



Open Access: gestern – heute - morgen

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Max Planck Digital Library

[sic!] Jülich – Helmholtz Open Science Workshop 2014
Forschungszentrum Jülich, 29. September 2014



MAX PLANCK
digital library

Übersicht

Open Access: gestern – heute - morgen

1. Anfänge und Durchbruch von Open Access
 - Erzählstränge
 - Meilensteine & Deklarationen
2. Markante Entwicklungen in den letzten 10 Jahren
 - Ein Blick auf die verschiedenen Akteure & Jurisdiktionen
3. Zwischenbilanz (“heute”)
 - 10 Jahre Berliner Erklärung
 - Zahlen & Fakten
4. Ausblick (“morgen”)
 - Anstehende Herausforderungen

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Erzählstränge am Anfang von Open Access

- a) Die Zeitschriftenkrise – die berechtigte Klage der Bibliotheken
- b) Die Übertragung des Urheberrechts – die kritische Frage der Wissenschaftler
- c) Die Versprechen von Internet und Digitalisierung – die neuen Visionen

Der Durchbruch von Open Access: Meilensteine & Deklarationen

a) Budapest (Februar 2002)

- Kleiner Kreis von nur 16 Personen
- Skizzierung des grünen und goldenen Weges
- Betonung von Zugang sowie Beschränkung auf „peer-reviewed literature“

b) Bethesda (Juni 2003)

- Kleine Gruppe Lebenswissenschaften; eher intern rein U.S.;
- Erweiterung Perspektive auf Nachnutzung („to make and distribute derivative works“)

c) Berlin (Oktober 2003)

- Bewusst vorbereitet als große internationale Tagung mit maximaler Öffentlichkeitswirkung (ca. 300 Teilnehmer; viele Vorträge)
- Zugang & Nachnutzung & Erweiterung Humanities (cultural heritage)
- Betont wird das Prinzip des Internet („full exploitation of the internet“)
- Von vorherein angelegt als Prozess mit (jährlichen) Folgekonferenzen
- Ausbau des grünen und goldenen Weges

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Open Access in Germany

Many green and gold Open Access activities are being organized, with policy and funding support from the German Research Foundation; recently more pronounced leaning towards Gold OA publishing; no major role of German government so far.

OA Working Group of German Science Org.

Key actor in Germany

Priority Initiative “Digital Information” of Alliance of German Science Org. (phase 1)

Core activities: Open Access, Licensing, Ntl. Hosting, Research Data, VRE, Legal Issues

Priority Initiative “Digital Information” (phase 2)

Additional core activity: Focus group on Gold OA

Funding program of the German Research Foundation

To help German universities to establish an OA Gold publication budget (25+ universities funded so far)

2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Oct

Berlin Declaration
on Open Access
introduced by Max
Planck Society
(currently 472 signatories from around the world;
annual follow-up conferences on all continents)

Nov

10th Anniversary Conference
of the Berlin Declaration with
new mission statement



Open Access in the European Union

The FP7 framework (2007-2013) collected evidence and created an observatory on Open Access; the new funding program Horizon 2020 (2014-2020) is establishing a firm OA mandate for all EU funded research; the member states are called upon to develop similar directives.

FP7

Horizon 2020

Open Access Pilot

Pilot action based on best effort self-archiving (green road); applied to 7 areas with allowing 6/12-month embargo; infrastructure via *OpenAIRE* (OA Infrastr. for Res. in Europe)

PEER (Publishing and the Ecology of European Research)

Study on the effects of self-archiving on the usage and viability of journals (green road)

Open Access Mandate

Obligation to provide OA; all areas, allowed embargos 6/12 months; in addition: pilot for research data

SOAP (Study of OA Publishing)

Study on the market and business models of Open Access journals and on the attitudes of researchers (gold road)

2008

2009

2010

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

Jul

Communication :

„Towards better access to scientific information:
Boosting the benefits of public investments in research“

Open Access in the UK



Key elements of the Open Access debate in England are the Open Access Mandate of the Wellcome Trust since 2006, the policy statements of the Research Councils UK and the Finch Report published in June 2012.

Open Access Mandate for Wellcome Trust funded papers

**RCUK & universities:
implementing the Finch
recommendations**

JISC APC Pilot

One-year project
to explore the
handling of large-
scale publication
cost payments

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

Jun

Jul

Finch Report

Addressing the question of how to expand access to research publications in the UK: publications costs shall be covered for research results to be published gold or hybrid

Support expressed by British Government and Research Councils UK to all the conclusions in the report; appropriation of funding

Science Europe on Open Access

Founded in 2011, Science Europe is an association of European Research Funding Organizations (RFO) and Research Performing Organizations (RPO), based in Brussels. As successor to the former European Heads of Research Councils (EUROHORCs), Science Europe is one of the most pronounced supporter of Open Access and wants it to become the "standard mode of publication."

"The aim is a system of scientific publications in which free access to all (published) scientific information is guaranteed. This involves a move toward Full Open Access. Ultimately, this means replacing the present reader-paid publication system with an author- or institution-paid one."

Next to the Berlin Declaration, this is one of the most ambitious Open Access policy statements

Establishment of OA Working Group

Lead by Max Planck Society

2008

2009

2010

2011

2012

2013

2014

“EUROHORCs and ESF Vision on a Globally Competitive ERA and their Road Map for Actions”

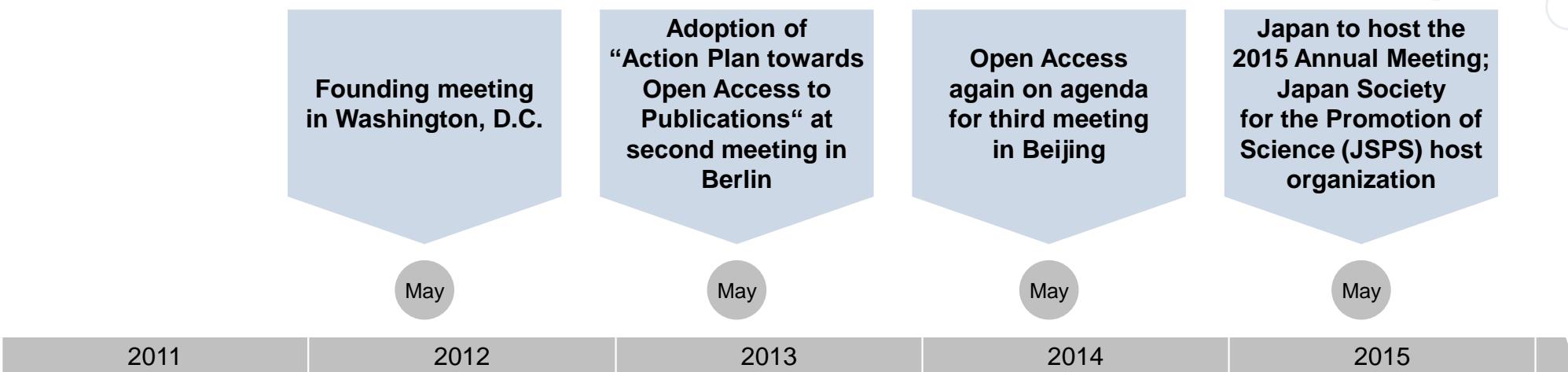
Oct
Science Europe founded; Open Access Working Group to be continued

Apr
Science Europe position paper “Principles for the Transition to Open Access to Research Publications”

Oct
Publication of “Science Europe Roadmap”

Global Research Council

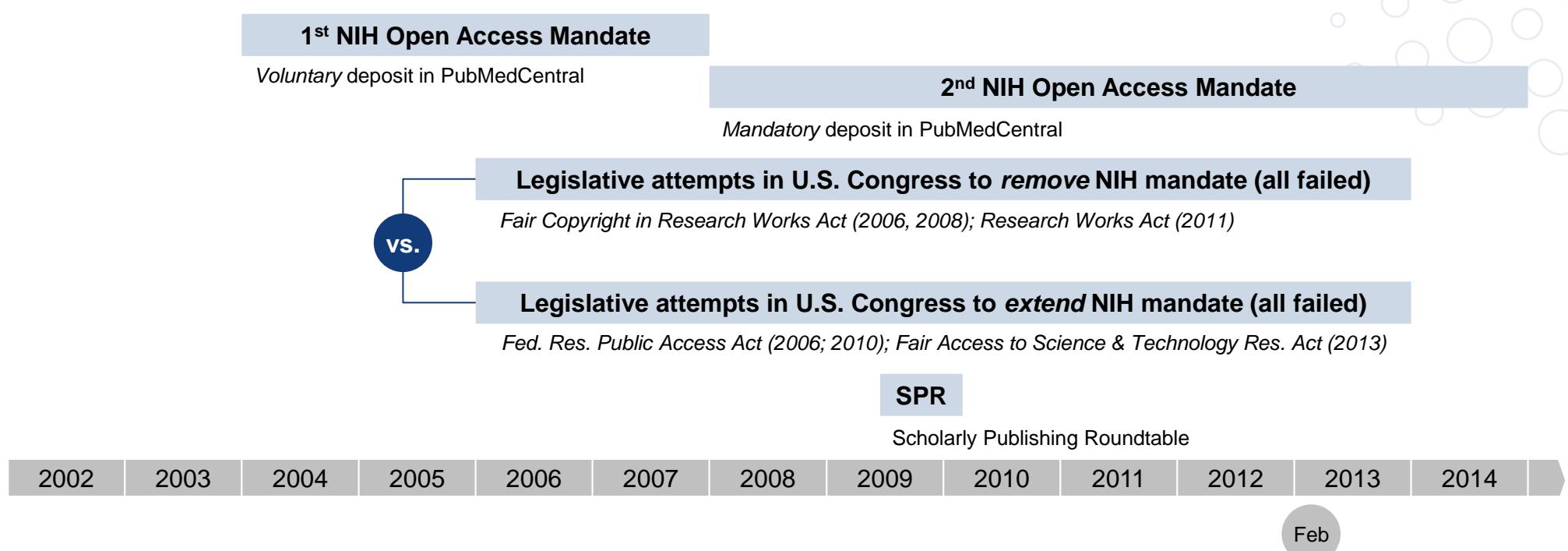
Convening for the first time in 2012, the Global Research Council has immediately adopted Open Access as one of its key areas of activity and adopted an action plan for its members in 2013.





Open Access in the USA

The debate in the U.S. is focusing on the green way to Open Access; the key instrument has been the National Institute of Health (NIH) mandates with the deposit request for PubMed Central; in February 2013 the White House has issued a new directive with still open results.



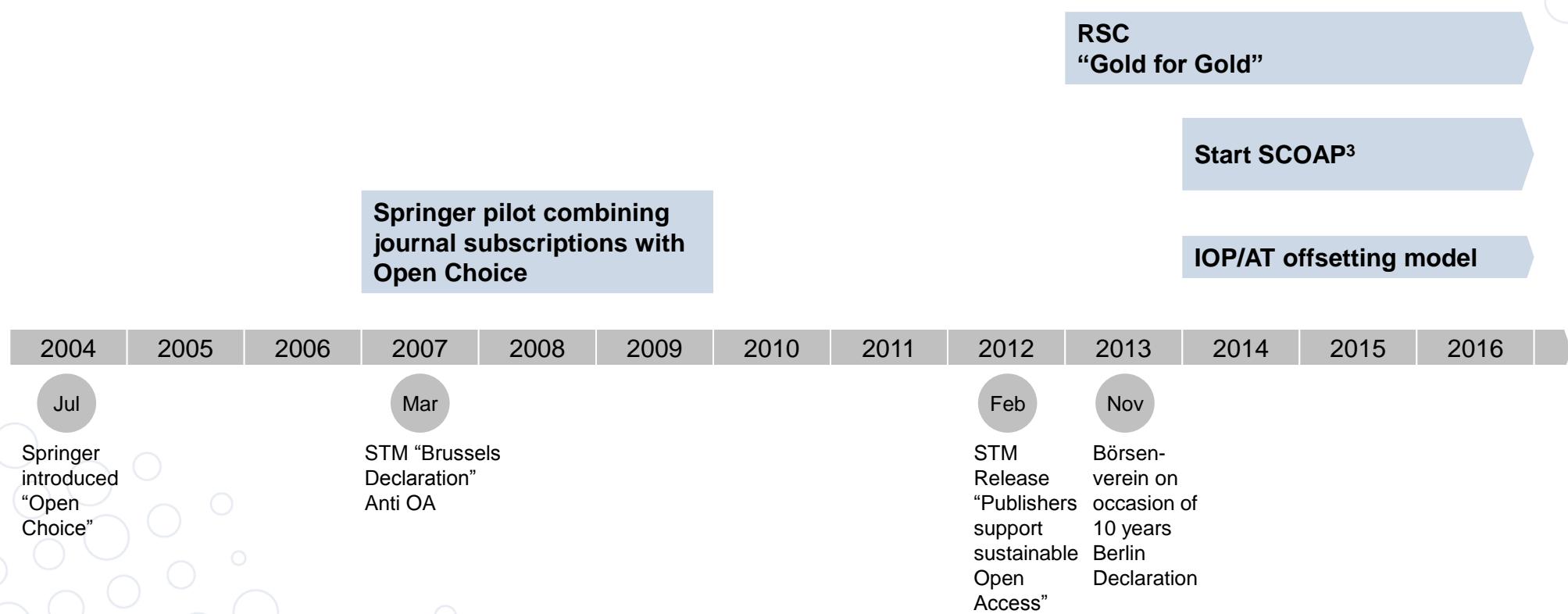
Reactions

- a) NIH proposes to expand PubMed Central ("PubFed Central")
 - b) Universities propose SHARE: Scale up the existing institutional repositories to contain all research articles based on federal funding.
 - c) Publishers initiative CHORUS (Clearinghouse for the Open Research of the US): portal to journal articles resulting from agency funding
- Decision from White House still pending

White House Office of Science and Technology Policy:
directive to federal agencies to develop public access plans within six months

The Publishers

The publishers have come a long way in the Open Access debate and in their action. While there was strong resentment in the early years, most publishers now have their own line of Open Access journals. For many publishers, OA is now regarded as a viable business model.



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10 Jahre Berliner Erklärung („Berlin 11“, November 2013)

Mission Statement (http://openaccess.mpg.de/mission-statement_en)

“In the ten years since, the signatories of the Berlin Declaration and many other organisations have fostered a remarkable growth of OA ... But still only about

10% of peer-reviewed articles are published in OA journals.

We believe that the most important goal for the coming years is to **ensure that 90% of the scholarly research literature is published with an OA model**, in order to exploit the innovative and transformational potential of OA.

It is of paramount importance that this transition to OA must preserve or even improve on the quality standards of the present subscription-based model.

... We therefore urge research organisations to work together internationally and intensively to formulate a viable, coordinated and transparent strategy to enable a transition to a system where OA publishing is the norm. **This strategy should address the following key issues:**

a. Standards, b. Quality, c. Stability, d. Transition

... create coordinated and transparent policies and reward systems that **enable a smooth transition of the scholarly research literature according to an agreed roadmap**, from its present domination by subscription-based journals to the OA model outlined above. Such policies should include, for example, **progressive conversion of subscription funds into OA publishing funds** and enhanced recognition for OA publications.

“**It is time to return control of scholarly publishing to the scholars.**”

**Laakso M, Welling P, Bukvova H, Nyman L, Björk B-C, et al.
(2011) The Development of Open Access Journal Publishing
from 1993 to 2009. PLoS ONE 6(6): e20961.**

- Since the year 2000, the average annual growth rate has been 18% for the number of journals and 30% for the number of articles.
- In 2009 the share of articles in OA journals, of all peer reviewed journal articles, reached 7,7%.
- Overall, the results document a rapid growth in OA journal publishing over the last fifteen years.
- Based on the sampling results and qualitative data a division into three distinct periods is suggested: The Pioneering years (1993–1999), the Innovation years (2000–2004), and the Consolidation years (2005–2009).

Open Access- eine disruptive Innovation?

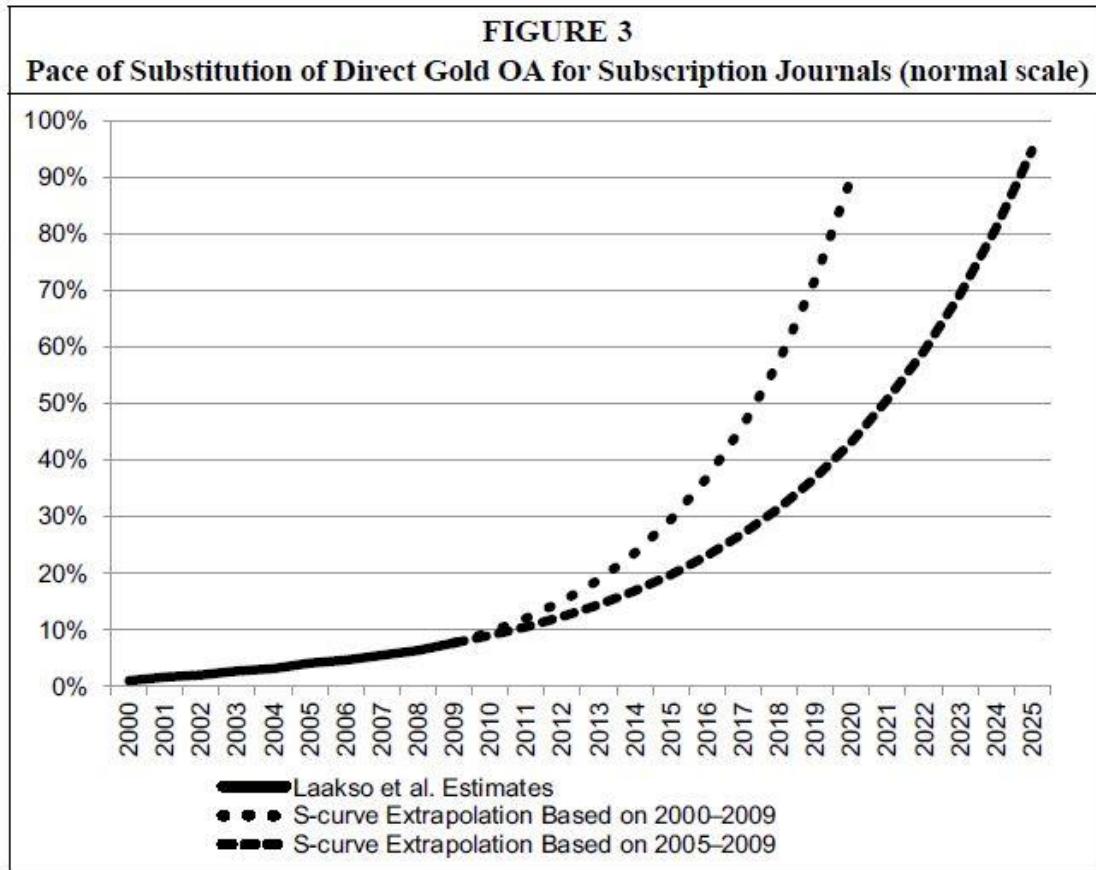


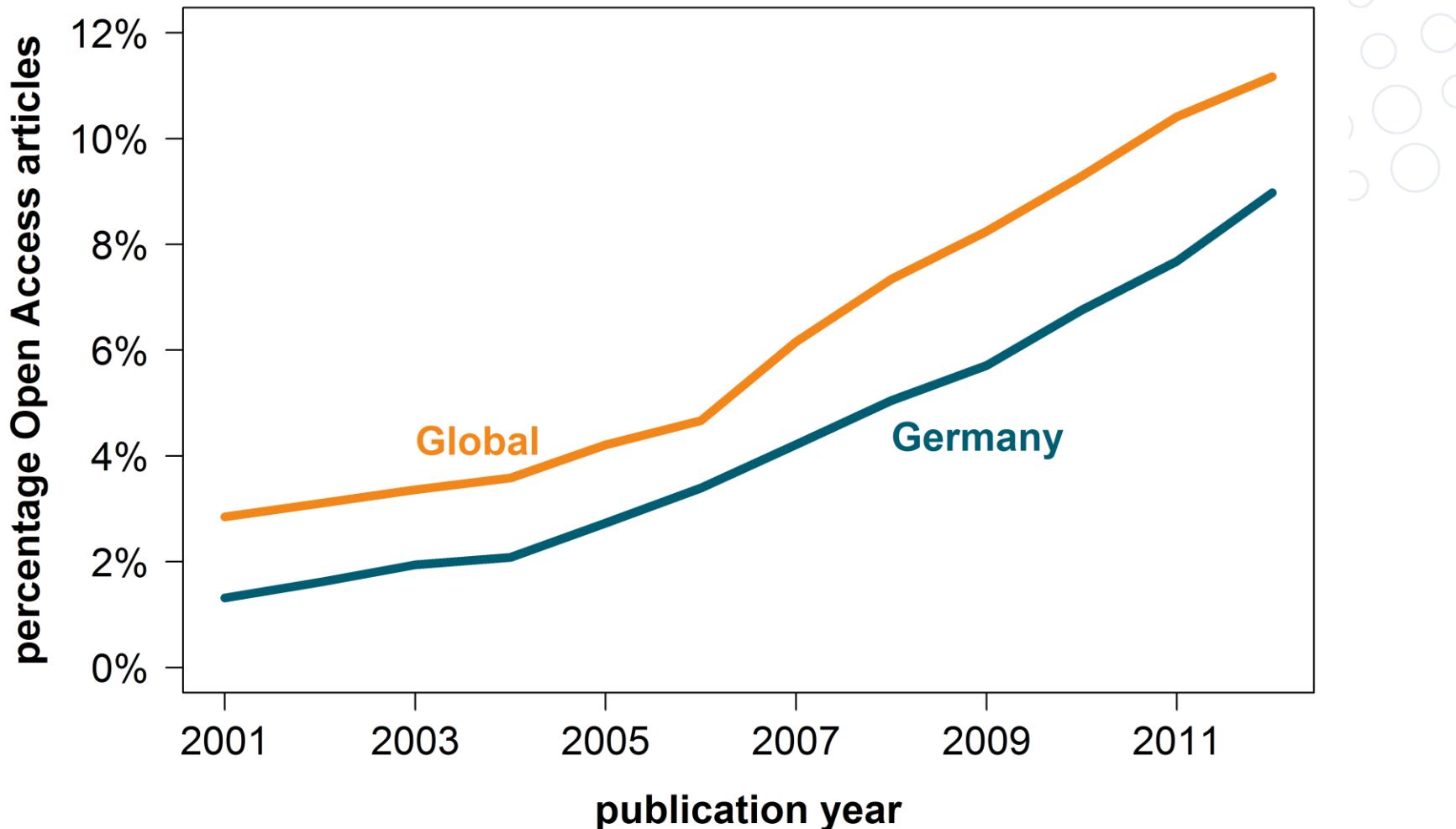
TABLE 1
Pace of Substitution of Direct Gold OA
for Subscription Journals

	Laakso et al. Estimate	Extrapolation Based of 2000–2009	Extrapolation Based of 2005–2009
2000	1.0%		
2001	1.7%		
2002	2.0%		
2003	2.7%		
2004	3.1%		
2005	4.1%		
2006	4.7%		
2007	5.5%		
2008	6.4%		
2009	7.7%		
2010		9.6%	9.0%
2011		12.1%	10.5%
2012		15.1%	12.3%
2013		18.8%	14.4%
2014		23.6%	16.9%
2015		29.4%	19.7%
2016		36.8%	23.1%
2017		46.0%	27.0%
2018		57.5%	31.6%
2019		72.0%	36.9%
2020		89.9%	43.2%
2021			50.7%
2022			59.2%
2023			69.2%
2024			80.9%
2025			94.6%

Lewis, David W. „The Inevitability of Open Access“. *College & Research Libraries* 73, Nr. 5 (9. Januar 2012): 493–506.

Open Access Gold

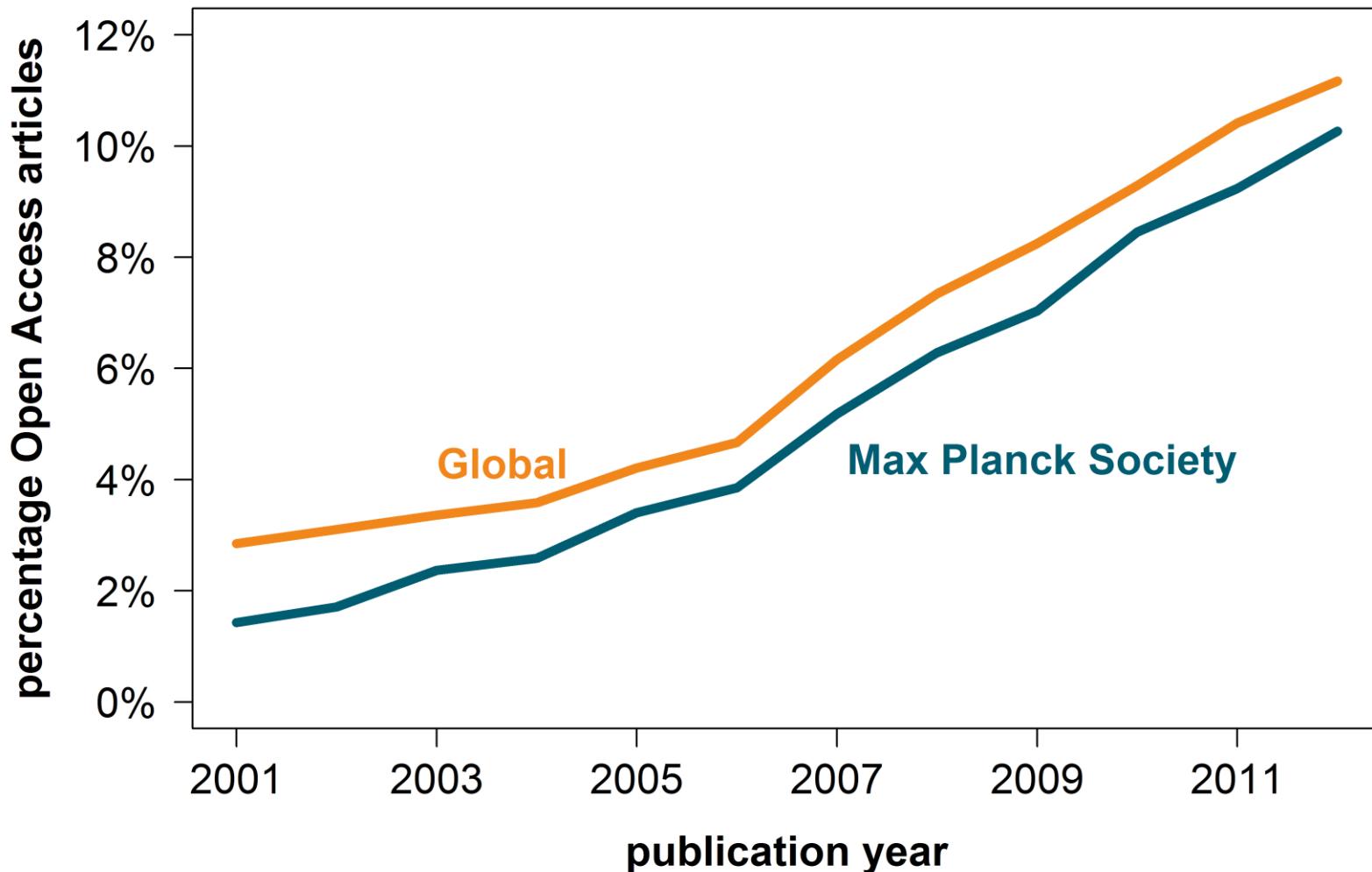
share in Web of Science articles and reviews



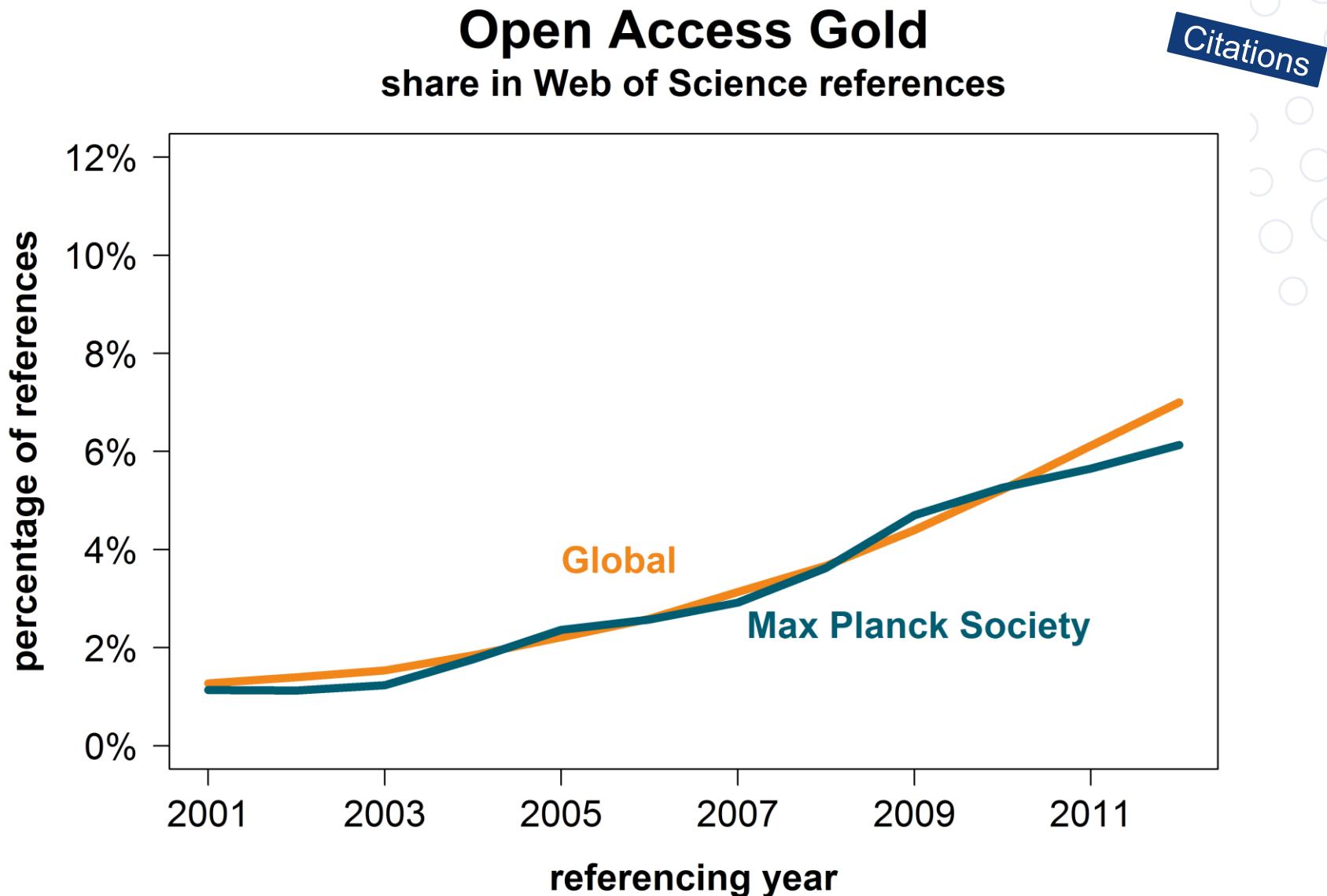
Open Access Gold

share in Web of Science articles and reviews

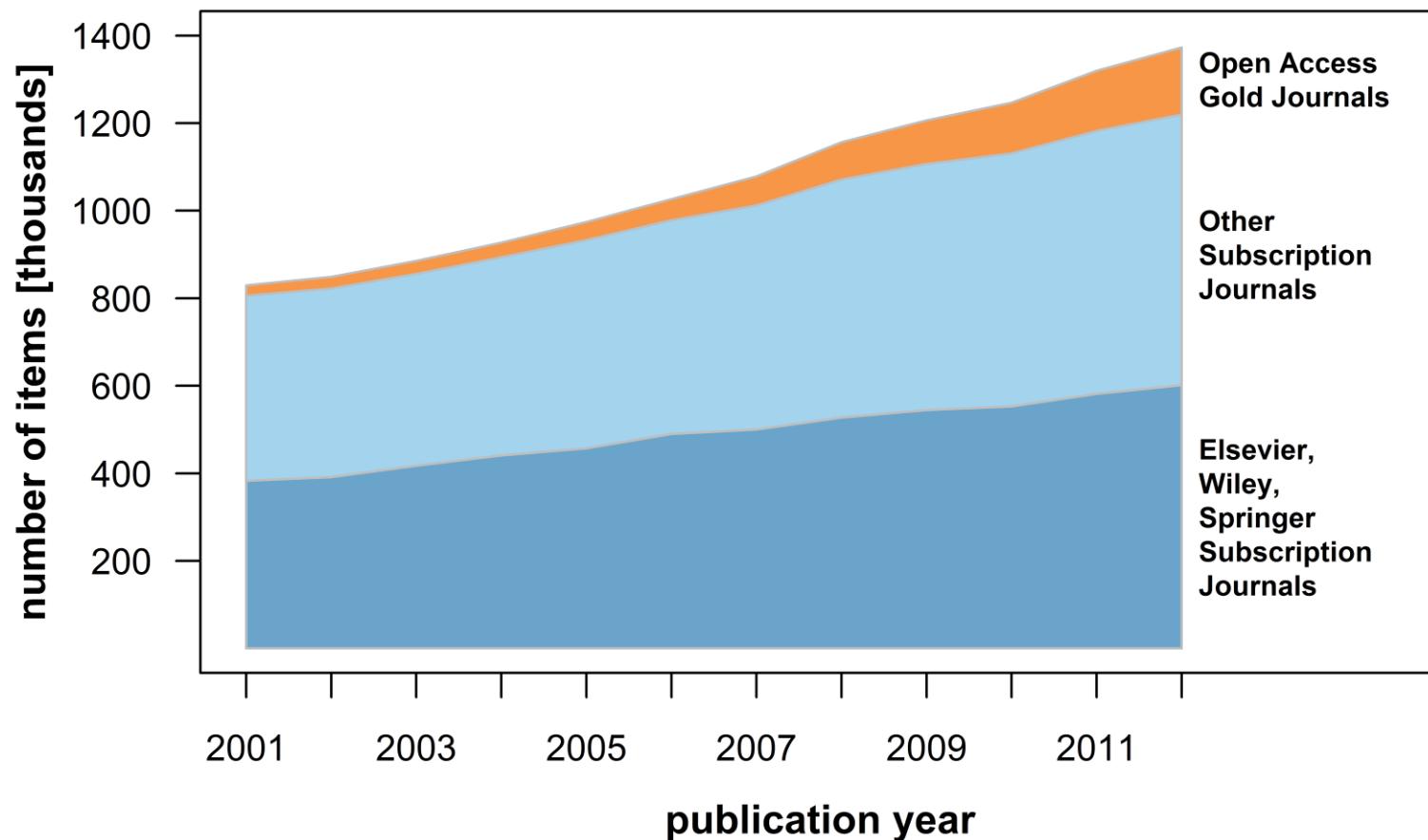
Publications



When we analyze the citation pattern of OA publications (based on a 3-year window), the Max Planck Society is even closer to the global trend line..



development of publication shares number of articles and reviews in Web of Science

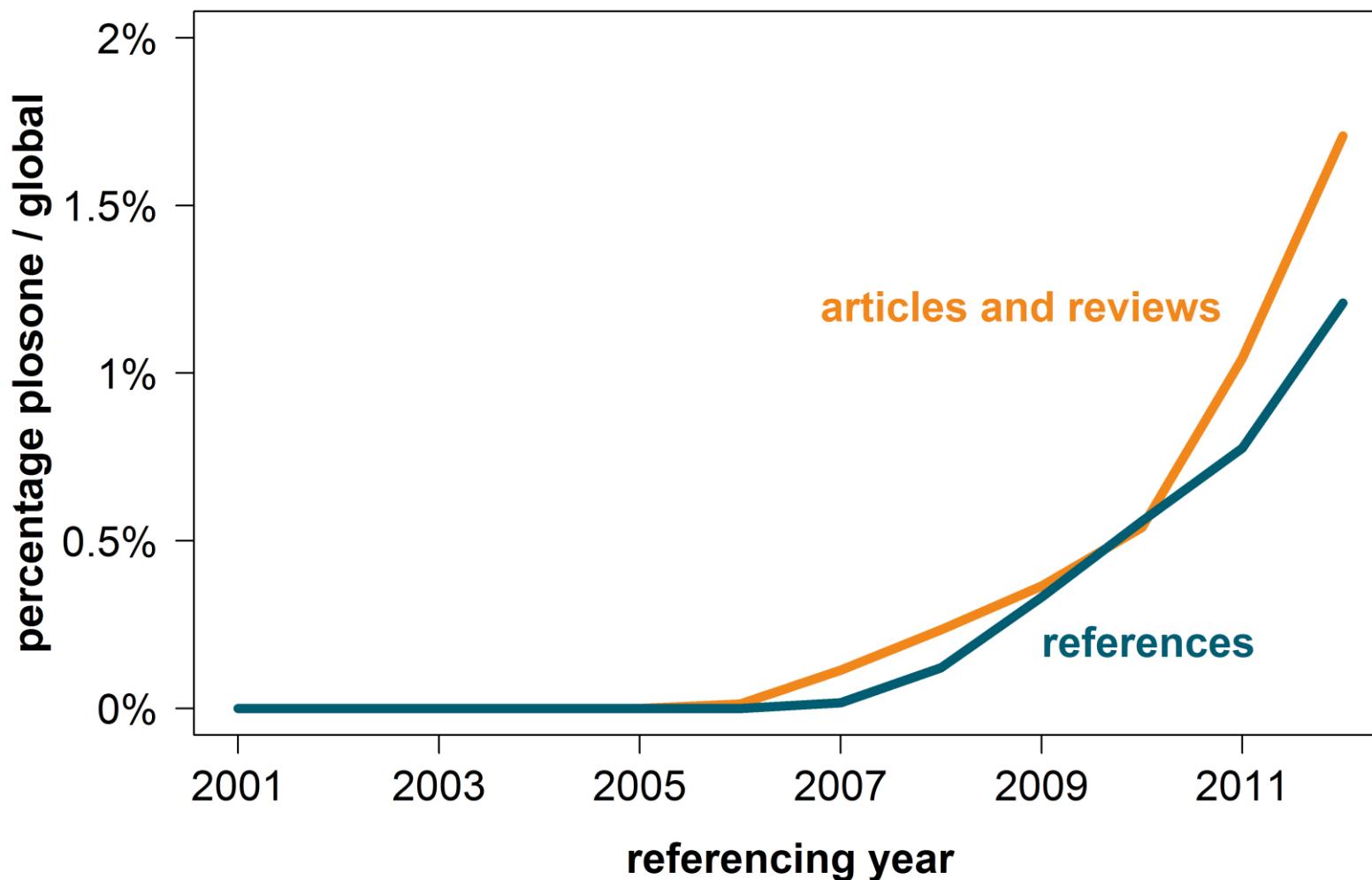


Publications

Open Access as most dynamic growth area; more than doubling in last years

PLoS ONE

share in Web of Science



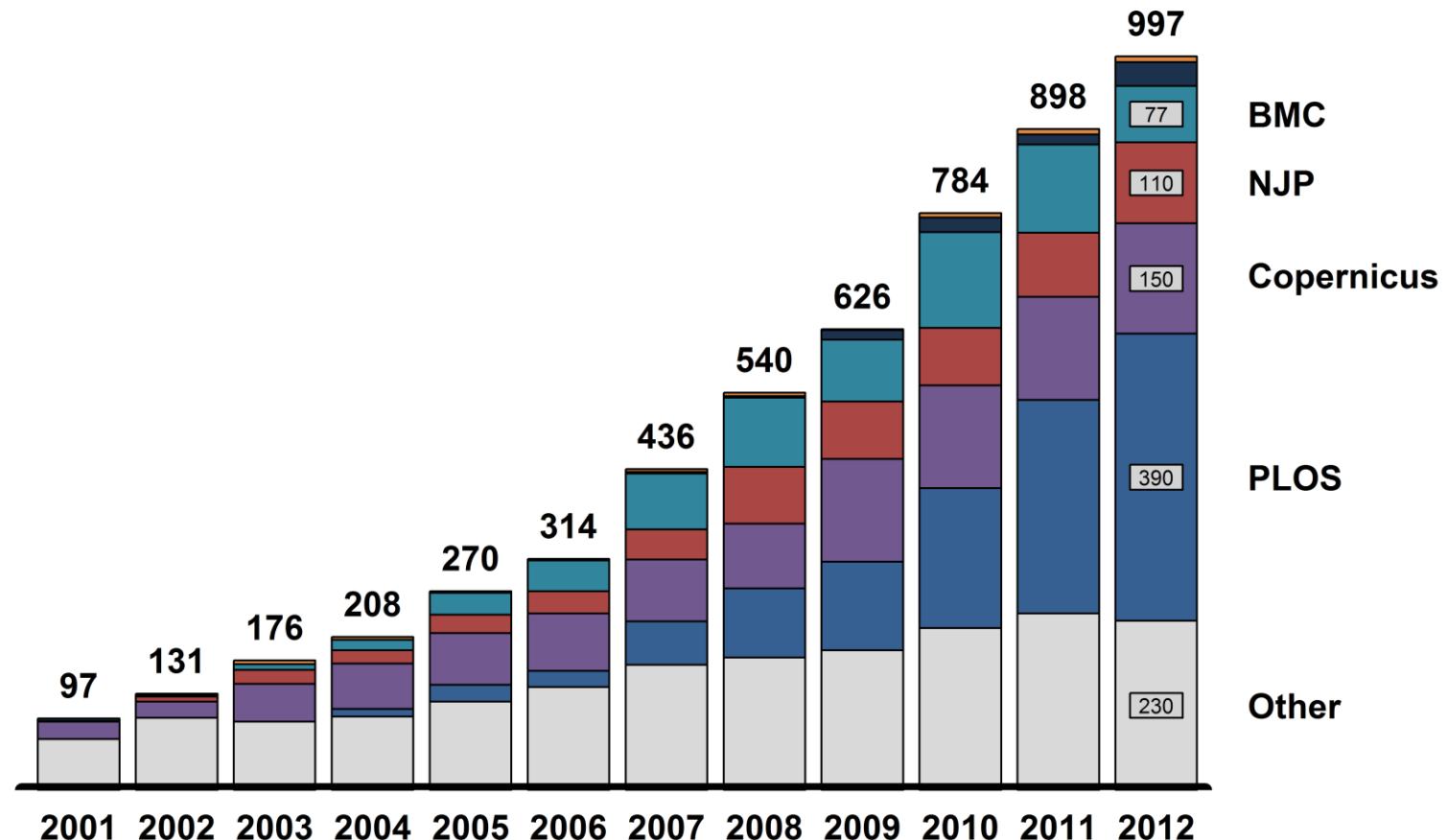
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MPG Published Articles - Open Access Gold

annual number of articles and reviews as indexed in Web of Science

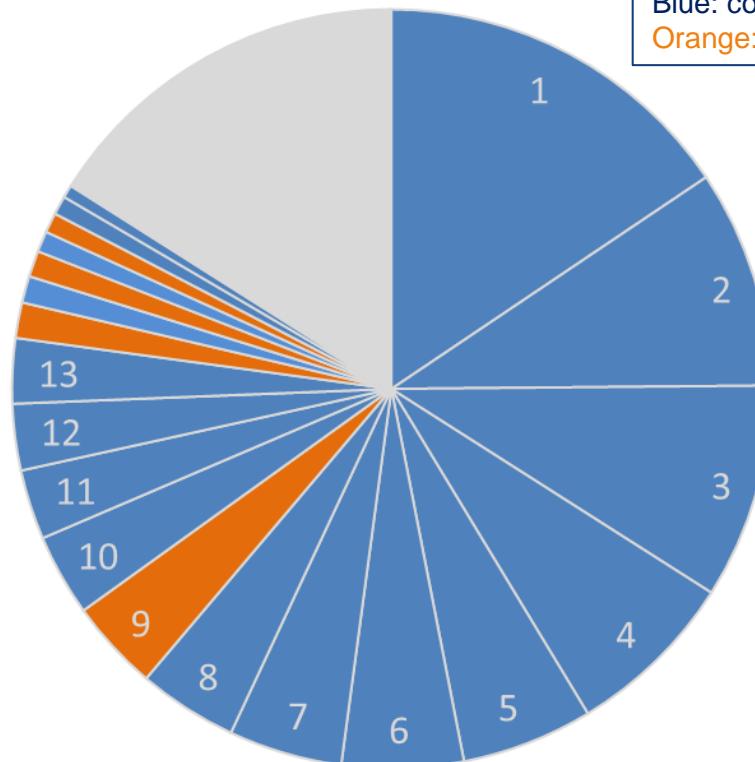


The share of articles where MPG is bearing the costs is consistently in the range of 50-60% of articles across publishers. In the years 2009-2012, the average APC costs were in the range of 1,100 EUR per article.

Source: MPDL analysis

MPG publications by provider / OA Gold articles and reviews in Web of Science 2012

The 20 key providers of the Max Planck Society make up 85% of the article output; 4 of them are already OA publishers.



Note:

Blue: commercial & society publisher
Orange: OA publisher

Source: MPDL analysis by Margit Palzenberger

SCOAP³ – Sponsoring Consortium for Open Access Publishing in Particle Physics

Sponsoring Consortium for Open Access Publishing in Particle Physics



Welcome [About SCOAP³](#) [Who is SCOAP³](#) [SCOAP³ Journals](#) [News](#) [SCOAP³ Repository](#) [Contact](#)

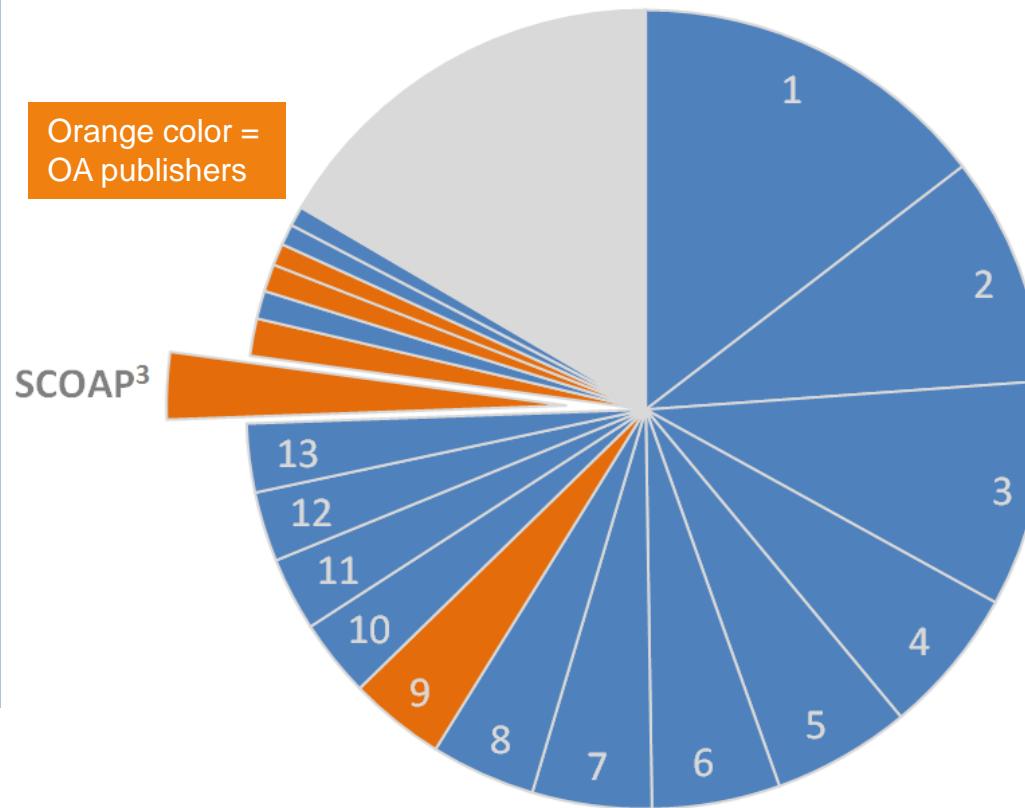
in operation since 1 January 2014

SCOAP³ as a groundbreaking OA conversion model

- Successful conversion of existing high-energy physics (HEP) journals from their previous subscription-based model to full open access, e.g.
 - Springer: *Journal of High-Energy Physics*; *European Physical Journal C*
 - Elsevier: *Nuclear Physics B*; *Physics Letters B*
- The services of publishers are fully acknowledged
 - Quality assurance in the publication process (peer review and editorial services)
 - Provision of the final published versions
- Payment streams to be re-directed from subscriptions to cover the publishing costs
 - Using the money that is already in the system
- Enormous effort and success of the library community worldwide
 - Libraries are key organizers of OA services and funding

MPG publications by provider / OA Gold articles and reviews in Web of Science 2012

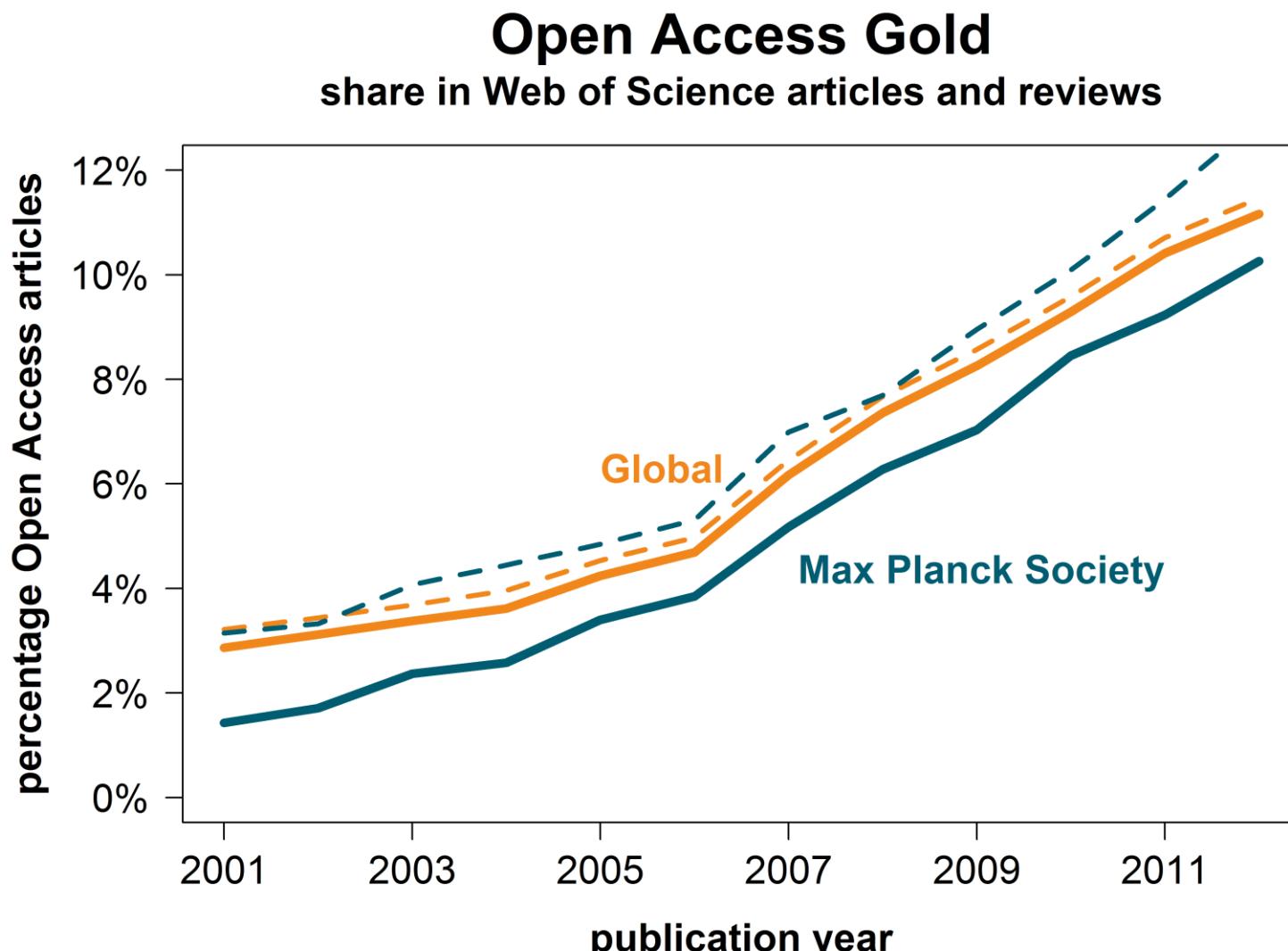
- This chart is re-calculating the MPG publishing output in 2012 by re-grouping SCOAP³ content
- The relevance of SCOAP³ can clearly be demonstrated
- Considered as a publisher in its own right, SCOAP³ would immediately rank among our top 15 providers



Source: MPDL analysis by Margit Palzenberger (pretending that SCOAP³ content was already Open Access in 2012)

Calculating the effects of SCOAP³: article output

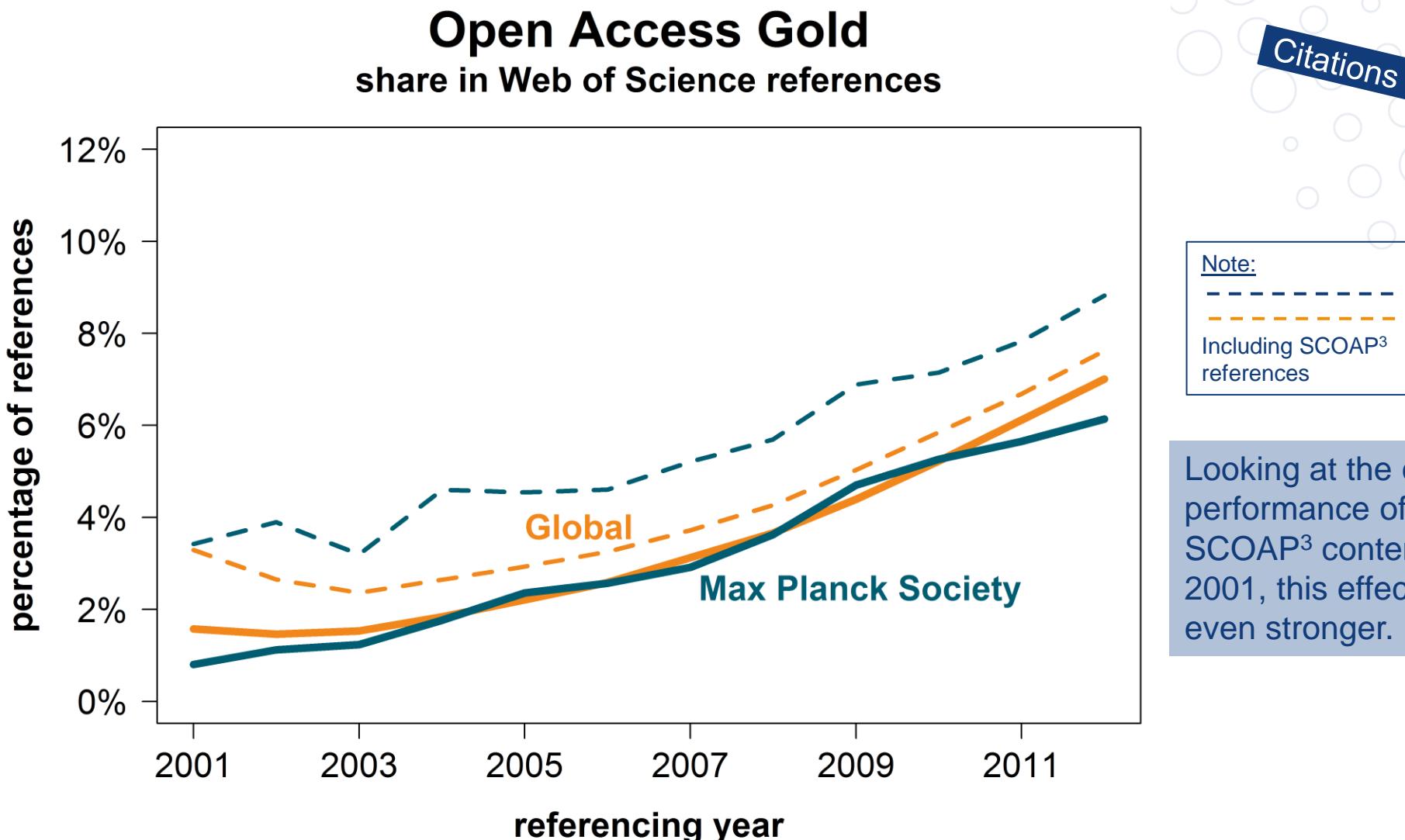
Publications



Note:
— Global
- - - Including SCOAP³ articles

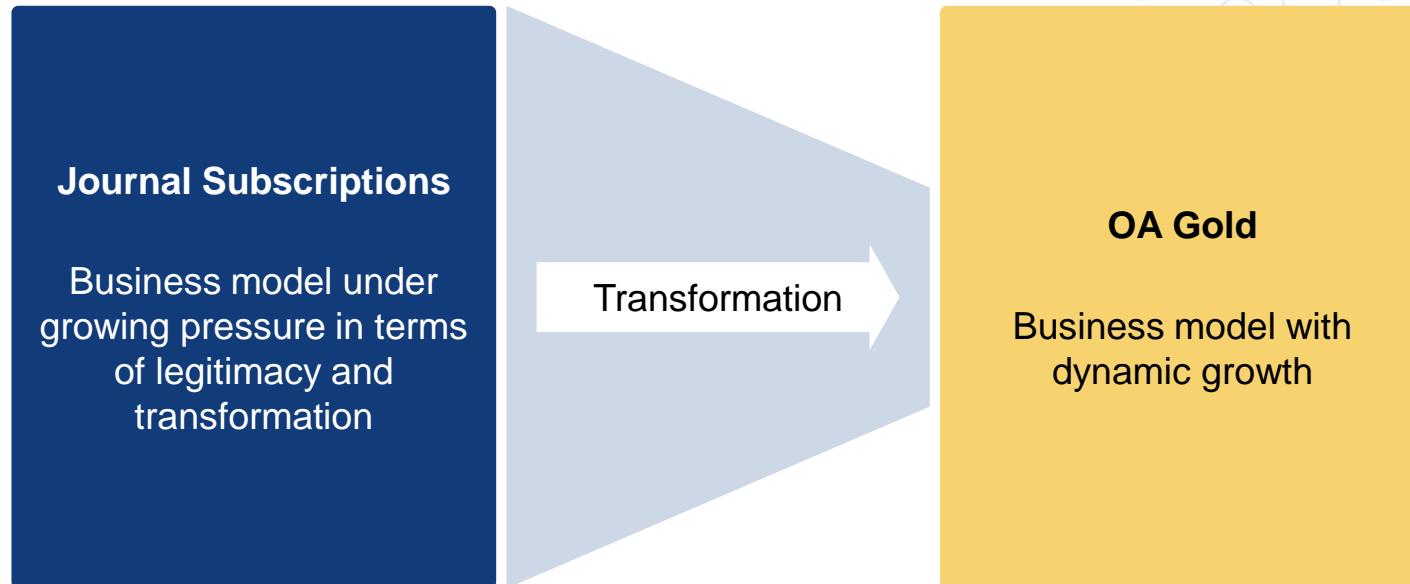
Looking at the performance of SCOAP³ content since 2001, this would put us above the global trend line in OA publishing.

Calculating the effects of SCOAP³: references in MPG publications



Source: MPDL analysis by Margit Palzenberger (pretending that SCOAP³ content was already Open Access since 2001)

The current existence of two realities with growing pressures toward OA



At the moment two distinct spheres of activity and funding but with growing pressures:

- transformation
- re-organization
- re-design of financial flows

Providing new context –
for research institutions,
publishers & libraries

Ziel:
Open Access-Transformation



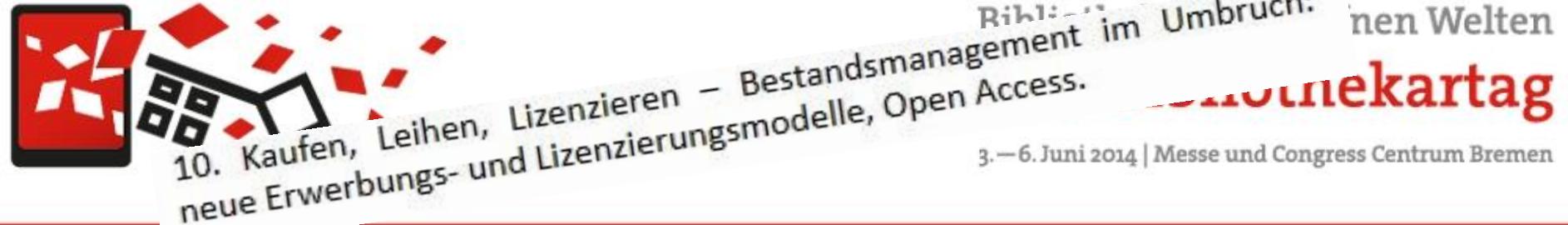
Peter Gruss

„Open Access ist nicht zu stoppen“

MaxPlanckForschung 3/2013

„Das Geld aus den bestehenden Abonnementbudgets muss überführt werden in Publikationsetats, aus denen dann die Veröffentlichungen der Autoren via Open Access finanziert werden.“

Strategie: Verzahnung von Open Access und Lizenzen



10. Kaufen, Leihen, Lizenzieren – Bestandsmanagement im Umbruch:
neue Erwerbungs- und Lizenzierungsmodelle, Open Access.

Ribli...
nen Welten

www.kartag

3.–6. Juni 2014 | Messe und Congress Centrum Bremen



IFLA World Library and Information Congress

80th IFLA General Conference and Assembly

16-22 August 2014, Lyon, France

News

About the Congress

Programme

Registration

Exhibition and Sponsorship

Travel, Accommodation & Tours

Call for Papers

Acquisition and Collection Development Section

“

Theme:

Open Access converging on Collection Development

Stehen wir an einer nächsten Schwelle? Wo kommt die nächste Beschleunigung her?

- Wir sehen viel Wachstum und Entwicklung...
- ...aber zugleich blieben die herrschenden Verhältnisse erstaunlich intakt.
- Vieles geht in die richtige Richtung
 - SCOAP3
 - RSC „Gold for Gold“
 - Offsetting Experimente
- ...doch die mächtigen Durchbrüche fehlen noch
- Viele Verlage, aber auch viele Bibliotheken betreiben noch “business as usual”
- Die Transformation kommt nicht von alleine, sondern muss durch viele kleinere und größere Maßnahmen herbeigeführt werden

Vielen Dank für die Aufmerksamkeit!

Dr Ralf Schimmer

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