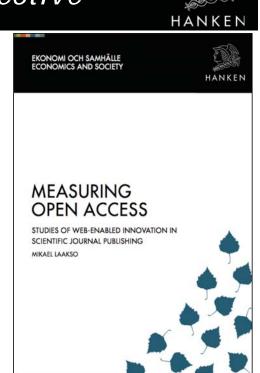
#### **Open Access Publishing**

Mikael Laakso, D.Sc. (Econ.) Associate Professor Hanken School of Economics, Helsinki, Finland Presentation at the Open Forest Science seminar 26.4.2018 @mikaellaakso



### My background and perspective

- » Research has been focusing on how open access has been introduced and changed scholarly journal publishing.
- » Member of the H2020 Commission Expert Group "Future of Scholarly Publishing and Scholarly Communication (FSP)"
- » Member of the strategy group for journal publisher negotiations on behalf of the Finnish university library consortium (FinElib).



## Why publish openly?



HANK

- » You want to unlock the full potential of your research?
- » Your research funder/university requires it?

But the better question is perhaps, who whould not want unrestricted visibility, more downloads, more reads, and more citations for their research?



What OA looks like on Google Scholar

Google	fish consumption v Q	
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Since 2017 Since 2016 Since 2013 Custom range	Trends in blood mercury concentrations and <b>fish consumption</b> among US women of reproductive age, NHANES, 1999–2010 RJ Birch, J Bigler, JW Rogers, Y Zhuaga Environmental, 2014 - Elsevier Background <b>Consumption</b> of finfish and shellfish is the primary exposure pathway of methylmercury (MeHg) in the US. MeHg exposure in utero is associated with neurodevelopmental and motor function deficits. Regulations and <b>fish</b> advisories may Clind burgle. Beloted edition. All Surgings Cline Genes	[HTML] infona.pl
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include patents include citations	(EPIC-Spain): a P Amiano, S Chamosa, N Etxezarreta Public health, 2016 - Cambridge Univ Press Objective To prospectively assess the associations between lean <b>fish</b> , fatty <b>fish</b> and total <b>fish</b>	
Create alert	intakes and risk of stroke in the Spanish cohort of the European Prospective Investigation into Cancer and Nutrition (EPIC-Spain). Design Fish intake was estimated from a validated Related articles All 6 versions Cite Save	
	Regular fish consumption and age-related brain gray matter loss <u>CA Raji, KI Erickson, OL Lopez</u> , LH Kuller American journal of, 2014 - Elsevier Background Brain health may be affected by modifiable lifestyle faciors; consuming fish and antioxidative omega-3 fatty acids may reduce brain structural abnormality risk. Purpose To determine whether dietary fish consumption is related to brain structural integrity among Cited by 34 Related articles. All 10 versions Cite. Save	[нтмL] nih.gov

### **Open Access**

"Open access (OA) literature is digital, online, free of charge, and free of most copyright and licensing restrictions."

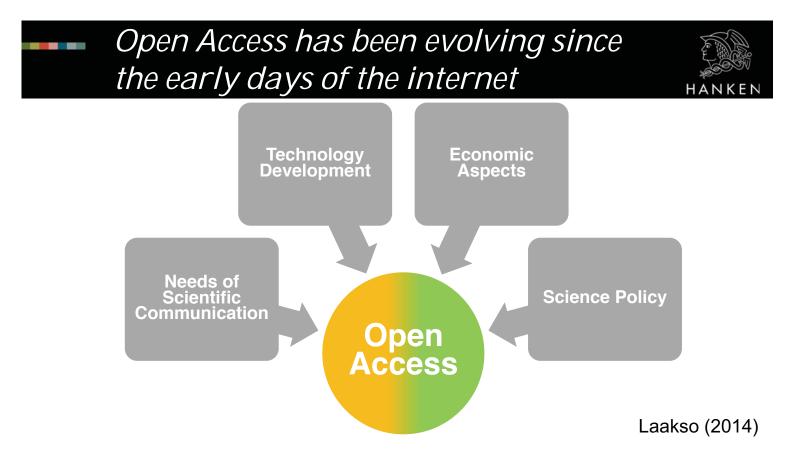
(Peter Suber, 2012:4)

#### **Gold OA**

Open Access made available by journals themselves (either in full or part). Free for everyone or enabled by author-side payment.

#### **Green OA**

Open Access elsewhere on the web. Often manuscript-versions of published journal articles. Free to authors.





### *llegal access is not the solution*





- » Provides access to more than 58,000,000 articles and growing.
- » The cat-and-mouse game can only last so long.



"Over the 6 months leading up to March, Sci-Hub served up 28 million documents, with Iran, China, India, Russia, and the United States the leading requestors."

Bohannon (2016)

### OA benefits are colorblind

- » What matters is that the research publication is discoverable and retrievable without reader-side payment.
- » The mechanism through which this happens is not a main concern for gaining benefits.
- » However, the earlier OA is provided the better.



### Visibility and impact increase

- » **Citation advantage** compared to articles only available through subscription-access. (McKiernan et al (2016)
- "[...] the odds that an open access journal is referenced on the English Wikipedia are 47% higher compared to paywall journals." (Teplitskiy, Lu & Duede 2016)
- In a study covering over 1700 articles published in Nature Communications, OA articles received 2.5-4.4 times the interactions on Twitter and Facebook compared to closed-access articles. (Wang, Liu, Mao & Fang 2015).





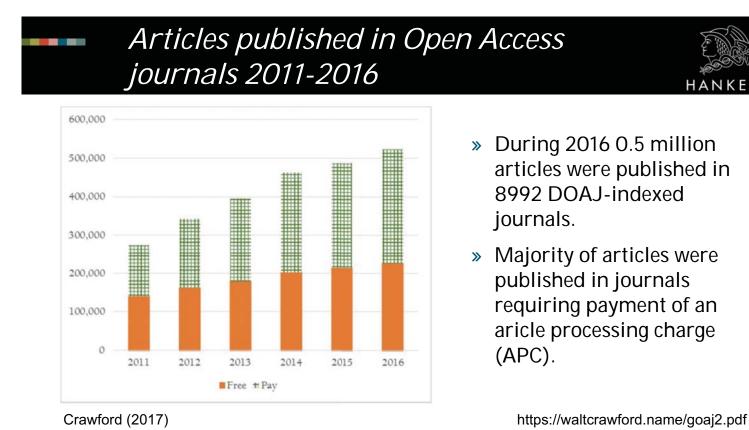
# Before submitting your article manuscript to a journal...



» Is there a suitable OA journal available? If so, arout is there an article processing charge that peeds to

great! Is there an article processing charge that needs to be paid upon acceptance, and do you have funds available for covering the charge?

» If you submit to a traditional subscription-access journal, is there a delay with which you can make your manuscript OA through a repository?





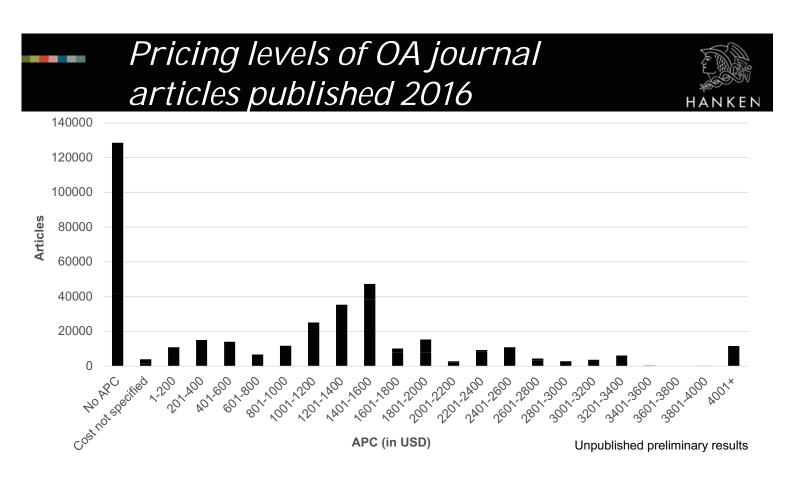


# *Open access journal articles as % of all articles in Scopus*

		2010	2011	2012	2013	2014	2015	2016
Life Sciences		14	14	16	19	20	23	21
	Agricultural and Biological Sciences	19	21	23	25	25	27	25
	Biochemistry, Genetics and Molecular Biology	13	13	15	19	21	24	22
	Immunology and Microbiology	14	14	15	18	20	24	22
	Neuroscience	8	9	12	14	16	18	17
	Pharmacology, Toxicology and Pharmaceutics	12	12	13	15	16	19	18
Social Sciences		6	7	8	9	10	11	12
	Arts and Humanities	5	6	7	9	10	12	12
	Business, Management and Accounting	3	3	4	4	4	5	7
	Decision Sciences	4	5	6	6	6	7	7
	Economics, Econometrics and Finance	5	6	7	7	7	8	10
	Psychology	6	7	9	11	12	11	12
	Social Sciences	8	8	10	11	11	13	13
Physical Sciences	•	7	7	9	9	10	10	11
	Chemical Engineering	4	4	5	5	5	6	6
	Chemistry	8	9	9	9	8	9	10
	Computer Science	8	8	10	13	11	13	13
	Earth and Planetary Sciences	8	9	10	10	11	12	12
	Energy	2	3	5	5	5	7	7
	Engineering	3	4	7	7	8	9	10
	Environmental Science	7	8	9	10	11	10	11
	Materials Science	6	6	7	7	7	7	8
	Mathematics	8	9	13	15	16	14	12
	Physics and Astronomy	10	10	11	10	14	16	17
Health Sciences		13	14	16	18	19	21	21
	Medicine	13	13	15	17	18	21	21
	Nursing	6	8	8	9	8	9	8
	Veterinary	21	22	24	27	28	27	27
	Dentistry	17	18	21	20	20	23	21
	Health Professions	7	8	10	11	14	16	16
General		23	14	16	28	34	49	62



Unpublished preliminary results



#### Author and reader beware: Predatory journals



The adoption of the author-payment model has attracted questionable entrepreneurs to the field of scientific journal publishing space.



# Mechanisms for quality control of journals are improving



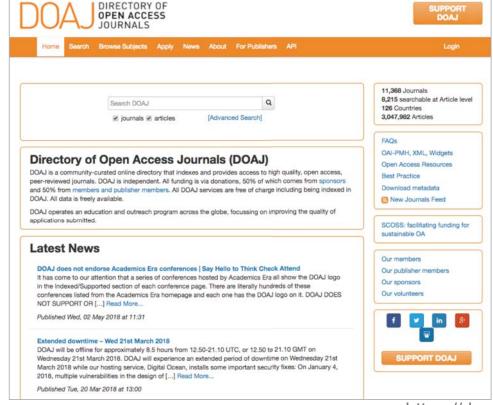
The flooded market can make it hard for legitimate journals to attract quality submissions.

- Initiatives have been started in order to create some form of transparent quality standard.
- » With age journals build up credibility and a transparent track record.



Choose the right journal for your research

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#### What can usually be made available as green OA?

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10.6.2013 HELSINKI, FINLAND Date and place of signature Maldo

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Other SHERPA Services          • SHERPA/FACT - Funders & Authors Compliance Tool         • SHERPA/JULIET - Research funders' open access policies

#### Repositories are the best web locations to self-archive manuscripts















## Hybrid OA



- » If the imposed embargo/delay to provide a green OA copy of your article is longer than your research funder accepts you need to see if the journal has an optional OA fee that can be paid to make your article OA on the journal website.
- » Most research funders do not preference this option since green OA can usually be provided for free and the fee for publishing in full OA journals is lower than hybrid OA fees.

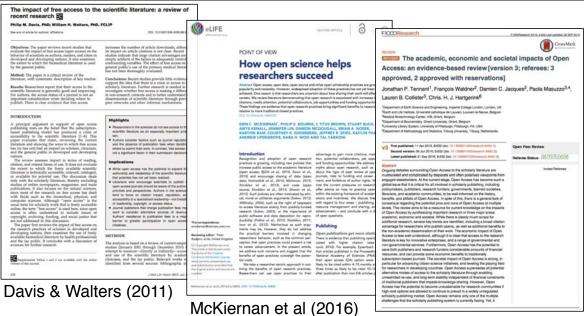
## Kay takeaways



- » Open access is increasingly required by different stakeholders and can be perceived as an additional burden, however, it is for the good of everyone.
- The share of open access content has been growing all the time, currently around half of all recently published research can be found on the web (Piwowar et al 2018).
- » In a subscription-based world, OA carries benefits to researchers and their institutions.
- » Not using research to its full potential is a waste why spend 2 years on work for an article and then not use 20 more minutes to ensure that it is read as widely as possible and permanently open?

#### Three recommended reads





Tennant et al (2016)

Q & A









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Teplitskiy, M., Lu, G., & Duede, E. (2016). Amplifying the impact of open access: Wikipedia and the diffusion of science. *Journal of the Association for Information Science and Technology*. http://doi.org/10.1002/asi.23687

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Wang, X., Liu, C., Mao, W., & Fang, Z. (2015). The open access advantage considering citation, article usage and social media attention. Scientometrics, 103(2), 555–564. <u>http://doi.org/10.1007/s11192-015-1547-0</u>