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Acceso Abierto y Ciencia Abierta : motores de transformación de las Universidades

Eloy Rodrigues— eloy@sdum.uminho.pt

Bogotá, 27 de marzo 2017





Del Acceso Abierto a la Ciencia Abierta



Acceso Abierto: Qué es?



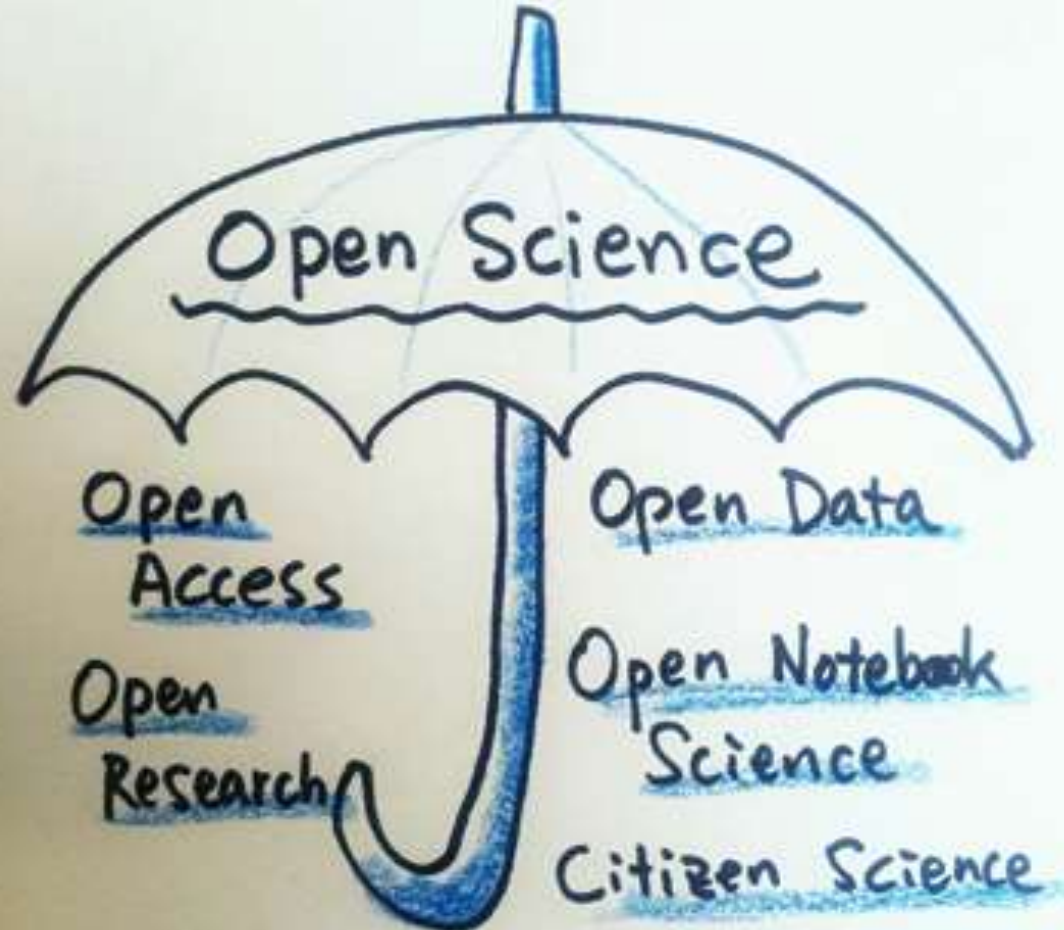
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Ciencia Abierta

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Ciencia Abierta

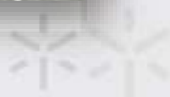
- **En los resultados**
 - **Publicaciones**
 - **Datos**
- **En los métodos**
 - **Procesos**
 - **Herramientas**
 - **Infraestructuras**
 - **....**



Acceso Abierto: Qué es?



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Dos vías para el Acceso Abierto



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Acceso Abierto/Ciencia Abierta

Porqué?



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- Promover la eficiencia y el progreso de la investigación y de la ciencia



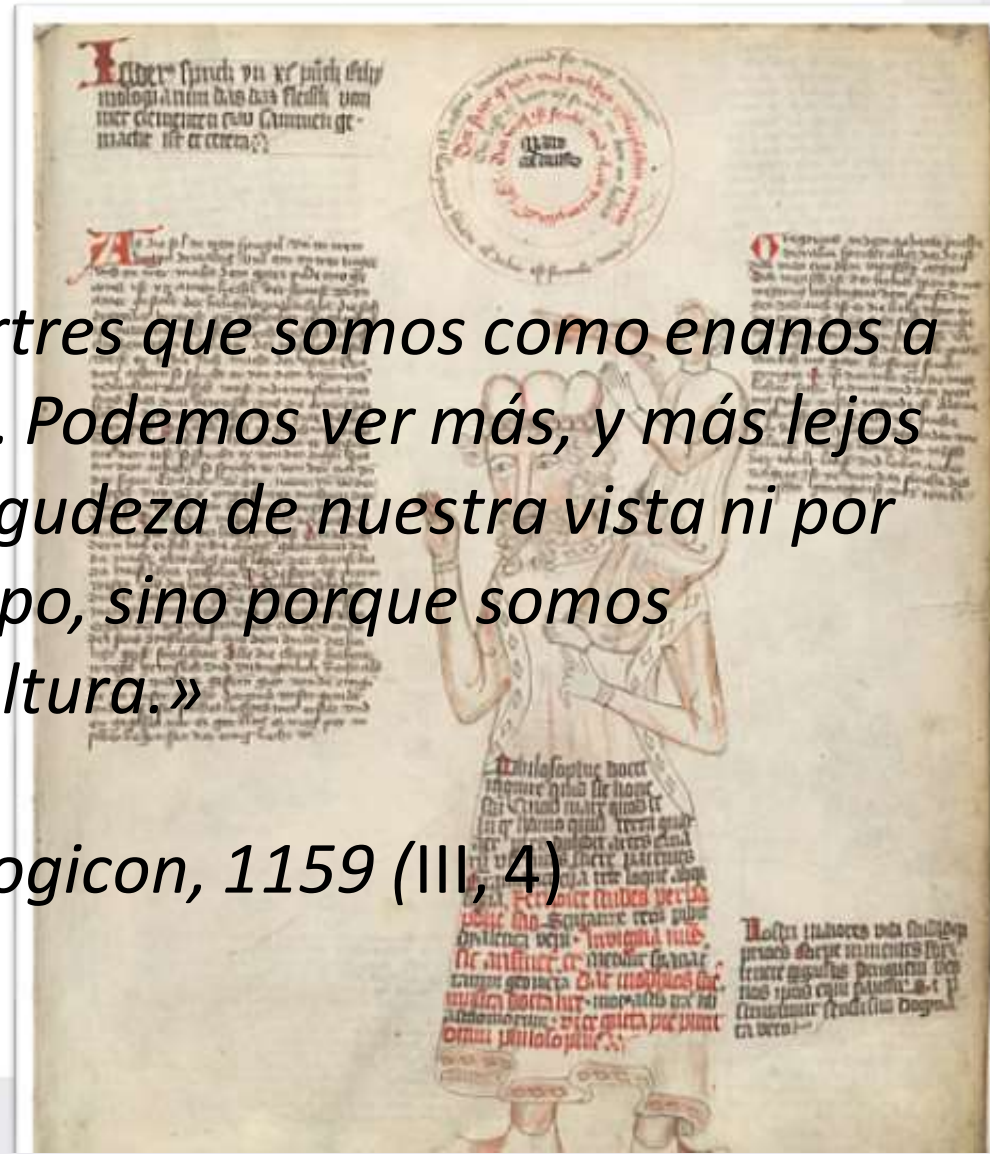
LA CIENCIA "NORMAL" ES CUMULATIVA



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«Decía Bernardo de Chartres que somos como enanos a los hombros de gigantes. Podemos ver más, y más lejos que ellos, no porque la agudeza de nuestra vista ni por la altura de nuestro cuerpo, sino porque somos levantados por su gran altura.»

Juan de Salisbury, *Metalogicon*, 1159 (III, 4)



Incluso los genios...



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*“What DesCartes did was a good step. You have added much several ways, & especially in taking ye colours of thin plates into philosophical consideration. **If I have seen further it is by standing on ye sholders of Giants.**”*



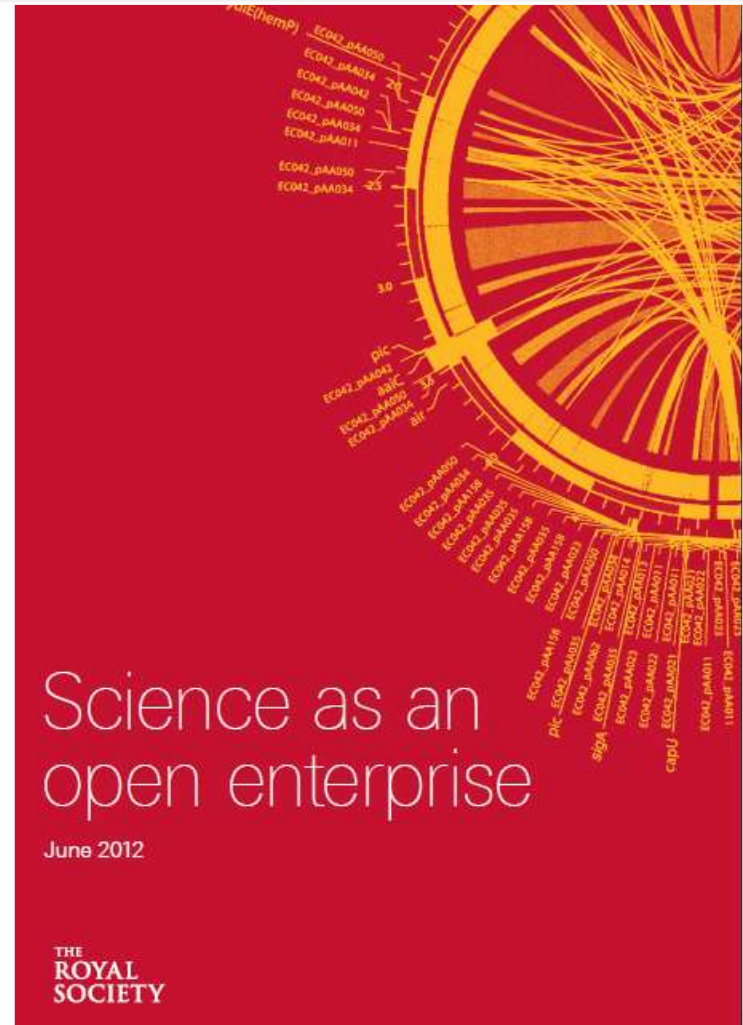
Isaac Newton - Carta para Robert Hooke
(15 de Fevereiro de 1676)

Acceso Abierto/Ciencia Abierta Porqué?



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“Much of the remarkable growth of scientific understanding in recent centuries is due to open practices; open communication and deliberation sit at the heart of scientific practice.”



<https://royalsociety.org/topics-policy/projects/science-public-enterprise/Report/>





Ciencia Abierta

Para tornar la ciencia mas **eficiente**,
transparente, **confiable** y
reproducible.



Progreso Científico Ciencia de emergencia



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Zika Open

These papers are posted in the context of the Public Health Emergency of International Concern declared by the Director-General of the World Health Organization 1 February 2016.

The data in these papers are freely available for unrestricted use, distribution and reproduction in any medium, provided that the original work is properly cited as indicated by the Creative Commons Attribution 3.0 Intergovernmental Organizations license (CC BY IGO 3.0).

If you wish to submit a manuscript, please do so via our [online tracking system](#).

EDITORIAL

Data sharing in public health emergencies: a call to researchers

- Christopher Dye, Kidist Bartolomeos, Vasee Moorthy, Marie Paule Kieny

Posted: 4 February 2016

<http://dx.doi.org/10.2471/BLT.16.170860> [Article \[HTML\]](#)

RESEARCH IN EMERGENCIES

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Progreso Cientifico

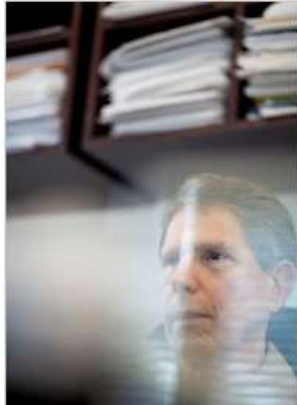
Sharing of Data Leads to Progress on Alzheimer's

By GINA KOLATA

Published: August 12, 2010

In 2003, a group of scientists and executives from the [National Institutes of Health](#), the [Food and Drug Administration](#), the drug and medical-imaging industries, universities and nonprofit groups joined in a project that experts say had no precedent: a collaborative effort to find the biological markers that show the progression of [Alzheimer's disease](#) in the human brain.

 [Enlarge This Image](#)



Now, the effort is bearing fruit with a wealth of recent scientific papers on the early diagnosis of Alzheimer's using methods like PET scans and tests of spinal fluid. More than 100 studies are under way to test drugs that might slow or stop the disease.

And the collaboration is already serving as a model for similar efforts against [Parkinson's disease](#). A \$40 million project to look for biomarkers for Parkinson's, sponsored by the [Michael J. Fox Foundation](#), plans to enroll 600 study subjects in the United States and Europe.

“It was unbelievable. Its not science the way most of us have practiced in our careers. But we all realised that we would never get biomarkers unless all of us parked our egos and intellectual property noses outside the door and agreed that all of our data would be public immediately.”

Dr John Trojanowski, University of Pennsylvania

www.nytimes.com/2010/08/13/health/research/13alzheimer.html?pagewanted=all&_r=0





Validar/Corregir Resultados

“It was a mistake in a spreadsheet that could have been easily overlooked: a few rows left out of an equation to average the values in a column.

The spreadsheet was used to draw the conclusion of an influential 2010 economics paper: that public debt of more than 90% of GDP slows down growth. This conclusion was later cited by the International Monetary Fund and the UK Treasury to justify programmes of austerity that have arguably led to riots, poverty and lost jobs.”

The error that could subvert George Osborne's austerity programme

The theories on which the chancellor based his cuts policies have been shown to be based on an embarrassing mistake

Charles Arthur and Phillip Inman

The Guardian, Thursday 18 April 2013 21:10 BST



George Osborne says that Ken Rogoff, the man whose economic error has been uncovered, has strongly influenced his thinking. Photograph: Stefan Wermuth/PA

www.guardian.co.uk/politics/2013/apr/18/uncovered-error-george-osborne-austerity



Combater la fraude



comments on this story

Published online 1 November 2011 | Nature **479**, 15 (2011) | doi:10.1038/479015a
Updated online: 1 November 2011
Updated online: 8 December 2011

Stories by subject

- Brain and behaviour
- Lab life

Stories by keywords

- Diederik Stapel
- Tilburg University
- Academic fraud
- Retractions
- Social psychology

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Add to Del.icio.us

Add to Twitter

Report finds massive fraud at Dutch universities

Investigation claims dozens of social-psychology papers contain faked data.

Ewen Callaway

When colleagues called the work of Dutch psychologist Diederik Stapel too good to be true, they meant it as a compliment. But a preliminary investigative report (go.nature.com/tqmp5c) released on 31 October gives literal meaning to the phrase, detailing years of data manipulation and blatant fabrication by the prominent Tilburg University researcher.

"We have some 30 papers in peer-reviewed journals where we are actually sure that they are fake, and there are more to come," says Pim Levelt, chair of the committee that investigated Stapel's work at the university.

Stapel's eye-catching studies on aspects of social behaviour such as power and stereotyping garnered wide press coverage. For example, in a recent *Science* paper (which the investigation has not identified as fraudulent), Stapel reported that untidy environments encouraged discrimination (*Science* **332**, 261-263, 2011).



Dutch psychologist Diederik Stapel.

Persbureau van Eindhoven

Retraction Watch

Tackling retractions as a

Raw files help fix 2003 figure by heart researcher accused of fraud

without comments

A researcher accused of misconduct [by an anonymous Japanese blogger](#) has corrected a 2003 paper in *Circulation Research*, after providing a university investigation with the original source files.



Allegations of fraud have dogged [Shokei Kim-Mitsuyama](#) for years, and even caused him to step down from his position as editor in chief at another journal. However, Kim-Mitsuyama and his colleagues call the latest correction a "mistake," which didn't affect any of the paper's conclusions.

We've unearthed a total of five publications co-authored by [Kim-Mitsuyama](#) that have earned corrections, the [latest of which](#) cites an investigation by the university:

[Read the rest of this entry >](#)

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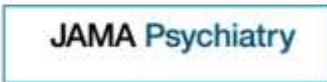
Written by Shannon Palou
April 21st, 2016 at 2:00 pm

Posted in [amj](#), [aphysiol](#), [heart](#), [circ](#), [obgyn](#), [American Heart Association](#), [cardiology](#), [retractions](#), [cardiovascular research](#), [circulation](#), [research](#), [corrections](#), [anonymous data](#), [hypertension](#), [research](#), [jama](#), [retractions](#), [misconduct](#), [investigations](#), [nature](#), [publishing](#), [group](#), [also](#), [also](#), [one](#), [scientific](#), [reports](#), [society](#), [journal](#), [retractions](#)

Authors retract, replace highly cited JAMA Psych paper for "pervasive errors"

with 4 comments

Authors have retracted a highly cited *JAMA Psychiatry* study about depression after failing to account for some patient recoveries, among other mistakes.



It's a somewhat unusual notice — it explains that the paper has been retracted and replaced with a new, corrected version.

The study, which included 432 adults with major depressive disorder, concluded that cognitive therapy plus medication works better to treat depression than pills alone. But after it was published, a reader pointed out that some of the numbers in a table were incorrect. The authors reviewed the data and redid their analysis, and discovered "a number of pervasive errors."





Ciencia Abierta

Para facilitar la innovación y maximizar el impacto y el retorno social y económico del investimento que nuestras sociedades realizan en la ciencia





El Acceso Abierto y la ciencia abierta en el mundo: donde estamos?





- El progreso del Acceso Abierto en la última década fue notable!
 - Mas repositorios (de <200 a >3200)
 - Mas revistas AA (de <500 a >9300)
 - Mas políticas AA (de instituciones de investigación y de agencias de financiación de ciencia)



Evolución reciente del Acceso Abierto



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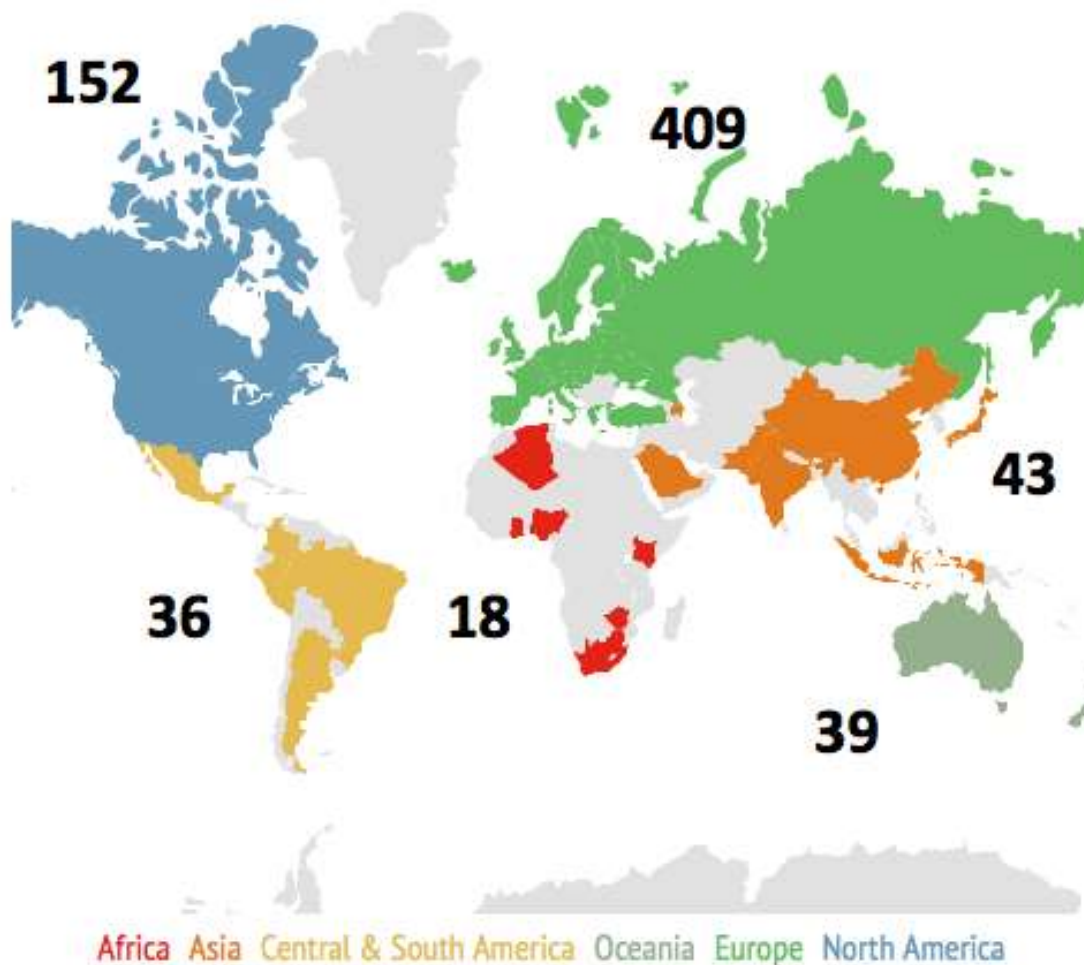
- Crecimiento del número de repositorios, e del número de documentos en los repositorios
- Crecimiento del número de revistas de acceso abierto
- Políticas y mandatos de Acceso Abierto de universidades y órganos de financiación



Políticas de acceso abierto



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Open Access Policies by Continent



La mayoría de las políticas de acceso abierto son **verdes** (archivo en repositorios)!



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OA Policy Requirements - Pasteur4OA Project (European Commission)

Criterion (Green OA)	Number of policies	Criterion (Gold OA)	Number of policies
Deposit in repository required (Green OA)	381	OA publishing required	2
Deposit in repository requested	140	Recommended alternative to Green OA	97
Deposit in repository not specified	141	Permitted alternative to Green OA	101
		Not specified/other	463
Total	663		663

Table 3: Open Access policies: Green and Gold OA criteria





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CHINESE ACADEMY OF SCIENCES

Location: Home » Newsroom » News Updates

News Updates

CAS Issues Open Access Policy

2014-05-16

The Chinese Academy of Sciences (CAS) will promote open access to scientific articles generated to funded research. The academy announced Thursday in Beijing.

**Australian Government
Australian Research Council**

Applicants

Home | About ARC | Minister | National Competitive Grants Program | Information for Applicants | Media | General Information | Res

INFORMATION FOR APPLICANTS

You are here: Home » Information for Applicants » ARC Open Access Policy

ARC Open Access Policy (version 2013.1)

Printer friendly version - PDF Format (450KB) [Word Format](#) (127KB)

- Overview

Es ley el acceso libre a la información científica

El Senado de la Universidad aprobó por unanimidad la moción que obliga a los investigadores científicos del país a facilitar el acceso abierto a sus investigaciones

Ministero dell'Istruzione, dell'Università e della Ricerca

Atti Ministeriali

Decreto Direttoriale 29 gennaio 2014 n. 107

Bando relativo al programma SIR (Scientific Independence of young Researchers) 2014

Ministero dell'Istruzione, dell'Università e della Ricerca
Dipartimento per l'Università, l'Alta e la Ricerca
DIREZIONE GENERALE PER IL COORDINAMENTO E LO SVILUPPO DELLA RICERCA

MEXICO

ACCESO ABIERTO EN LA SOCIEDAD DEL CONOCIMIENTO



Annual Global Meeting

Berlin
27-29 May
2013

GLOBAL RESEARCH COUNCIL



Open Access is the

DEFAULT

for research results in H2020





Multi-beneficiary General Model Grant Agreement

29.2 Open access to scientific publications

29.3 Open access to research data



http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

SOLUTION

Horizon 2020 already mandates open access to all scientific publications



From 2017,
research data is **open by default**,
with possibilities to opt out



“Open Innovation, Open Science, Open to the World”

Carlos Moedas

Comissário Europeu para a Investigação, Ciência e Inovação, 2015





- El progreso del Acceso Abierto en la última década fue notable!
 - Mas repositorios (de <200 a >3200)
 - Mas revistas AA (de <500 a >9000)
 - Mas políticas AA (de instituciones de investigación y de agencias de financiación de ciencia)

- **Pero aún queda un largo camino a recorrer...**





Donde estamos?

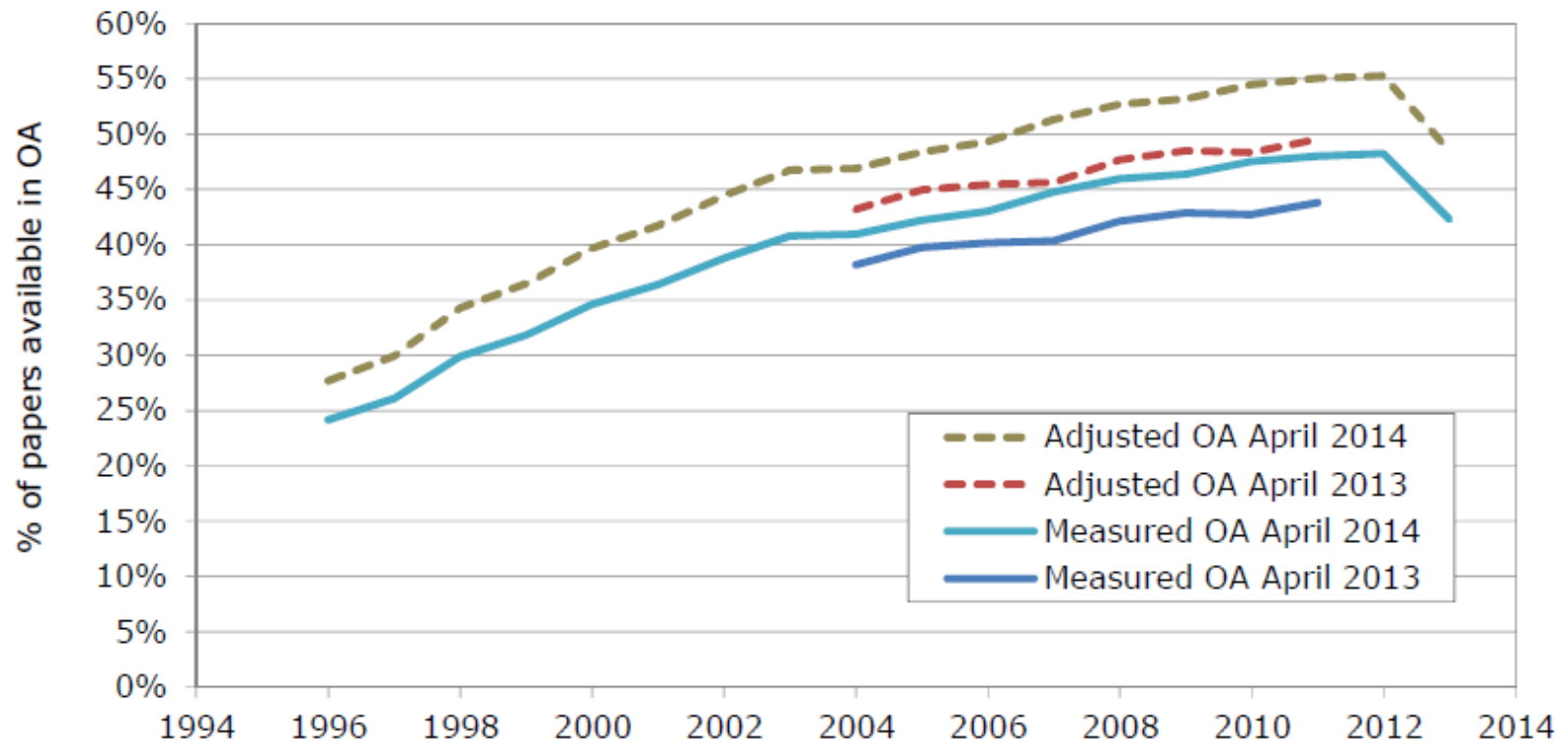


Figure 2 Evolution of the proportion of OA scientific papers as measured in April 2013 and April 2014, 1996–2013

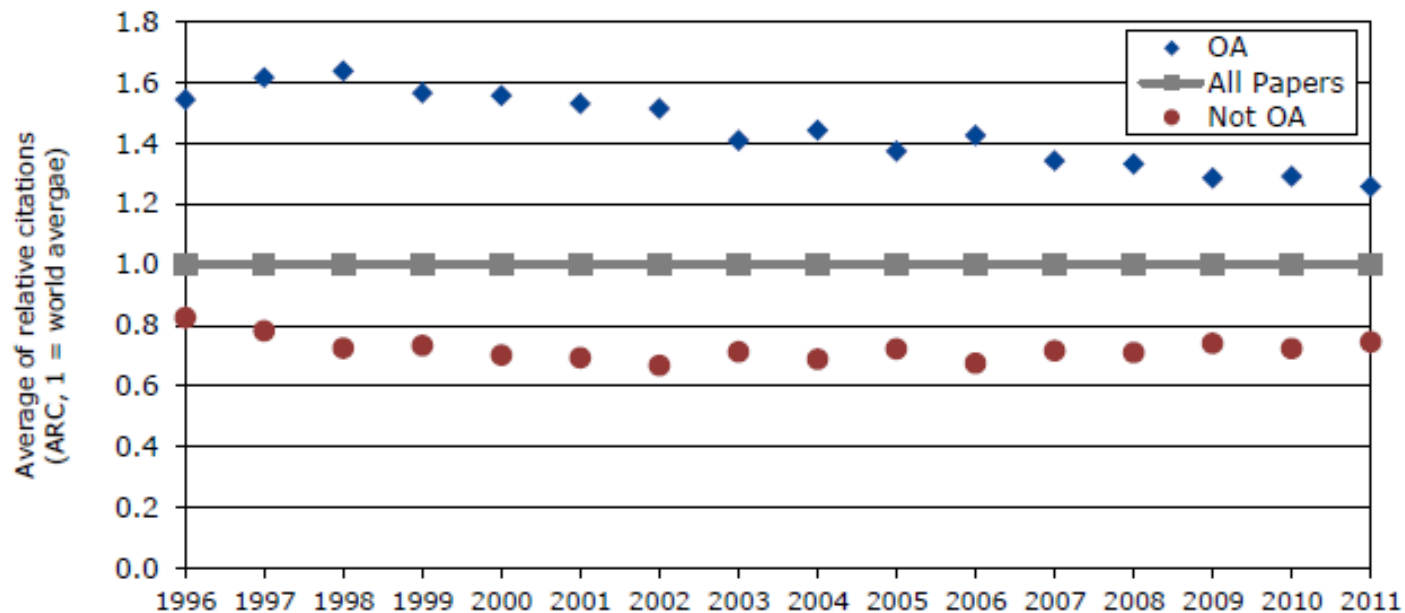
Source: Computed by Science-Metrix using Scopus, DOAJ and numerous sources of freely downloadable papers.





Donde estamos?

- ▶ Scientific impact of OA and non-OA papers published in 1996–2011





LOS REPOSITARIOS AL SERVICIO DE LAS INSTITUCIONES Y DEL FUTURO DE LA CIENCIA



Repositorios abiertos

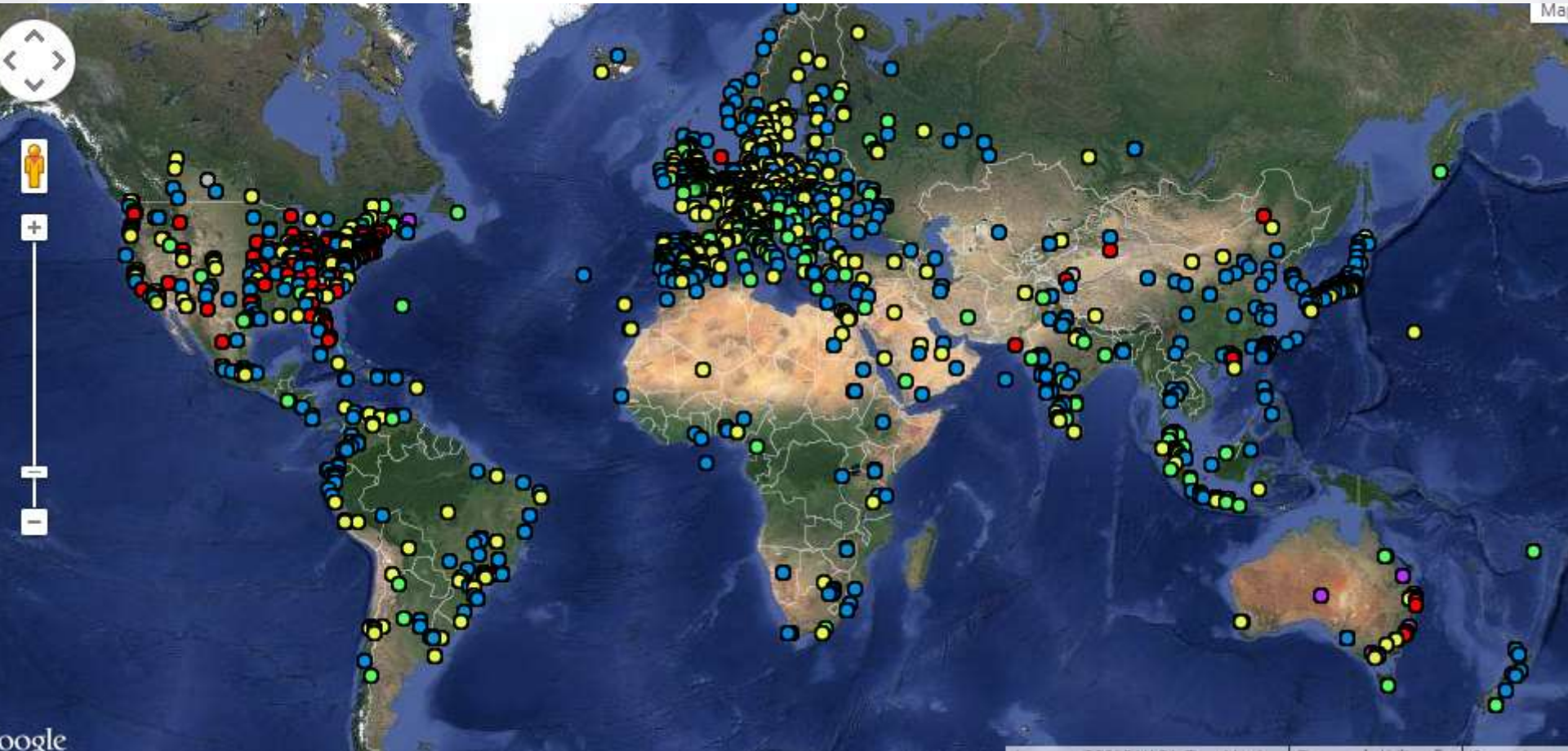


- Institucionales (de Universidades y otras organizaciones de investigación) o Disciplinares/centralizados (como PubMed Central o Arxiv)
- De publicaciones, de datos, o de varios tipos de resultados científicos y académicos





Los repositorios en el mundo...



El papel y el impacto del acceso abierto y de los repositorios



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- Ventajas para la ciencia y la investigación
- Ventajas para los investigadores
- Ventajas para las instituciones





Vantagens para los investigadores



Acceso



Uso



Visibilidad



Impacto



Ventajas para las instituciones



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- Registro completo de su output intelectual
- Herramienta de gestión de la actividad científica y académica
- Promoción de la imagen, visibilidad y perfil público de las instituciones



Ventajas de impacto/visibilidad: Un ejemplo ...



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Self-Selected or Mandated, Open Access Increases Citation Impact for Higher Quality Research

Yassine Gargouri¹, Chawki Hajjem¹, Vincent Larivière², Yves Gingras³, Les Carr⁵, Tim Brody⁵, Stevan Harnad^{4,5*}

¹Institut des Sciences Cognitives, Université du Québec à Montréal, Montréal, Québec, Canada, ²Observatoire des Sciences et des Technologies, Université du Québec à Montréal, Montréal, Québec, Canada, ³Canada Research Chair in the History and Sociology of Science, Université du Québec à Montréal, Montréal, Québec, Canada, ⁴Canada Research Chair in Cognitive Sciences, Université du Québec à Montréal, Montréal, Québec, Canada, ⁵School of Electronics and Computer Science, University of Southampton, Southampton, United Kingdom

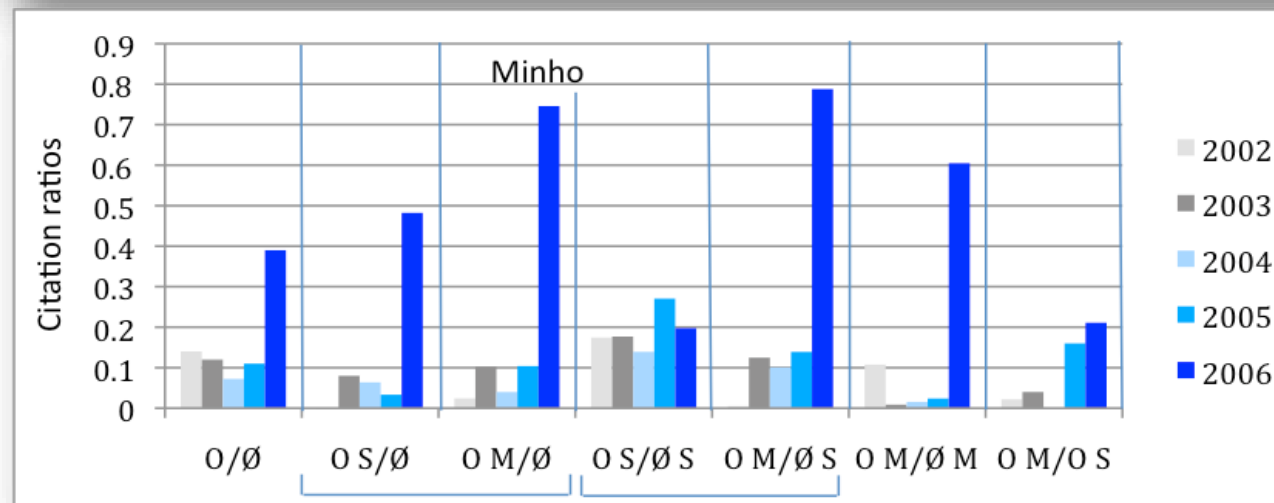
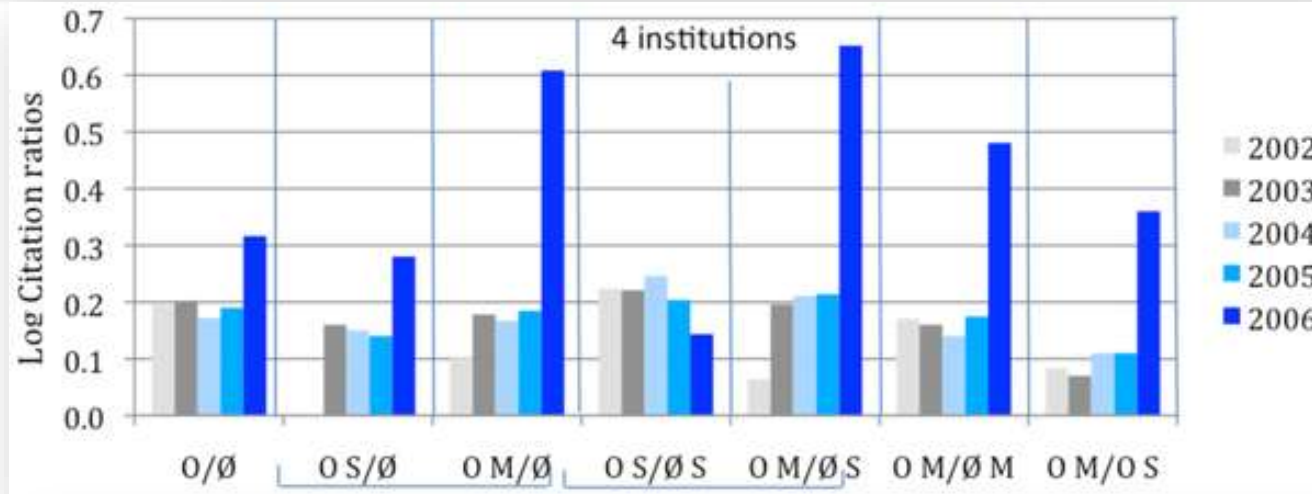
Abstract

Background: Articles whose authors have supplemented subscription-based access to the publisher's version by self-archiving their own final draft to make it accessible free for all on the web ("Open Access", OA) are cited significantly more than articles in the same journal and year that have not been made OA. Some have suggested that this "OA Advantage" may not be causal but just a self-selection bias, because authors preferentially make higher-quality articles OA. To test this we compared self-selective self-archiving with mandatory self-archiving for a sample of 27,197 articles published 2002–2006 in 1,984 journals.

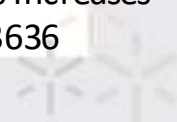
Methodology/Principal Findings: The OA Advantage proved just as high for both. Logistic regression analysis showed that the advantage is independent of other correlates of citations (article age; journal impact factor; number of co-authors, references or pages; field; article type; or country) and highest for the most highly cited articles. The OA Advantage is real, independent and causal, but skewed. Its size is indeed correlated with quality, just as citations themselves are (the top 20% of articles receive about 80% of all citations).

Conclusions/Significance: The OA advantage is greater for the more citable articles, not because of a quality *bias* from authors self-selecting what to make OA, but because of a quality *advantage*, from users self-selecting what to use and cite, freed by OA from the constraints of selective accessibility to subscribers only. It is hoped that these findings will help motivate the adoption of OA self-archiving mandates by universities, research institutions and research funders.

Un ejemplo ...



Gargouri Y, Hajjem C, Larivière V, Gingras Y, Carr L, et al. 2010 Self-Selected or Mandated, Open Access Increases Citation Impact for Higher Quality Research. PLoS ONE 5(10): e13636. doi:10.1371/journal.pone.0013636





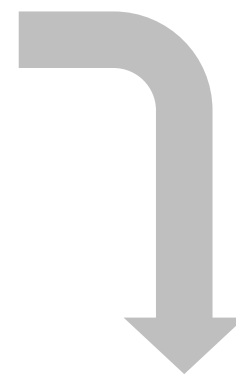
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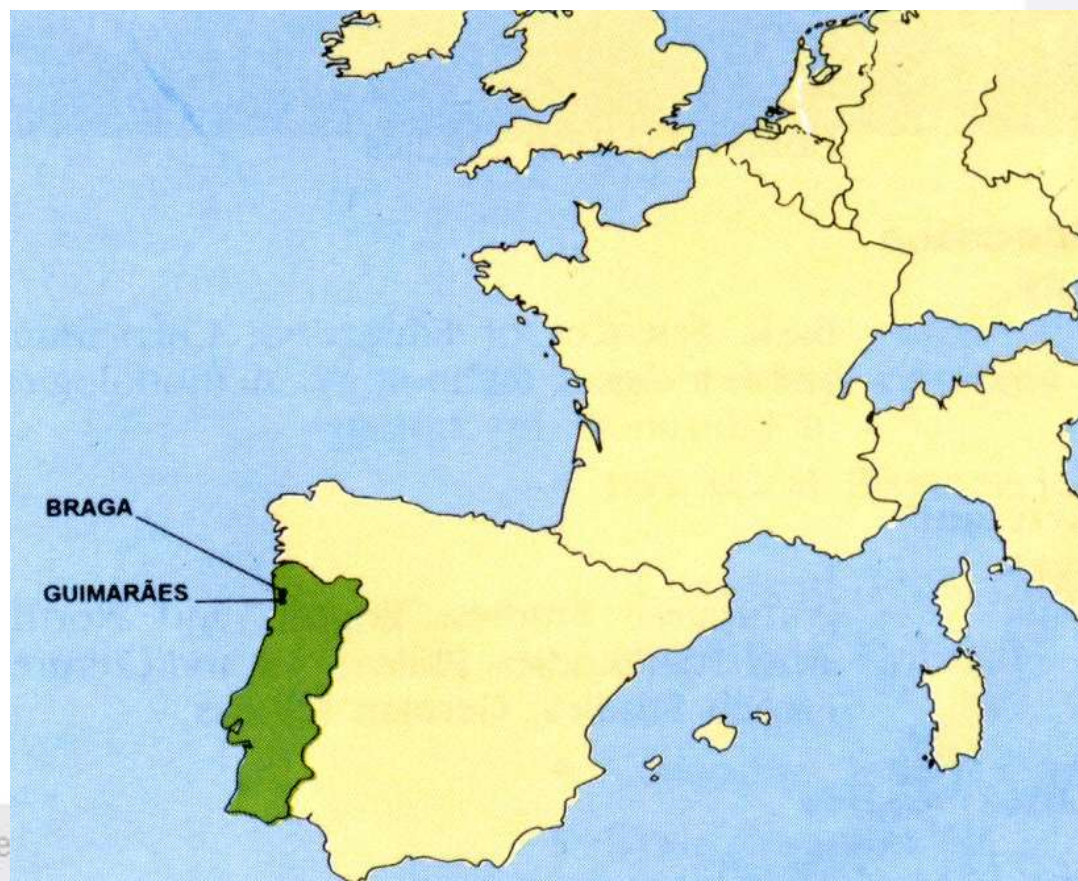
Un pionero del Open
Access [2003-2017]

OA fue incorporado en los
Planes de Acción de la
Universidad para 2009-
2013 y 2013-2017





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Abertura do RepositórioUM



Política Acesso Aberto da UMinho

RepositórioUM
1.000.000 downloads!
1.000.000 downloads!



Projecto NECCOBELAC



Nova Política Acesso Aberto UMinho

Open Access at the Max Planck Society
Assinatura da Declaração de Berlim

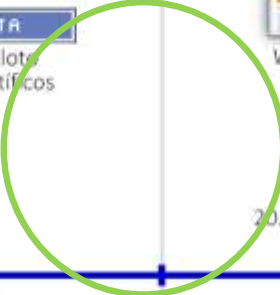
openaccess
2.ª Conf. Open Access

5.000 documentos!



RCAAP
Repositório Científico de Acesso Aberto de Portugal
Projecto RCAAP

OPEN DATA
Projeto-piloto Dados Científicos



2002 2003 2004 2005 2006 2007 2008 2009 2010 2011



Fase de testes



Estratégia de comunicação



1.ª Conf. Open Access



Add-on de Estatísticas

Grupo Trabalho Open Access CRUP



Projeto DRIVER II



3.ª Conf. Open Access
openaccess

4.ª Conf. Open Access
openaccess



Projecto OpenAIRE

1.ª Conf. Luso-Brasileira Acesso Aberto
acessoaberto

2.ª Conf. Luso-Brasileira Acesso Aberto
acessoaberto

Projetos OpenAIRE plus & MedOANet



OpenAIRE

medoanet



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Pesquisa

Introduza um texto na caixa em baixo para pesquisar no RepositóriUM.

e^{um} **e-U**

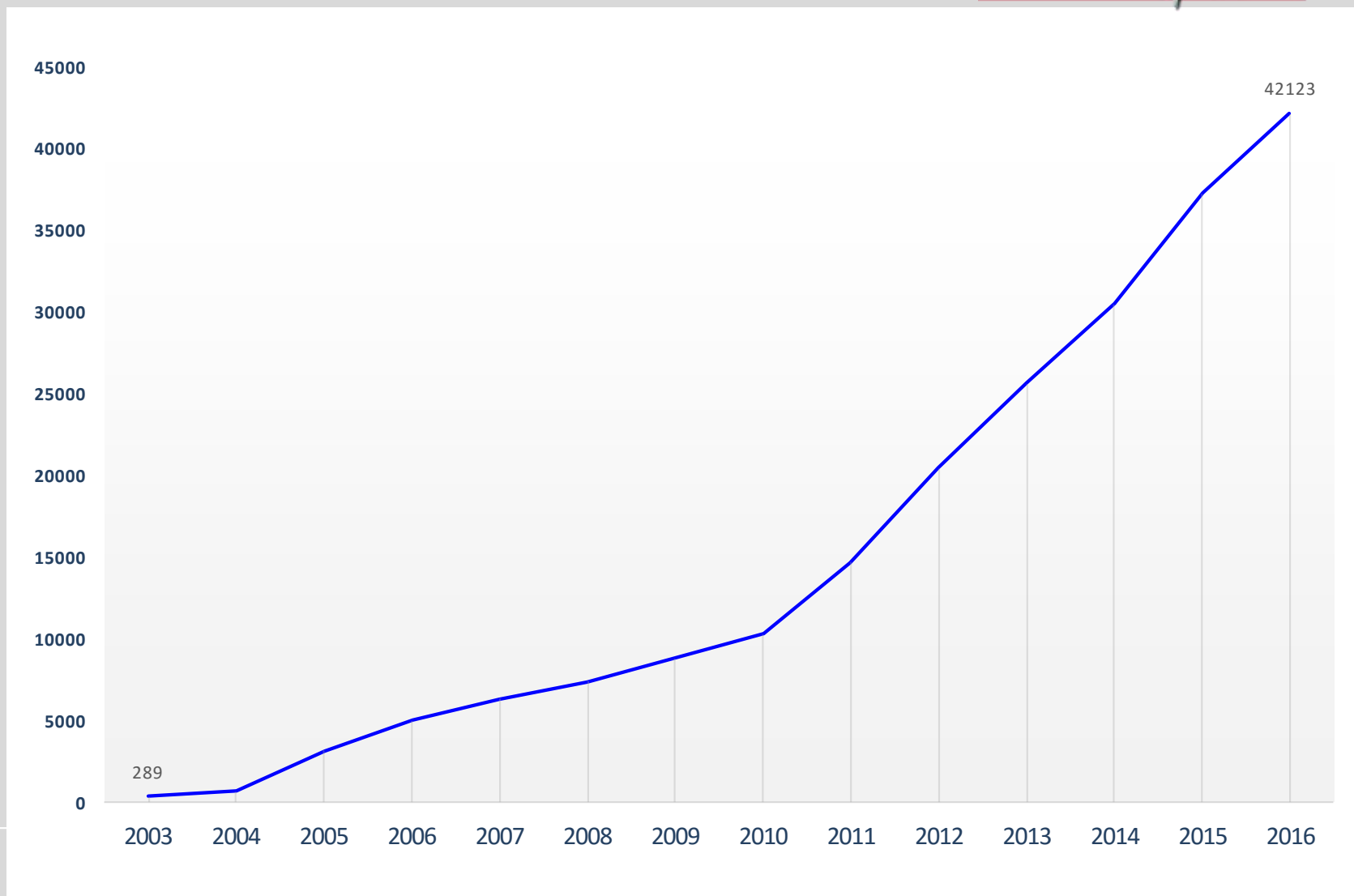
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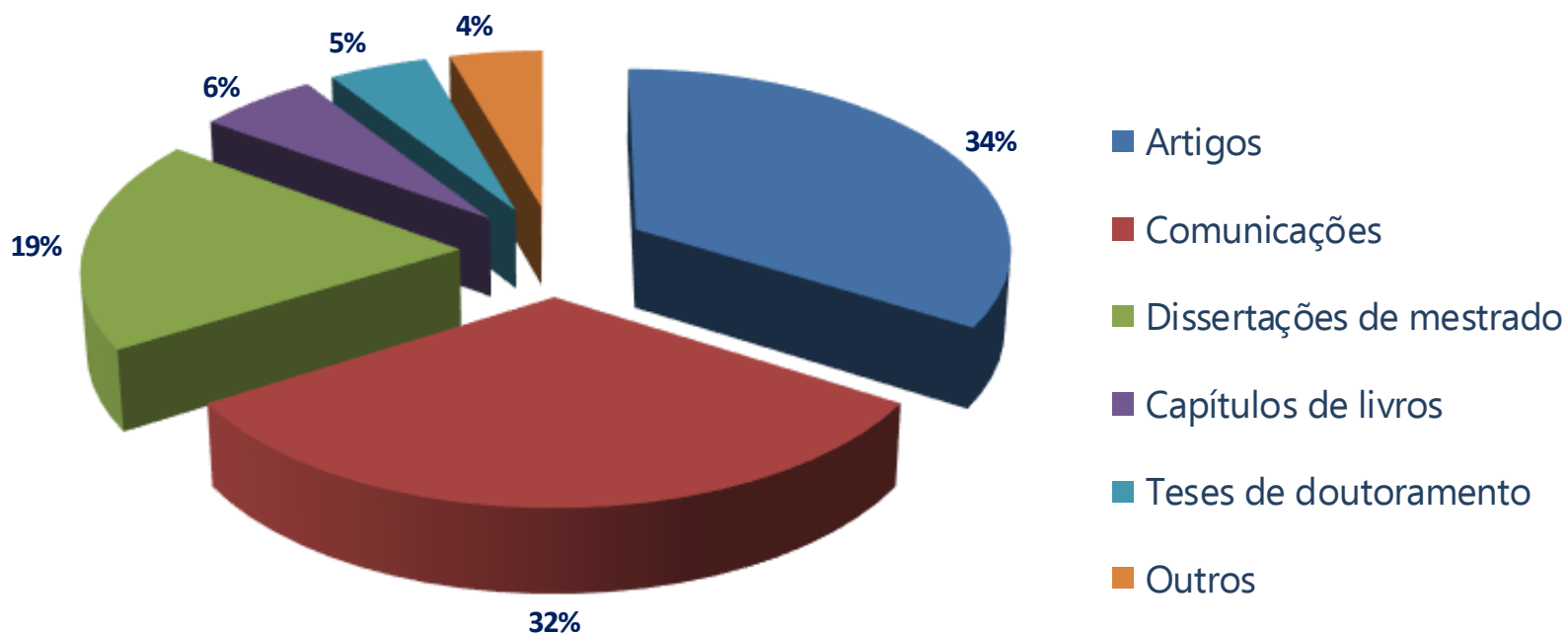
É Mestre ou Doutor



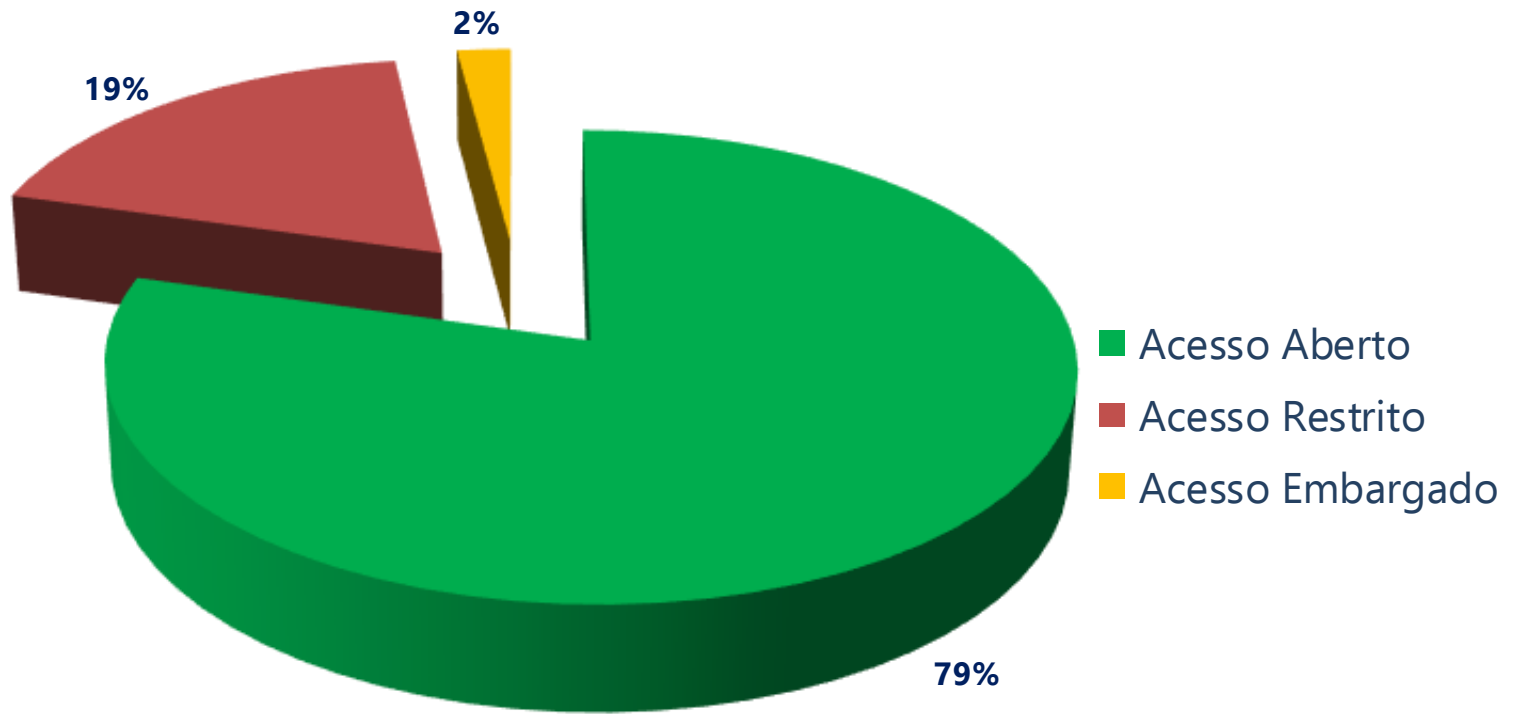
Documentos / ano



Tipo de documentos



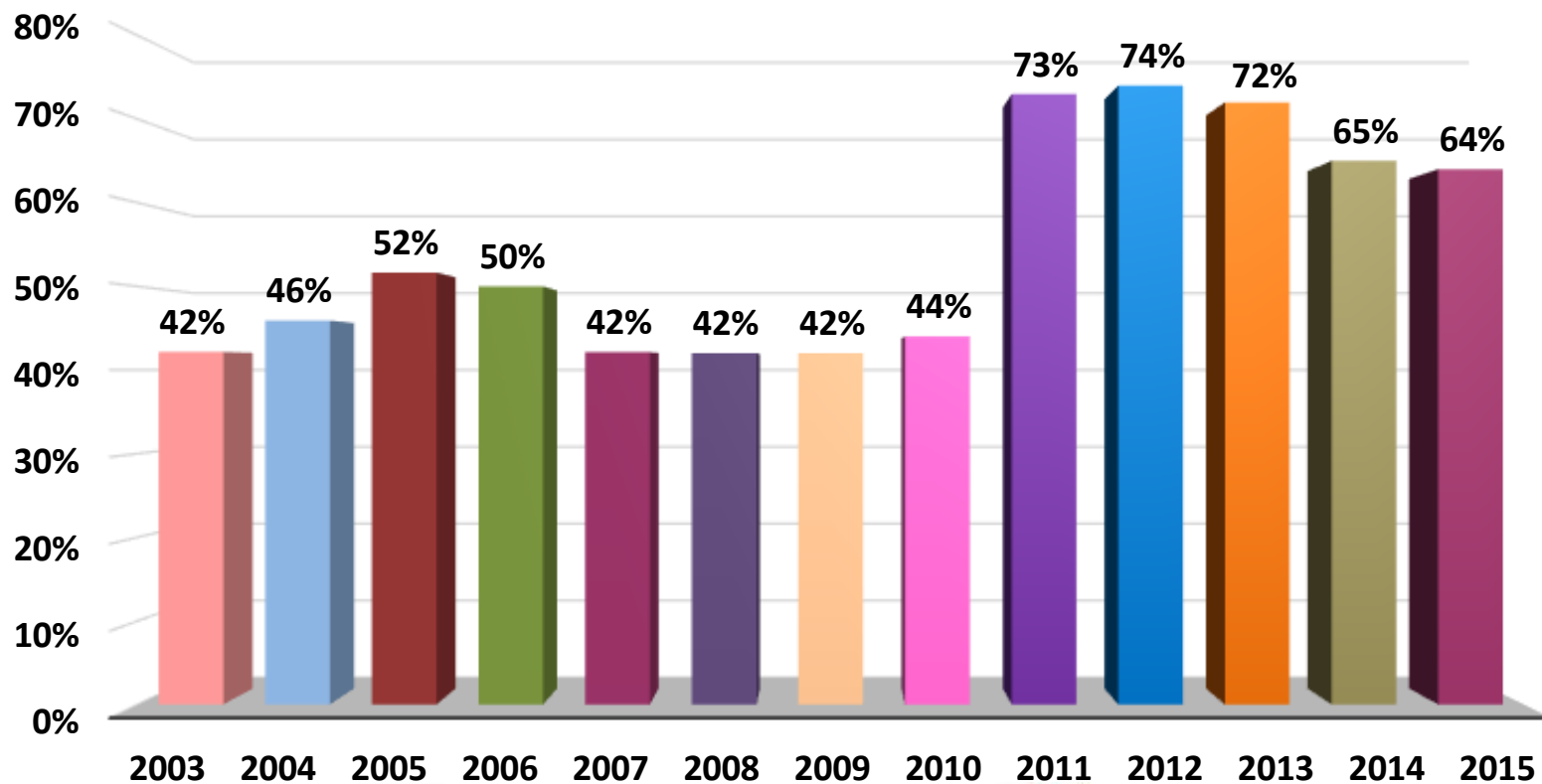
Tipo de acesso



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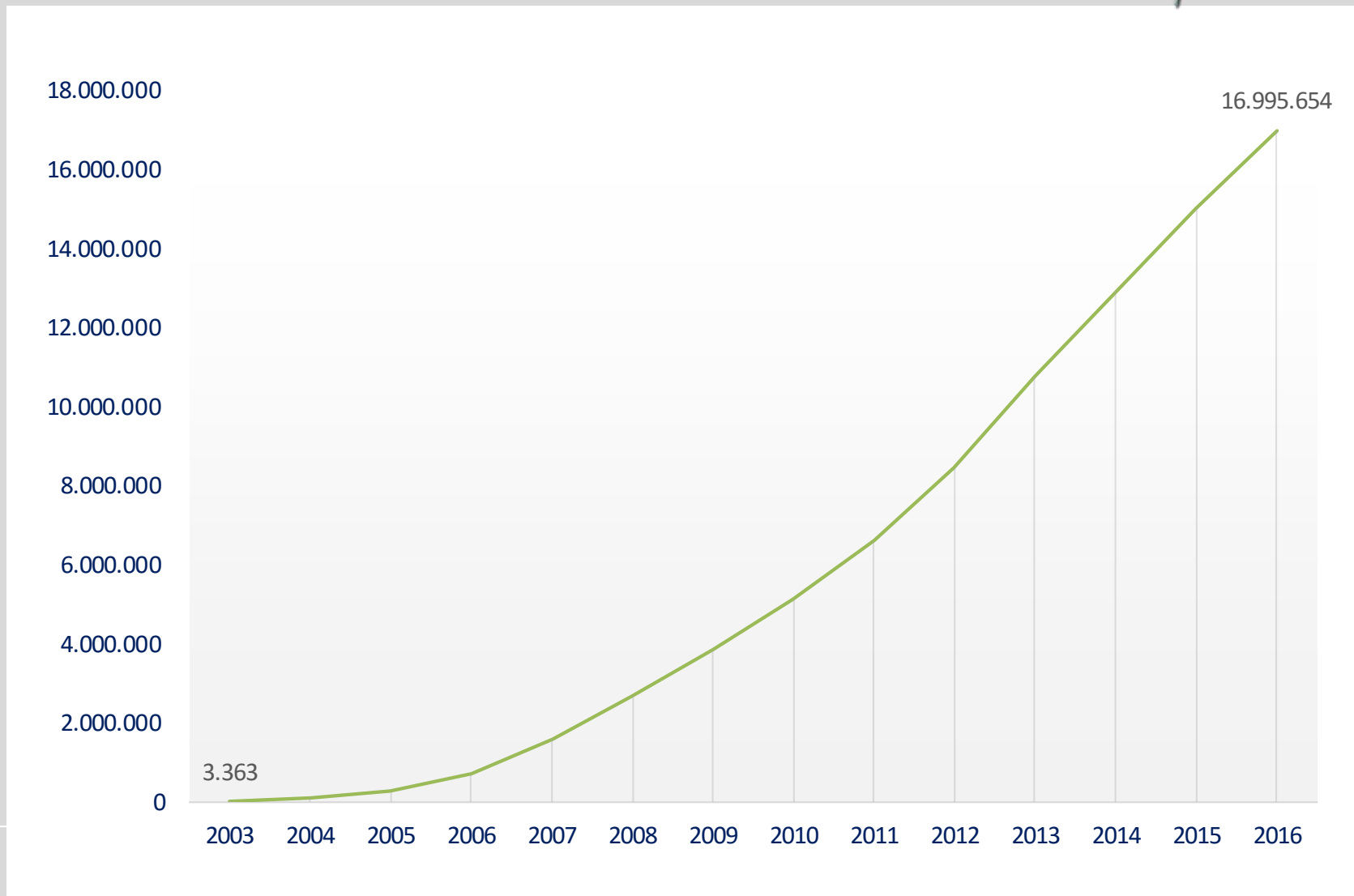


Percentagem das publicações WoS/Scopus da UMinho no RepositóriUM

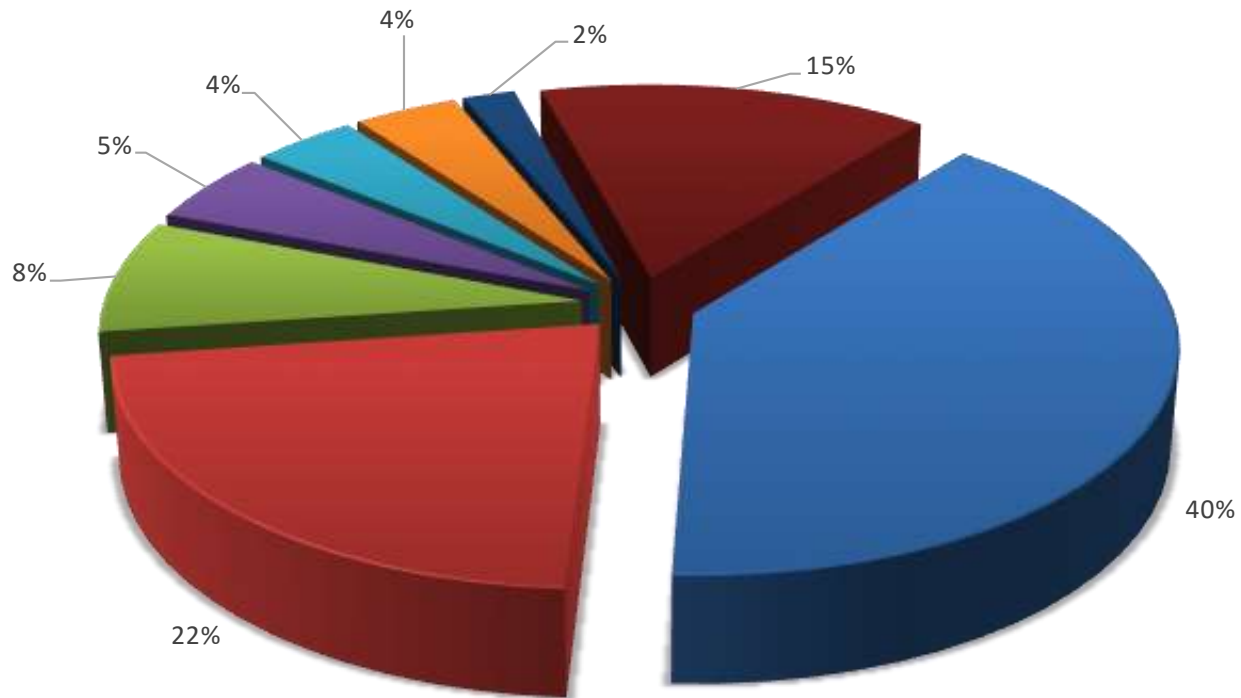


Downloads por ano

Más de 16.900.000 desde 2003!

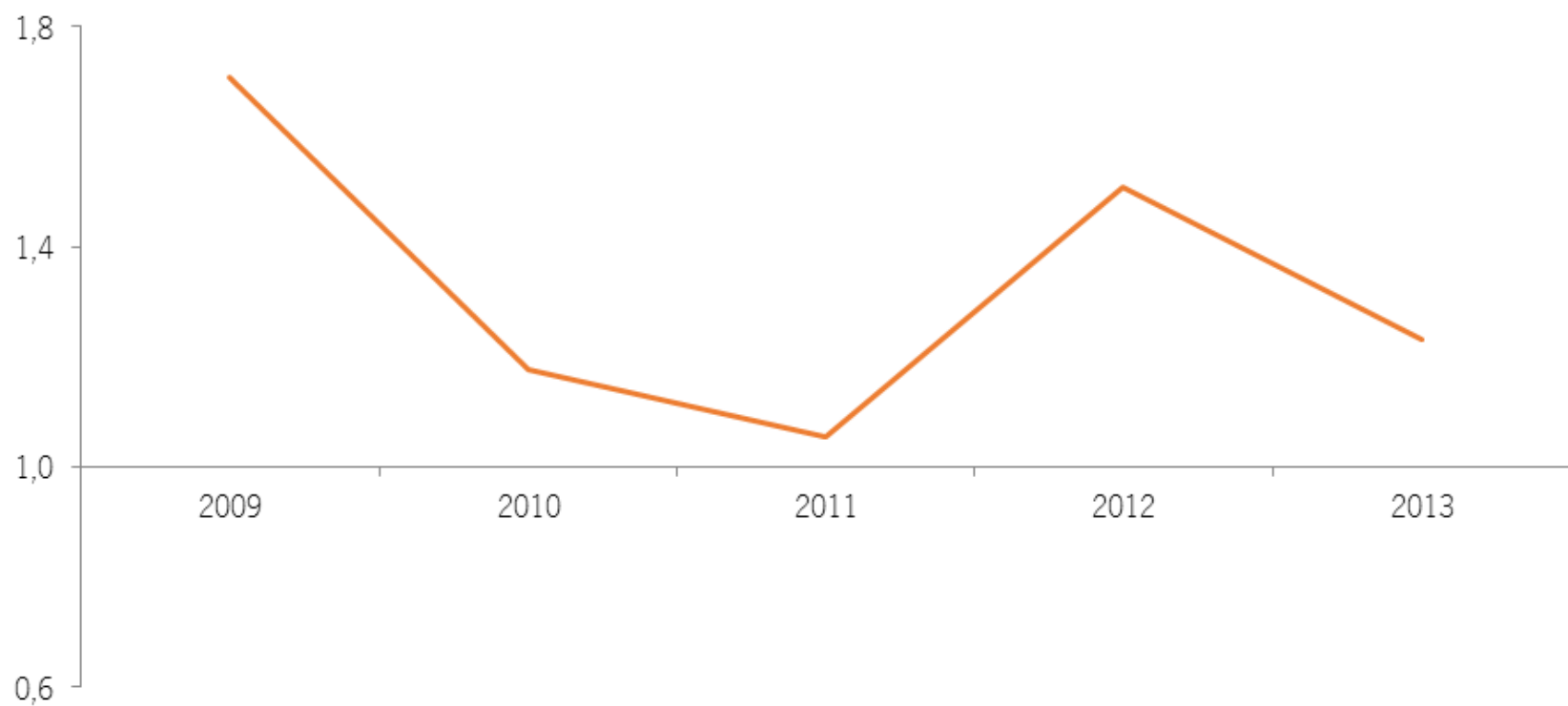


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Citações por *paper*. rácio UMinho / Portugal





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Orientaciones futuras

El Acceso Abierto es parte del **Plan Estratégico de UMinho (2013-2020)**

RepositóriUM será la única fuente de información, sobre publicaciones, en el sistema de información de la Universidad, que soportará todas las actividades de reporte, gestión y evaluación en la Universidad.



RepositóriUM

Nuevas experiencias con la curaduría y acceso a los datos científicos (research data)





REPOSITÓRIOS

DE LOCAL A GLOBAL

MIRANDO HACIA EL FUTURO





De los repositorios individuales...



A las redes de repositorios...



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中国科学院 机构知识库服务网格
CHINESE ACADEMY OF SCIENCES Institutional Repositories Grid



オープンアクセスリポジトリ推進協会

—JPCOAR : Japan Consortium for Open Access Repository—





Pero hay que asegurarse que no se transforman en SILOS....



La Vision de COAR



Un espacio global de conocimiento abierto basado en la red de repositorios de acceso abierto



Who is COAR?

- Over 100 members and partners from 35 countries in 5 continents
- Universities, libraries, government agencies, open access organizations, not-for-profit organizations, and platform developers
- Diverse perspectives that share a common vision

Major Activities

International voice
Raising the visibility of repository networks as key infrastructure for open science

Alignment and interoperability
Building a global knowledge commons through harmonization of standards and practices

Cultivating relationships
Supporting an international community of practice for repositories and open access

Building capacity
Advancing skills and competencies for repository and research data management

Adopting value-added services
Promoting the use of web-friendly technologies and new functionalities for repositories

Contacts Us

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How to participate?

- Organizations can join COAR for €500 Euros per year (about \$600 US)
- Join as a single, consortial, or special member or partner
- Download the membership application (<https://www.coar-repositories.org/about/join/become-a-member>)

Que es COAR?



- Una asociación internacional creada en 2009
- Miembros y “Socios”: más de 100 instituciones de 35 países de África, Asia, Europa, América del Norte y del Sur
- **La Universidad del Rosario es miembro de COAR**
- **Todos los nodos nacionales de LA Referencia son miembros de COAR**



Actividades principales



Voz global para la comunidad de repositorios

AUMENTAR EL VALOR Y VISIBILIDAD DE LOS REPOSITORIOS



Promoting Open Knowledge and Open Science Report of the Current State of Repositories

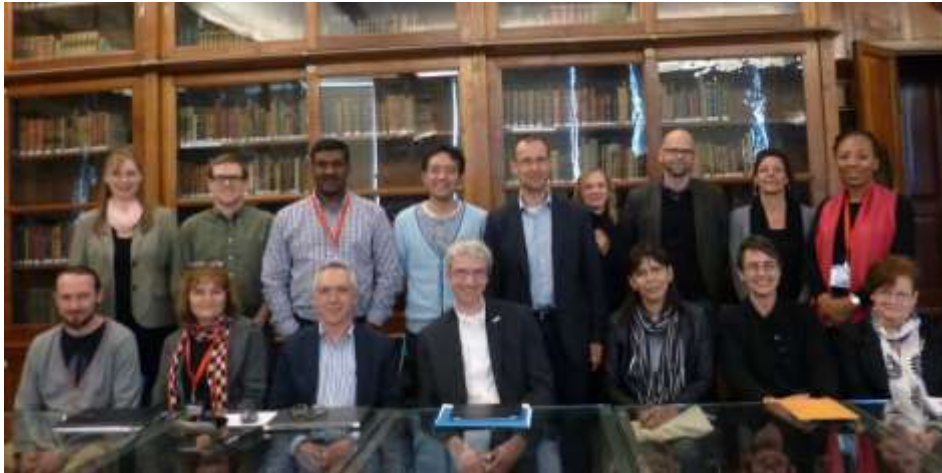
May 21, 2015

Produced by Confederation of Open Access Repositories (COAR) on behalf of
the COAR Aligning Repository Networks Committee



Actividades principales

Alineamiento de Redes de Repositorios



Aligning Repository Networks Meeting, April 16, 2015, Porto, Portugal

Aligning Repository Networks Meeting, March 2014, Rome, Italy



Actividades principales

Tras reunión en Río, LA Referencia, OpenAIRE y COAR reafirman su apoyo a una visión compartida de una red global de repositorios



Río de Janeiro, 25 y 26 de noviembre de 2015

- LA Referencia y OpenAIRE adoptarán prácticas comunes de metadatos basadas en las actuales directrices de OpenAIRE y los vocabularios...
- Bajo el auspicio de COAR, LA Referencia y OpenAIRE investigarán servicios comunes en apoyo al acceso abierto y la ciencia abierta...
- COAR, LA Referencia y OpenAIRE explorarán caminos para desarrollar la capacidad de gestionar repositorios



Mirando hacia el futuro

Trabajando para una

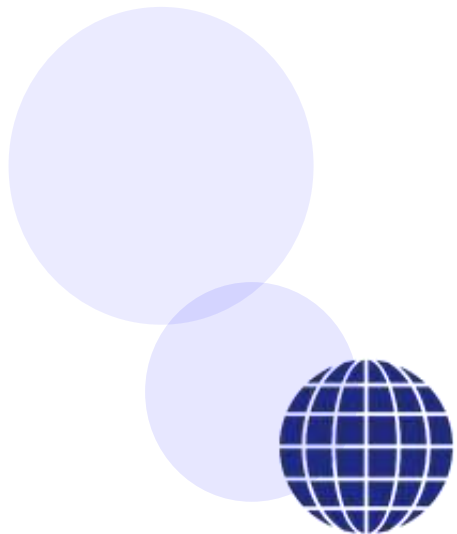
Nueva Generación de Repositorios



Grupo de Trabalho



Eloy Rodrigues, chair (COAR, Portugal)
Andrea Bollini (CINECA, Italy)
Alberto Cabezas (LA Referencia, Chile)
Donatella Castelli (OpenAIRE/CNR, Italy)
Les Carr (Southampton University, UK)
Leslie Chan (University of Toronto at Scarborough, Canada)
Rick Johnson (SHARE/University of Notre Dame, US)
Paolo Manghi (CNR, Italy)
Lazarus Matizirofa (NRF, South Africa)
Pandelis Perakakis (Open Scholar, Spain)
Jochen Schirrwagen (University of Bielefeld, Germany)
Daisy Selematsela (NRF, South Africa)
Kathleen Shearer (COAR, Canada)
Tim Smith (CERN, Switzerland)
Herbert Van de Sompel (Los Alamos National Laboratory, US)
Paul Walk (EDINA, UK)
David Wilcox (Duraspace/Fedora, Canada)
Kazu Yamaji (National Institute of Informatics, Japan)



El problema:

Los repositorios aún no realizaran todo su potencial y funcionan principalmente como recipientes pasivos y aislados de las versiones finales de los resultados de investigación publicados

Los repositorios siguen usando tecnologías y protocolos diseñados 20 años atrás, antes del boom de la Web, de Google, web semántica, redes sociales y dispositivos móviles ubicuos



La Visión

Posicionar los **repositorios** como la **base** para una **infraestructura** de de comunicación académica y científica **distribuida y globalmente interconectada/en red...**



Nueva Generación de Repositorios



Tres ideas centrales

Ser de, y no solamente estar en, La Web

Los usuarios son personas y máquinas

Repositorios pro-activos



Mantengan-se informados

- Visiten el COAR Website: www.coar-repositories.org
- Sigán-nos en Twitter: **#COAR_eV**
- Sigán-nos en Facebook:
<https://www.facebook.com/COAReV>





Notas finais:
Por donde vamos?



Comunicación científica



Universidade do Minho
Serviços de Documentação

- Mirando la bola de cristal...
 - E-science, Open Science, Data intensive science, etc.
 - Acceso Abierto
 - Nuevas formas y modelos:
 - Open Access Monographs
 - Enlace entre publicaciones y datos (Enhanced publications)
 - “Megarevistas” – PLoS ONE, Nature Scientific Reports, eLife
 - Revistas overlay - Episciences.org
 - Nuevas métricas de ciencia y investigación



Vía verde...



- El acceso abierto a través del depósito de publicaciones en repositorios (vía verde):
 - Constituye la mayoría (mas de 70% en la mayoría de las disciplinas) de los contenidos en acceso abierto;
 - Es el requisito básico recomendado para las políticas de Acceso Abierto (BOAI10, etc.)
 - Es el requisito de la mayoría de las políticas de las instituciones de investigación y de los financiadores





O febre del oro?

- A pesar de la predominancia, de hecho, del acceso abierto “verde”, en los últimos tres años la vía dorada, ha ganado el centro de atención...
 - El número de revistas AA (en particular de las revistas que cobran tasas de publicación – APCs - entre las cuales un número significativo de revistas “predatorias”) aumentó considerablemente
 - Algunos investigadores confunden AA con revistas de AA y pagamiento de APCs...





Consideraciones finales

Cuestión en abierto:

- La transición para el Acceso Abierto se hará de acuerdo con los intereses
 - De las instituciones académicas y científicas y de los investigadores (maximizar el acceso y las potencialidades tecnológicas, promoviendo la eficiencia y el control de los costes)?
 - O de la industria de publicación (mantenimiento de los niveles de recetas de ingresos y ganancias)?





Consideraciones finales

- Para garantizar una transición eficiente (maximizando los beneficios y minimizando los costes) para el acceso abierto las instituciones y los investigadores necesitan de **(re)asumir la responsabilidad y el control** de los resultados de sus investigaciones.





MUCHAS GRACIAS!

