



## The OA2020 Roadmap to Open Access

**3rd SPARC Japan Seminar 2018** 9 November 2018 – National Institute of Informatics

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## The promise of open access



# Paywalls continue to hinder research and slow the advancement of science





## We cannot afford to continue subscriptions



Expenditure Trends in ARL Libraries, 1986-2015



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OF RESEARCH

## The open access dilemma

Open Access is (exceptionally) strong as a principle

- cf. the many resolutions, policies, guidelines etc.

...but still fairly weak as a practice

- very low deposit rate in IRs
- only 15% of research is immediately OA
- subscription system as prosperous as ever

## **Economic grounding for transformation**



## Significance of growth in OA publishing

Publisher	Journal	#Papers 2016
PLOS	PLOS ONE	22091
NPG	Scientific Reports	20546
RSC	RSC Advances (OA as of 2017)	13274
Impact	OncoTarget	6625
APS	Physical Review B: Condensed Matter and Materials Physics	5345
ACS	ACS Applied Materials and Interfaces	4057
NPG	Nature Communications	3537
RSC	Physical Chemistry, Chemical Physics	3503
APS	Physical Review D: Particles, Fields, Gravitation, and Cosmology	3390
Elsevier	Medicine	3275
Elsevier	Journal of Alloys and Compounds	3243
ACS	The Journal of Physical Chemistry C: Nanomaterials and Interfaces	3241
OUP	Monthly Notices of the Royal Astronomical Society	3208
NAS	Proceedings of the National Academy of Sciences of the USA	3183
AIP	Applied Physics Letters	3047
e-Century	International Journal of Clinical and Experimental Medicine	3005
RSC	Chemical Communications	2967
OSA	Optics Express	2903
AAS	The Astrophysical Journal	2812
Desalination	Desalination and Water Treatment	2762

20 largest journals, based on number of papers published in 2016. OA highlighted in grey. MPDL analysis based on data from *Web of Science*.



## That is a good thing, but...

OA publishing constitutes an **unmonitored and unchecked parallel revenue stream** for subscription publishers



## **Risks of uncontrolled APCs**

APC vs. SNIP for Publishers by Fully OA/Hybrid:

All publishers (2017-2018)



# To transform the system, both revenue streams must be reined in and...



# Spending must shift *away* from paywalls *toward* open access publishing services

Subscription system

**Open Access** 





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# A global strategy for large-scale transformation





## 20 countries account for 80% of global research output

Countries at B13	y2015RP	Share	Cumulative	
Total	1,468,689	100%		
United States China Great Britain Germany	297,093 250,375 69,613 68,952	20.2% 17.0% 4.7% 4.7%	20.2% 37.2% 41.9% 46.6%	
Japan	60,448	4.1%	50.7%	
South Korea Italy France Canada Australia Spain Brazil Russian Federation Netherlands Poland Switzerland Sweden Belgium Denmark	47,900 45,835 44,573 43,264 39,293 39,169 32,968 25,729 23,377 20,524 15,150 15,069 12,126 10,139	3.3% 3.1% 3.0% 2.9% 2.7% 2.7% 2.2% 1.8% 1.6% 1.6% 1.4% 1.0% 1.0% 0.8% 0.7%	54.0% 57.1% 60.1% 63.0% 65.7% 68.4% 70.6% 72.4% 74.0% 75.4% 76.4% 77.4% 78.2% 78.9%	Corr outp base data 13 <sup>th</sup> Acc
Austria	8,144	0.6%	79.5%	oper 2020

Corresponding author output by country based on 2015 WoS data presented at the 13<sup>th</sup> Berlin Open **Access Conference** 

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# The tipping point can be reached with as few as 100 institutions

# of institutions	Firm support	Median	Cumulative
United States	10-20	15	15
China	8-12	10	25
Great Britain	6-8	7	32
Germany	6-8	7	39
Japan	5-7	6	45
South Korea	4-6	5	50
Italy	4-6	5	55
France	4-6	5	60
Canada	4-6	5	65
Australia	4-6	5	70
Spain	4-6	5	75
Brazil	3-5	4	79
Russian Federation	3-5	4	83
Netherlands	2-4	3	86
Poland	2-4	3	89
Switzerland	1-3	2	91
Sweden	1-3	2	93
Belgium	1-3	2	95
Denmark	1-3	2	97
Austria	1-3	2	99

Corresponding author output by country based on 2015 WoS data presented at the 13<sup>th</sup> Berlin Open Access Conference

open access 2 0 2 0

## The OA2020 initiative



## OA2020 meets publishers at eye level



## **OA2020 delivers open access to authors**

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

UNIVERSITY COMMITTEE ON LIBRARY AND SCHOLARLY COMMUNICATION Assembly of the Academic Senate, University of California

Declaration of Rights and Principles to Transform Scholarly Communications

Championing Change in Journal Negotiations

Negotiating Journal Agreements at UC: A Call to Action

https://osc.universityofcalifornia.edu/2018/06/championingchange-in-journal-negotiations/



SANTA BARBARA • SANTA CRUZ

open acces

2020

UNIVERSITY OF CALIFORNIA

Assembly of the Academic Senate. University of California

UNIVERSITY COMMITTEE ON LIBRARY AND SCHOLARLY COMMUNICATION

TA BARBARA + SANTA CREZ

13 April 2018

DECLARATION OF RIGHTS AND PRINCIPLES TO TRANSFORM SCHOLARLY COMMUNICATION To align our institutional policies and practices toward the goal of replacing subscription-based publishing with open access (OA), we propose that the University of California assert the following rights and principles when negotiating with publishers during journal license renewals:

- No copyright transfers. Our authors shall be allowed to retain copyright in their work and grant a Creative Commons Attribution license of their choosing.
- No restrictions on preprints. Our authors shall have the right to submit for publication work they have previously made available as preprints.
- No waivers of OA Policy. Publishers shall not require our authors to provide waivers of our Institutional OA Policy as a condition for publishing our work.
- No delays to sharing. Publishers shall make work by our authors immediately available for harvest or via automatic deposit into our Institutional OA repository or another public archive.
- No limitations on author reuse. Our authors shall have the right to reuse figures, tables, data, and text from their published work without permission or payment.
- No impediments to rights reversion. Publishers shall provide a simple process for our authors to regain copyright in their previously published work.
- 7. No curtailment of copyright exceptions. Licenses shall not restrict, and should instead expressly protect, the rights of authors, institutions, and the public to reuse excerpts of published work consistent with legal exceptions and limitations on copyright such as fair use.
- No barriers to data availability. Our authors shall have the right to make all of their data, figures, and other supporting materials from their published work publicly available.
- No constraints on content mining. Publishers shall make licensed materials open, accessible, and machine-readable for text and data mining by our researchers, at no additional cost and under terms that allow retention and reuse of results.
- No closed metadata. Publishers shall make bibliographic records, usage metrics, and citation data for our authors freely available, easy to parse, and machine-readable.
- 11. No free labor. Publishers shall provide our Institution with data on peer review and editorial contributions by our authors in support of journals, and such contributions shall be taken into account when determining the cost of our subscriptions or OA fees for our authors.
- No long-term subscriptions. Publishers shall provide our Institution with plans and timelines for transitioning their subscription journals to OA.
- No permanent paywalls. Our Institution shall receive perpetual access for previously licensed content and back files shall be made freely available once a journal transitions to OA.
- 14. No double payments. Publishers shall provide our Institution with data on hybrid OA payments from our authors and such payments shall reduce the cost of our subscriptions.
- 15. No hidden profits. Publishers shall use transparent pricing for the services they provide our authors when levying article processing charges and other fees associated with publishing.
- No deals without OA offsets. Our Institution shall only enter into publishing agreements that include offsets for OA publishing by our authors.
- No new paywalls for our work. Work by our authors shall be made OA on the publisher's website as part of subscription terms for new journals.
- No non-disclosure agreements. Publisher agreements with our Institution shall be transparent and shall not contain terms that prevent the sharing of their contents.

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## **OA2020** is in alignment with funders



open access 2020

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## The OA2020 strategy for transformation

## Divest of subscriptions - Invest in open access



## Pareto principle works to our advantage



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## **Transformative agreements**



http://esac-initiative.org/

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## **Temporary and transitional**



MIT and Royal Society of Chemistry Sign First North American "Read and Publish" Agreement for Scholarly Articles

Publisher represents that the Read & Publish model, with its foundation in "hybrid" open access – where some articles are paywalled and others published open access – is a temporary and transitional business model whose aim is to provide a mechanism to shift over time to full open access.

The Publisher commits to informing Customer of progress towards this longer-term aim on an annual basis, and to adjusting Read & Publish terms based on its progress towards full open access.



## Local OA2020 roadmaps





### Publisher distribution of Max Planck Society papers



ACS

Springer

### MPG publications by provider / OA Gold

Subscription publisherOA publishertransformation agreement

More than 80% of the total article output of the Max Planck Society is published in journals from **20 key publishers.** 

5 out of the 20 publishers are already pure OA publishers.

In 2016, we started with our first offsetting agreement



### Offsetting effects for the Max Planck Society in 2018



Subscription publisherOA publishertransformation agreement

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With our transformation agreements we have started to divest from subscriptions and increased our OA share.

This approach will be further extended as soon as the next license agreement is up for renewal.

### Offsetting effects for the Max Planck Society in 2019



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## Projekt DEAL OA2020 roadmap of Germany

All German research organizations have signed the 2003 *Berlin Declaration on Open Access* and have joined the OA2020 initiative

The **DEAL** negotiations with **SpringerNature**, **Wiley** and **Elsevier** reflect the collective demand for more OA and transparent pricing

### PAR model (Publish & Read)

- Nationwide licenses to the entire portfolio of electronic journals
- All publications by corresponding authors of eligible institutions become open access immediately upon publication (CC-BY license)
- Fair pricing, ultimately only based on the number of papers published

Aligned with national approaches in UK, NL, AT, SE, NO and other countries

sciences,

applied :

universities of

universities,

esearch institutions, state libraries

Participating Institutions

## **DEAL organizational structure**



Initiator

Alliance of Science Organizations in Germany (Allianz der deutschen Wissenschaftsorganisationen) represented by: German Rectors' Conference (Hochschulrektorenkonferenz)

### Steering committee

- takes strategic decisions ("vision and goals")
- · supervises the project's progress ("milestones")
- · communicates to the stakeholders

#### Project team

- project planning and control
- communication with participating institutions
- preparation of negotiations



Publisher(s

Negotiation

Group

## **DEAL current status**



	SpringerNature	Wiley	Elsevier
Accept Publish & Read (PAR) principle	yes	yes	no
2018 contract status	interim solution with 0% price increase; access opened up for additional institutions	interim solution with 0% price increase	200 institutions discontinued their license agreements. Access stopped per July 2018; no major complaints or problems reported
Further escalation	currently none	currently none	public withdrawal of senior researchers from editorial boards (13 MPG out of 41)
Current negotiations	ongoing	ongoing	stalled
2019 outlook	some form of agreement expected	some form of agreement expected	additional non- renewals expected

## Take action: create your OA2020 roadmap



# Financial leverage: there is already enough money in the system



https://treemaps.intact-project.org/apcdata/openapc/

## Additional leverage in shared knowledge



### Average amount paid per Hybrid and Gold APC in 2017

Open APC data

Springer Nature 📃 Open APC total



open access 2020

http://esac-initiative.org

# Additional leverage in growth trend of open access publishing



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### Additional leverage in timing and public opinion SCIENTIFIC PUBLISHING

## European funders seek to end reign of paywalled journals

Move aims to accelerate full transition to open access

http://science.sciencemag.org/content/sci/361/6406/957.full.pdf

**NEWS** • 19 JULY 2018

### Dutch publishing giant cuts off researchers in Germany and Sweden

Negotiations with Elsevier have stalled over open-access deals.

https://www.nature.com/articles/d41586-018-05754-1

German researchers resign from Elsevier journals in push for nationwide open access

By Gretchen Vogel | Oct. 13, 2017, 3:30 PM

http://www.sciencemag.org/news/2017/10/german-researchersresign-elsevier-journals-push-nationwide-open-access



## Stepping away from the table IS an option

## HOW TO GET THE PDF?

Alternatives to the publisher version of full-text journal articles

http://www.openaccess.nl/sites/www.ope naccess.nl/files/documenten/howtogettot hepdf\_march\_2018.pdf



This is not free, but often a fast option, and often much cheaper than buying it from the publisher. Libraries usually have special rates for staff, phd's and students! Ask your library for advice.







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**Overview Dutch University Libraries** 





#### 8 NARCIS

NARCIS provides access to scientific information, including (open access) publications from the repositories of all the Dutch universities, KNAW, NWO and a number of research institutes, datasets from some data archives as well as descriptions of research projects, researchers and research institutes. http://www.narcis.nl/

NARCIS

OPEN ACCESS

scienceopen.com

#### 9 **OSF PREPRINTS**

OSF offers acces to over 2 million open access preprints. https://osf.io/preprints/

#### 10 DIRECTORY OF OPEN ACCESS JOURNALS

DOAJ offers access to over 10.000 open access journals.

#### SCIENCE OPEN

Science Open contains over 37 million articles, a large part in open w.scienceopen.com/ http://w

SCI-HUB

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If all else fails, you may be tempted to use Sci-Hub. Do realize, however, that in many countries, including The Netherlands, the use of Sci-Hub is considered as an illegal act, as it involves content protected by copyright laws and licensing contracts.







# We have the leverage to drive open access into the system

Effect cost transparency and a competitive market in which our money can follow scholars, not publishers.



## Thank you!



ParticipateAcceleratein OA2020the transition

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