, Project control



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Open Access – Why?

- Research moves faster and more efficiently
- Greater visibility and impact
- Better monitoring, assessment and evaluation of research
- Enables new semantic technologies (text-mining and data-mining)
- Publicly-funded research should be freely available to the ‘public’

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Open Access – How (to provide OA)

- Publishing (the gold route)
- Self-archiving (the green route)

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Open access publishing (the Gold route)

Authors publish their scholarship in open access journals or monograph series. These publications are freely available to the end users on the Internet. Second type most common in the Social Sciences and the Humanities

- Copyright is usually retained by the authors*******
- Open access publications follow the same processes as toll access publications (i.e. peer review), but provide open access to the content of the publications.
- Some open access publishers may charge article processing charges (APC) and most charge Book Processing Charges (BPC)
- http://doaj.org registry of open access journals
- Open Access monographs (www.doabooks.org)

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Self-archiving (the Green route)

Authors deposit their accepted publication in institutional/subject-based repository at time of publication; they also deposit the research data underlying the publication in a data repository; access and use is free; license is used

- Repository: online database; operates under specific technical standards that allow the institution to manage, preserve, disseminate, showcase its scientific output.
- The repository is a valuable tool in an institution's research information system and evaluation process, and one that offers added value services for the scientific community.
- http://opendoar.org registry of repositories
- Open Access Research Data (www.re3data.org)

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Self-archiving and publishing NOT the same thing

They are complementary activities

- Gold open access is a mode of publishing and follows the processes of publishing

- Purpose of self-archiving is to curate one's scientific output in the repository and provide access to them; it is not publishing

- But…. Repositories DO open new potential paths for research dissemination, overlay repositories

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Significance of author copyright and licensing in open access

- Author usually maintains copyright (does not sign away)
- Important that author license their work-in this way, user knows what they can do with it
- Standard licenses legalized worldwide (ie embedded in local national law): creative commons
- https://creativecommons.org/

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The Licenses

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OPEN ACCESS PUBLISHING (GOLD ROUTE)

JOURNALS, MONOGRAPHS, RESEARCH DATA

Open Access journals

- Free to the reader
- Many (most) are free to publish in too
  - Some charge APCs (article processing charges)
- There are around 10 000 open access journals
- They are listed in the Directory of Open Access Journals (DOAJ)

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DOAJ DIRECTORY OF OPEN ACCESS JOURNALS

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journals articles [Advanced Search]

10,362 Journals
6,231 searchable at Article level
134 Countries
1,887,215 Articles

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Directory of Open Access Journals (DOAJ)

DOAJ is an online directory that indexes and provides access to high quality, open access, peer-reviewed journals.

All journals that were accepted into DOAJ before March 2014 are now required to reapply. If you have a journal indexed in DOAJ, please log into your Publisher Area and follow the instructions.

Latest News

Atom feed: with added detail
Our Atom feed just got even more useful! It used to just contain the date added and the name of the journal. We've added the ISSN and the name of the publisher and pointed each entry to the rich mine of information in DOAJ. Let us know if you have any feedback! Read More...

Tue, 30 Jun 2015 at 07:17

DOAJ Seal is now live on the site
The DOAJ Seal is now live. Although DOAJ has been indicating which journals get the Seal since March 2014, the Seal is now displayed alongside those journals that qualify. Look for this symbol: We've also added a DOAJ Seal facet to the search so you can see all the Seal journals together. Journals that adhere […] Read More...

Tue, 23 Jun 2015 at 13:56

Updated site information
The site information pages on DOAJ have had an overhaul (long overdue!) and hopefully it is now easier for you to find all the information you need about submitting journals to DOAJ, uploading metadata or just about DOAJ itself. Three pages have changed: About DOAJ. It is now clearer that DOAJ is a member organisation. […] Read More...

Mon, 22 Jun 2015 at 07:25

Read more DOAJ news on our news page

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10,362 Journals

6,231 searchable a

134 Countries

1,887,215 Articles

— Full Text language

10 | count ↓ | OR

English (1476997)

Spanish (446808)

Portuguese (374530)

French (104974)

Russian (47580)

German (40769)

Italian (40682)

Turkish (30322)

Chinese (15780)

Serbian (15575)

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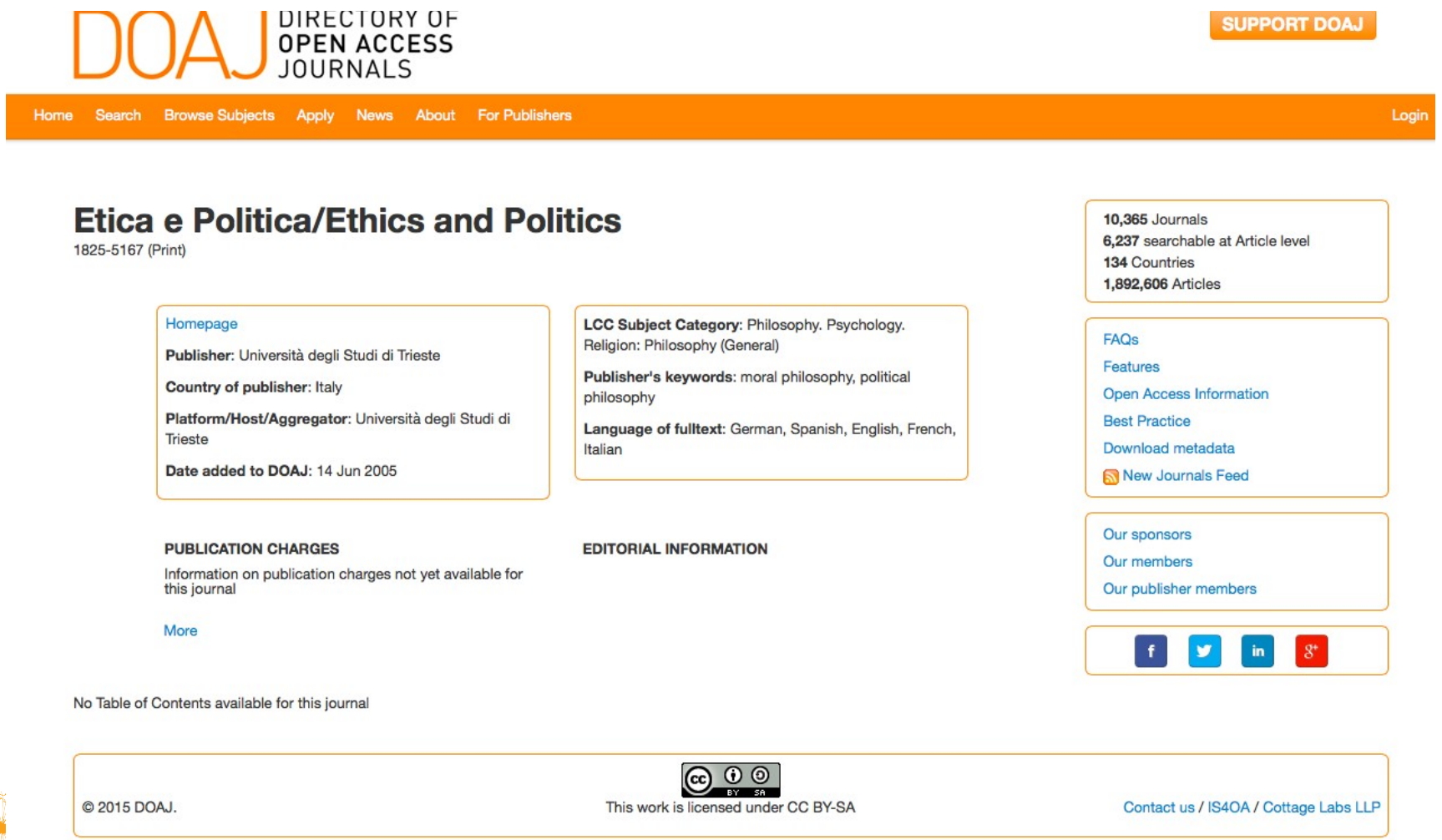
Example journal



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Open Access Monographs

- Free to the reader
- Typical to publish in the SSH
- Fees required by most publishers
- Numerous publishing initiatives, especially in the SSH
- Unknown number of books in open access
- www.doabooks.org

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doabooks.org

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3201 Academic peer-reviewed books from **107** publishers

News Register for newsletter

- 2015-06-17 DOAB wins the 2015 IFLA/Brill Open Access award
- 2015-05-07 DOAB reaches 100 publishers
- 2015-03-02 Collaboration SciELO and over 2500 books in DOAB
- 2014-12-17 OpenEdition Partnership

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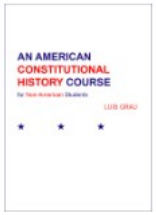
Listing **1** - **10** of **75** << page 1 of 8 >>



An American Constitutional History Course for Non-American Students

Authors: Grau, Luis
Book Series: Historia del Derecho **ISSN**: 2255-5137 **ISBN**: 9788490312773 **Year**: 2012 **Volume**: 16 **Pages**: 340 **Language**: eng
Publisher: Universidad Carlos III de Madrid. Figuerola Institute of Social Science History
Subject: History
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Abstract | Keywords | Free access | Buy the book | Export citation | SHARE

Antitriboniano, o discurso sobre el estudio de las leyes (edición bilingüe)

Authors: Hotman, François
Book Series: Historia del Derecho **ISSN**: 2255-5137 **ISBN**: 9788490316641 **Year**: 2014 **Volume**: 22 **Pages**: 211 **Language**: fra;spa
Publisher: Universidad Carlos III de Madrid. Figuerola Institute of Social Science

OPEN ACCESS REPOSITORIES (GREEN ROUTE)

Publication repositories, data repositories

Open Access repositories

- Digital collections
- Usually institutional (based in universities)
- Sometimes centralised (subject-based)
- Interoperable (technically the same, they can communicate)
- Form a network across the world
- Create a global database of openly-accessible research
- Currently c2900

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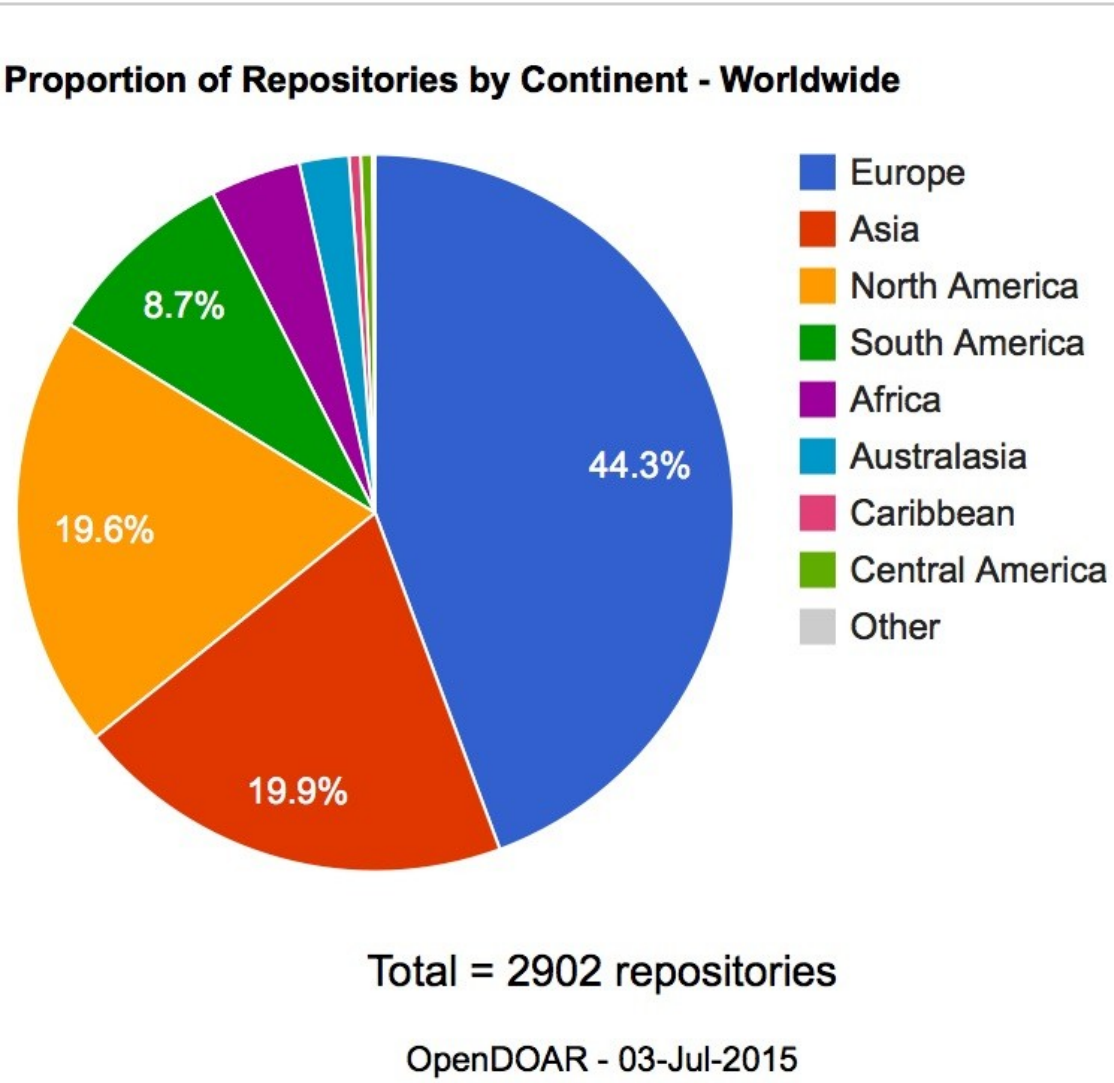
Proportion of Repositories by Continent - Worldwide
Europe
Asia
North America
South America
Africa
Australasia
Caribbean
Central America
Other
44.3%
19.9%
19.6%
8.7%
Total = 2902 repositories
OpenDOAR - 03-Jul-2015

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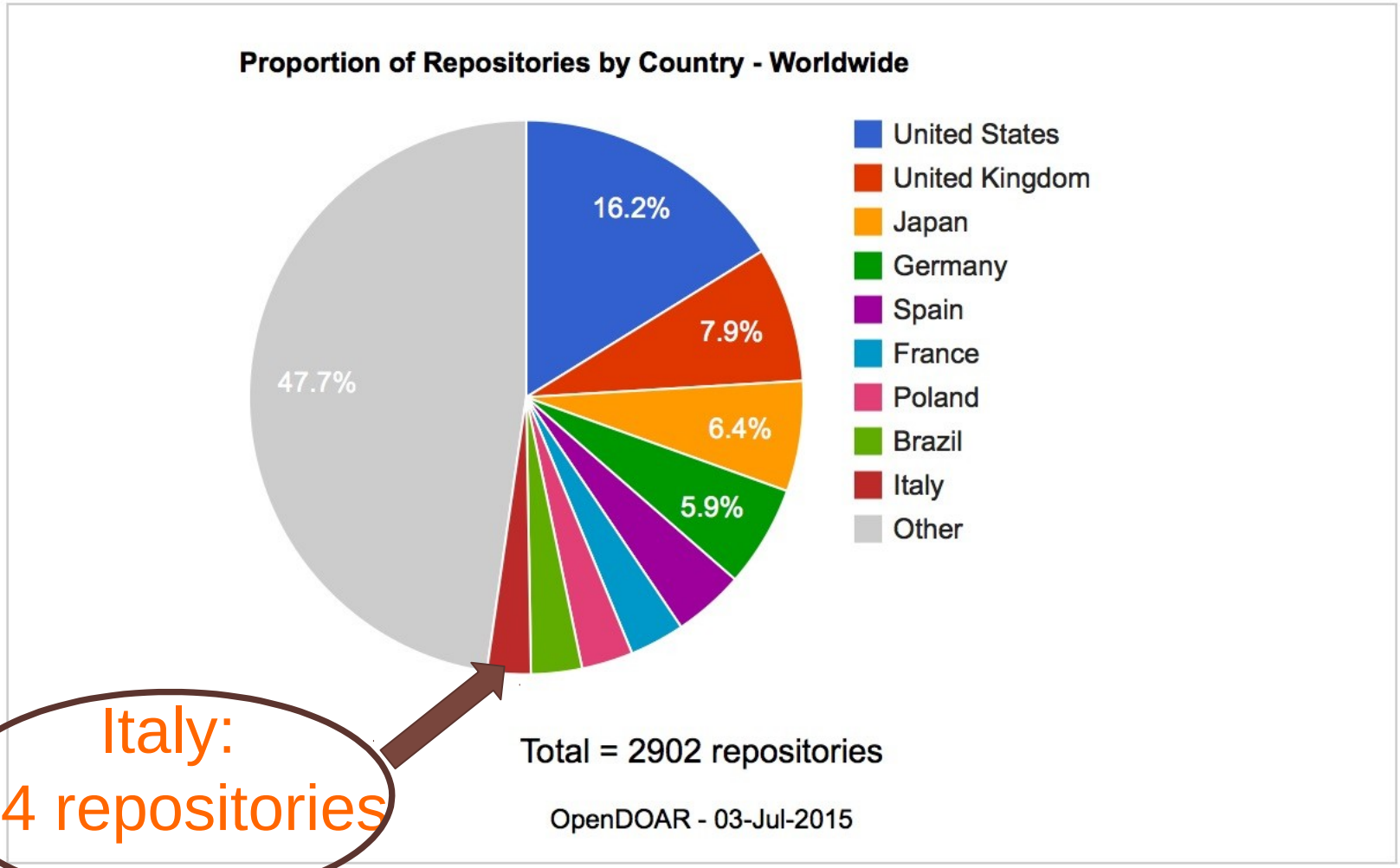
By country



Italy:
74 repositories

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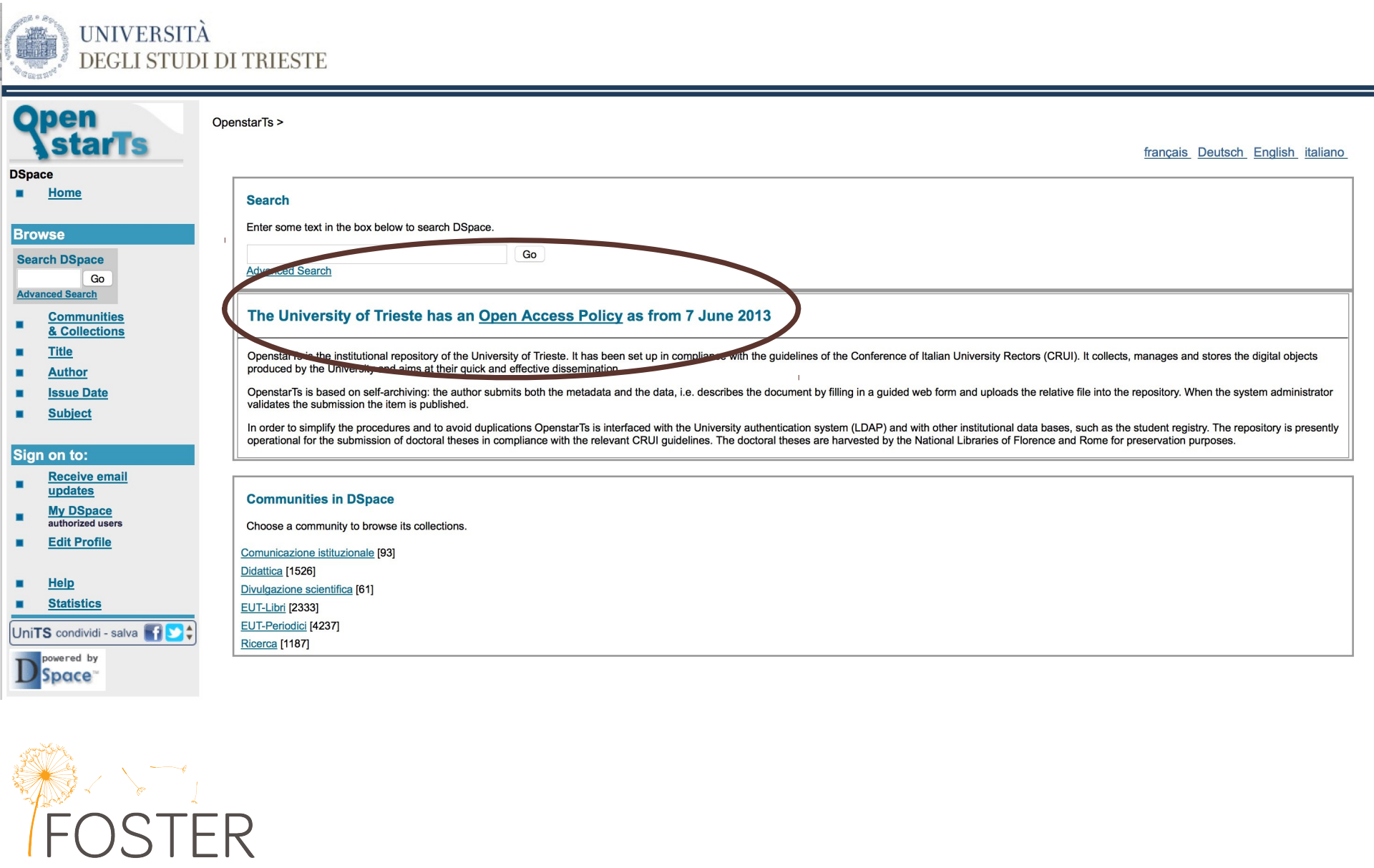
Here's one



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arXiv.org

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Search or Article-id (Help | Advanced search) All papers Go!

Open access to 1,052,773 e-prints in Physics, Mathematics, Computer Science, Quantitative Biology, Quantitative Finance and Statistics

Subject search and browse: Physics Search Form Interface Catchup

12 Jan 2015: Reflections on the 1 million paper milestone
12 Jan 2015: A project update, including a brief summary of activities in 2014, has been posted
1 Jan 2015: New members join arXiv Scientific Advisory Board
See cumulative "What's New" pages. Read robots beware before attempting any automated download

Physics

- Astrophysics (**astro-ph** new, recent, find)
  includes: Astrophysics of Galaxies; Cosmology and Nongalactic Astrophysics; Earth and Planetary Astrophysics; High Energy Astrophysical Phenomena; Instrumentation and Methods for Astrophysics; Solar and Stellar Astrophysics
- Condensed Matter (**cond-mat** new, recent, find)
  includes: Disordered Systems and Neural Networks; Materials Science; Mesoscale and Nanoscale Physics; Other Condensed Matter; Quantum Gases; Soft Condensed Matter; Statistical Mechanics; Strongly Correlated Electrons; Superconductivity
- General Relativity and Quantum Cosmology (**gr-qc** new, recent, find)
- 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)
- Nonlinear Sciences (**nlin** new, recent, find)
  includes: Adaptation and Self-Organizing Systems; Cellular Automata and Lattice Gases; Chaotic Dynamics; Exactly Solvable and Integrable Systems; Pattern Formation and Solitons
- 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; Atomic Physics; Atomic and Molecular Clusters; Biological Physics; Chemical Physics; Classical Physics; Computational Physics; Data Analysis, Statistics and Probability; Fluid Dynamics; General Physics; Geophysics; History and Philosophy of Physics; Instrumentation and Detectors; Medical Physics; Optics; Physics Education; Physics and Society; Plasma Physics; Popular Physics; Space Physics
- Quantum Physics (**quant-ph** new, recent, find)

Mathematics

- Mathematics (**math** new, recent, find)
  includes (see detailed description): Algebraic Geometry; Algebraic Topology; Analysis of PDEs; Category Theory; Classical Analysis and ODEs; Combinatorics; Commutative Algebra; Complex Variables; Differential Geometry; Dynamical Systems; Functional Analysis; General Mathematics; General Topology; Geometric Topology; Group Theory; History and Overview; Information Theory; K-Theory and Homology; Logic; Mathematical Physics; Metric Geometry; Number Theory; Numerical Analysis; Operator Algebras; Optimization and Control; Probability; Quantum Algebra; Representation Theory; Rings

Data repositories

- Deposit your research data at the same time with publication
- Institutional or subject-based
- Important: they curate data, they provide DOIs
  - Data can be cited, becoming very valuable output by itself, worthy of citing
- Important: linking publications with underlying data
  - Open access to research data is doing ethical research
- New field: data science, data intensive research

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re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

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Browse

re3data.org supports the following browsing options:

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YOUR RESEARCH DATA?
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RESEARCH DATA REPOSITORY
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REGISTRY OF RESEARCH DATA REPOSITORIES

Linking publications and data

- Data that supports research publications should also be open
- Deposit the research data of your publication in an appropriate repository (a trusted repository)
- Publish your article/book, preferably in open access-provide a link to the deposited research data
- Deposit your article/book in your institutional repository or other appropriate repository.

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Other ‘Open’ things

- As well as Open Access to journal articles ...
- Open Books and Monographs
- Open Data (tomorrow’s topic)
- Open Science:
  - Open Access to articles
  - Open Monographs
  - Open Data
  - Open licensing
  - Open innovation
  - Including – especially important right now – text-mining and data-mining (TDM)

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PART TWO

The benefits of Open Access

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Benefits for researchers

Researcher advantages from Open Access

- Access, access, access!
- Research intensified
- Fast-track to innovation and more research
- New collaborations
- New paths for research

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Benefits for authors

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Author advantages from Open Access

- Visibility
- Usage
- Impact
- Personal profiling and marketing

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Visibility

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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."

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Professor Martin Skitmore
School of Urban Design, QUT

"There is no doubt in my mind that ePrints 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…"

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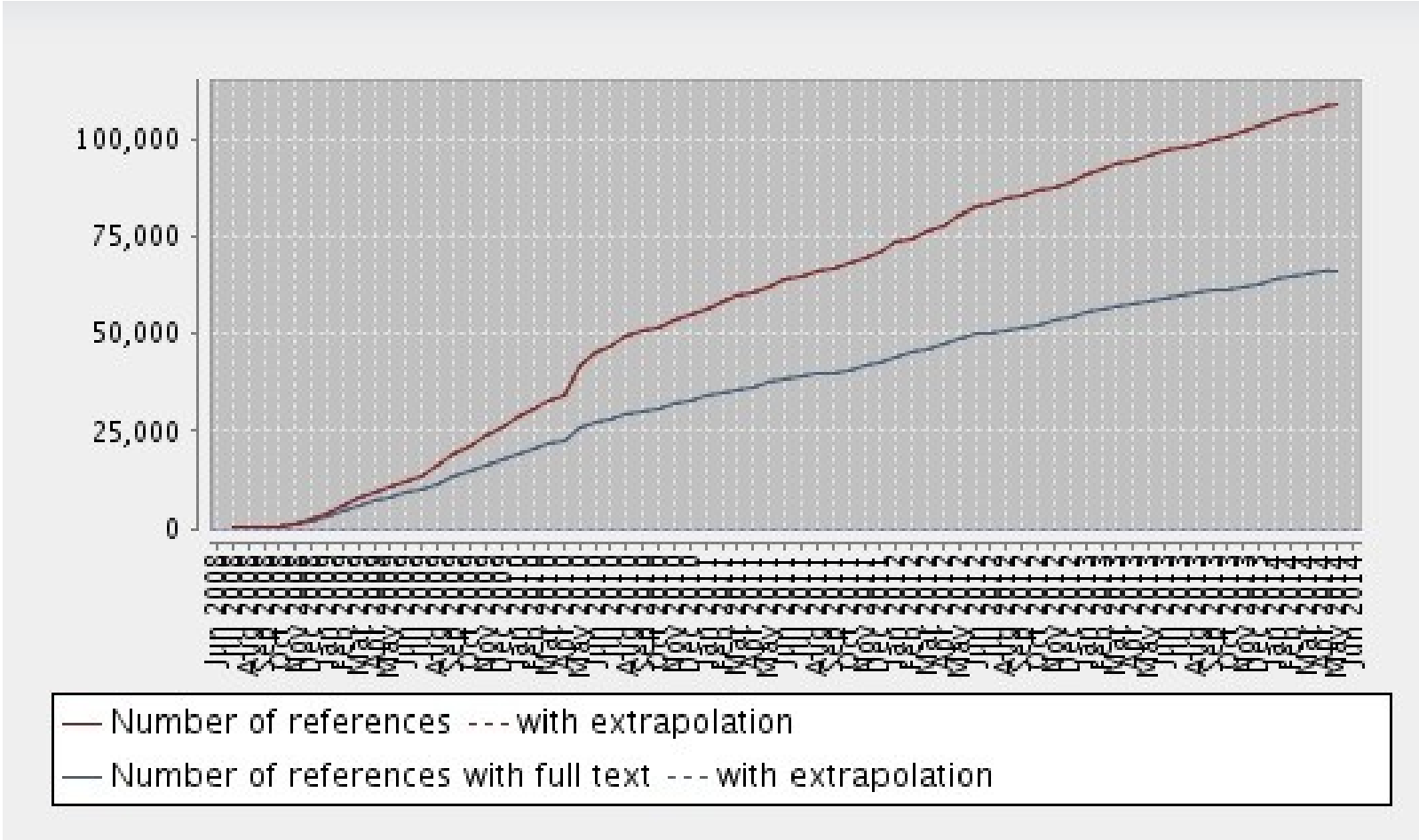
Usage

University of Liege repository: authors deposit



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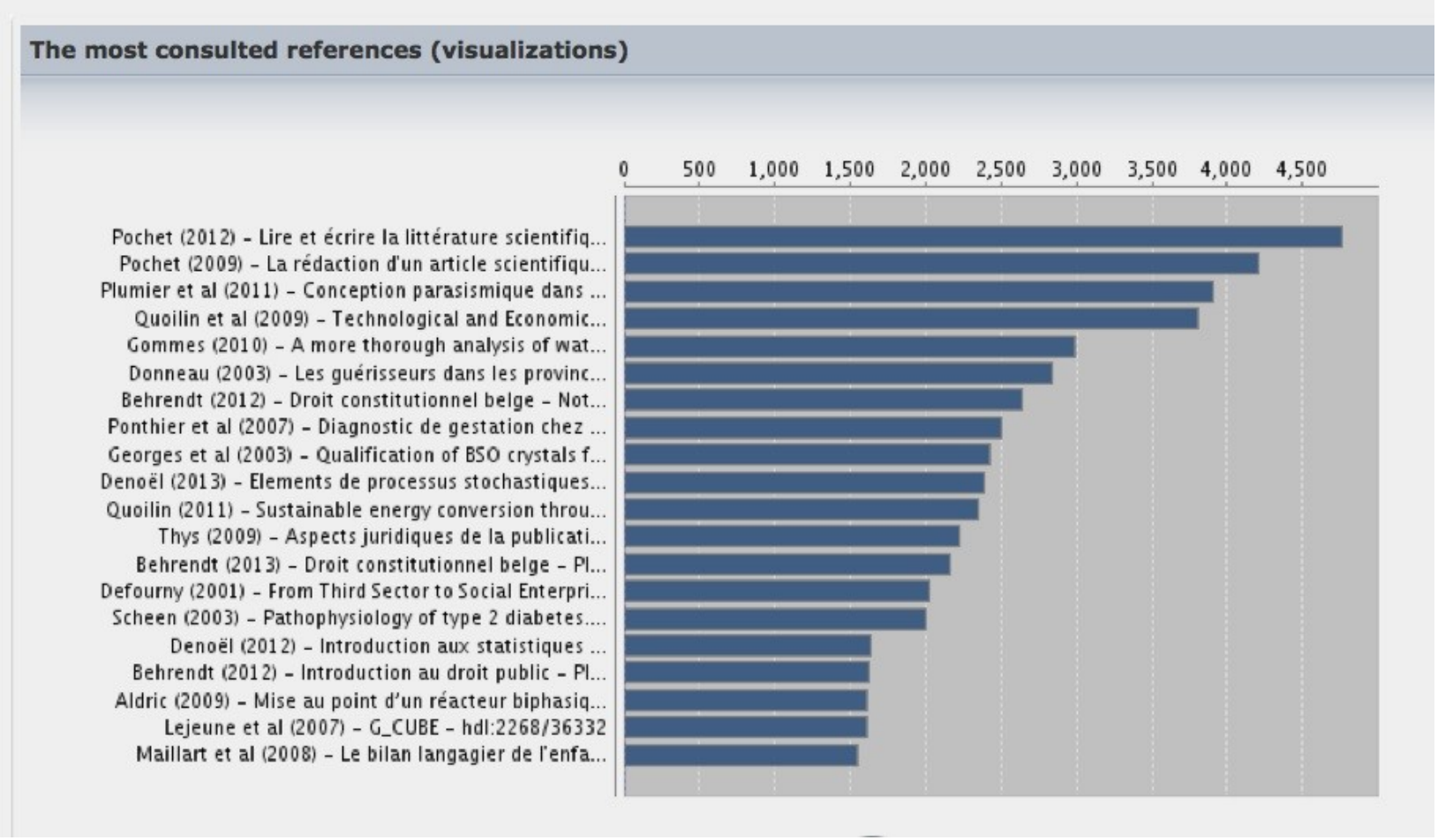
Individual article usage



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3	Mary Courtney	149,247
4	Marilyn Campbell	147,379
5	Brian Fitzgerald	117,042
6	Andrew Worthington	105,082
7	Luis Ferreira	92,390
8	James Watters	88,510

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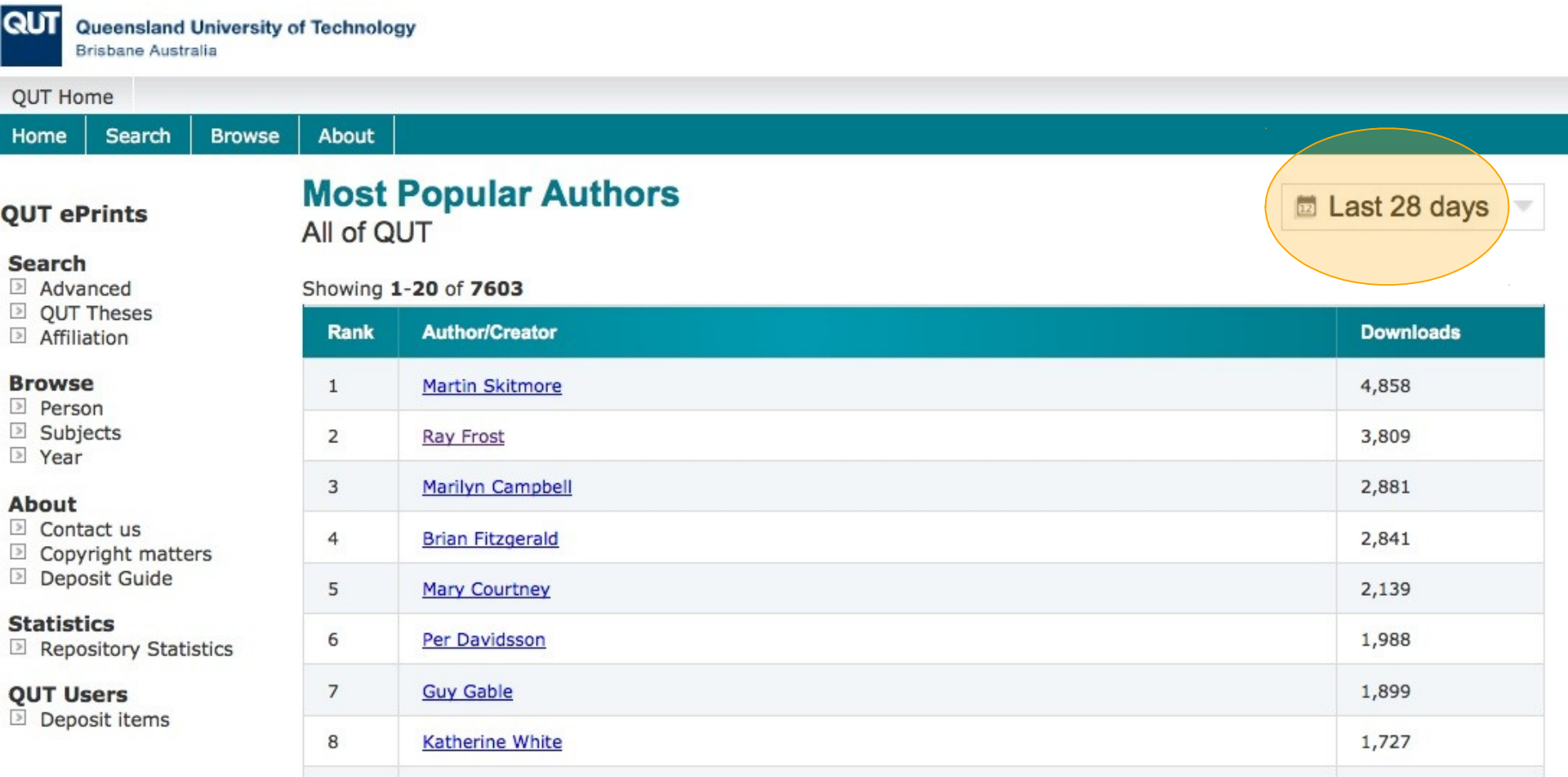

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3	Marilyn Campbell	2,881
4	Brian Fitzgerald	2,841
5	Mary Courtney	2,139
6	Per Davidsson	1,988
7	Guy Gable	1,899
8	Katherine White	1,727

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Umanità in mostra (Abbattista, Guido) (10077/9484)	2,954
Studio della tossicità da palitossina e composti analoghi mediante modelli in vitro e in vivo (De Bortoli, Marco) (10077/4502)	2,911

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Impact

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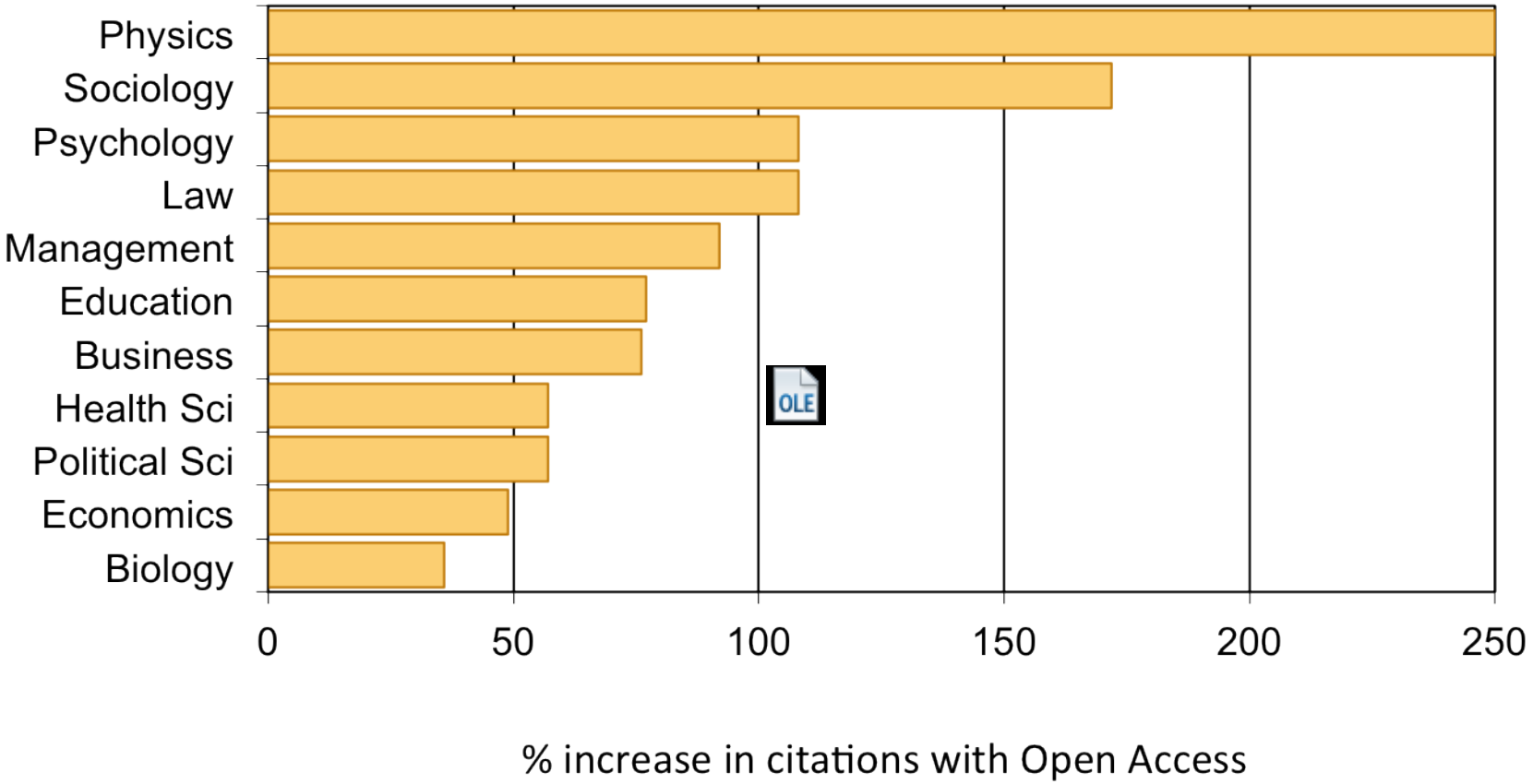
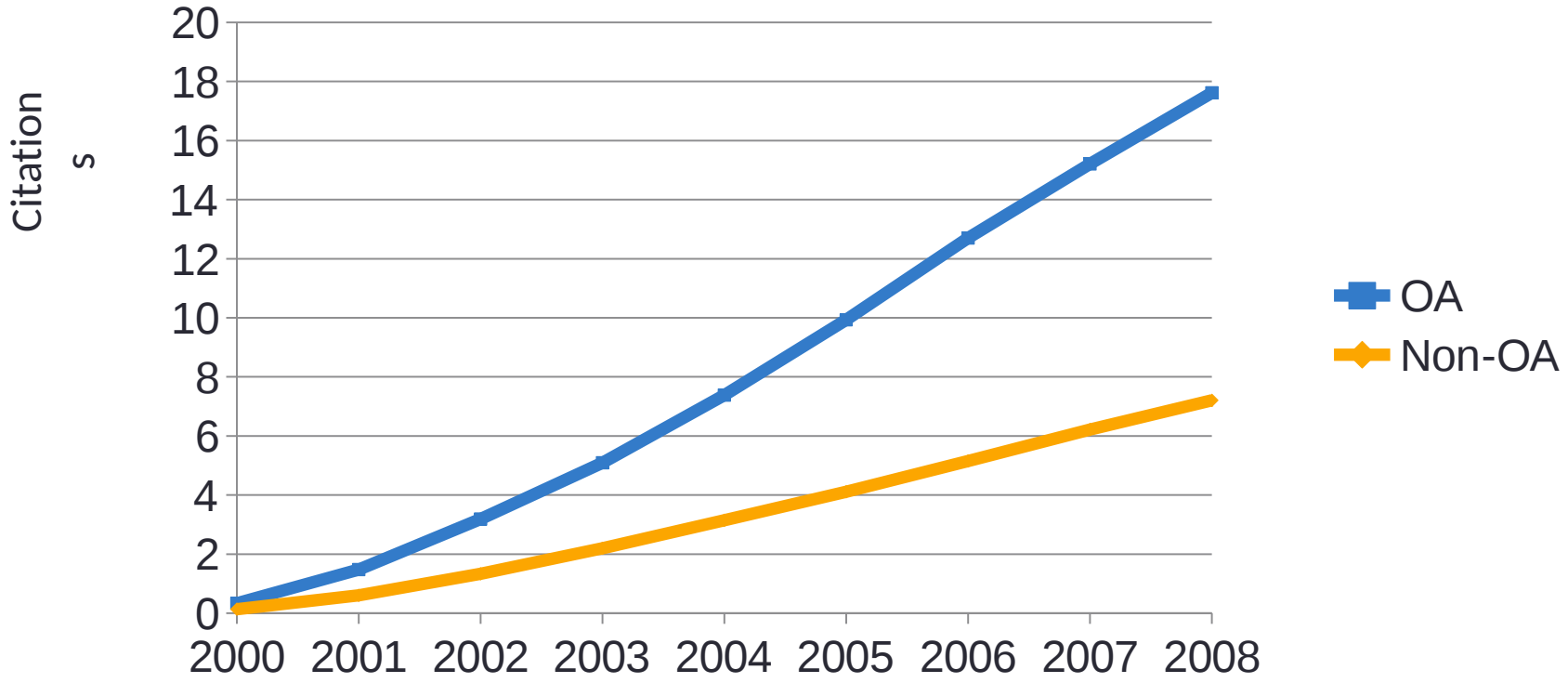
Citation impact



Range = 36%-200%

(Data: Stevan Harnad and co-workers)

Engineering



Data: Gargouri & Harnad, 2010

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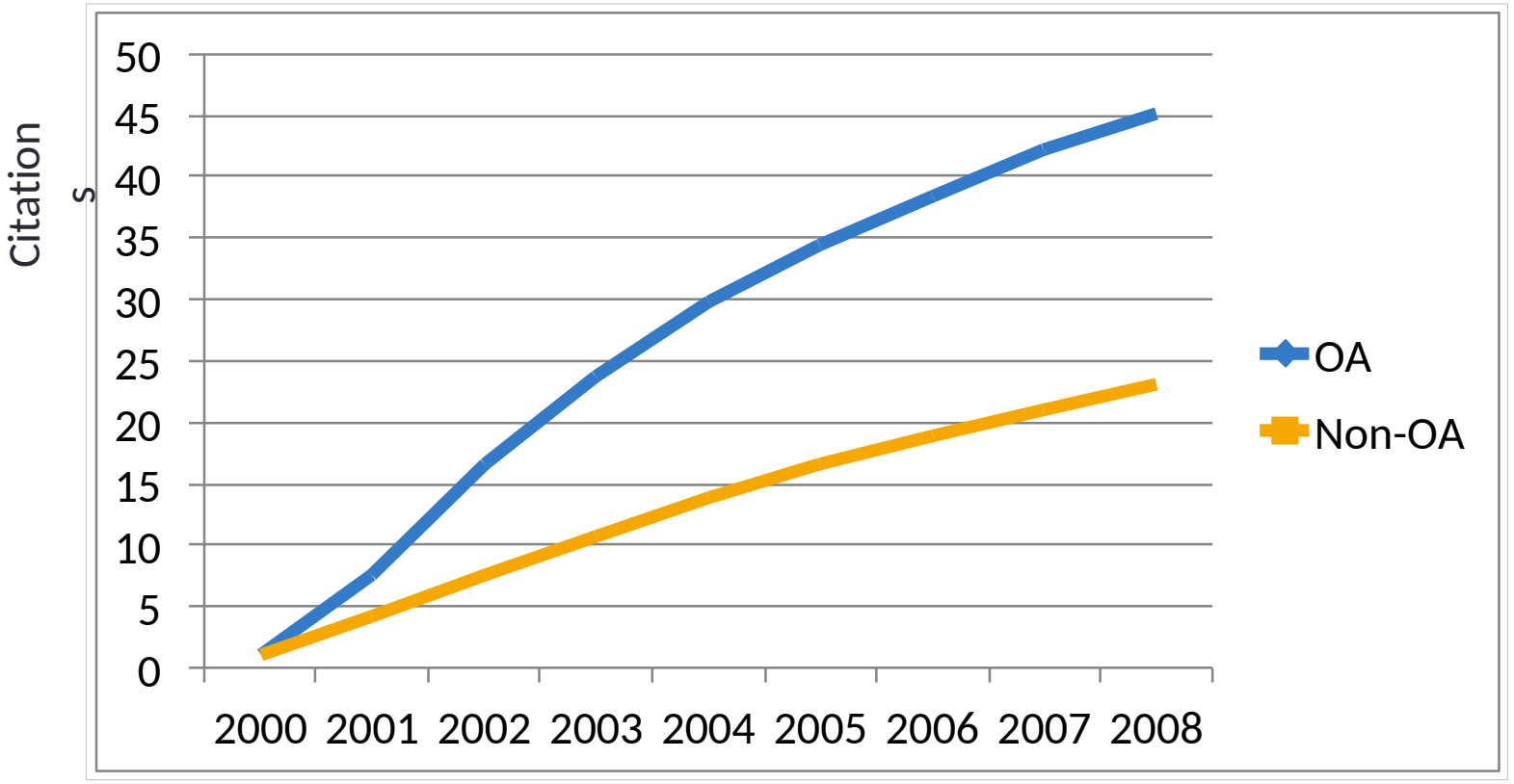
Clinical medicine



Data: Gargouri & Harnad, 2010

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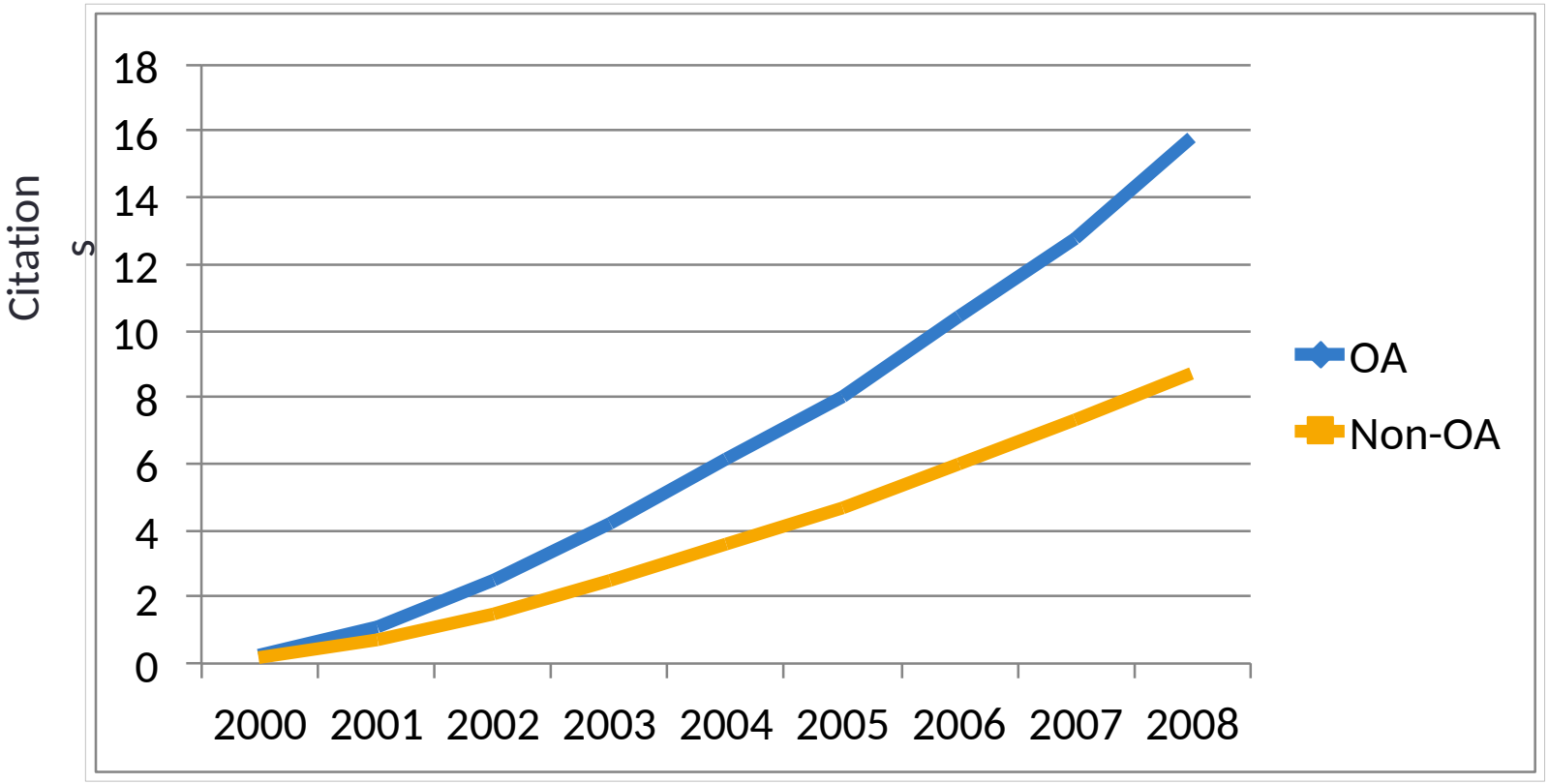

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Profiling and marketing

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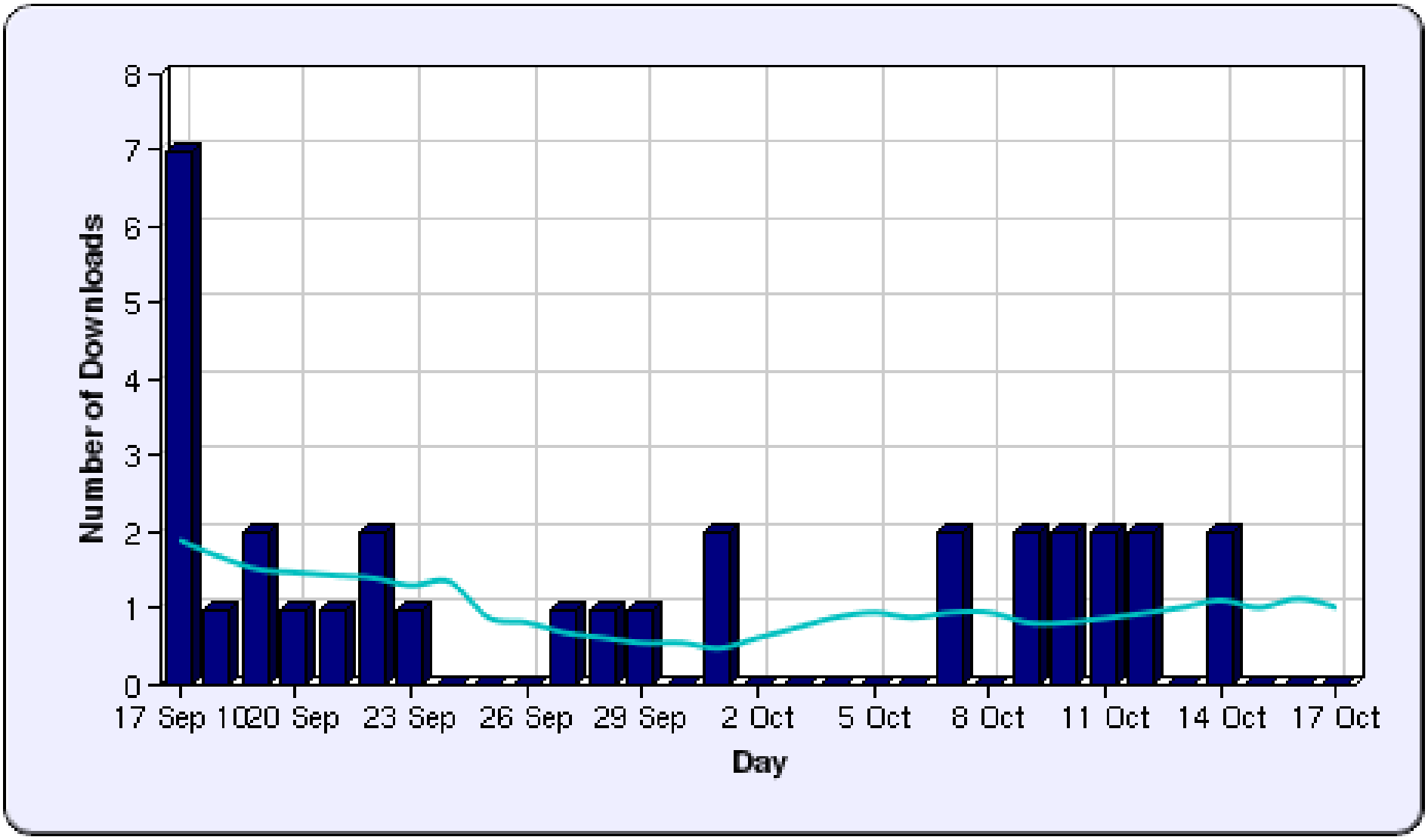
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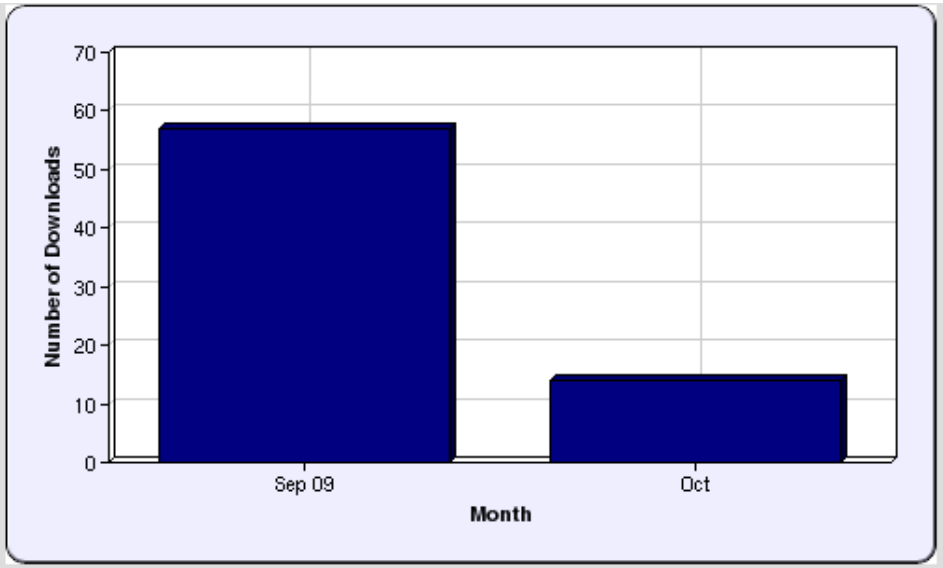
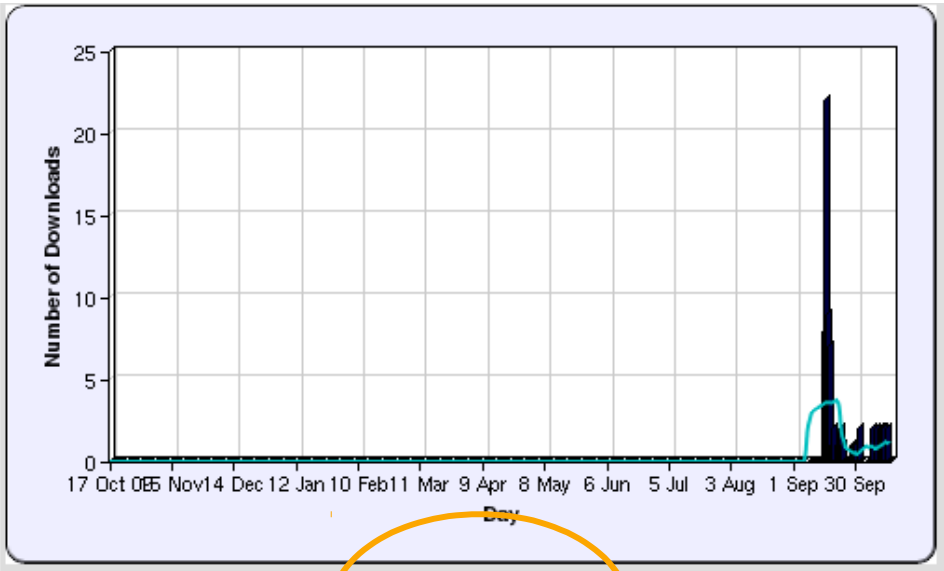
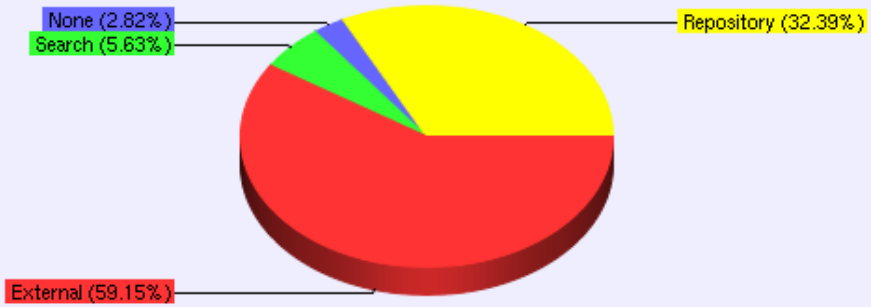




ReferrerGraph



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

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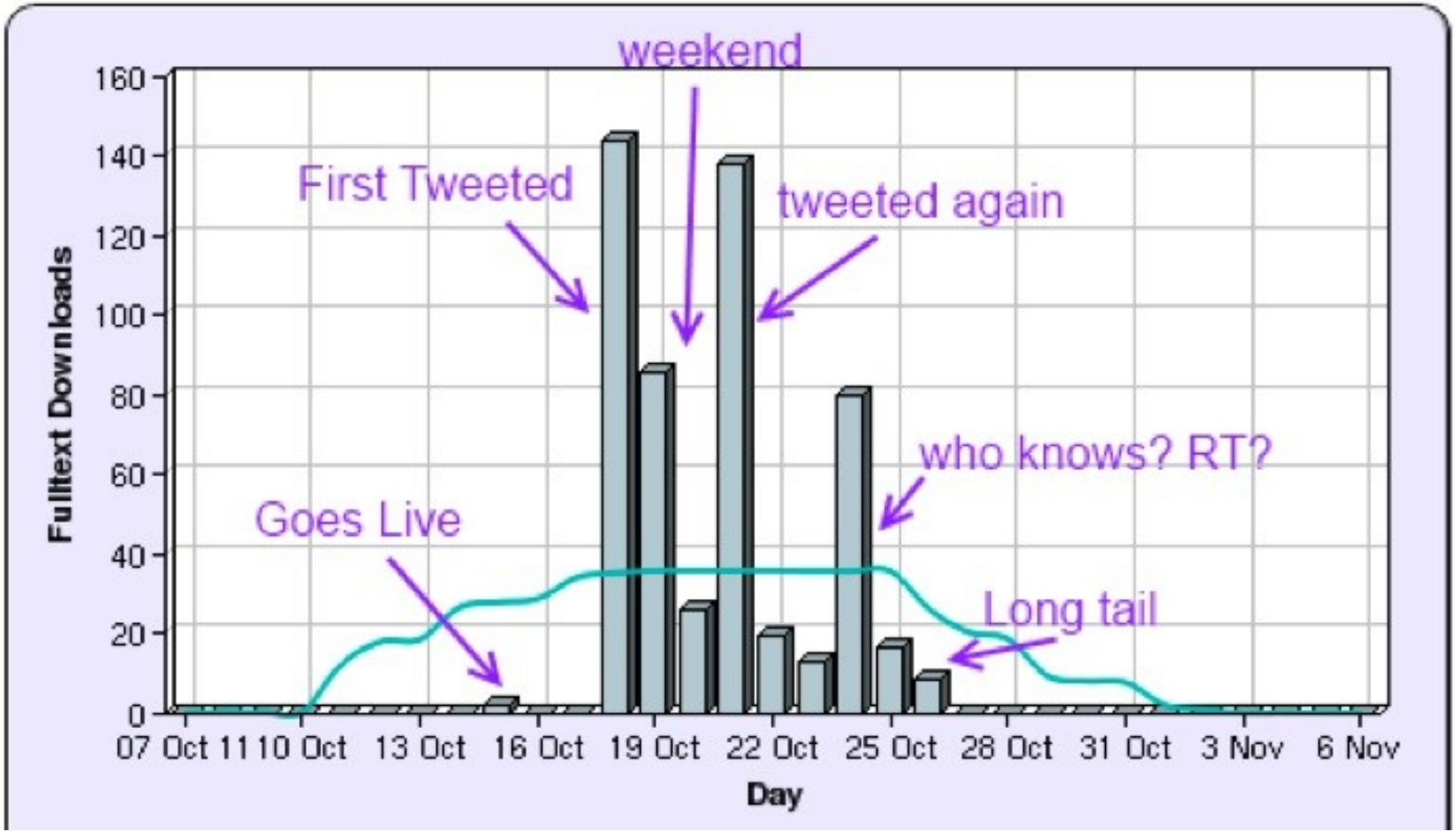
Melissa Terras



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For institutions?

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"The case for Open Access within a university is not simply political or economic or professional.

It needs to rest in the notion of what a university is and what it should be …. It is central to the university's position in the public space"

Professor Martin Hall, Vice Chancellor of the University of Salford, UK

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Institutional and funder advantages from Open Access

- Visibility, usage
- Impact
- Profiling and marketing
- Outreach to the public: demonstrating social return
- Economic benefits
- Institutional management information

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"I am asked how many articles my researchers publish each year, and I have to say 'I have no idea!'"

Professor Bernard Rentier, Rector, University of Liege, Belgium, explaining one of the reasons why he has built an institutional Open Access repository and introduced a mandatory policy on Open Access

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Outreach: the public

- Independent researchers
- Education sector
- Professional community
- Practitioner community
- Interested ‘lay’ public
- Business sector, including innovative SMEs

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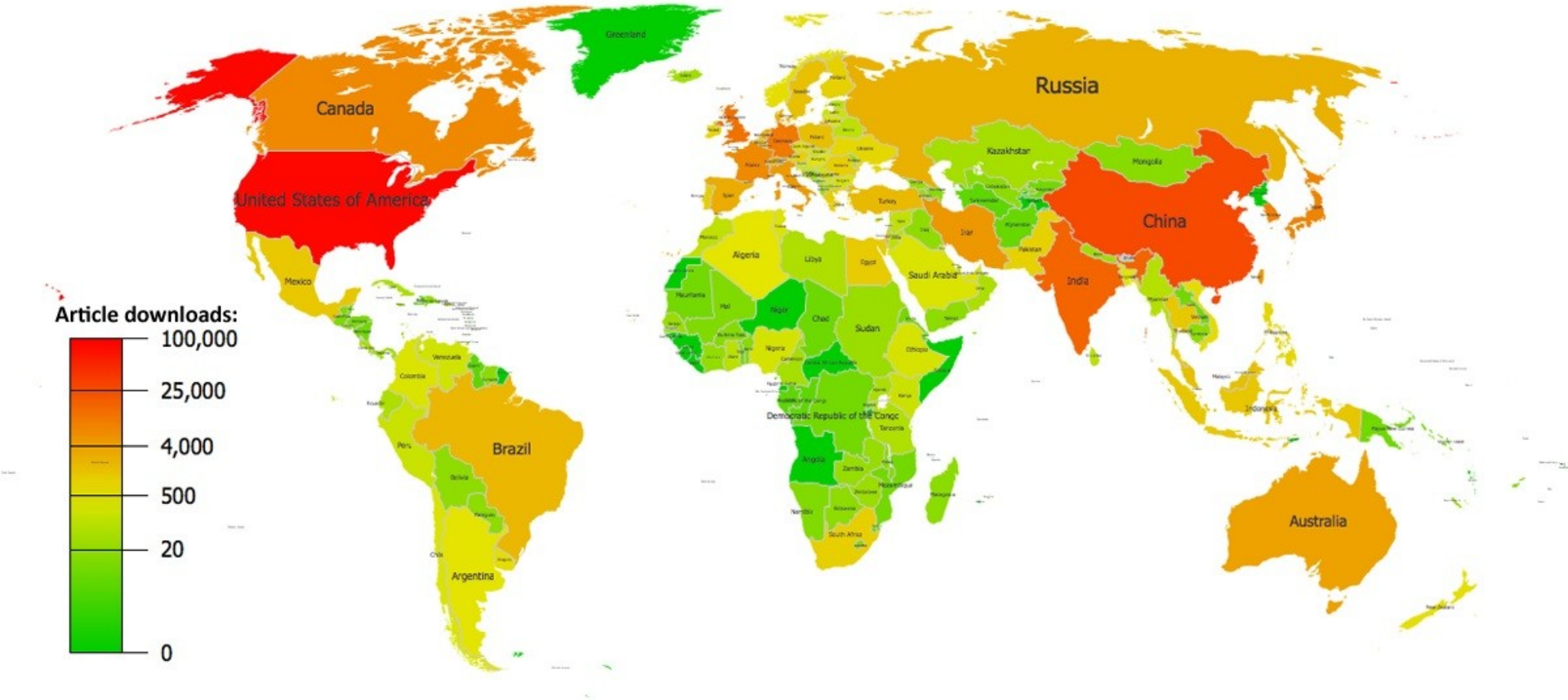
MIT's repository usage



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PubMed Central

- 2 million full-text articles
- c500,000 unique users per day:
  - 25% universities
  - 18% government and others
  - 40% citizens
  - 17% companies

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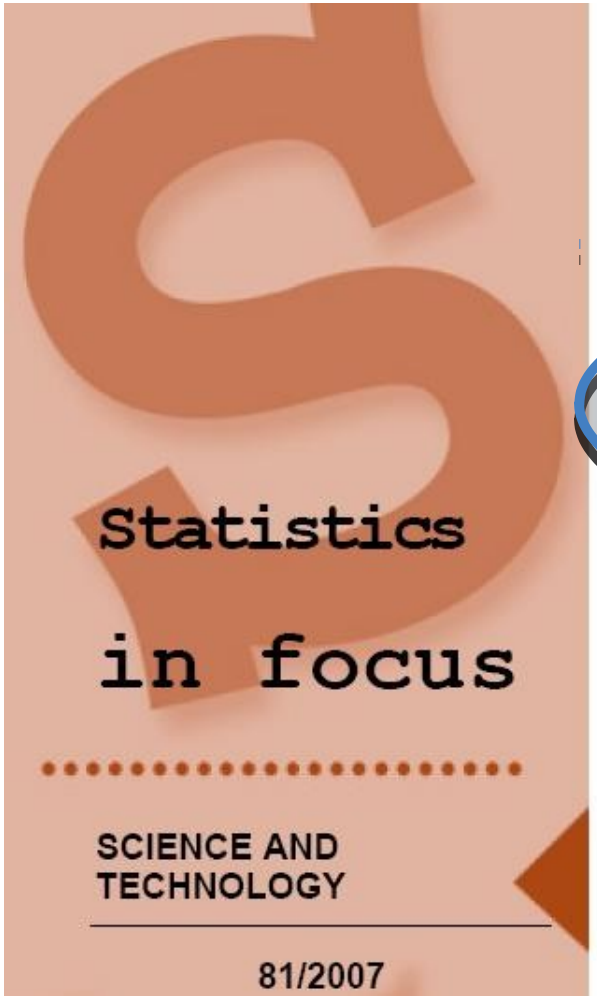
EU CIS studies



Community Innovation Statistics

Weak link between innovative enterprises and public research institutes/universities

This report puts the spotlight on two different facets of innovation among those screened by the Fourth Community Innovation Survey (CIS 4): the sources of information that are highly important for innovation, and the types of partners with which innovative enterprises cooperate.

The outcome for both aspects is similar: the link between publicly financed science and innovative industry is rather weak. Institutional sources are less frequently consulted than internal or market sources; and innovative enterprises find cooperation partners more easily among suppliers or customers than in universities or public research institutes.

PART THREE

Policy

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Author

Sergiu-Valentin PARVAN

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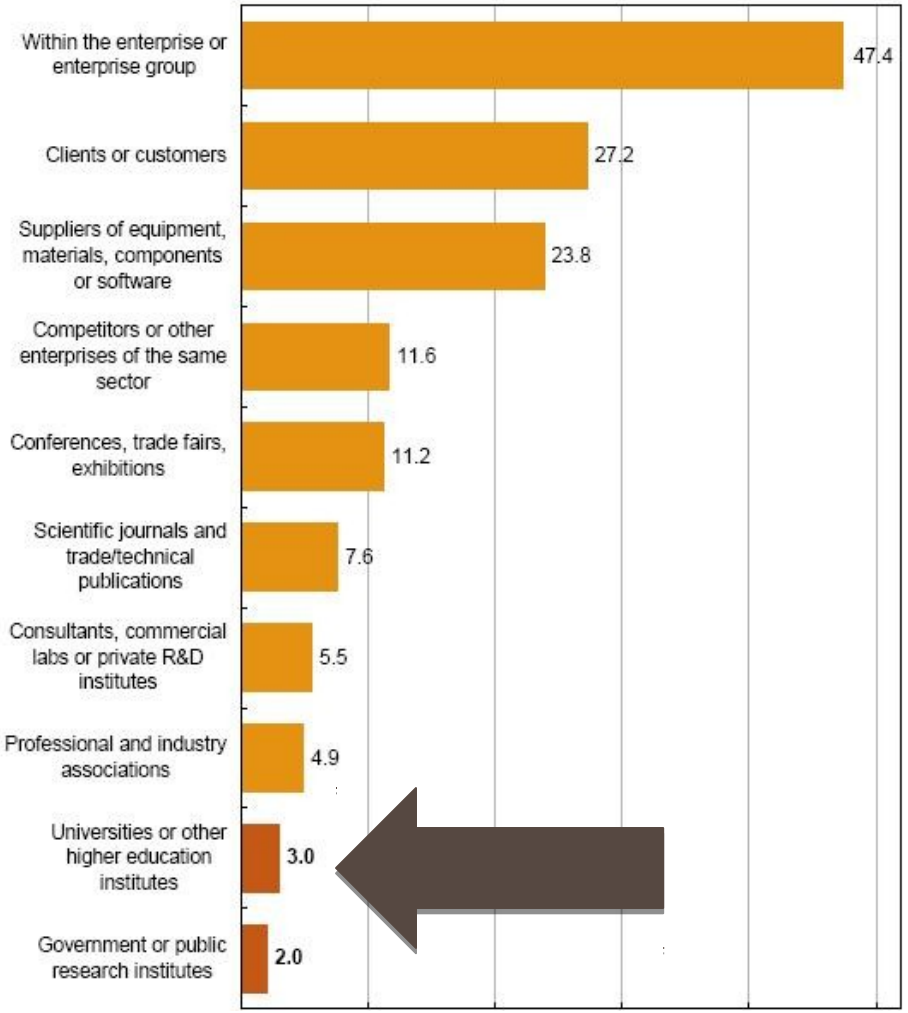
Link between science and industry 4

eurostat

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



Open Access policies: the Why

- Benefits of open access increasingly understood by policymakers. A long process.
  - Result: policies
- Enabler of **innovation**, development, **citizen-science**, transparency in research and research ethics
- In the spirit of and **aligned to other current policy trends** , openness to government information (PSI), Open education, open cultural information, etc.
- Public money and access to citizens (=taxpayers)
- Result: Tsunami of policies for open access to publications, monographs and research data

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How this affects you!

- Your institution may require obligatory open access, e.g. of your PhD Thesis (UTrieste)
- Trend for mandatory open access policies by universities and research funders all over the world
  - Research funders and research institution usually have separate open access policies for publications and for research data
- Your funder may require open access to publications and research data
  - Horizon 2020 and ERC
  - Fondazione Cariplo
  - Telethon
  - Wellcome Trust
  - Etc……
  - RCUK
- Will also ask for a data management plan (DMP) during submission of proposal

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Policies: worldwide numbers

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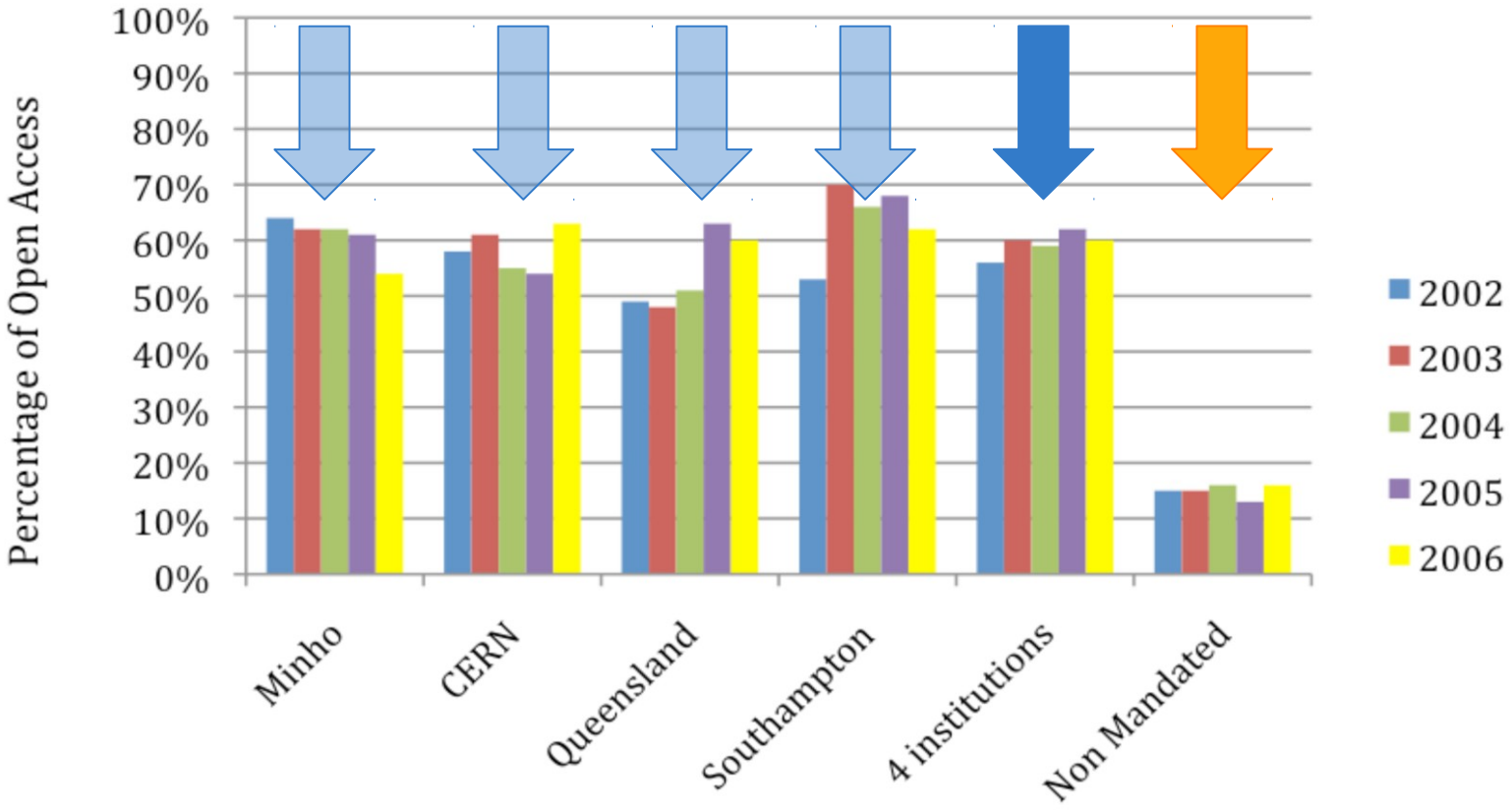
The effect of a mandatory policy



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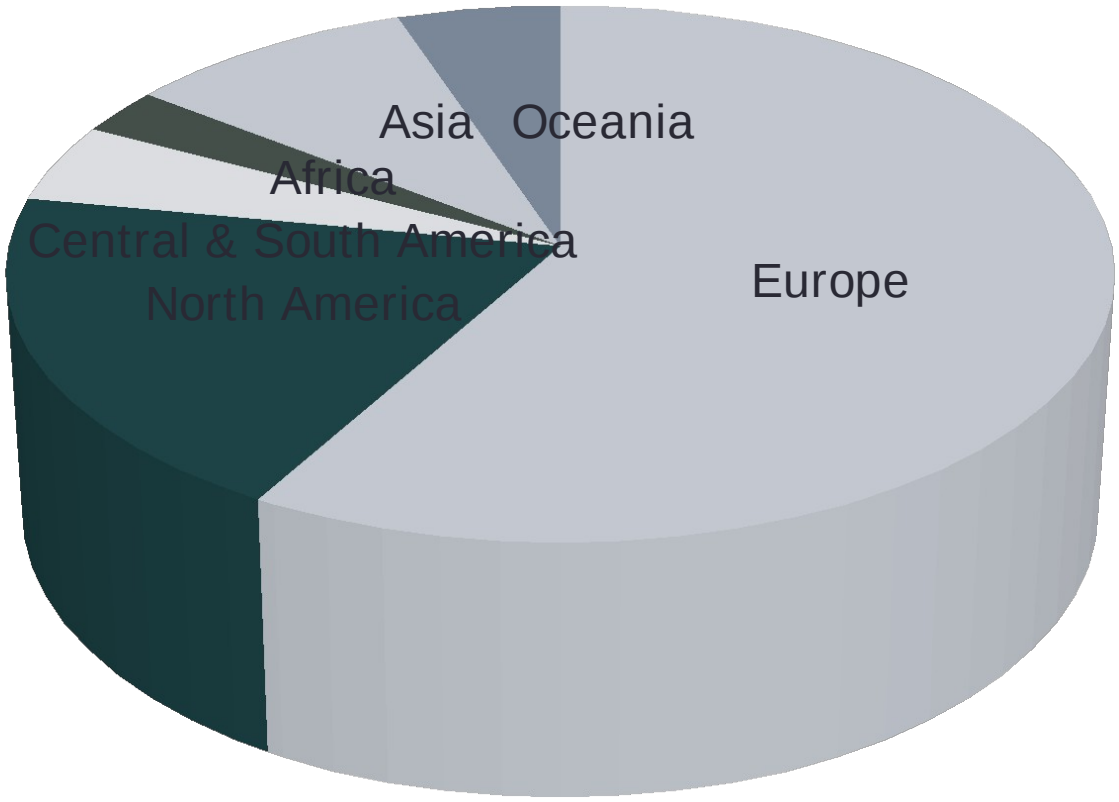
Open Access mandates worldwide



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H2020 and Open Access

- Mandatory for peer-reviewed publications
- **'Green' OA** mandate (repositories)
  - Publish as normal in subscription-based journals or open access journals
  - Place author's copy in OA repository and provide open access
  - Deposit this at acceptance for publication, or the latest at publication
- **'Gold' OA:** Permits payments from grants for OA journal publication
- Mute on **monographs**
- Definite on data: **open data pilot** for H2020

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Horizon 2020 and Open Access

- **Mandatory** immediate open access to all peer-reviewed publications (up to 12 months delay for SSH)
- Mandatory open access to research data for some areas (Open Access Pilot for 2014-2015)-Data Management Plans
- Unclear on monographs
- Green open access Mandate= **must** deposit and make open access in repository at the latest at publication time
- Gold open access encouragement= encouraged to publish in open access venues=expenses are eligible
- ERC special conditions
  - Does not participate in the Open Access Pilot
  - Monographs MUST be made open access immediately, the latest in 6Months

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What to do to comply?

- Check your funder policy
  - They mostly ask for green open access at publication=repository

- Check your institutional policy
  - In general funder policies supersede institutional policies

- Select publisher according to disciplinary criteria and according to open access publishing and self-archiving criteria (doaj.org and SherpaRomeo)-funder and institutional policies may affect your choice!

- Comply to funder-institution mandate= deposit in repository and provide open access (publications and data)

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PASTEUR4OA project

Facilitating open access policies in Europe
http://www.pasteur4oa.eu

RECODE project

http://recodeproject.eu

What should early career researchers do to change the paradigm?

- SHARE in repositories
- PUBLISH in open access
- Maintain your rights
- Providing open access is doing ethical research
- Be part of the virtuous circle of open science

- You are the next generation of professionals that will make open science a reality!

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Get involved

- Right to Research Coalition
- OpenCon 2015 in Brussels for young researchers

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Thank you for listening

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www.pasteur4oa.eu

www.ekt.gr

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