



Supporting open access in Taiwan

Global view, focus on Taiwan

James Picken

james.picken@elsevier.com



Agenda

1. Introduction
2. Publishing
3. Overview of open access agreements
4. Supporting Taiwan's OA needs

2. Publishing

- i. Introduction to Elsevier
- ii. Publishing as a service
- iii. Elsevier's publishing profile
- iv. Publishing initiatives



Our Mission

Elsevier helps researchers and healthcare professionals advance science and improve health outcomes for the benefit of society.

Communities we serve: heroes of the pandemic

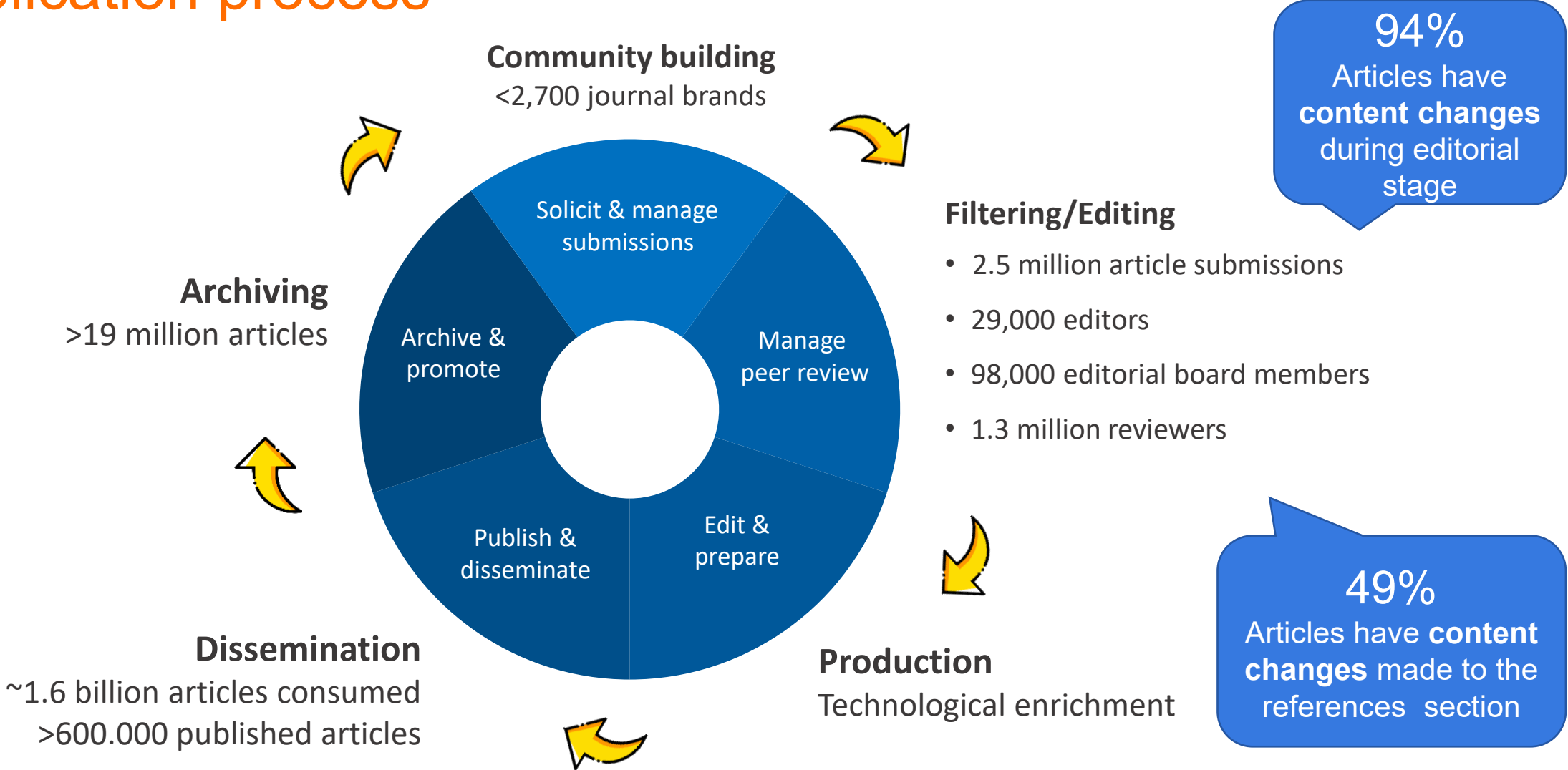


'BioNTech began work on the vaccine in January, after Dr. Sahin read an article in the medical journal **The Lancet** that left him convinced that the coronavirus, at the time spreading quickly in parts of China, would explode into a full-blown pandemic. Scientists at the company, based in Mainz, Germany, cancelled vacations and set to work on what they called Project Lightspeed.'

New York Times Nov. 10, 2020



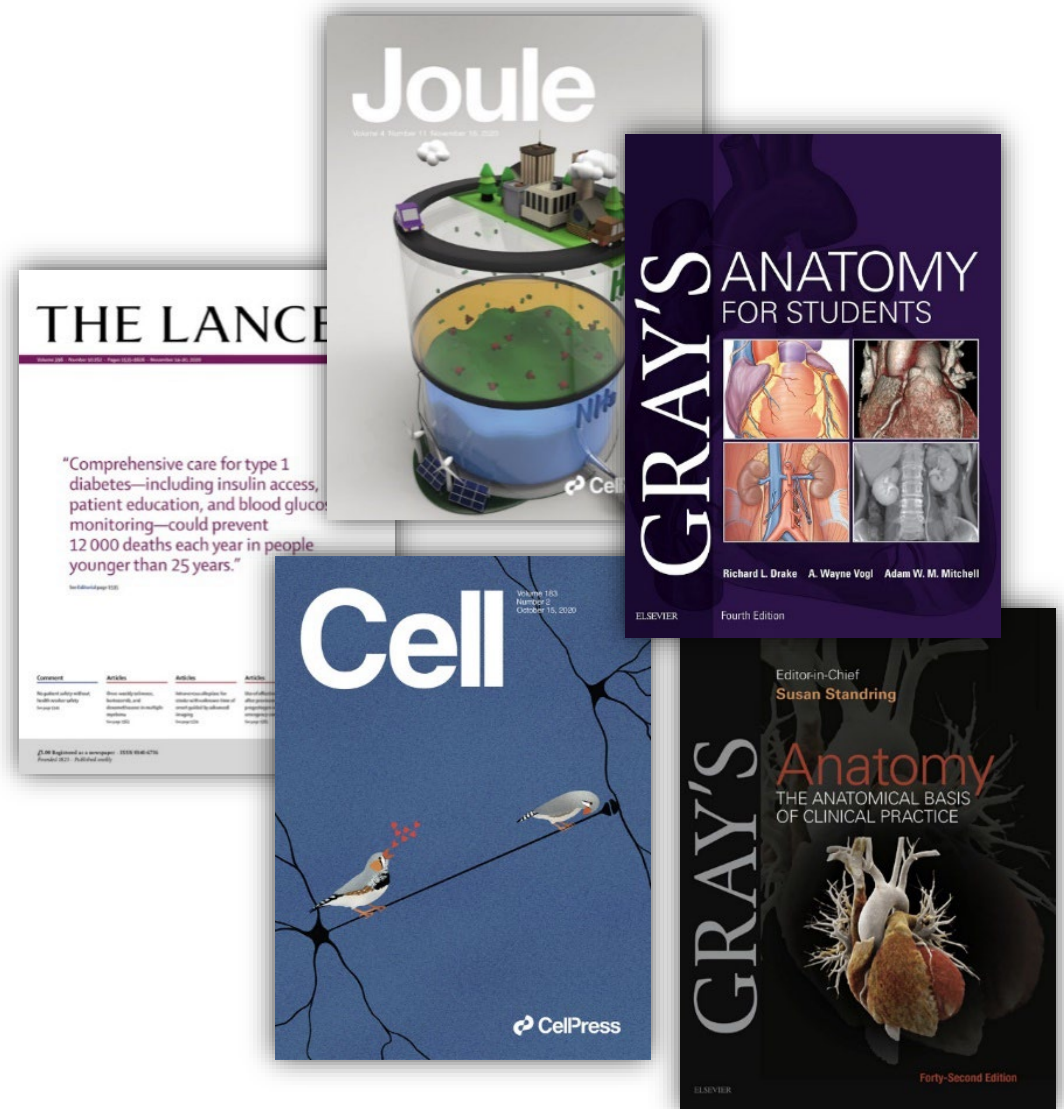
Publishing as a service: We add value to articles throughout the publication process



* Source; annual report 2020

Trusted in research and health for over 140 years

- ~**2,700** digitized journals, including [The Lancet](#) (1823) and [Cell](#)
- **43,000+** eBook titles; including iconic works: [Gray's Anatomy](#).
- Since the year 2000, more than **99%** of the Nobel Laureates in science have published in Elsevier journals
- **600k+** peer-reviewed articles in 2021 / **89%** more than a decade ago



Publishing models

There are two main routes for publishers to recoup the costs of publishing: Pay to Read and Pay to Publish

Pay to Read (the subscription model)

Under the pay-to-read model, the **cost of publication is covered by readers**, typically in the form of subscriptions.

This way, the cost of publishing articles is spread across typically thousands of institutional and individual subscribers, who pay to receive access.



Pay to Read

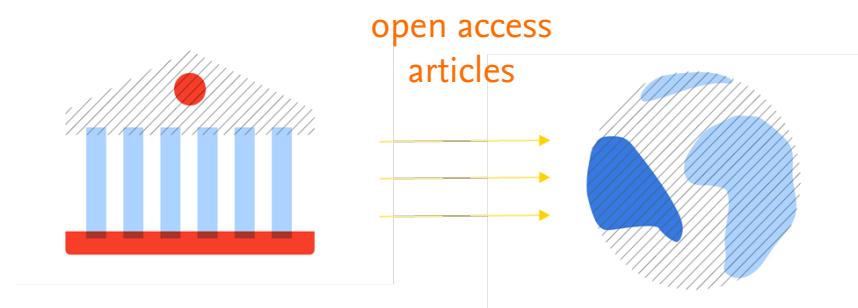
Readers pay to **receive access** to research content published around the world.

Publishing models

There are two main routes for publishers to recoup the costs of publishing: Pay to Read and Pay to Publish

Pay to Publish (the gold open access model)

In the case of Pay to Publish, **individuals or institutions pay an Article Publication Charge (APC)** upfront to cover the cost of publishing. These articles are made immediately and permanently available to the rest of the world on publication. **Readers do not pay** a subscription to access these articles.



No double-dipping policy

How do we ensure that double dipping does not take place?

When calculating subscription and Freedom Collection prices, we only take into account subscription articles.

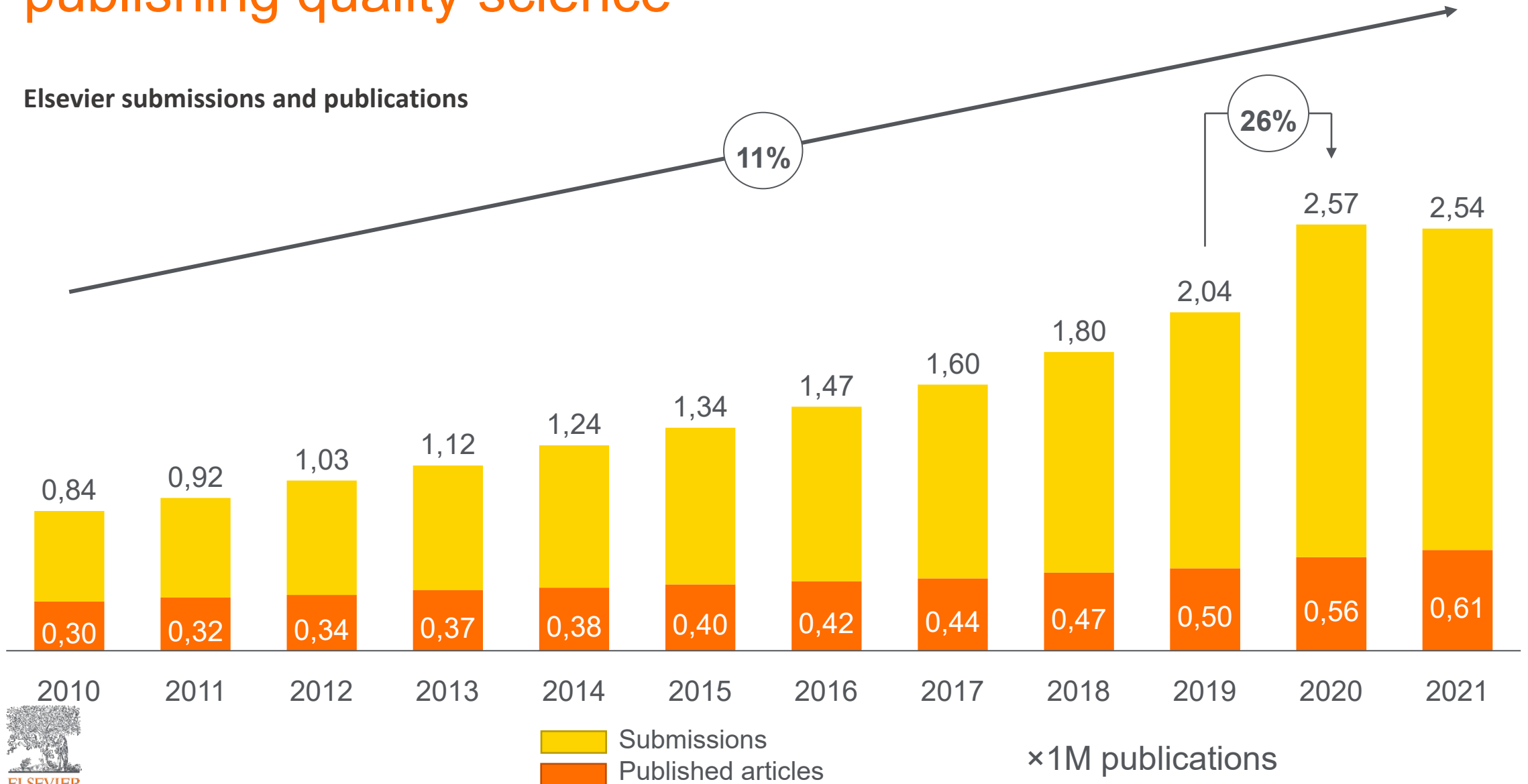
Why do some say that Elsevier double dips?

Concerns around double dipping are often premised on the expectation that open access articles are replacing the number of subscription articles being published, and therefore that prices should be changing to correspond to this.

At Elsevier, both subscription articles and open access articles continue to grow.

We continue to grow healthily in submissions, while publishing quality science

Elsevier submissions and publications





Open Access

Elsevier is moving fast to meet the different demands for Open Access, while continuing to support authors who prefer to publish under the subscription model.



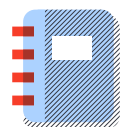
600+

fully gold open access journals, as well as over 2,700 journals offering gold OA publishing options



119K

gold or pay-to-publish OA articles in 2021, more than 46% over 2020



1.4M

OA articles available on ScienceDirect

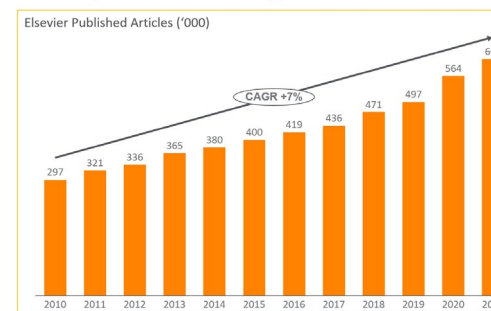


140

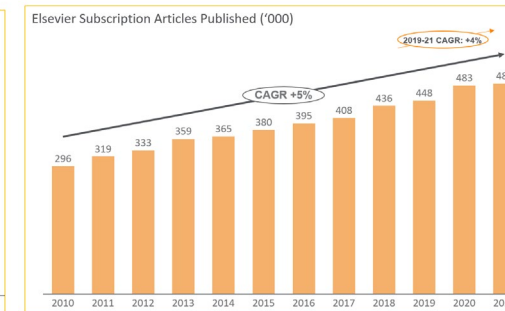
journals with open archives, including Cell Press

Whatever your discipline, there's an open access home for your research. Today Elsevier is one of the world's fastest-growing open access publishers.

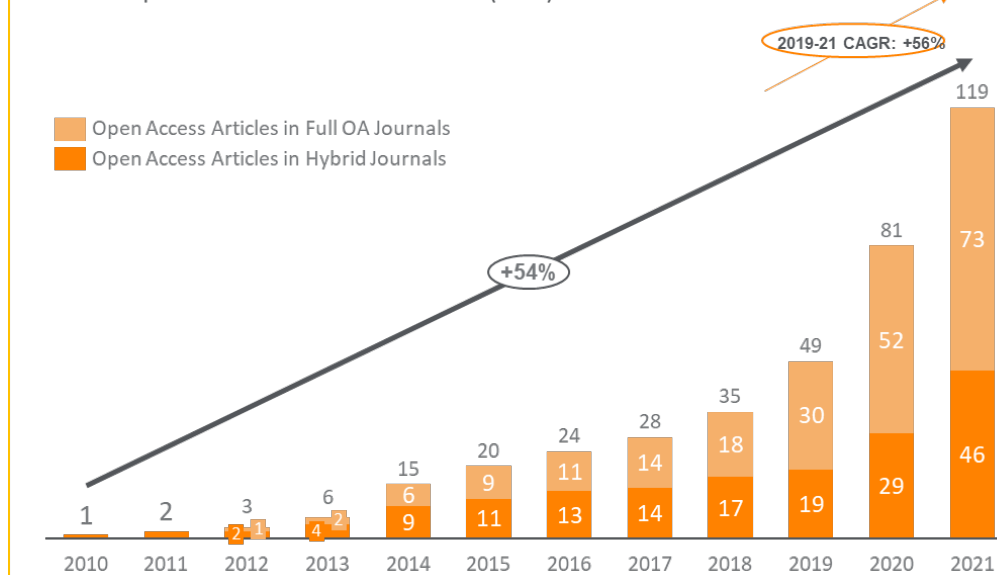
Article Volume Growth: Published Articles
Consistent published articles volume growth



Published Articles: Subscriptions



Elsevier Open Access Articles Published ('000)

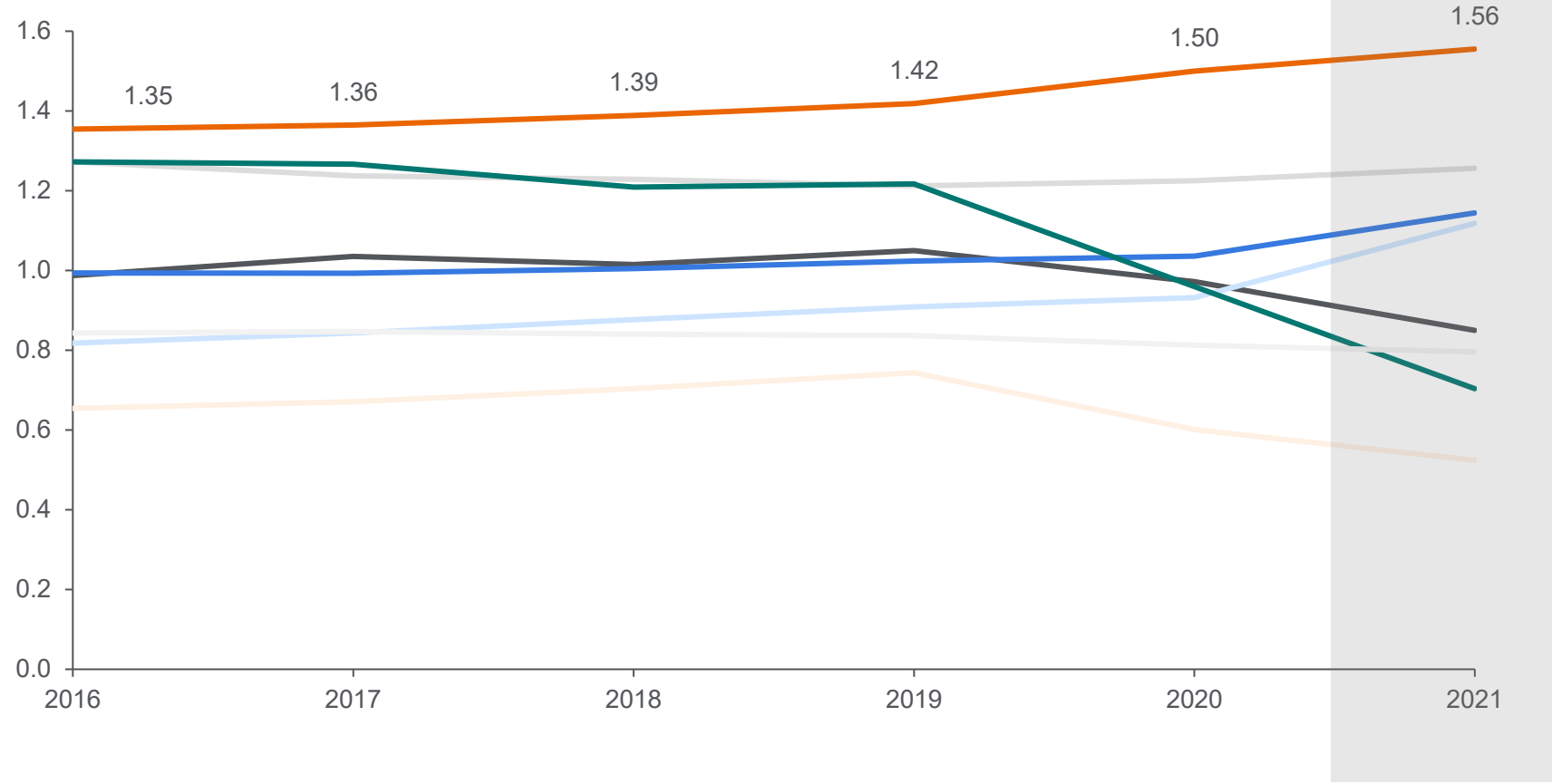


We have established strong credentials as a leading open access publisher, growing our open access article volume by +56% CAGR in the last decade.

Elsevier continues to grow article impact



FWCI for key competitors (all business models)

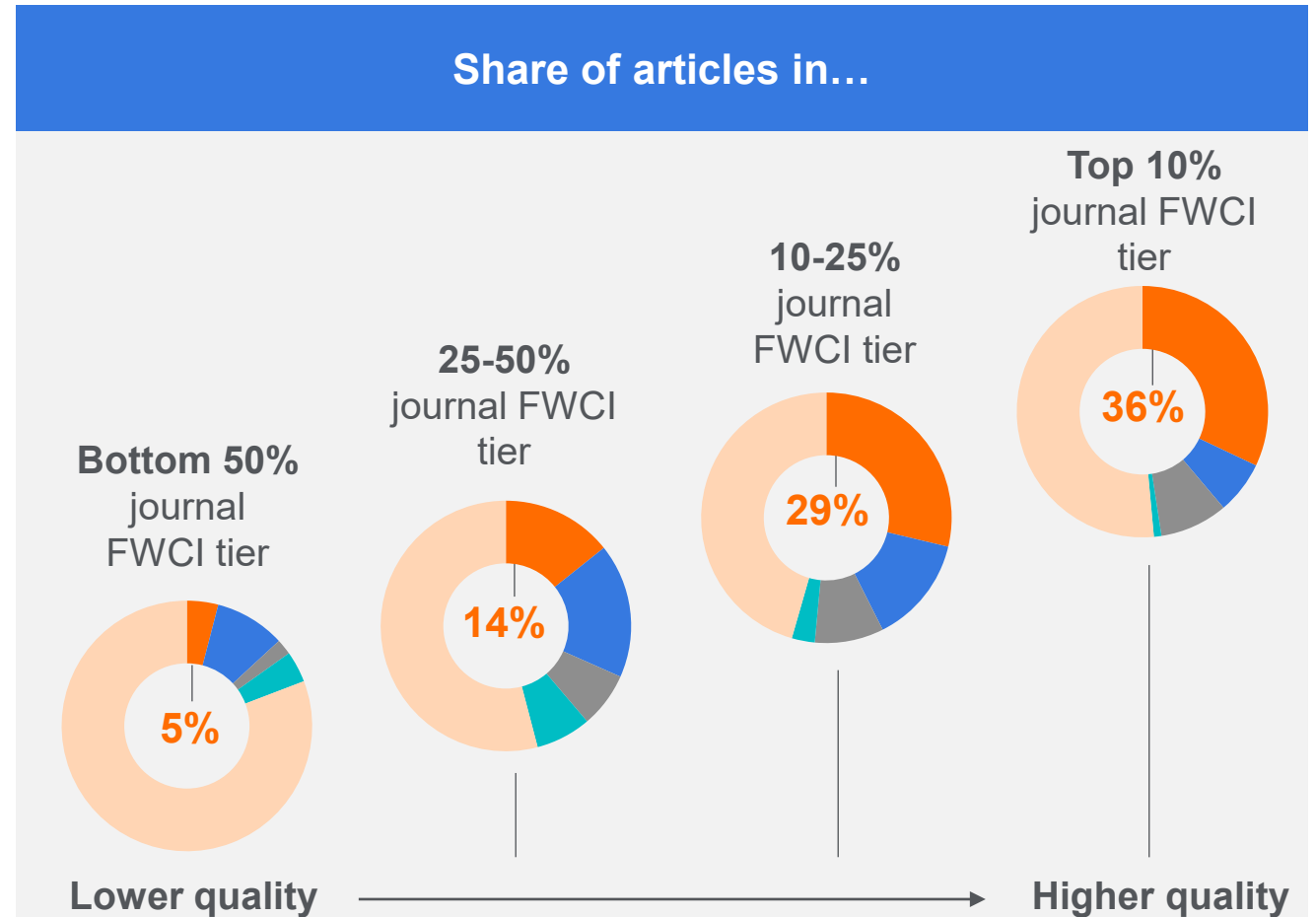
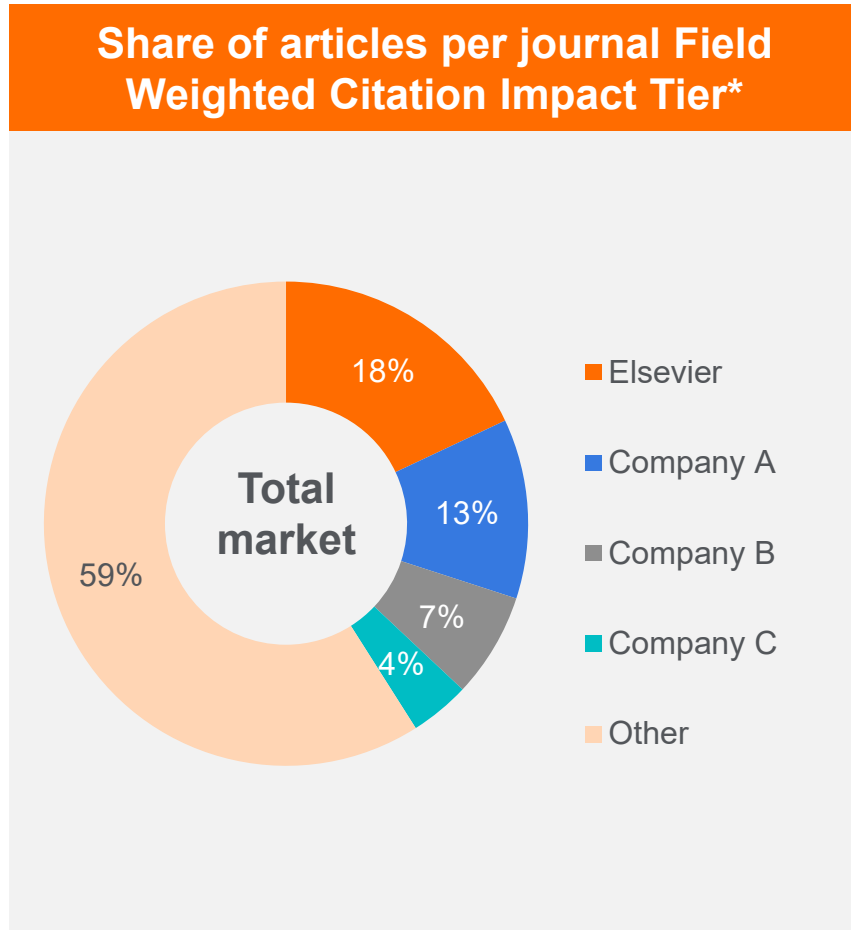


Elsevier

Anonymised

Article quality in more detail

Although Elsevier publishes 18% of articles globally, our quality is demonstrated by the fact that we publish 36% of articles in the highest quality tier of journals.



*Article share (articles published in 2020) per journal Field Weighted Citation Impact (FWCI) tier.

Field Weighted Citation Impact (FWCI) is calculated on the basis of citations in 2016-20 to articles published in 2016-20 and accounts for article type, publication year and subject field.

Source: Scopus data

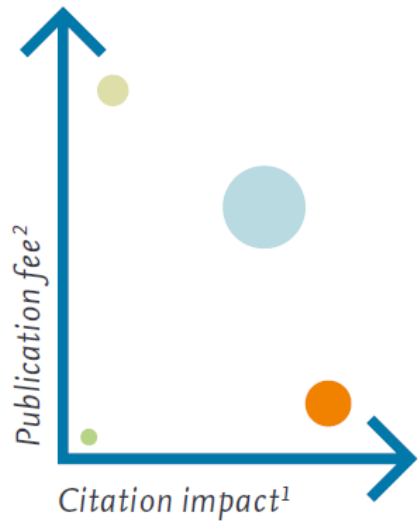
Sources: Elsevier Market Insights

Based on Scopus data Feb 2022

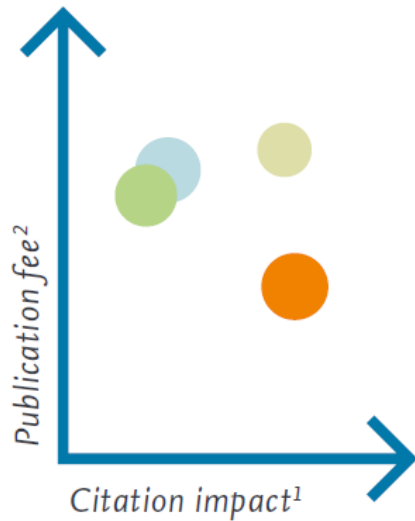
Article quality together with price

Elsevier content is priced below industry average yet delivers above average quality

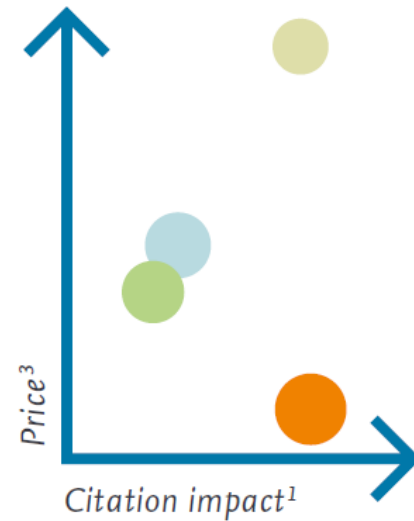
Gold Open Access journals



Open Access in hybrid journals



Subscription in hybrid journals



- Elsevier
- Competitor 1
- Competitor 2
- Competitor 3

- ¹ Field-Weighted Citation Impact
- ² Subscription USD / article (list price)
- ³ Publication fee USD / article (list price)
- * Bubble size corresponds to number of journals

Transparency

For authors:

- We provide the price of publishing Gold Open Access on each journal homepage and in [a central list](#).
- We automatically notify authors who are entitled to free or discounted Gold Open Access, for example where there is an agreement with their institution or funder.
- We automatically notify authors who are entitled to free or discounted Gold Open Access because they are in a lower- or middle-income country. Our APC [waiver policy](#) explains this process.

For librarians:

- We provide a range of information on [our website](#) about our pricing competitiveness; how our pricing corresponds to quality; and publishing model uptake across subscription and open access.
- We publicly announce significant agreements, including our open access pilots
- We provide [a list of our journal subscription prices](#)
- We describe the process we follow to calculate list prices
- We describe the process to ensure [we do not double dip](#) . We also show the number of articles that are published Gold Open Access, and the number which are financed through subscriptions, on each journal homepage, to allow librarians to validate this.

We continuously improve how we support researchers, reviewers, and editors - access



Elsevier has programs in place to ensure broad public access to research for those who need it.

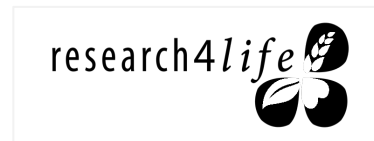


Patient access

Patients and caregivers can make requests for individual papers related to medicine and healthcare at no cost.



Access for disadvantaged communities/ emergencies



Through Research4Life, institutions in 120 low- and middle-income countries receive free or low cost access to nearly 100,400 peer reviewed resources and Scopus



Elsevier's free health and medical research on the novel coronavirus (SARS-CoV-2) and COVID-19



Free access to content for Ukrainian researchers and relevant articles freely available: [Humanitarian 2022 Special Issue](#) | [Sustainable Development Goals - Resource Centre \(relx.com\)](#)

We continuously improve how we support researchers, reviewers, and editors - tools



We support authors, editors and reviewers in their daily workflow with systems and technology:

Analyze manuscript references

Manuscript
Do all facial emojis communicate emotion? The impact of facial emojis on perceived sender emotion and text processing
Valeria A. Pfeifer, Emma L. Armstrong, Vicky Tsayin Lai

References (6)

Filters

DOCUMENT TYPE

- Short Survey (2)
- Review (2)
- Article (2)
- Conference Paper (0)

AUTHORS

- N. Aldunate (1)
- R. Gonzalez-Ibanez (1)
- Q. Bai (1)
- Q. Dan, Z. Mi, M. Yang (1)
- Z. Mi (1)

PUBLICATION

- Frontiers in Psychology (2)

1 Short Survey • Open Access
An integrated review of emoticons in computer-mediated communication
N. Aldunate, R. Gonzalez-Ibanez
Frontiers in Psychology 6 January 2017
View at Publisher [View PDF](#) [Google Scholar](#)

2 Review • Open Access
A Systematic Review of Emoji: Current Research and Future Perspectives
Q. Bai, Q. Dan, Z. Mi, M. Yang
Frontiers in Psychology 15 October 2019
View at Publisher [View PDF](#) [Google Scholar](#)

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We are committed to furthering Inclusion & Diversity together with you as our editors. Suggested reviewers may mirror or amplify which the reference tool is based. Wherever possible please consider diversity in your invitations, including gender, career stage,

Filter on h-index Filter on expertise Filter on connections

Sort by: Relevance

Symphony Angel, University of Scarlett, Wiremock
Published in this journal 3 h-index 60
Similar works 4 Same country

Melody Angel, University of South Yorkshire, Republic of Yorkshire
h-index 19 Similar works 1

Rhapsody Angel, St Trinian's, England
Recently accepted author in Elsevier
h-index 39 Similar works 3

Destiny Angel, Cloudbase Academy, Kanadu

Track your submission

This is a new submission-tracking service. Yes No

Peer review status

A gelatin-treated carbon nanofiber/epoxy nanocomposite with significantly improved multifunctional properties

Under Review
Last review activity: 18th May 2020

- Reviews completed: 1
- Review invitations accepted: 1
- Review invitations sent: 2+

Journal: Biomaterials
Corresponding author: Mr Jordan James
First author: Mr Jordan James
Date of submission: 27th April 2020

Manuscript number: BIO-D-21-00888

Need more help?
Please visit our [Journal Article Publishing Support Center](#)

Evaluate this submission for your journal

See the five closest published papers to this submission in your own journal and in other journals. The examples are based on title, abstract and keywords comparison.

Scope match score to your journal

Scope match:	70 %
Journal average:	50 %

papers published in your journals

- nsive review on recent developments in bentonite-based materials for wastewater treatment
Fernandez Giné, ..., Sabrina Souza de Almeida
- biocatalytic decomposition of azo dyes and electrons recovery
Fernandez Giné, ..., Sabrina Souza de Almeida

The closest published papers in other journals:

- A critical review on textile wastewater treatments: Possible approaches
Gastón Andrés Fernández Giné, ..., Sabrina Souza de Almeida
Other Journal Name, 2021
- Nutrients utilization and contaminants removal. A review of two approaches of algae and cyanobacteria in wastewater
Gastón Andrés Fernández Giné, ..., Sabrina Souza de Almeida
Other Journal Name, 2021

is submission to Author Transfer Service Journals

is not suitable to your journal, it may be suitable for the following journals. The submission's suitability of the alternate journals for this submissions.

transfer to these journals:

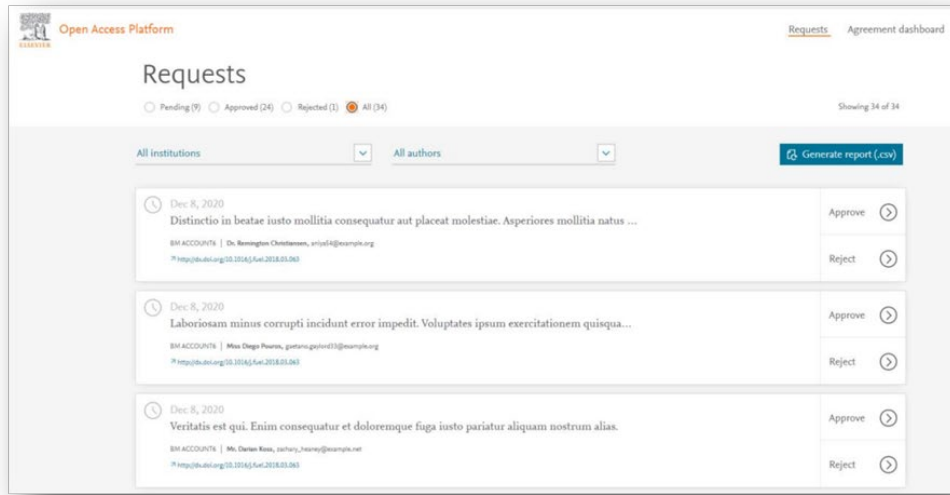
- Journal of Environmental Science
Score: 90%
6.45
- Environmental Radioactivity
Score: 84%
6.1

Aims and scope

Journal of Environmental Science

Aims & Scope has been updated - we invite contributions of original and high quality interdisciplinary environmental research papers of broad impact. Studies significantly advancing fundamental understanding and that focus on the interconnection of multiple spheres will be given primary consideration. Field studies have preference, while papers describing laboratory experiments must demonstrate significant advances in methodology or mechanistic understanding with a clear connection to the environment. Descriptive, repetitive, incremental or regional-scale studies with limited novelty will not be considered.

EOAS – Elsevier Open Access Services

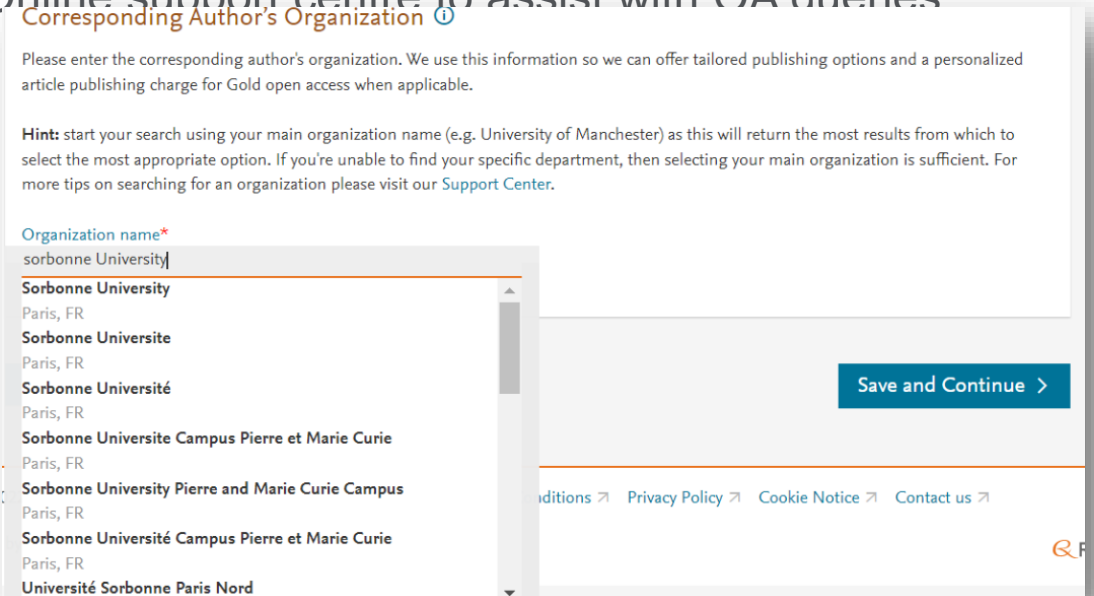


For Agreement Partners:

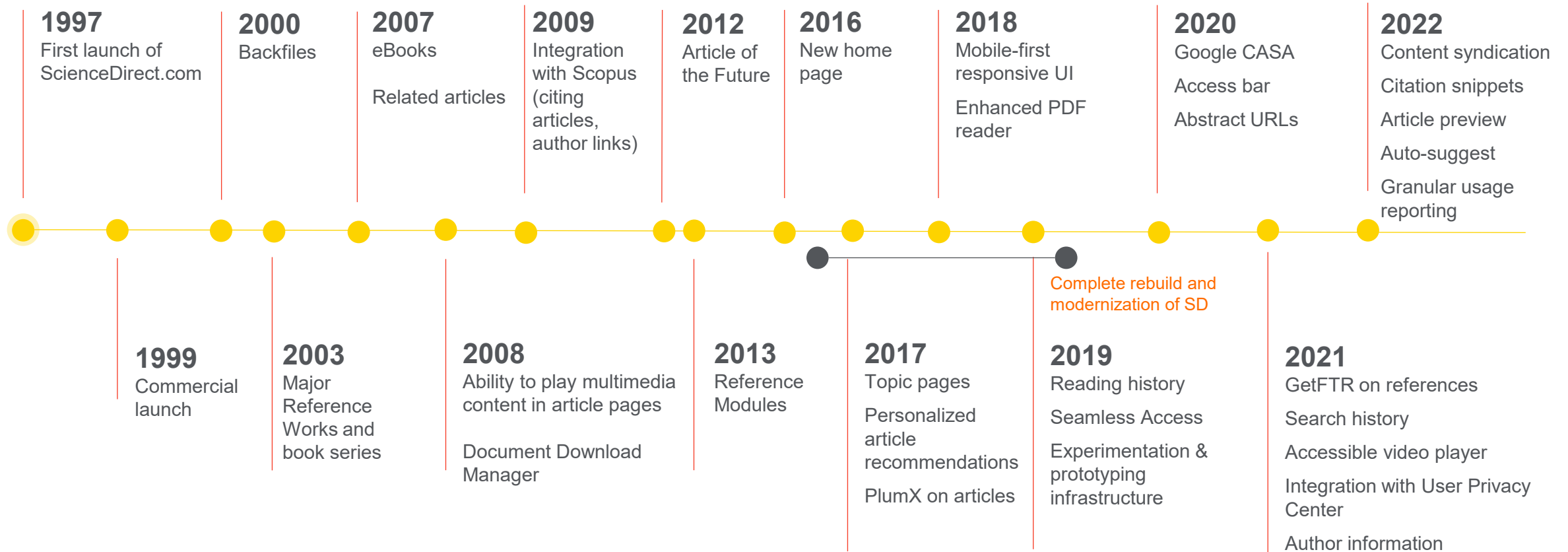
- Track and report on OA publishing
- Monthly calls with Elsevier to track progress & get support
- Online support pages, including video tutorials & FAQs.
- Marketing campaigns raise awareness among your authors, supporting OA uptake.

For Authors

- Intuitive author journey - guide authors through publishing options based on eligibility
- Clear info pages to understand their eligibility
- Email notifications updates where article is in the publication journey
- Online support centre to assist with OA queries



Innovation on ScienceDirect has evolved from delivering new content types to creating value around efficiency, trust, impact, and connections



3. Overview of Open Access agreements

- i. Types of OA agreement
 - ii. Elsevier's transformative agreements
 - iii. Case studies
 - iv. Observations and learnings
-

Advancing Open Access at Elsevier



2002

Elsevier is founding member of Research4Life, which gives **free or affordable access in 120 low- and middle-income countries**. 100K+ peer reviewed resources are currently available.



2004

- Elsevier **allows all authors to post a free copy of their article** in their repository.
- Selected journals make **archives free to read**. Now for 140+ journals, including *Cell*.



2005

Elsevier starts **sending articles to PubMed Central** to make freely available — 260k+ to date.



2009

Elsevier launches its **first fully gold open access journal**.



2013

- Elsevier **gives authors option to publish open access** in most journals that were previously subscription-only.
- Elsevier funds program to **make articles from major US federal funders freely available**. 50k+ now available subscription-only.



2018

Elsevier **signs OA agreement in Finland**, allowing their researchers to publish open access at no charge to the author.



2019

Elsevier **signs open access agreements in Norway, Poland, Hungary, Sweden, France and with Carnegie Mellon University in the US**, allowing their researchers to publish open access.

2020

- Elsevier **signs open access agreements in Switzerland, Ireland, the Netherlands, Qatar and Korea and with the University of Florida in the US** to enable their researchers to publish open

Elsevier makes **all COVID-19 articles and data freely available** — 50k+ resources to

2021

- Elsevier expands open access options for Cell Press Journals and **converts 160 subscription-based journals** into open access models
- Elsevier is first publisher to sign an open access transformative agreement with the Royal Danish Library to support continued reading and OA publishing for Danish researchers.

2022 ...

- Elsevier launches 100+ new fully gold open access journals, bringing the total to **600 fully gold open access journals**.
- Elsevier publishes **119k+ gold or pay-to-publish open access articles** — a year-on-year growth rate of over 46%. This makes Elsevier one of the largest open access publishers in the world.
- Elsevier signs **transitional agreement with Jisc-UK**, allowing their researchers to publish open access across all Elsevier journals.



Why transformative agreements?

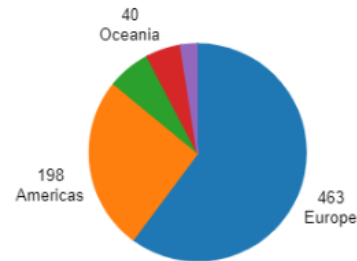
Transformative agreements are a mechanism that allow us to support customers who have an open access mandate, making their spend go further by providing both reading and publishing under one agreement.

They provide authors Funder-compliant routes to OA publishing.

How many Open Access policies are there worldwide?

The number of Open Access policies available worldwide is continually increasing. ROARMAP provides options to search for policies by country, continent, and continental region.

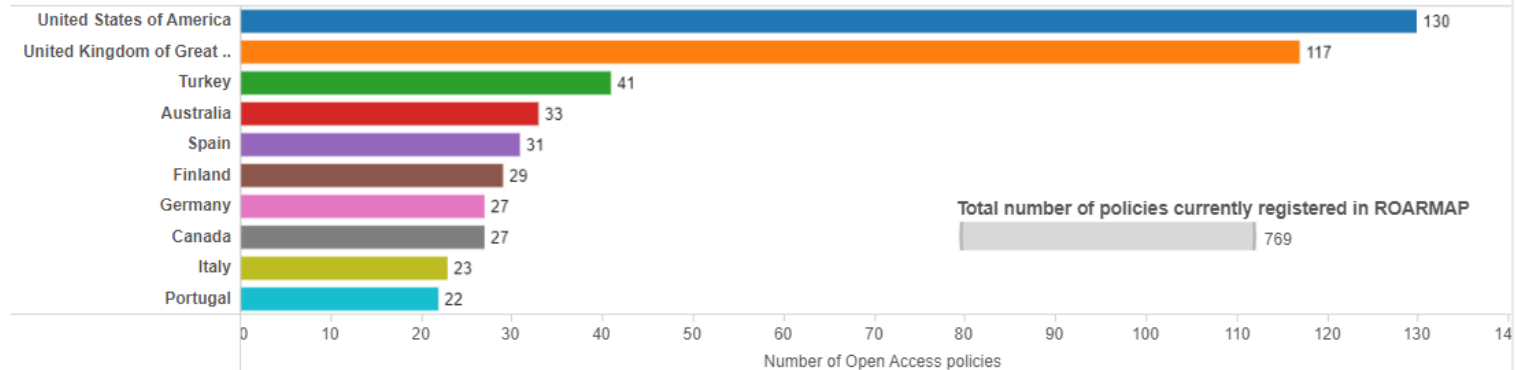
Number of policies by continent



Number of policies by continental region



Open Access policies by country - Top Ten



Types of gold open access agreement

Transformative Agreement

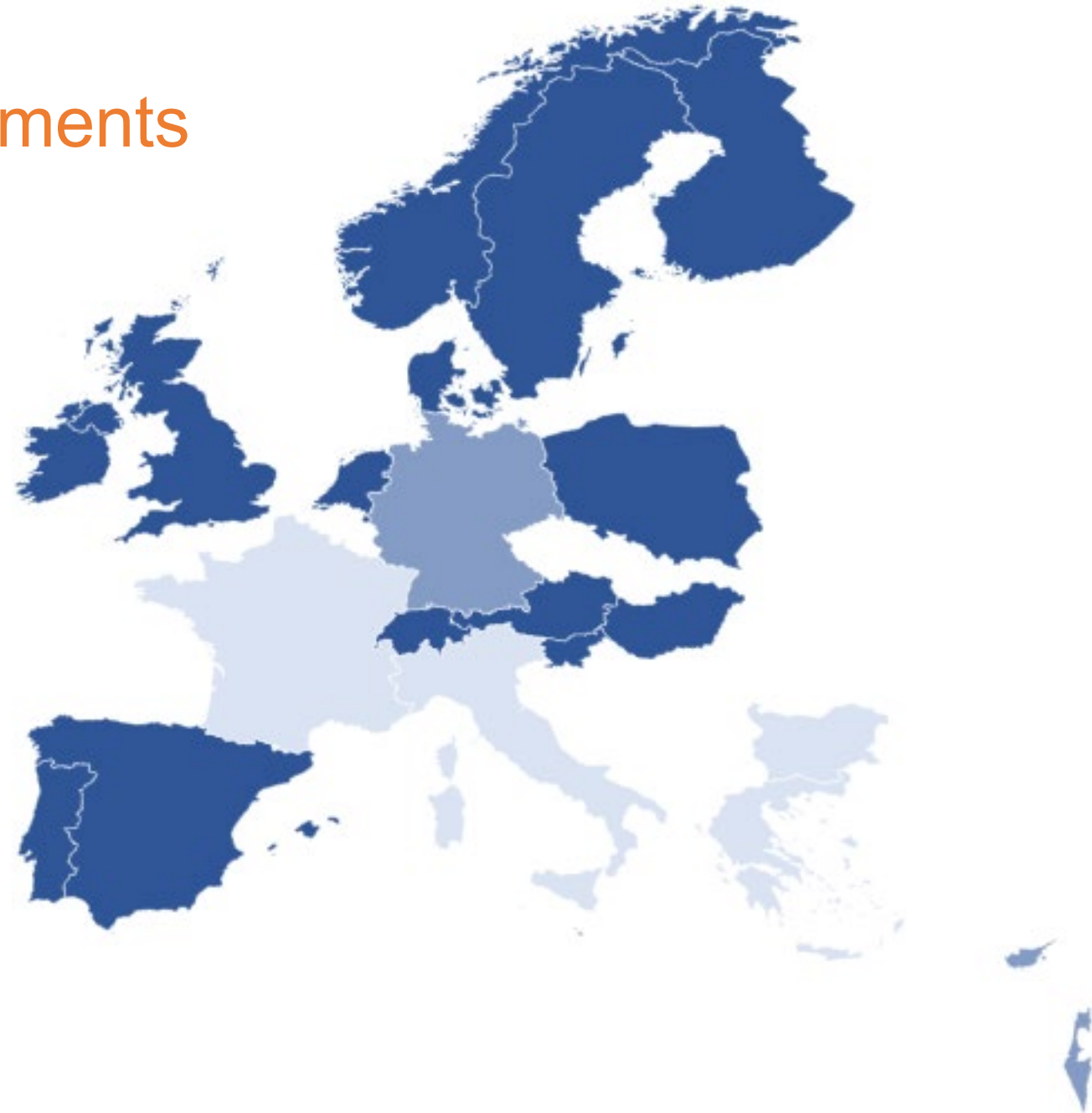
- One fee that covers both publishing and reading
- Authors can publish Open Access without having to pay the APC themselves
- Focus is on transforming subscription articles to Open Access

Discount Agreement

- Continued reading access through a subscription agreement
 - Article Publishing Charges are discounted, encouraging authors to publish their article Open Access
-

Profile of open access agreements

- Primarily **focused in Europe** but expanding more broadly across **Asia Pacific, the Americas, and Middle East**
- First genuine transformative agreement in 2016
- **40 open access agreements** across **26 countries** benefitting **~3,000 institutions**
 - **23 transformative agreements** across **21 countries**
 - **14 APC discount agreements** across **7 countries**



Specific examples



Spain:

- Gradual scale up to OA over time
- Disparate consortium/ buying groups

Ireland:

- Piloted APC quota among institutions

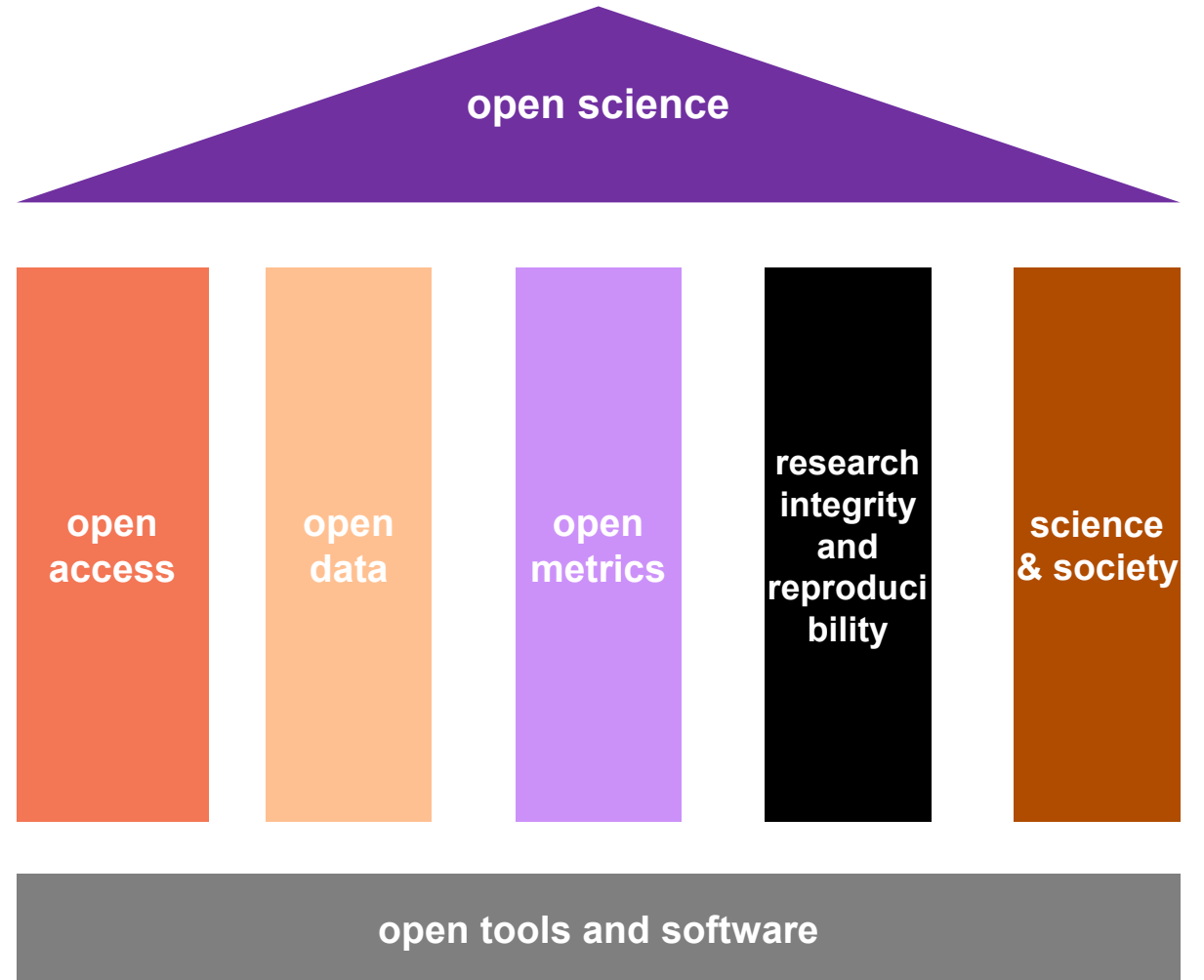


California Digital Library:

- Unique funding mechanism

Open access is one pillar of open science

- Open science describes a way of working which makes research more **inclusive**, more **collaborative**, and more **transparent**.
- Elsevier partners with the research community to enable open science.
- We believe open science can benefit research and society and drive research performance.



Open Science case study – The Netherlands

Dutch context

14

research universities

2.3%

of the European population

5.8%

of European research output

8.9%

of Europe's top cited publications

All Dutch research universities have a RIM (Research Information Management system) as do many universities of applied science and government research institutes.

Coherent national open science plan.

Open Access

- Strong collaboration between publisher, funders and institutions has led to 100% OA uptake in participating hybrid journals

Open Science

- Creation of an open, interconnected system and dataflow that supports:

Data Monitor

Enriched metadata feed of research data

Grant Monitor

Enriched metadata feed of funding data

UMC Portal

Showcasing research & collaboration

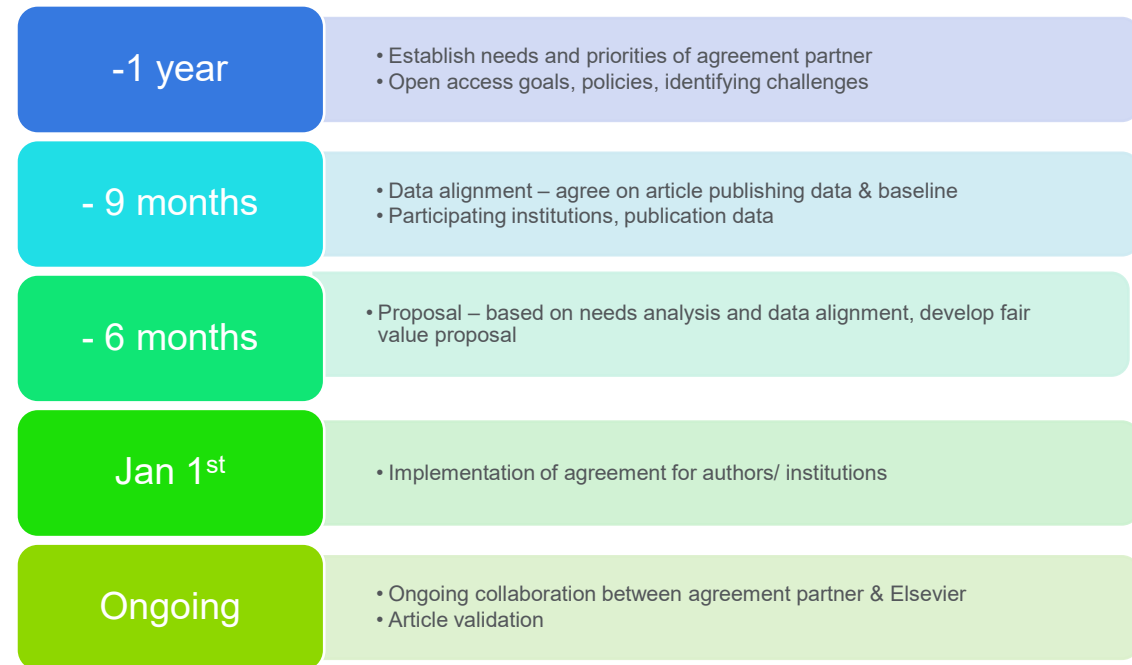
Telescope

Linking research infrastructure to outputs

Ingredients for success

- Flexibility
- Pragmatism
- Fair exchange of value
- Commitment
- Collaboration
- Clear timeline

Typical timeline:



Observations and learnings

1. Collaboration:

- For gold open access to be successful publishers, funders and institutions need to work together to support the transition:
 - Our multipayer model pilot with CDL attempts to address this
 - FWF participation in Austria

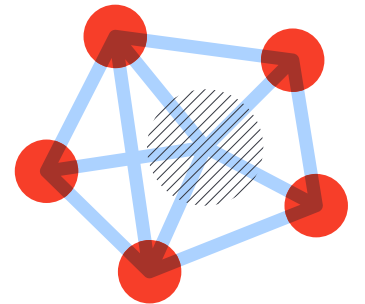


2. Changing behaviour takes time

- Author choice of OA can vary significantly between and within regions. We are learning more about this and what factors influence author behaviour:
 - Open access uptake is higher among well-organised groups where there is good communication between the consortium, administrators, and authors

3. Spend reallocation is complex, time consuming and can delay progress

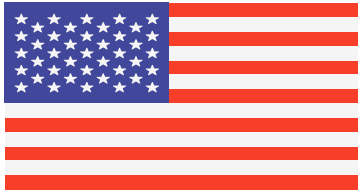
- Where we've observed most success, countries have maintained the status quo for individual institutions
- Wissenschaftsrat (Science Council) in Germany recommends changes in the way in which libraries are funded



4. Different countries are moving at different speeds

- Most OA progress is in Europe

Global context – open access progress



26%

- Absence of national policy on OA (until recently)
- Differing views and drive for cost reduction



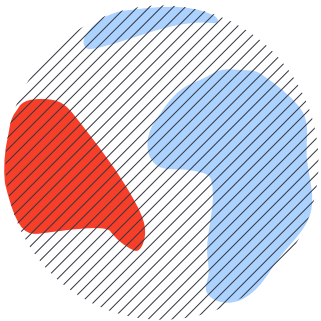
28%

- Focus on research performance + quality journals
- Strict funding conditions placed on authors



44%

- Availability funding, funding flows
- Differing policies, author choice



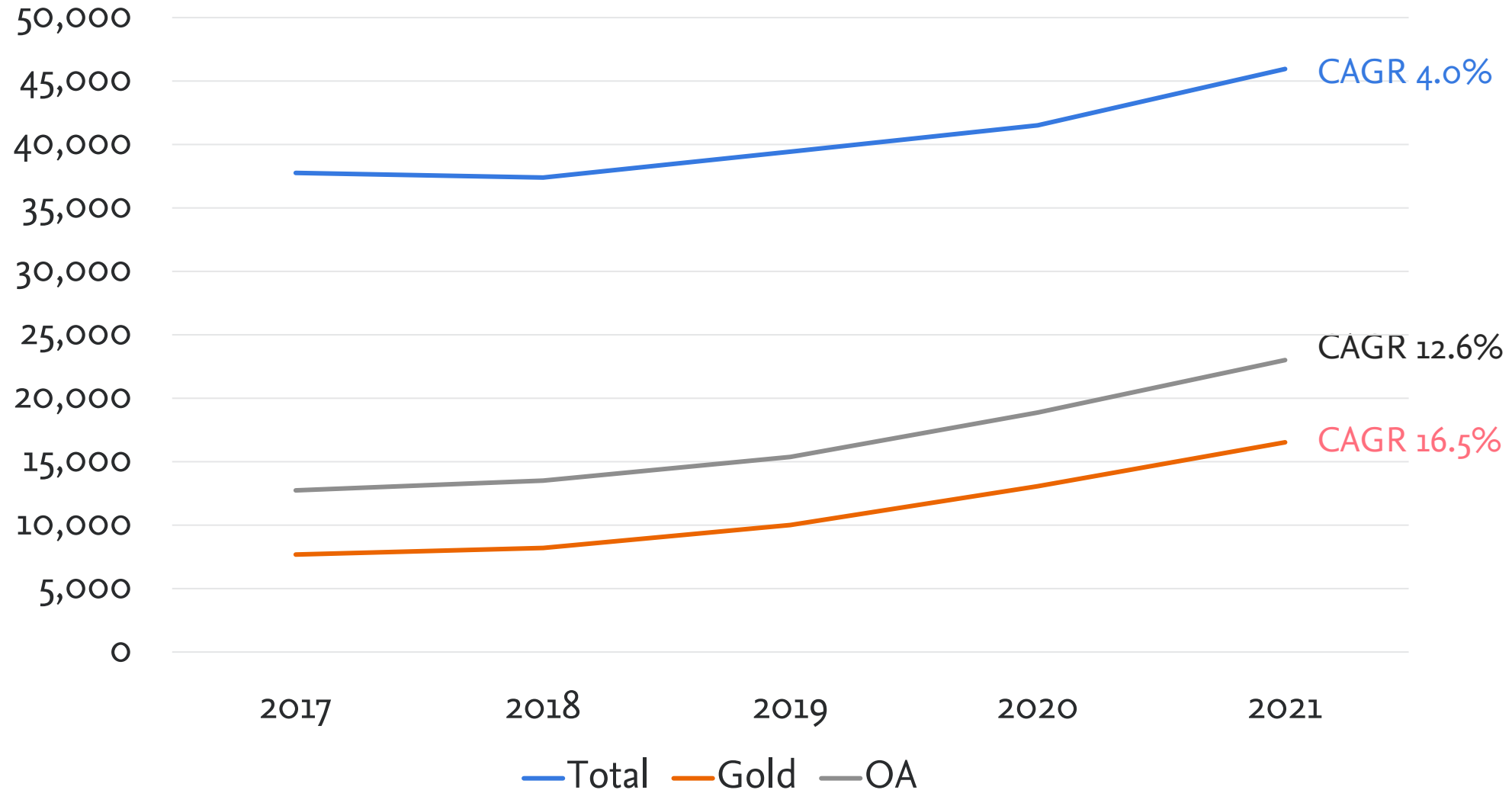
32%

- Availability of funding
- Fewer funder mandates

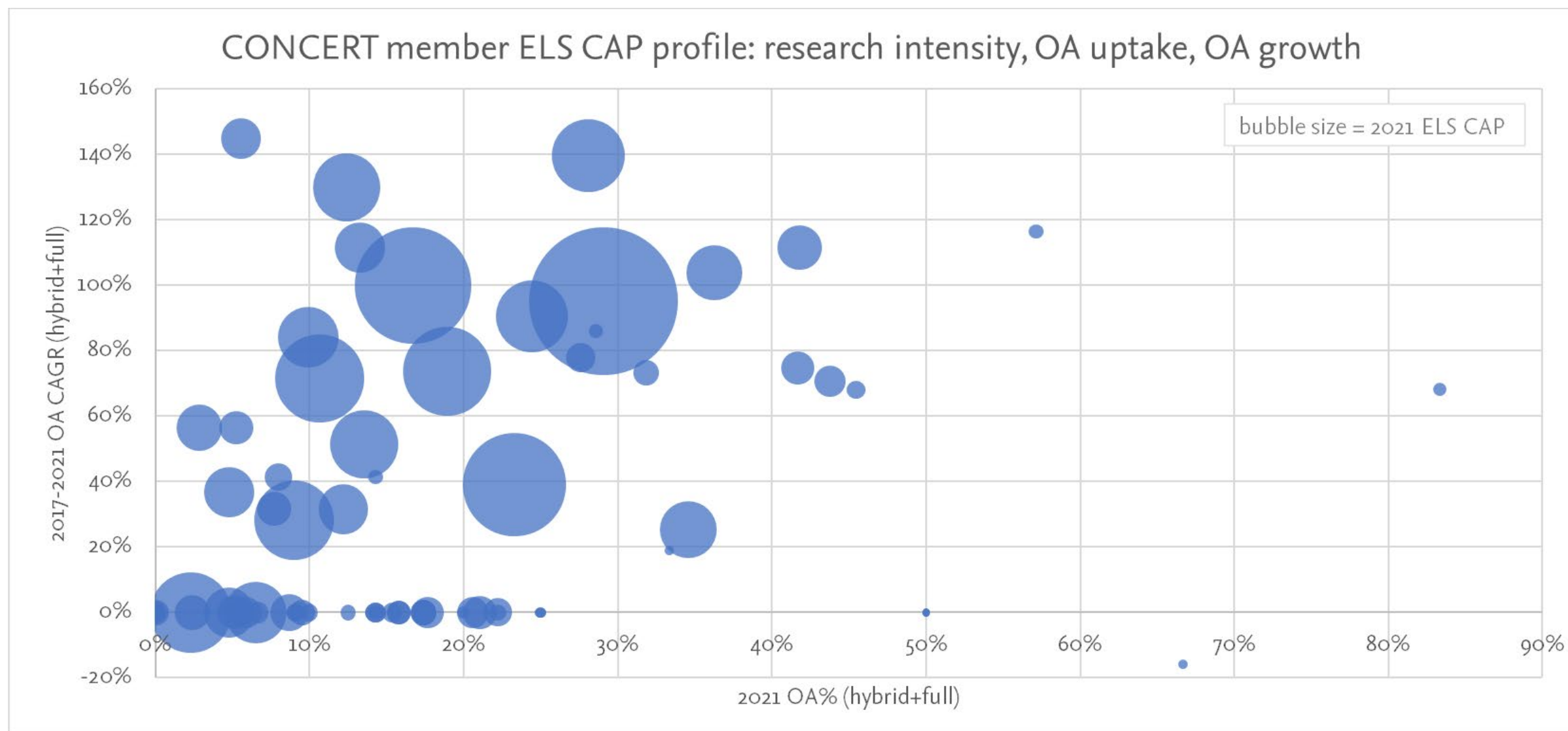
4. Supporting OA in Taiwan

- i. CONCERT members' profiles
 - ii. Working together with CONCERT
 - i. Understanding Taiwan's OA ambitions
 - ii. Analysing CONCERT member publishing profiles
 - iii. Establishing OA options for a diverse set of needs
 - iv. Looking ahead
-

Taiwan's Total publications vs Gold Publications vs all OA Publications



CONCERT members have varied publication profiles



Working together with CONCERT

Understanding Taiwan's OA needs

- Series of needs analysis meetings
- Close collaboration with STPI, CONCERT task force, and Elsevier
- Gaining a deep understanding of Taiwan's OA drivers

Deep analysis and understanding of publishing profile

- Assessing Taiwan's publishing history
- Varied publishing profiles across CONCERT's members
- Consideration of STPI open access survey

Collaboration to establish set of OA options

- Establish solution that supports the diverse needs of members
- Choice of Transformative Agreement or discount on APCs

Members currently making their agreement choice (Nov 22)

- Members are currently making their choice of agreement type
- From January 1, 2023 authors affiliated to CONCERT members will be able to publish OA under our agreement

Understanding Taiwan's OA needs

- Series of needs analysis meetings
- Close collaboration with STPI, CONCERT task force, and Elsevier
- Gaining a deep understanding of Taiwan's OA drivers



Potential challenges of OA transition

<ul style="list-style-type: none"> • Library budgets have traditionally been used for content collection rather than APC payments. • Typically, corresponding authors use a variety of funding sources to pay for APCs. <p>➤ How can we redirect funding flows to support agreements incorporating both subscriptions and OA?</p>	<ul style="list-style-type: none"> • In a large consortium like CONCERT, there is a huge variance across members in terms of OA approaches as well as number and growth of OA publications. <p>➤ How can we find a solution for each member?</p>	<ul style="list-style-type: none"> • There is a concern about the number and proportion of Elsevier articles published under the subscription model which are valuable to CONCERT researchers. <p>➤ At this stage of the OA transition, how can we ensure that the most valuable content is available to our members?</p>
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CONCERT
Elsevier and open access





Sarah Huggett
APAC Business Development Director
Open Science Solutions
Global Research Solutions
s.huggett@elsevier.com

Discussion on options of interest to CONCERT

- | | |
|--|--|
| <ul style="list-style-type: none"> A. APC discounts B. APC free tokens C. Pre-paid deposit to get better APC discounts D. Subscribe to Open E. OA options for different tiers | <ol style="list-style-type: none"> 1. How do you define this option? 2. What would this option help you achieve? 3. Are such agreements already in place? 4. Which option is most attractive to you and why? |
|--|--|

Deep analysis and understanding of publishing profile

- Assessing Taiwan's publishing history
- Varied publishing profiles across CONCERT's members
- Consideration of STPI open access survey
- Addressed double-dipping issue and subscription pricing

CONCERT 2021 Elsevier Corresponding Author Publications (CAP)



Majority of articles published under the **subscription** model with **solid growth**.

Very **strong growth** in **open access**, especially in full open access journals (from a relatively **low base**).

Institutions vary widely in:

- research intensity**
0-733 articles
- open access uptake**
 - 0-29 hybrid open access articles.
 - 0-184 full open access articles.

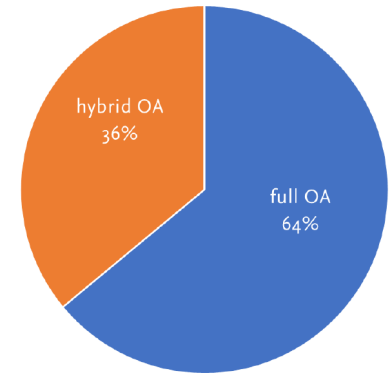
Business model	Articles	Article share	2017-2021 CAGR
ALL	5,072	100%	3%

Subscription
Hybrid OA
Full OA
Subsidised OA

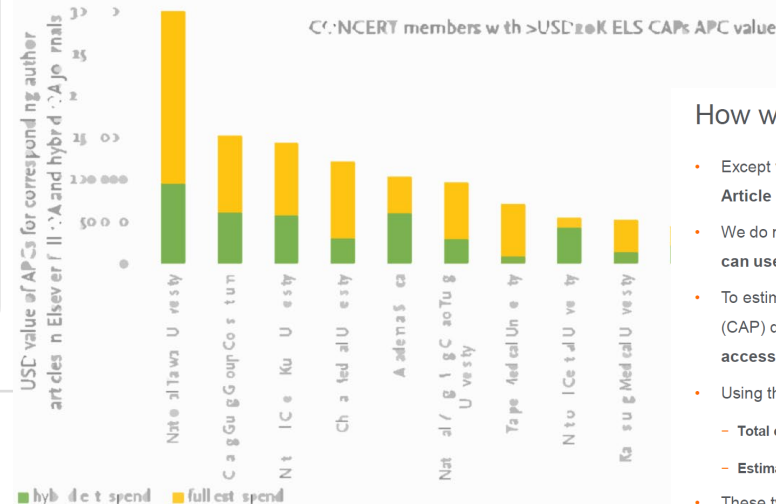
CONCERT 2021 estimated spend on APCs with Elsevier is USD

In 2021, we estimate the value of CONCERT members open access publications in Elsevier journals at around USD1.5M, with about USD1M on full OA APCs and about USD0.5M on hybrid OA APCs.

Over recent publication growth rates, 2017-2021 CAGR: 87% for full OA and 46% for hybrid OA. This is likely to increase significantly in the next few years.



Members with the highest estimated APC spend vary in research intensity, OA publication profiles, OA uptake, and OA growth



How we estimate CONCERT members spend on APCs

- Except when there is a special OA agreement in place, authors are responsible for paying Article Publishing Charges (APCs).
- We do not ask authors what the source of funds for their APC payment is. In many cases, authors can use external grant funding rather than institutional budgets to pay for APCs.
- To estimate the value of the 2021 APC spend, we use first the Corresponding Author Publications (CAP) data. We then refer to the 2021 APC list price of each journal, for articles published open access in full OA or hybrid OA journals.
- Using these data, we can calculate:
 - Total estimated APC spend for CONCERT and per member.
 - Estimated Weighted Average APC (WAAPC) for CONCERT and per member.
- These two data points have been added to the spreadsheet.



Members currently making their agreement choice (Nov 22)

- Members are currently making their choice of agreement type
- From January 1, 2023 authors affiliated to CONCERT members will be able to publish OA under our agreement

Two additional OA options to support CONCERT members OA ambitions



✓ APC Reduction of the institutional cost for the 19 CONCERT members

- a. APC Reduction of 15.5% in 2023, 2024 and 2025
- b. Public access in core journals & full OA journals publishing all items. The limit of items:
 - APC Reduction of 10% for subscribers with the agreement signed U.S.D 500K
 - APC Reduction of 12.5% for subscribers with the agreement signed U.S.D 500K
 - APC Reduction of 5.5% for subscribers with the agreement signed U.S.D 150

✓ Core Journals APC quota & APC Reduction in digital 1A, 2A, 3B

- a. APC quota in core journals & APC Reduction of 15% in 2023, 20% in 2024, 20% in 2025
- b. APC Reduction of 20% for digital 1A, 2A, 3B, 10.5% for digital 1B, 2A, 3B
- i. public access in core journals & limits of quota
- ii. public access in full OA journals publishing all items. The limit of items:
 - APC Reduction of 10% for subscribers with the agreement signed U.S.D 500K
 - APC Reduction of 12.5% for subscribers with the agreement signed U.S.D 500K
 - APC Reduction of 5.5% for subscribers with the agreement signed U.S.D 150

Options	Journal Length	Access
Member reduced APC of journal type 1A, 2A, 3B (subscriber)	1 year	Member can publish all items
Options covered by 1A, 2A, 3B (subscriber) full OA journal type 1A, 2A, 3B (subscriber)	1 year	100% item 1A, 2A, 3B
Option 1B & 3B	1 year	100% item 1B, 2A, 3B

Press Release

Elsevier and Consortium on Core Electronic Resources in Taiwan agree on subscription proposal with measures to support open access publishing for Taiwanese researchers

Elsevier is the first academic publisher to offer OA publishing support through the consortium in Taiwan

Elsevier and the Consortium on Core Electronic Resources in Taiwan (CONCERT) have agreed on a subscription proposal with measures to support open access publishing for Taiwanese researchers. This agreement is a significant step towards increasing the visibility and accessibility of research from Taiwan.

The agreement includes the following key features:

- APC Reduction:** A 15.5% reduction in APCs for 2023, 2024, and 2025.
- Public Access:** Full OA in core journals and full OA in journals publishing all items.
- APC Quota:** A 15% APC quota for digital 1A, 2A, 3B journals.
- APC Reduction in Digital Journals:** A 20% APC reduction for digital 1A, 2A, 3B journals and a 10.5% reduction for digital 1B, 2A, 3B journals.

These measures will significantly reduce the financial burden on researchers and institutions, thereby encouraging more open access publishing. Elsevier is proud to be the first academic publisher to offer such support through the consortium in Taiwan.

Thank you