

# Enabling open science

Katarzyna Gaca-Zając, PhD Eng. k.gaca-zajac@elsevier.com



## What is open science to you?



Enabling Open Science

www.elsevier.com/about/open-science

## Global approaches to open science

• European Commission's 3 main policy goals for

research and innovation are open innovation, open

science and open to the world.



European Commission

- Open Science Policy Platform → recommendations based on 8 priorities:
  - FAIR Data

- Rewards
- Publishing models for OA
- > Open Science Cloud
- > Alternative Metrics

- Research integrity
- Citizen Science
- Skills & Training





# More inclusive



## Open access (OA)

- Free and permanent access to scholarly research for everyone
- Referred to as Public Access in the US

#### Gold open access

- Final version of an article is immediately accessible to everyone
- Cost of publishing is recovered upfront
  - Typically as an Article Publishing Charge (APC)

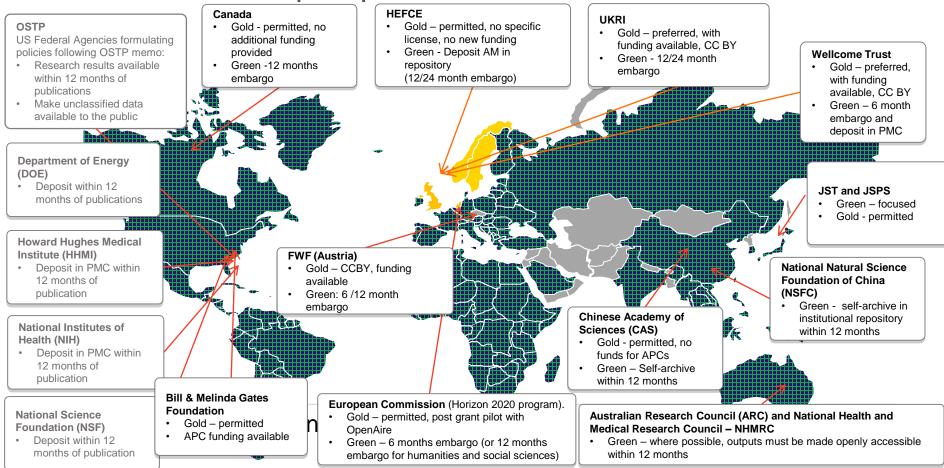
#### Green open access

- A version of a subscription article is made freely available
- Relies on the subscription model to continue to operate
  - Usually after an embargo period
  - Normally a draft copy of the article but

can also be the final version www.elsevier.com/about/open-science



## Global funder perspective



## Elsevier and open access

#### Gold open access

- Fastest-growing open access publisher
- Published around 250 fully open access journals and over 1,900 hybrid journals
- Published over 34,000 open access articles in 2018, a
   26% increase on 2017
- Choice of either a commercial (CC BY) or noncommercial (CC-BY-NC-ND) user license.
- Article publishing charges (APCs): ~\$150 to ~\$5000

#### Green open access

- Largest publisher enabler of green open access
- All 2500+ journals provide a green open access option
- Participate in CHORUS and support pilots with institutions and international funders
- Free API program to fuel repositories
- Share link service provides 50 days free access to recently published research
- Open archives in 118 journals, including Cell Press titles after 12 months



## Total article growth by journal business model

In 2018 there were an estimated 2.1 million subscription and 0.5 million open access articles published worldwide.

#### Subscription content

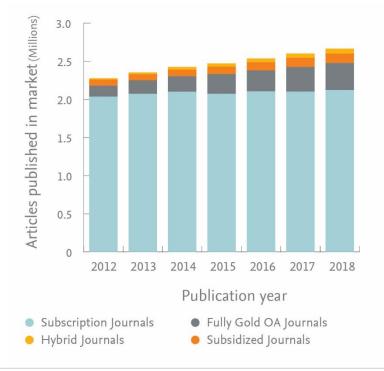
• 80% share of total articles in 2018

#### **Open access content**

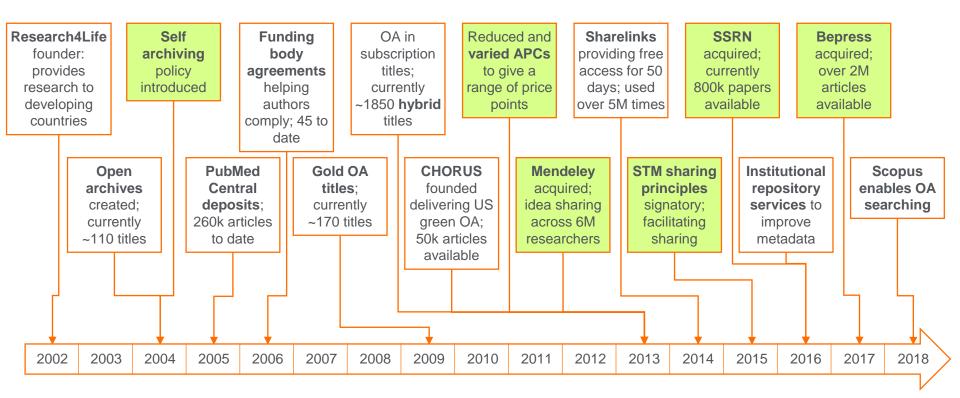
• APC-based fully gold and hybrid open access articles is 20% share of total content in 2018

#### **Elsevier perspective**

- In 2018, Elsevier published around 470,000 articles
- This includes over 34,000 open access articles, a 26% increase on 2017



### Our open access journey





## Share Links

- The majority of our journals offer Share Links a • customized link which authors receive for their newlypublished article on ScienceDirect granting free access for 50 days to anyone.
- By March 2018, Share Links had generated over 10 • million article views
- Over 1.3 million articles were shared via Share Links •
- 68.7% of links come from social media in 2018 •



Dave Goulson DaveGoulson

Follow

New paper, "Research trends in ecosystem services provided by insects", free access to full article here:

authors.elsevier.com/c/1WedL57Eg03W...





## Access initiatives by Elsevier

We provide a range of alternative access options to

ensure everyone can access the information they need.

Some of our key programs include:

- **Research4Life:** free or low cost access to books and journals
- Free media access through our newsroom
- InterLibrary loan
- Access to Research
- DeepDyve
- Emergency Access Initiative
- Postdoc access program
- Elsevier Resource Centres...and more!

#### Newsroom

As part of Elsevier's Corporate Relations department, the Newsroom is the company's main point of contact for media.









# More collaborative



www.elsevier.com/about/open-science



- SSRN is devoted to the rapid worldwide dissemination of research and is composed of a number of specialized research networks.
- SSRN's eLibrary provides 761,906 research papers from 354,694 researchers across 30 disciplines

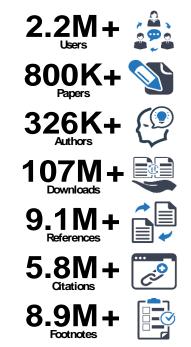
#### Tomorrow's Research Today

SSRN's global reach provides the tools to disseminate innovative ideas through our online repository, making librarians' jobs easier and keeping academics up-to-date.

SSRN provides the tools; your academic team enjoys the benefit.



Always Growing. Always Something New.







A Unique Scholarly Collaboration Network

- 70M collaboration groups on Mendeley
- Signatory of STM principles on article sharing
- Public metadata, links, lists
- Group sharing functionality
- Mendeley Stats

### Mendeley®

Mendeley is a free reference manager and academic social network that can help you organize your research, collaborate with others online, and discover the latest research.



> Login to Mendeley





## Atlas – research for a better world

- Articles chosen by external advisory board
- Shortlist from Elsevier's 1800+ journals
- Winning articles showcased in a lay summary by a scientific journalist and hosted on Atlas website
- Board members from NGOs across the world
- Author receives the Atlas award and have their article free to access on ScienceDirect





## AudioSlides

Bringing research to a wide audience in an easily accessible, personal format.

✓ Brief, 5-minute presentations using slides & voice-over

- Overview in easily accessible format for researchers and the public at large
- AudioSlides are openly available
- Can be embedded on websites or posted to YouTube etc. - a great way to promote the article and increase usage!

More info: <u>https://www.elsevier.com/audioslides</u>



Elsevier Publishing Campus!





# More transparent



www.elsevier.com/about/open-science

## Open peer review reports

Pilot in 5 journals to experiment with publishing peer review reports as publicly available research outputs with their own DOI.

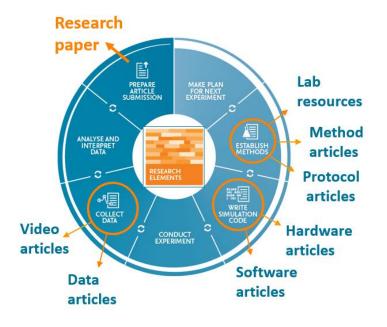
Editors	Reviewers	Authors	Forward look
<ul> <li>70% of those surveyed believe that reports are more in depth and constructive i.e. improved and more useful to authors, as a result of being made open</li> <li>Some concern it may make it harder to find reviewers.</li> </ul>	<ul> <li>Like the ability to get recognition</li> <li>Over 95% said publishing review reports didn't influence their recommendation nor would it influence them accepting further review invites for the journal.</li> </ul>	<ul> <li>Generally positive about having open peer review reports next to their article</li> <li>Little impact on their journal choice, indeed slightly more likely to choose a journal offering this.</li> </ul>	Extend to other interested journals and provide more data about the peer review process on ScienceDirect.



## Publishing data articles

- Offer researchers an easy channel to publish their research output, receive credit, and make research objects discoverable
- Dedicated sections in regular journals
- Specialized, fast and transparent peer-review process
- Co-submission service via regular journals for data articles
- Primarily Open Access, APCs of ~500 USD

Because no matter what field of research you are in, data, methods and software always matter



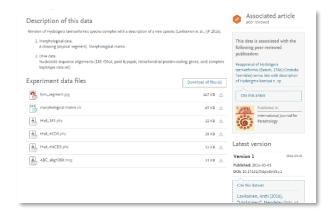


## Storing research data

Submitting authors can store research data in <u>Mendeley</u> <u>Data</u> repository and link this to their article on ScienceDirect.

- ✓ Open access, free-to-use repository
- Indexes over 10 million datasets from domain-specific and crossdomain repositories
- Hosts all formats (raw, processed data, tables, code and software)
- ✓ 10GB free storage and CC0 license option
- ✓ Assigns data DOI to make it independently citable
- ✓ Partnership with DANS for long term storage and preservation





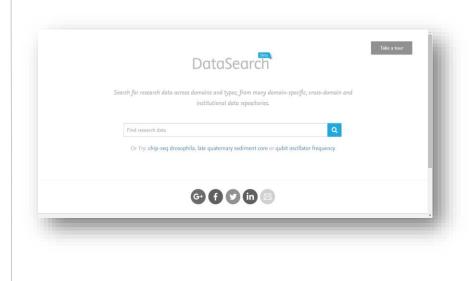
#### https://data.mendeley.com/



## DataSearch link from Scopus

Research data enhance the value of an article and aid reproducibility. Scopus is recognizing the importance of research data as both output and sourcing for articles.

- Last March 2017, Scopus started a collaboration with <u>DLI Service</u> to find data related to any specific document.
- With this new release, Scopus is enhancing its involvement in research data by starting a new collaboration with DataSearch.





#### ELSEVIER

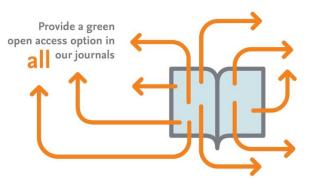
### 5 surprising facts about Elsevier and open access

#### Fact #1: Elsevier Publishes Open Access

In 2017 we published over **27,000** open access articles making us one of the leading open access publishers. In fact we:



Publish **170** open access journals and over **1850** hybrid journals





#### Fact #2: Our APC prices are value for money

Our APC prices range from **c\$150** — **c\$5000** US dollars which are at or below industry average. This represents value for money as we publish the best quality open access articles (based on field-weighted citation impact) for both open access and hybrid titles

### Fact #5: We encourage authors to share their data

Elsevier is enabling researchers to store, share, discover and reuse data. We have:

**55,000** users each month utilizing open data tools which include Mendeley Data and Hivebench

**1.6 million** links from published articles to datasets stored in **65** external data repositories



**8.2 million** datasets from over **30** repositories indexed and findable on Mendeley Data

### Fact #3: We are making it easier to find and use OA content

Articles on ScienceDirect are tagged with "Open Access" and you can search, browse and set up alerts for open access

Scopus indexes **c4000 open access journals** from more than 5,000 publishers and we are also working on making it possible to search for open access on an article level within Scopus

### Fact #4: Elsevier supports green open access



Enabling authors to self-archive in **all** of our journals. Our embargo periods are publicly available and searchable

Providing 4 ScienceDirect APIs to help institutional repository managers to search and populate their repositories with affiliated authors' metadata and abstracts



Implementing CHORUS for CHORUS partners and also make open archive freely available on ScienceDirect in ~110 journals





# Hvala!

Katarzyna Gaca-Zając, PhD Eng.

k.gaca-zajac@elsevier.com

