



Society
for Scholarly
Publishing

Micro-Conference
with **THE SCHOLARLY**
kitchen



FRANKFURTER
BUCHMESSE



Session 1
Quick Bites with
The Scholarly Kitchen Chefs



Micro-Conference with **THE SCHOLARLY kitchen**

Session 1 Quick Bites with *The Scholarly Kitchen Chefs*



David Crotty

Senior Consultant
Clarke & Esposito



Hong Zhou

Director of AI
Products
Wiley



Charlie Rapple

Co-Founder
Kudos



Tim Vines

Founder and CEO
DataSeer



Micro-Conference with **THE SCHOLARLY kitchen**

Insights from the Journals Market Trends Report



David Crotty

Senior Consultant
Clarke & Esposito
& TSK Editor-in-Chief



Scholarly Journals Market Trends 2024

<https://www.ce-strategy.com/reports/scholarly-journals-market-trends-2024/>

Published August 2024

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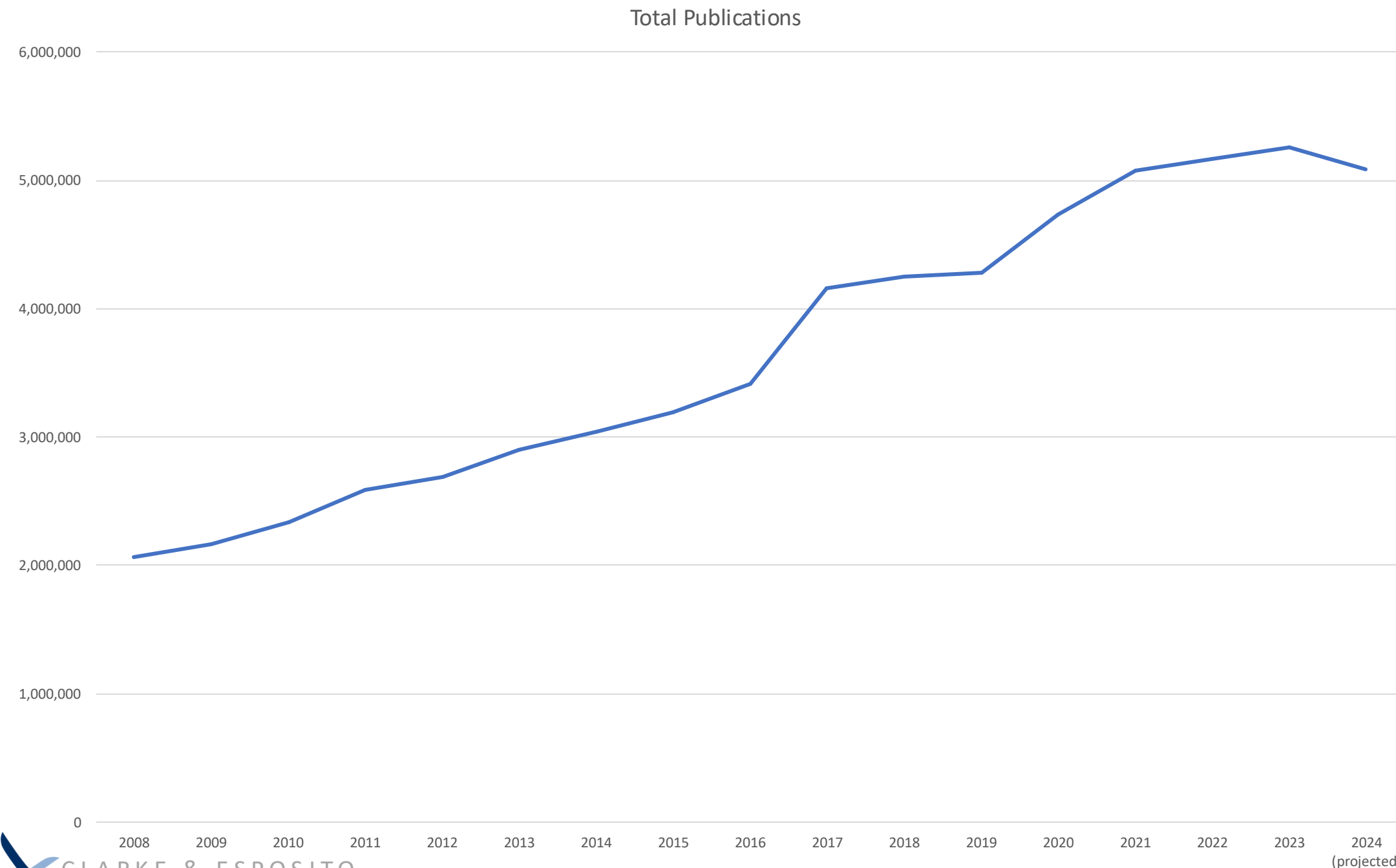
Variability, Irregular Publisher Metadata, and the Ongoing Evolution of Databases Complicates Reproducibility in Bibliometrics Research

By [DAVID CROTTY](#) | [AUG 15, 2024](#) | [5 COMMENTS](#)

[DATA PUBLISHING](#) | [METRICS AND ANALYTICS](#) | [RESEARCH](#) | [RESEARCH INTEGRITY](#) | [TECHNOLOGY](#) | [TOOLS](#)

Total Publication Volume Projects to Decline in 2024

At current rates, publication volume will decline by 3.2% YOY from 2023 to 2024 (about 167,000 fewer articles). This will be the lowest total volume since 2021.

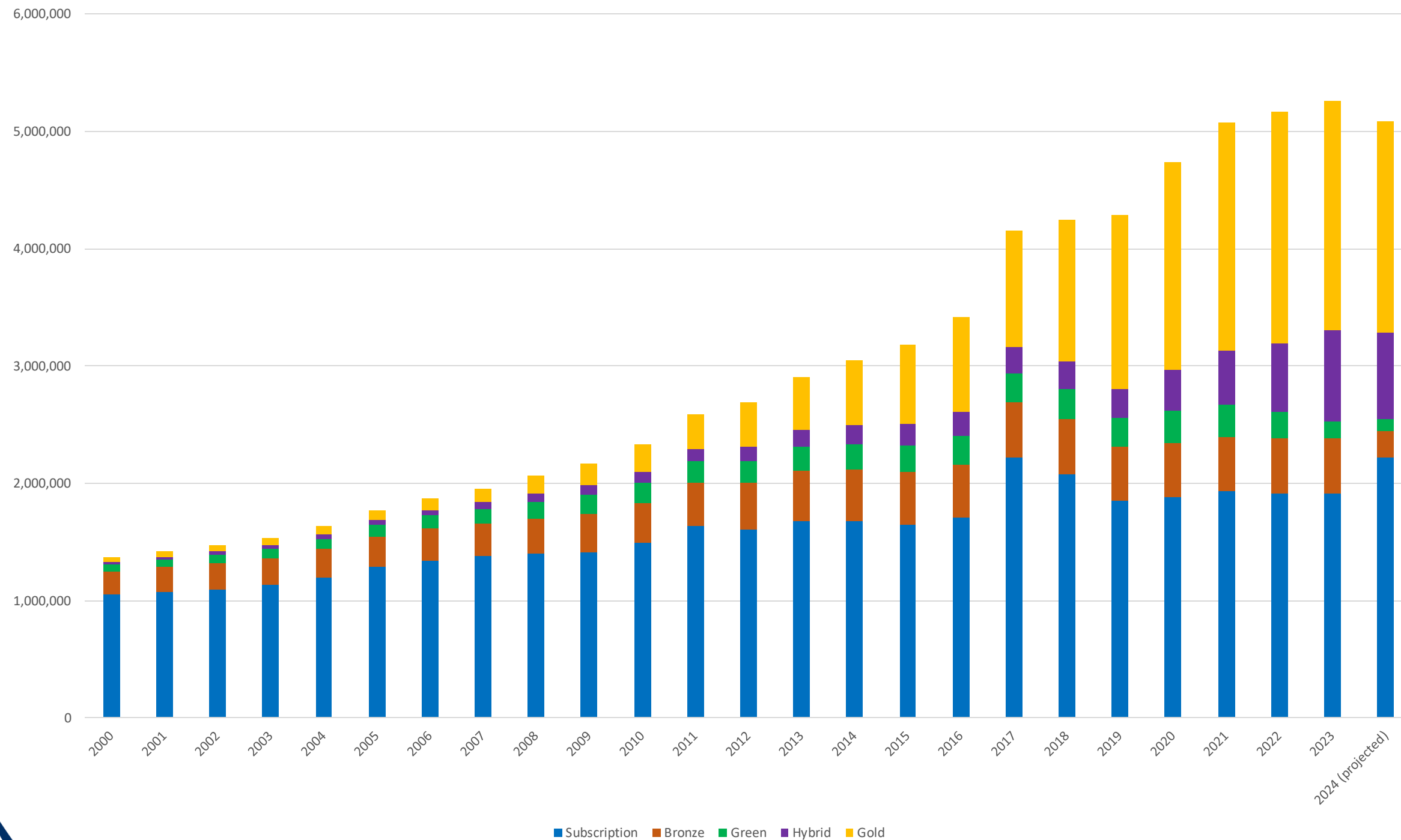


Source: Dimensions, results filtered to exclude non-journal article content (see full report for details). Data through August 31, 2024, collected October 1, 2024.

Gold OA has plateaued, Hybrid is on the Rise

Subscription remains a steady business, while OA has been the engine for growth in the market. But how that growth is happening is changing.

Numbers of journal articles published, by business model, 2000–2024

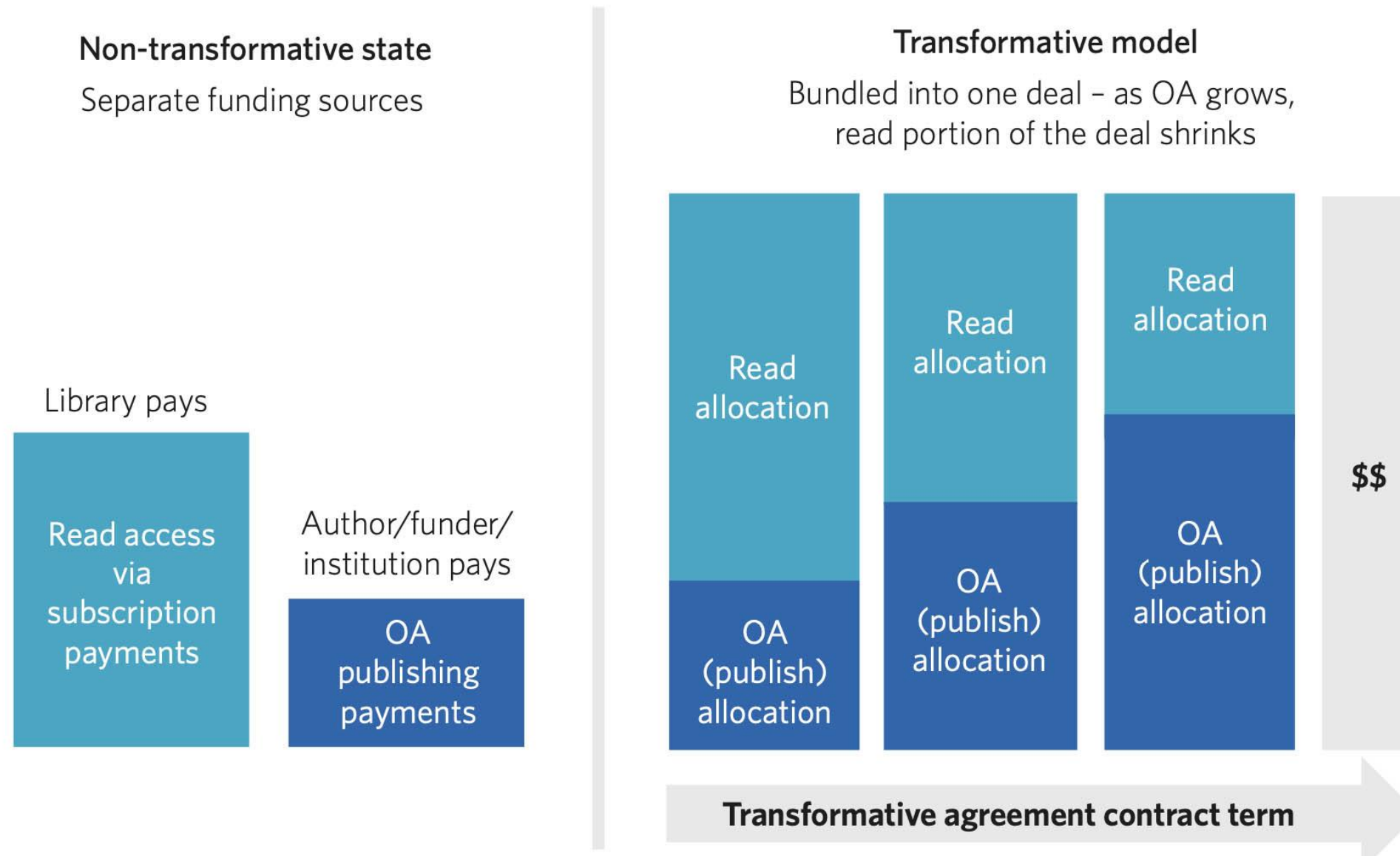


Source: Dimensions, results filtered to exclude non-journal article content, article classifications as per Dimensions (see full report for details). Data through August 31, 2024, collected October 1, 2024.

Transformative Agreements

Transformative agreements bundle payment to the publisher for read access to subscription content and payment for OA publishing for authors into a single contract.

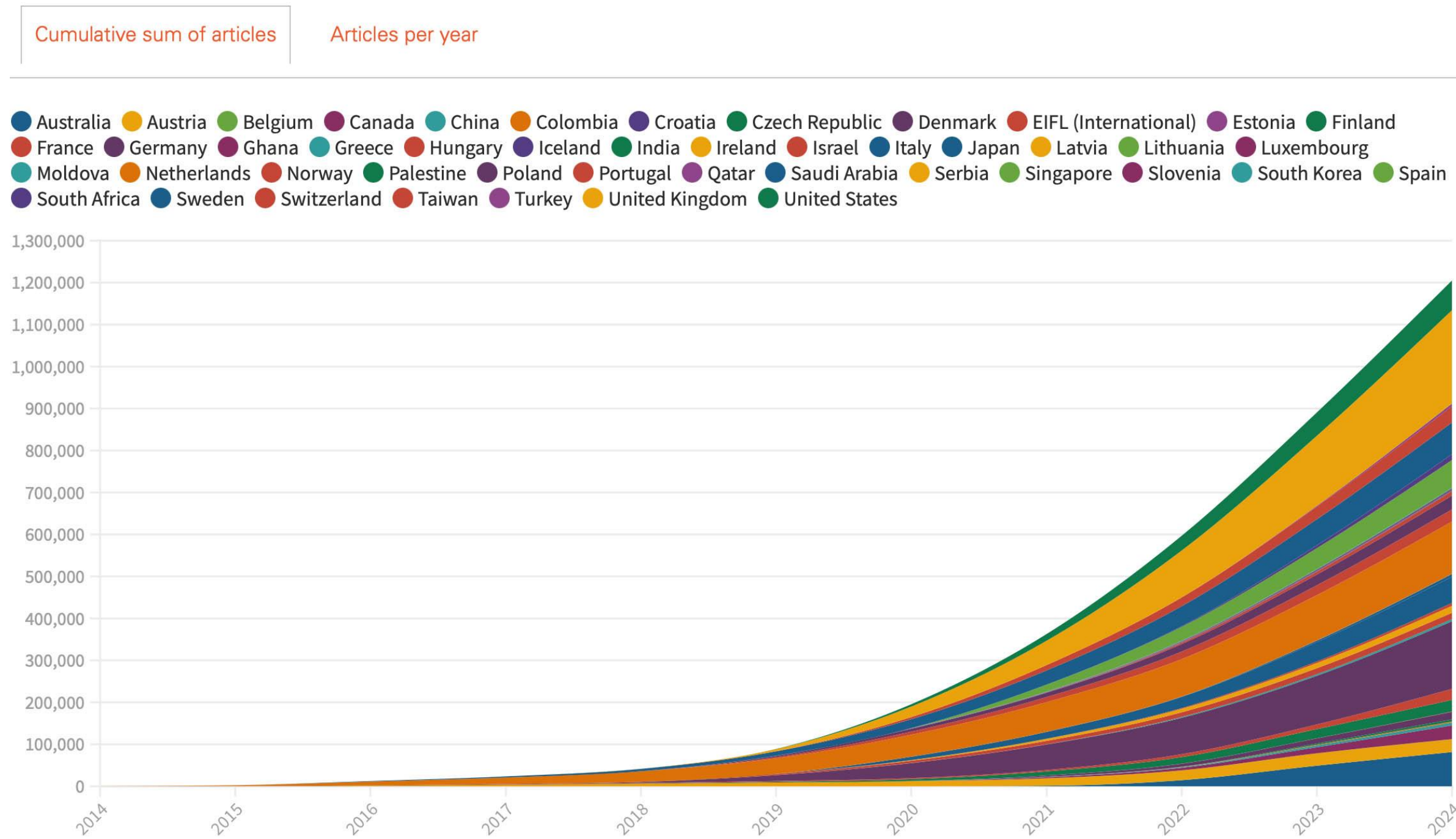
FIGURE 15 Transformative agreements versus traditional subscription model



Abbreviation: OA, open access.

Transformative Agreements

While still centered in Europe, transformative agreements are spreading widely and are becoming a competitive advantage for publishers and journals that have them.



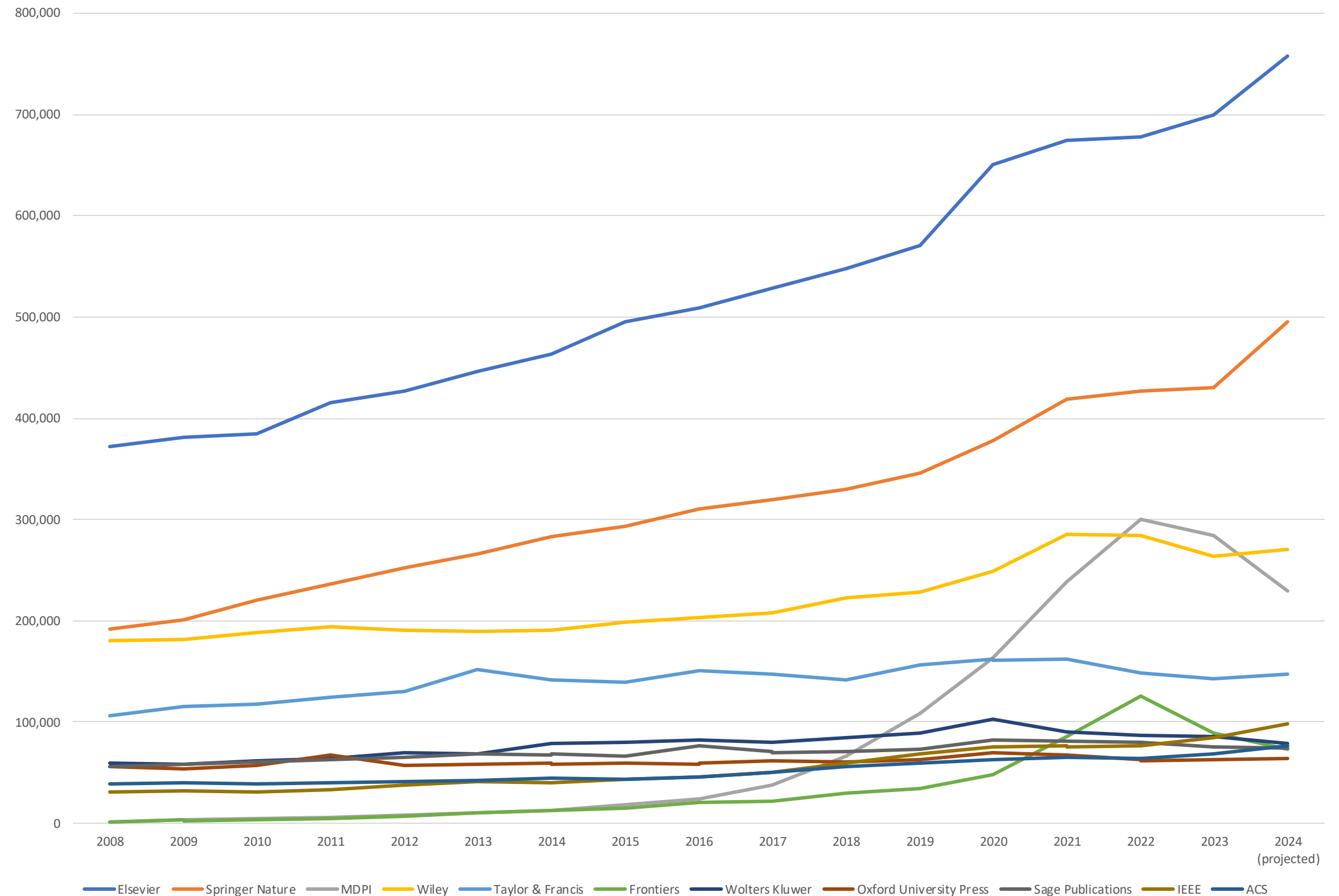
Source: Adapted from ESAC Transformative Agreement Registry: <https://esac-initiative.org/market-watch/#TAs>. Data updated as of July 11, 2024.

Largest Publishers

This chart shows the largest publishers by article output over the last decade plus.

Notable highlights include the continued growth of Elsevier and Springer Nature, the relatively flat outputs of Wiley and T&F, and the rapid growth of Frontiers and MDPI.

Largest Publishers by Volume 2008 - 2024



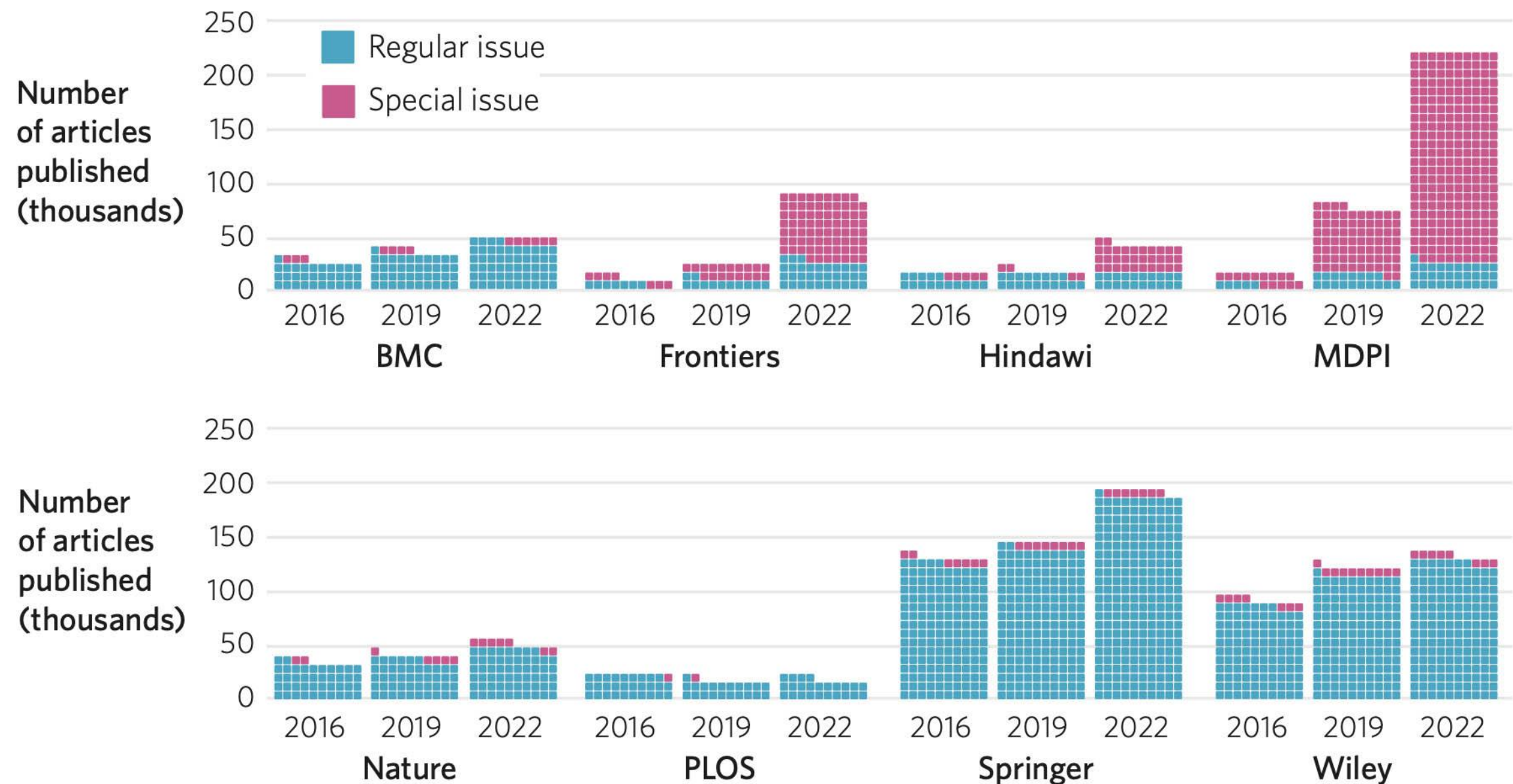
Source: Dimensions, results filtered to exclude non-journal article content (see full report for details). Data through August 31, 2024, collected October 1, 2024.

Growth Through “Special Issues” Comes With Risk

Much of the growth of Hindawi, MDPI, and Frontiers can be attributed to guest-edited special issues.

This approach supercharged growth, but the quality control risks associated with guest editors were a ticking time bomb.

FIGURE 23 Number of articles published in regular versus special issues across major publishers, 2016-2022

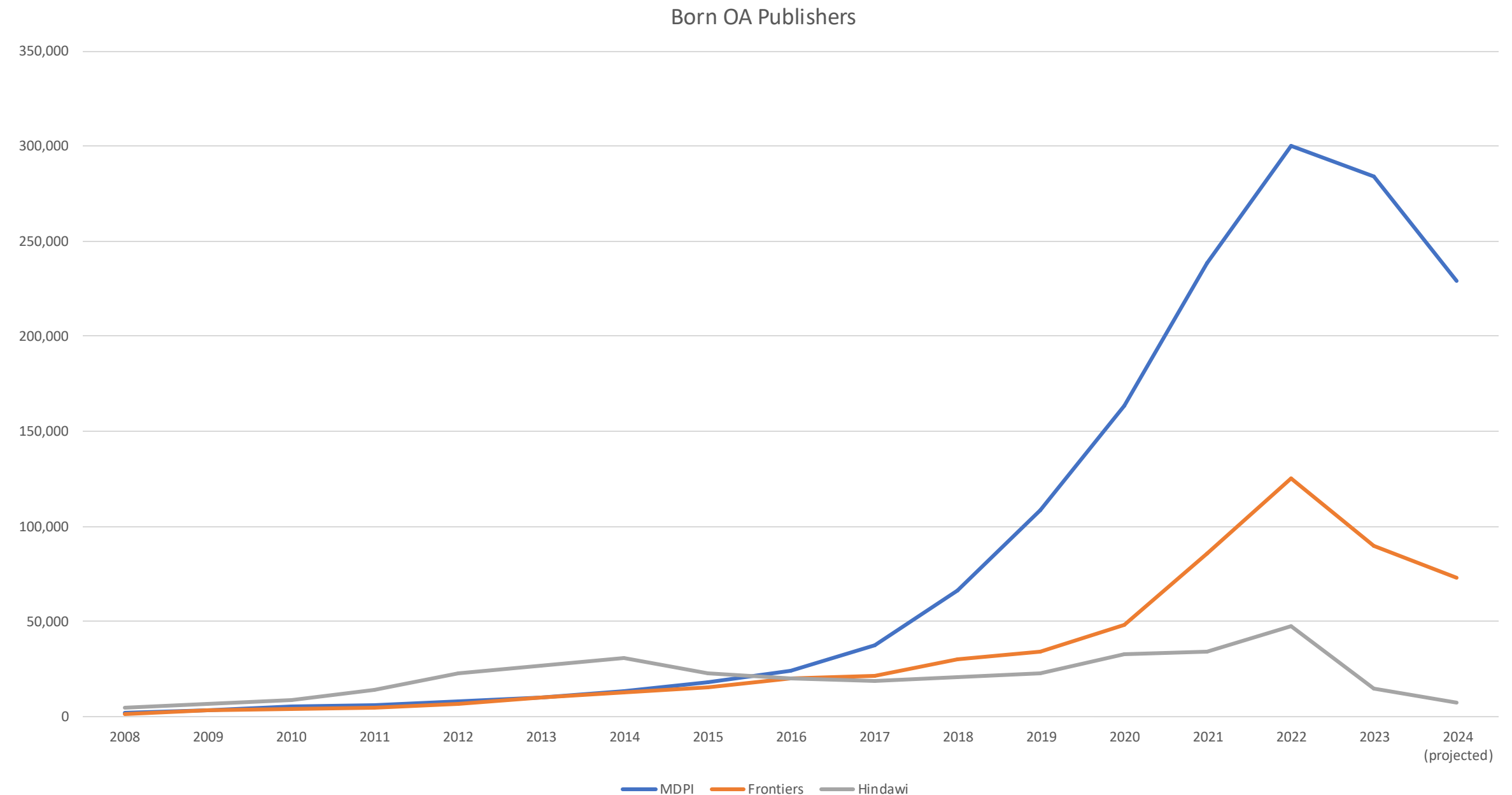


Source: Adapted from Hanson MA, Gomez Barreiro P, Crosetto P, Brockington D. The Strain on Scientific Publishing. September 27, 2023. *arXiv*. <https://doi.org/10.48550/arXiv.2309.15884>. Used under CC BY license. Each square represents 800 articles.

OA at Scale: Born OA Publishers Exhibit Rapid Growth ... and Rapid Retrenchment

MDPI and Frontiers rapidly became the 3rd and the 6th largest publishers in the market using a special issue strategy to boost article submissions.

It worked until widespread paper mill fraud was discovered at Hindawi.

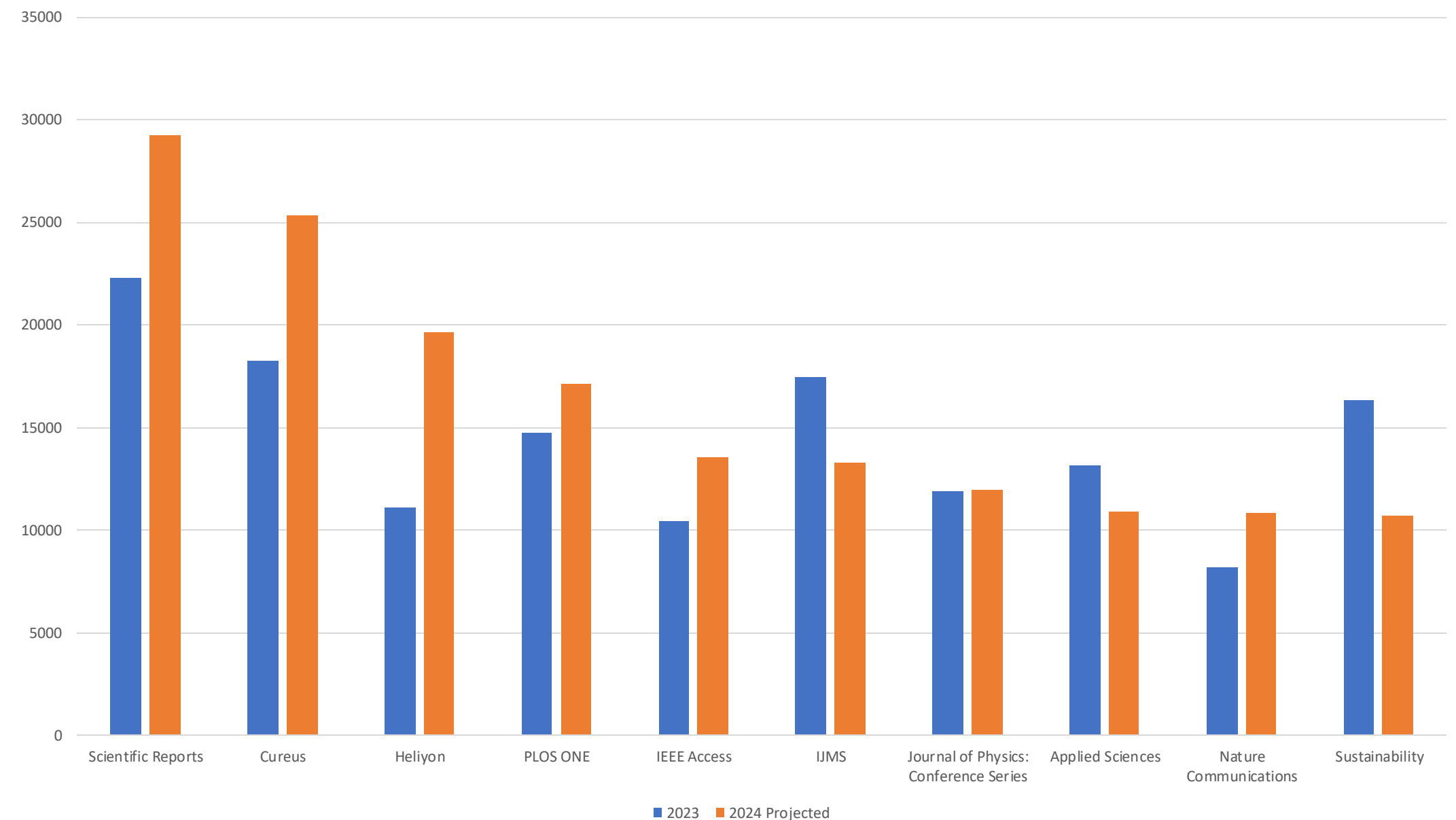


Source: Dimensions, results filtered to exclude non-journal article content (see full report for details). Data through August 31, 2024, collected October 1, 2024.

Megajournal Publication is Shifting

As the largest MDPI and Frontiers journals have slowed in their output, authors are instead moving to megajournals from predominantly Springer Nature and Elsevier

Projected Change in Article Volume 2023--2024
Ten Largest Journals



Source: Dimensions, results filtered to exclude non-journal article content (see full report for details). Data through August 31, 2024, collected October 1, 2024.

Takeaways

Journal article publication volume in 2024 is projected to **decline** for the first time in decades.

Gold OA has been the engine of growth, but is currently plateauing, and authors are increasingly favoring **Hybrid** journals for their OA papers, largely driven by growth in **Transformative Agreements**.

Research integrity issues have slowed (if not put an end to) the use of **Special Issues** as a rapid growth strategy, particularly impacting **MDPI** and **Frontiers**.

The two largest commercial publishers, **Elsevier** and **Springer Nature**, continue to outperform the rest of the industry in growing market share – as measured by published articles, suggesting further market consolidation.

More Information

For more information about C&E's *Scholarly Journals Market Trends 2024* report, or other reports from C&E, please visit: www.ce-strategy.com/reports

If you would like to consider C&E for a board presentation or other consulting engagement, please contact us at info@ce-strategy.com or learn more on our website www.ce-strategy.com.





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AI Impact for Information Discovery



Hong Zhou
Director of AI Products
Wiley

WILEY

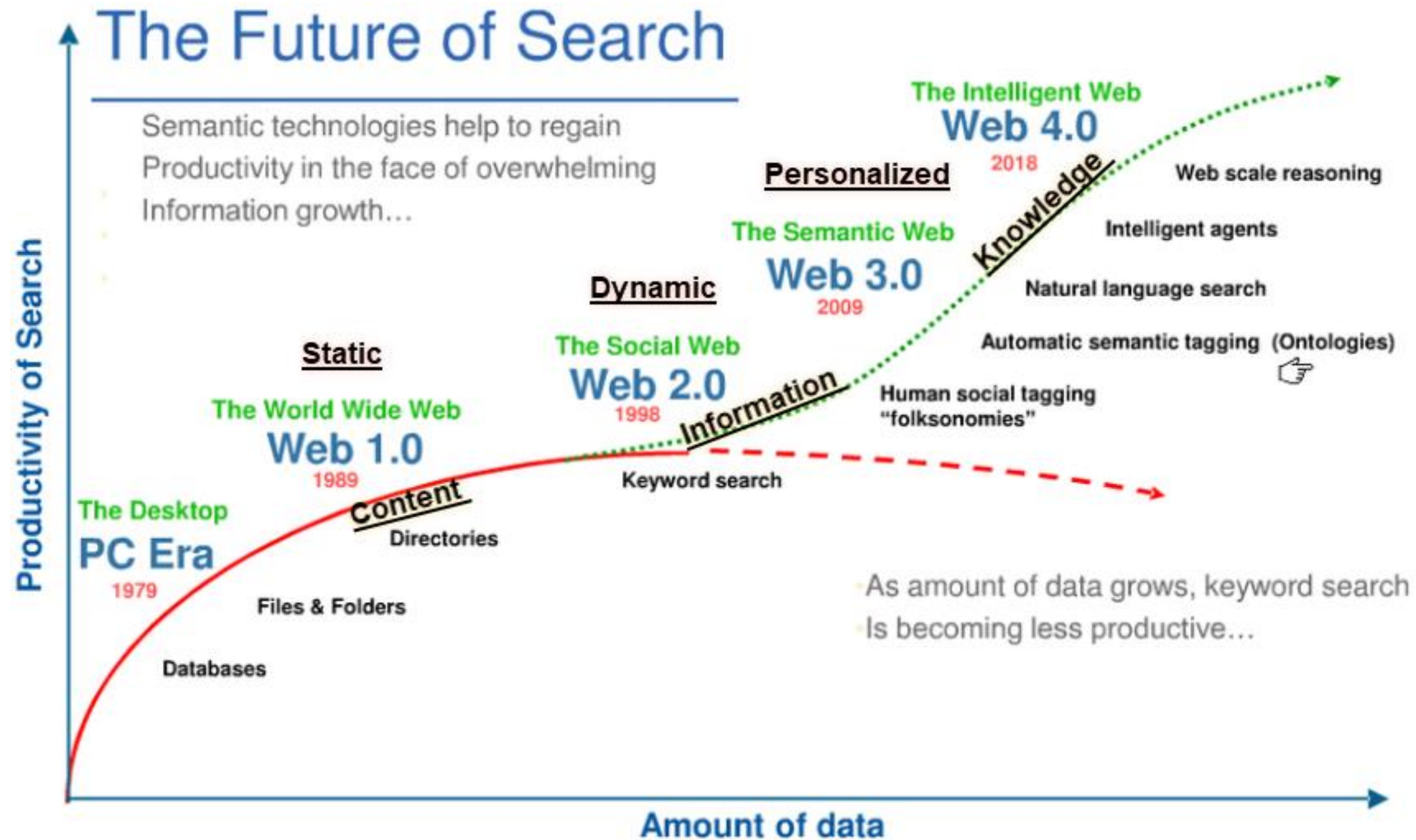
ENABLING DISCOVERY | POWERING EDUCATION | SHAPING WORKFORCES

AI Impact for Information Discovery

From gathering information to applying knowledge

Dr. Hong Zhou
Director of AI Products, Wiley

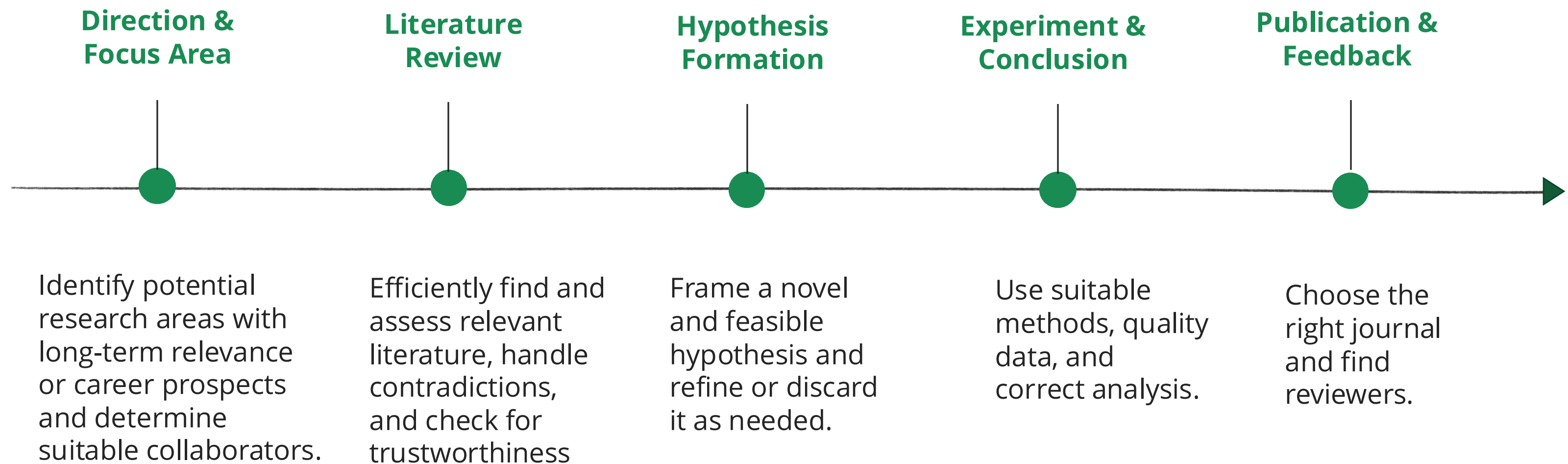
Information Discovery Movement



Information Discovery on the Research Journey



Research Journey: Identifying research areas, reviewing literature, forming hypotheses, conducting experiments, and seeking publication and feedback.



Information Discovery on the Publishing Journey

Publishing Journey: Authoring the work, submitting for review, publishing, and disseminating the content to the right audience



Addressing Challenges Head-On

Identifying the challenges is the first step toward crafting effective solutions. Ongoing discussions reveal these areas as both major uncertainties and significant opportunities.

Information Overload

The Challenge

Researchers: Struggle with vast amounts of data

Publishers: Need to manage and present large volumes of content



Solutions Needed

Researchers: AI tools find relevant information and answers

Publishers: AI-driven content management systems enhance discoverability

Data Accessibility

The Challenge

Researchers: Difficulty in locating pertinent information

Publishers: Enhancing discovery experience on the platform



Solutions Needed

Researchers: Advanced search functionalities improve data accessibility

Publishers: AI-powered search tools enhance user experience

Stay Current

The Challenge

Researchers: Challenge in keeping up with new information

Publishers: Need to provide up-to-date content



Solutions Needed

Researchers: Access to real-time updates and alerts keep researchers informed

Publishers: Access to automated content updates ensures timely information

Reliable Sources

The Challenge

Researchers: Ensuring the reliability of information sources

Publishers: Filtering out improper content



Solutions Needed

Researchers: Access to curated databases provides trustworthy information

Publishers: AI-driven content moderation and assessment ensures quality

AI-Powered Tools in the Publishing Workflow

Authoring

Submission & Review

Production

Publishing

Discovery & Dissemination



Evolution of Scholarly Discovery Applications

In the evolving landscape of scholarly research, traditional search methods have transformed into advanced AI-powered tools, offering more personalized and interactive experiences. This shift, driven by Generative AI (GAI), enhances data accessibility, discoverability, and user engagement for both researchers and publishers.

From Traditional Search to AI-Powered Discovery

Before GAI: Traditional Scholarly Search Applications

Publishers' Own Platforms

Traditional search engines on publishers' websites

Example: Wiley Online Library, NEJM, ACM

Bibliography Database

Comprehensive coverage with robust search functionality.

Example: Scopus, Web of Science, Dimensions

Content Aggregators

Indexes academic papers from multiple sources

Example: Semantic Scholar, PubMed, Crossref

Public Search Engines

General search engines with academic content

Example, Google Scholar, Baidu Scholar

In the Era of GAI: Advanced Scholarly Discovery Applications

Bibliography Database

AI-powered tools providing interactive search experiences

Example: Scopus AI, Dimensions Assistant

Conversational Discovery

Search engines built specifically with GAI capabilities

Example: ChatGPT, Google Gemini, New Bing, Perplexity.ai

Commercial & Research-Facing Search Engines

Enhance information discovery leveraging advanced LLMs

Example: Elicit, Scite, SciSpace, Consensus

From Keyword-Based Discovery to Natural Language Q&A

WILEY Online Library ATYPON water pollution effect Login / Register

372 results for "water pollution effect" anywhere

Articles & Chapters (372) Collections (17)

Filters

- Publication Type: Journals (345), Books (23), Reference works (4)
- Publication Date: Last 3 Months (2), Last 6 Months (2), Last 12 Months (9), Last 2 Years (13), Last 5 Years (36)
- Access Status: Open Access Content (11)
- Subjects: ACCOUNTING (2), AGRICULTURE (71), ANTHROPOLOGY (7), AQUACULTURE, FISHERIES & FISH SCIENCE (1), ARCHAEOLOGY (3)
- Published in: Journal of Chemical Technology & Biotechnology (54), Irrigation and Drainage (52), Journal AWWA (15), Geophysical Monograph Series (14), The Canadian Journal of Chemical Engineering (14)

Sorted by: Relevance

Export Citation(s)

chapter

An Overview of Silica Dust Pollution and Controls

Haiying Qi, Changfu You, Yingjie Bao

Characterization & Control of Interfaces for High Quality Advanced Materials, Volume 146

First published: 01 March 2006

OpenURL

Summary

Research Article

EFFECT OF SRI WATER MANAGEMENT ON WATER QUALITY AND GREENHOUSE GAS EMISSIONS IN KOREA

Joongdae Choi, Guryeob Kim, Woonji Park, Minhwan Shin, Yonghun Choi, Sulin Lee, Sunjoo Kim, Dongkoun Yun

Irrigation and Drainage | Volume 63, Issue 2

First published: 18 March 2014

OpenURL

Collections: First World Irrigation Forum

Abstract

Research Article

Effect of System of Rice Intensification on Water Productivity and NPS Pollution Discharge

Woonji Park, Jiyeon Seo, Yonghun Choi, Guryeob Kim, Dongkoun Yun, Wngu Jeong, Sulin Lee

Irrigation and Drainage | Volume 65, Issue 52

First published: 28 October 2016

OpenURL

Collections: Special Issue with Selected Papers of the ICID Gwangju Congress by Korean Authors. Guest Editors: Joongdae Choi, Jiusheng Li and Bart Schultz. Publication of this supplement was supported by Korean National Committee of ICID (KCID).

Abstract

Research Article

INTEGRATED IRRIGATION AND DRAINAGE PRACTICES TO ENHANCE WATER PRODUCTIVITY AND REDUCE POLLUTION IN A RICE PRODUCTION SYSTEM

Shizhang Peng, Yufeng Luo, Junzeng Xu, Shahbaz Khan, Xiyun Jiao, Weiguang Wang

Irrigation and Drainage | Volume 61, Issue 3



WILEY Online Library Working off-campus? Learn about our remote access options

How water pollution affec... John Doe

AI Discovery Assistant

How water pollution affects human health?

Generated answer

Water pollution has a significant impact on human health, with a wide range of diseases and health issues being linked to poor water quality [1]. The release of untreated industrial and municipal wastewater into the environment is a major contributor to this problem, particularly in less developed countries [2]. The presence of chemicals, solid waste, pathogens, and disease vectors in polluted water bodies further exacerbates the health risks [3]. Specific diseases such as typhoid, cholera, and hepatitis are known to be spread through contaminated water [4]. To mitigate these health impacts, it is crucial for governments to implement effective water intervention management and for individuals to regularly monitor and treat their water sources. [5]

Change variants

Reference [1]

Article Open access

Health affects of water pollution

Health Affairs September 4, 2018

Prof. (Dr.) P. S. Kamble, Mr. Amol Chandrakant Kamble

https://doi.org/10.1377/hlthaff.2018.0942

Subjects

TopicName TopicName TopicName

Abstract

Vulnerable communities have been forced to address the deepening impact of severe weather events on residents' well-being.

Open paper

4,979,823 related results for "How water pollution affects human health?"

EXPORT

All related results Articles and Chapters (4,757,823) Publications (222)

Sorted by: Relevance

Export Citation(s)

Publication Type

- Journal 4,425,164
- Books 277,892
- Reference works 52,455

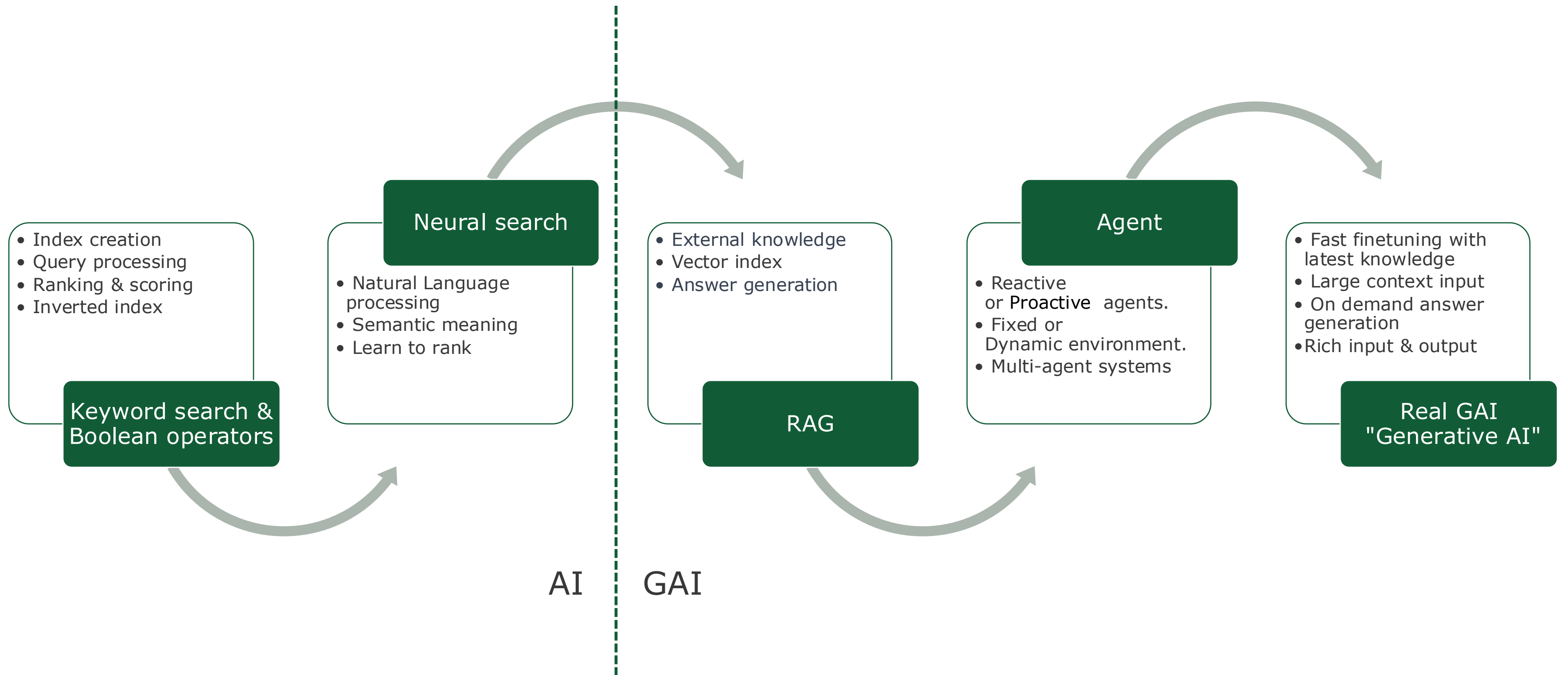
Article Open access

Health affects of water pollution

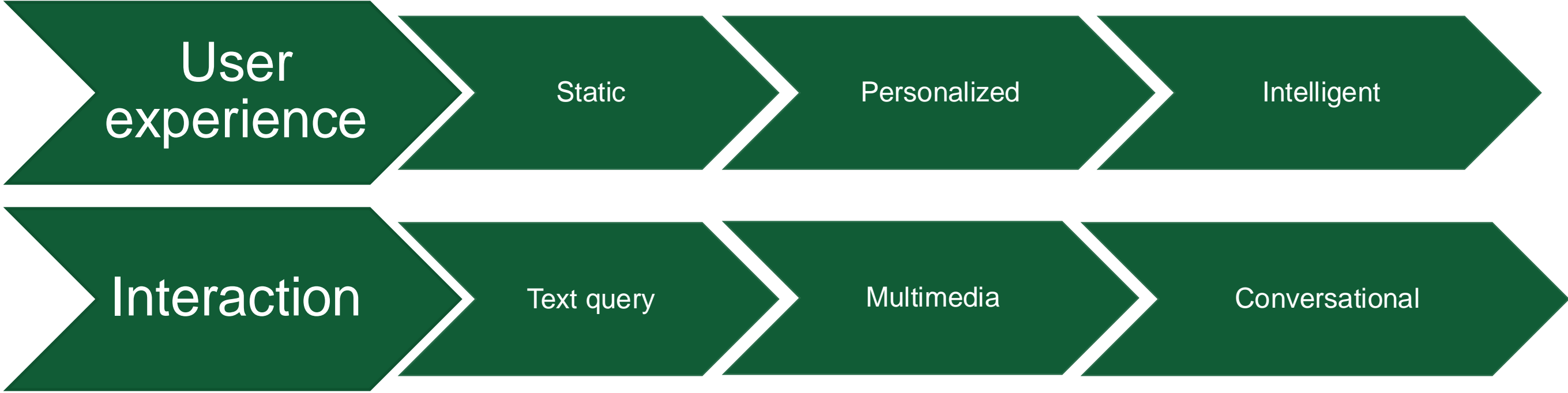
Prof. (Dr.) P. S. Kamble, Mr. Amol Chandrakant Kamble

From many individual results to one referenced & synthesized answer

Discovery Solution Changes



Discovery Methodology Changes



Discovery Goal Changes



Future Thoughts

Shape the Future of Information Discovery

- ✓ Richer information discovery with multimodal LLMs
- ✓ Deeper information discovery with reasoning LLMs
- ✓ Personalized and Wider information discovery with RAG
- ✓ More intelligent information discovery with Agent

WILEY



Questions?

Thank you!

[Hong's Posts in the Scholarly Kitchen](#)



Scholarly Publishing and the Sustainable Development Goals: What You Need To Know



Charlie Rapple
Co-Founder
Kudos

Scholarly publishing and the Sustainable Development Goals

What You Need To Know

Charlie Rapple | Co-Founder | Kudos

@growkudos

 **Kudos**
Science needs Stories

Scholarly Publishing and the SDGs: What You Need To Know



Whether or not we believe the Goals are achievable, we all believe in the importance of ending poverty and inequality, protecting the planet, and ensuring that all people enjoy health, justice and prosperity.

@growkudos

 **Kudos**
Science needs Stories

Scholarly Publishing and the SDGs: What You Need To Know

Real World Research study

Insights to help publishers develop strategy and identify opportunities around SDGs / global challenges

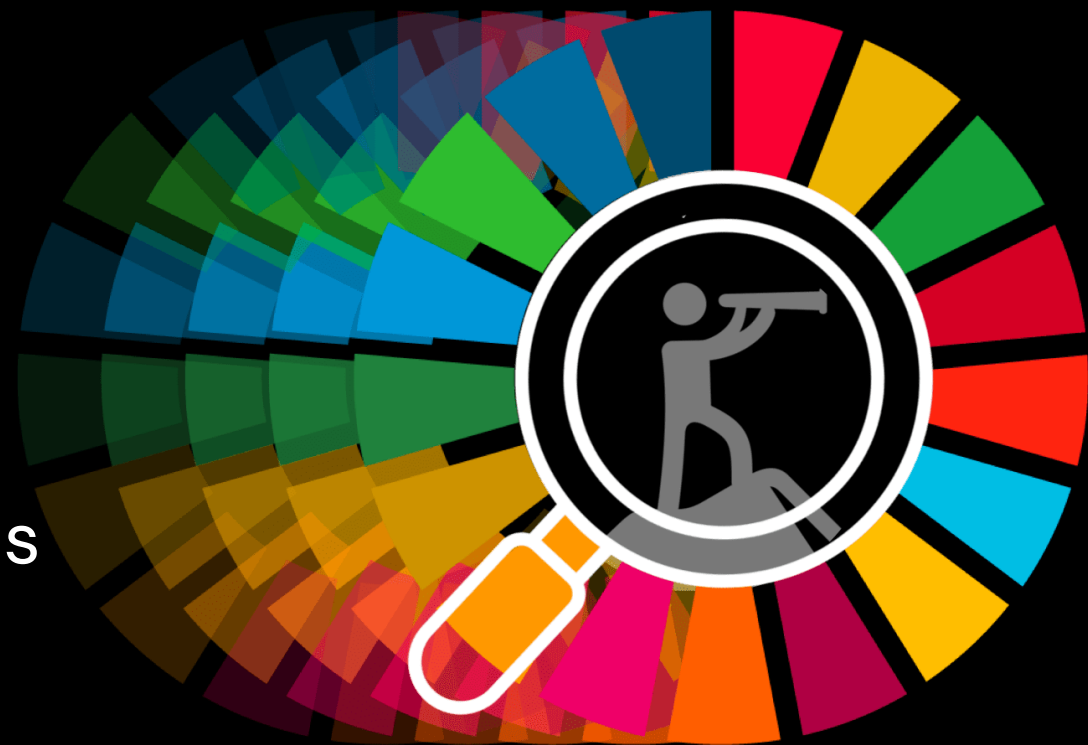
Survey of 4,670 researchers

Teleinterviews

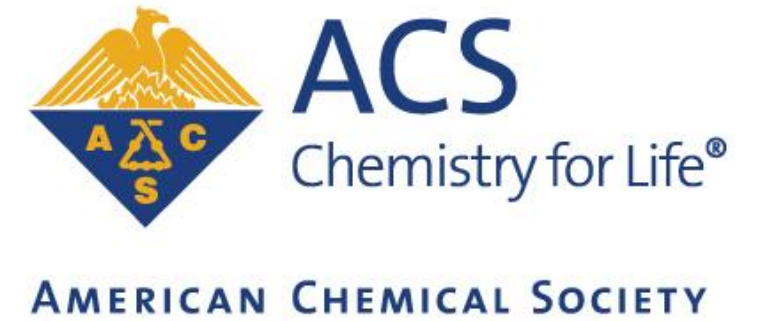
Desk research

Expert analysis

Executive summary with recommendations for publishers / the scholarly communication sector



Sponsored by:



WILEY

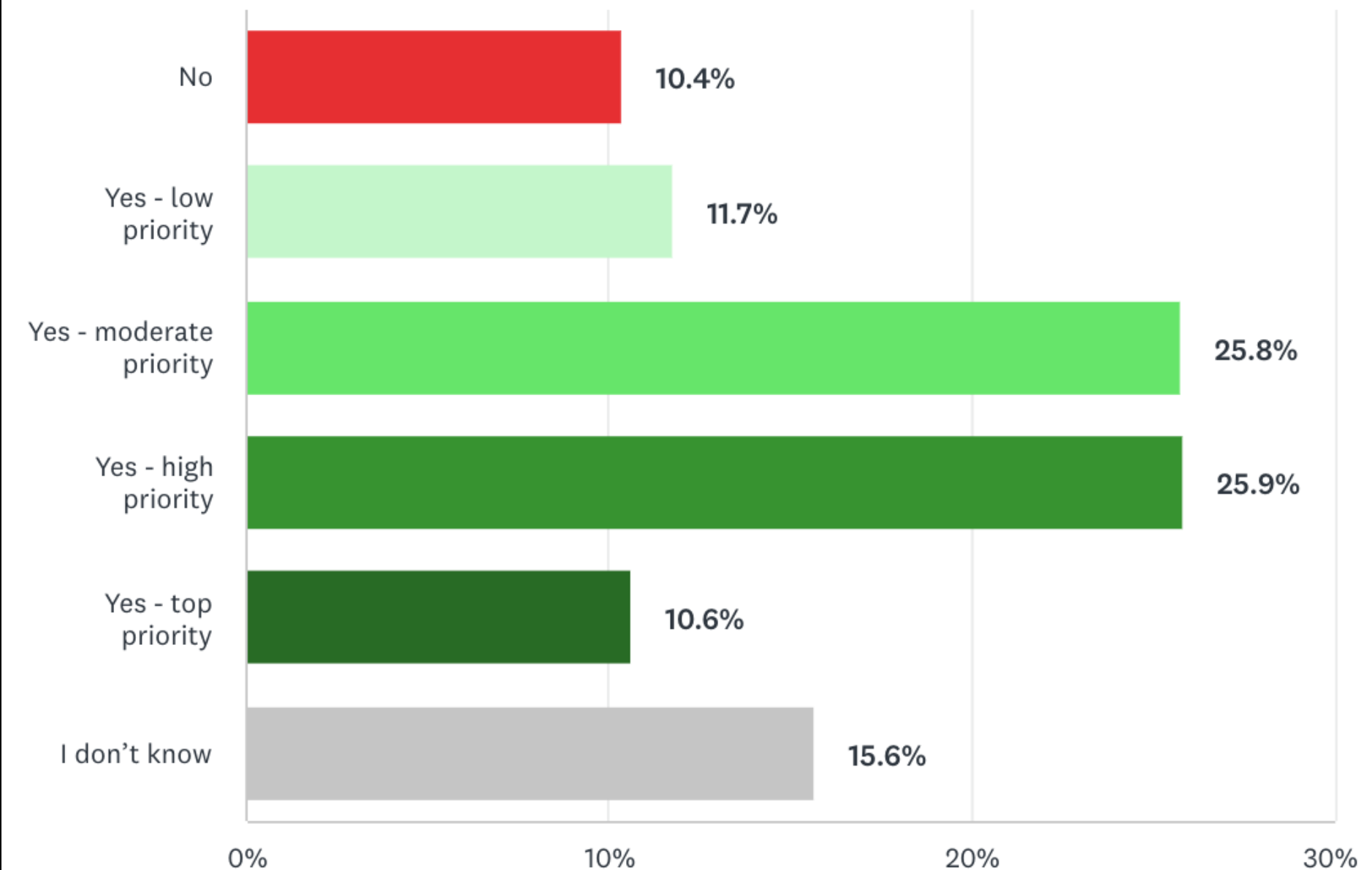


Scholarly Publishing and the SDGs: What You Need To Know

Researchers think the SDGs should be shaping how funding is allocated – almost three quarters of respondents (74.0%, $n = 4,250$) consider that the SDGs should be a factor in how research funding is allocated.

Do you think the SDGs should be a factor in how research funding is allocated?

Answered: 4,250 Skipped: 420

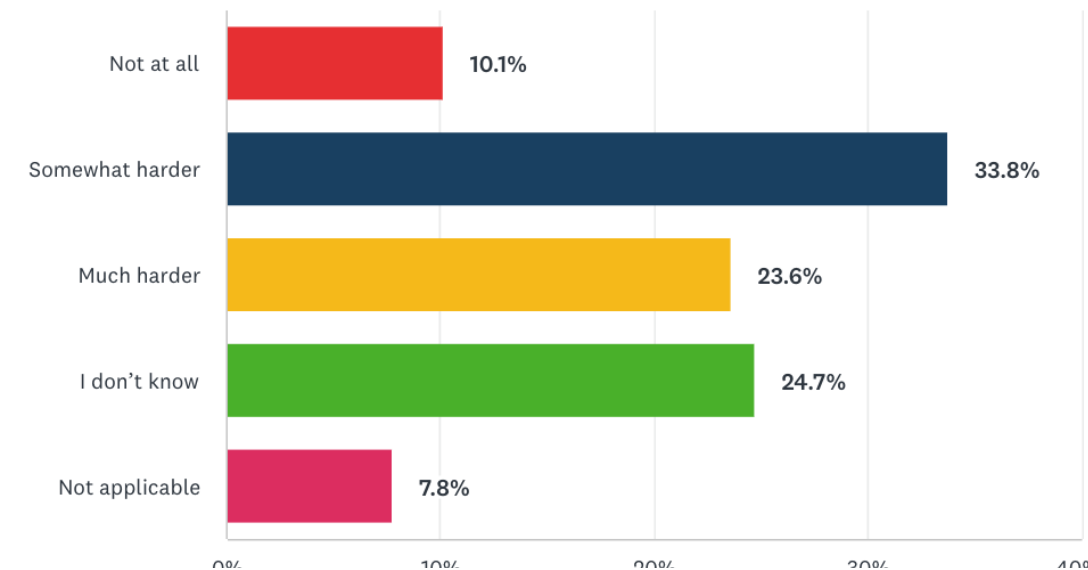


Scholarly Publishing and the SDGs: What You Need To Know

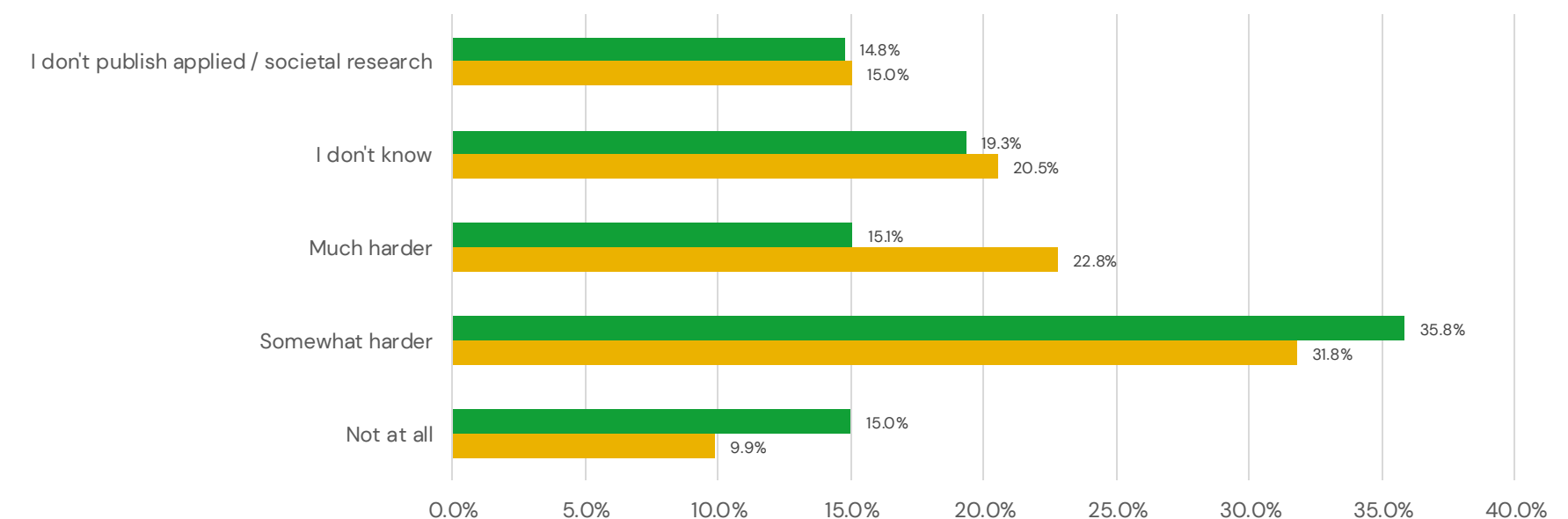
Delivering the SDGs requires applied research or research with a strong focus on societal impact. In both cases, researchers find it harder to get this kind of research funded and published, particularly with respect to publishing in "prestigious" journals.

Is it harder to get more applied / societal research funded?

Answered: 4,250 Skipped: 420



Is it harder to get more applied / societal research published (a) at all or (b) in more prestigious titles?
n = 3,750



■ Harder to get published

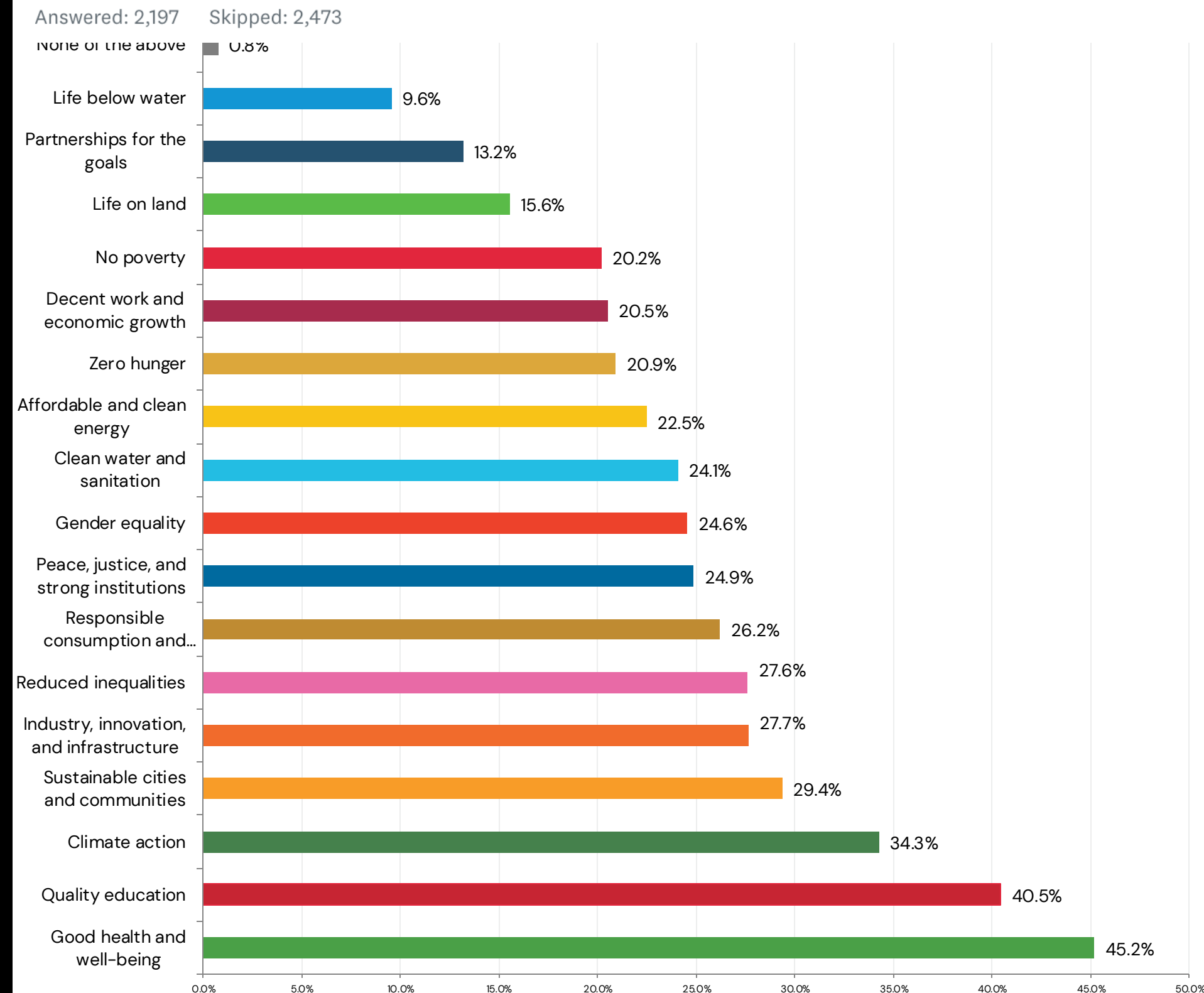
■ Harder to get published in more prestigious titles



Scholarly Publishing and the SDGs: What You Need To Know

Different regions have different priorities: Respondents in Africa were much more likely to select Zero Hunger as one of the SDGs shaping their research. Reduced Inequalities was more likely to be selected by researchers in Australasia. Respondents in Asia and the Middle East were more likely to select Industry, Innovation and Infrastructure.

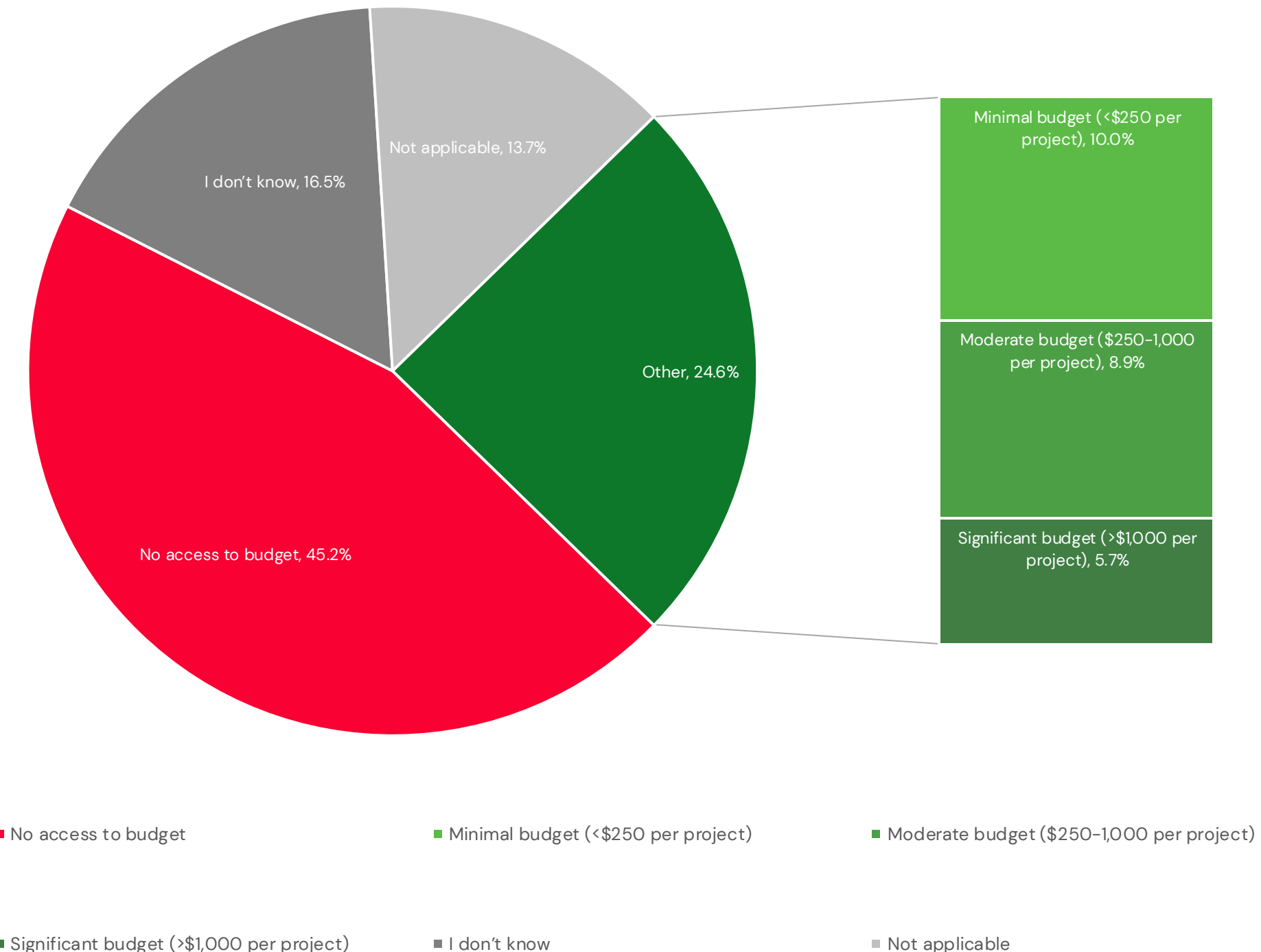
Which aspects of sustainability are the most important to you, in terms of shaping your own research activities? Select all that apply



Scholarly Publishing and the SDGs: What You Need To Know

Budget for promoting SDG publications: 5.7% of the survey's respondents indicated they had access to significant budget for promoting their research i.e. over US \$1,000 per project.

Are you able to access budget to promote / improve the impact of your SDG-related publications?
n = 4,250

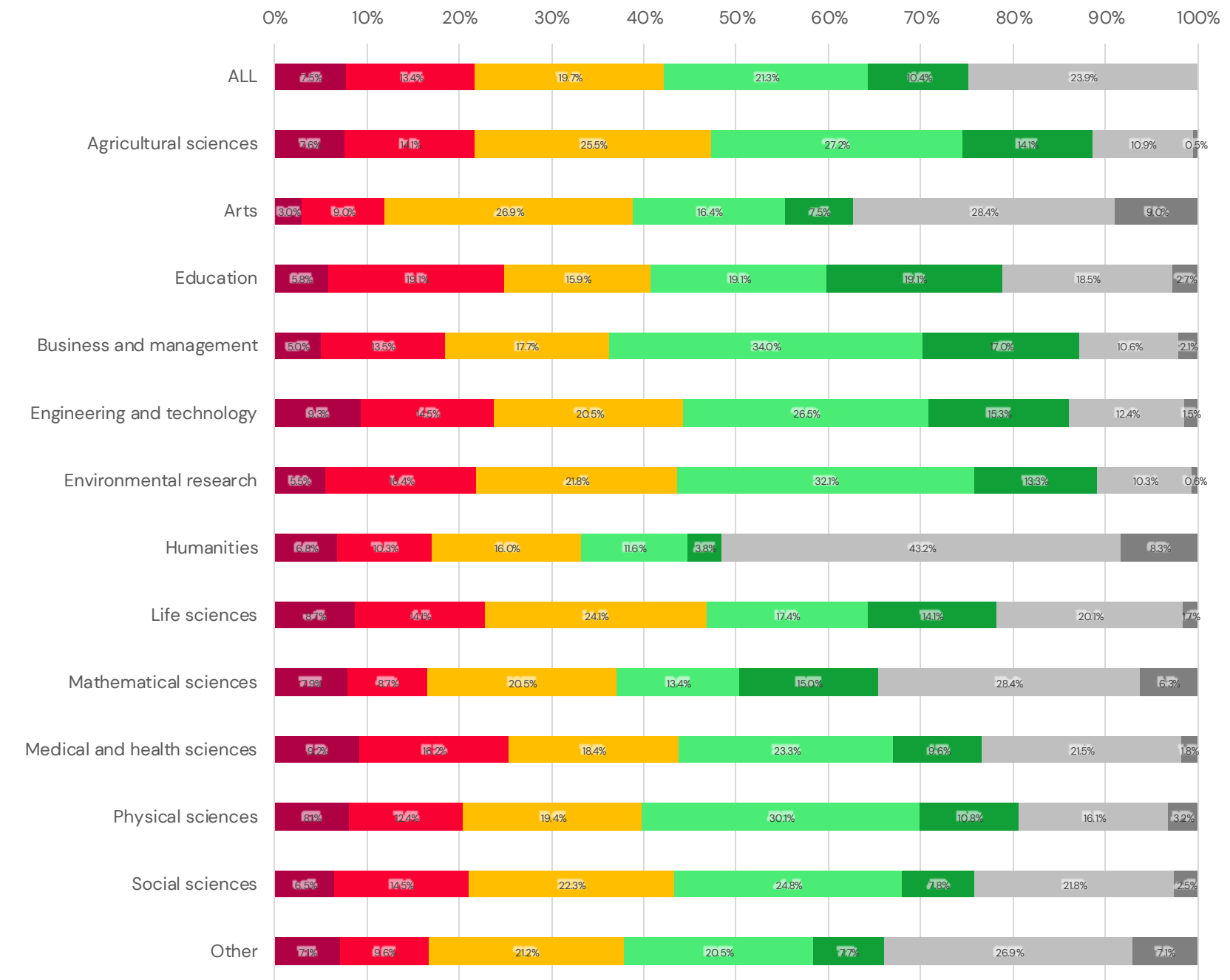


Scholarly Publishing and the SDGs: What You Need To Know

Effectiveness of journals:
Respondents in Business and Management and Environmental Research were most likely to say that journals are effective at addressing and promoting SDG-related research. Respondents in Education and in Medical and Health Sciences were most likely to say that journals are ineffective

How effective do you think current journals are in addressing and promoting SDG-related research?

Answered: 3,740 Skipped: 930



Very ineffective Somewhat ineffective Neutral Somewhat effective Very effective I don't know Not applicable

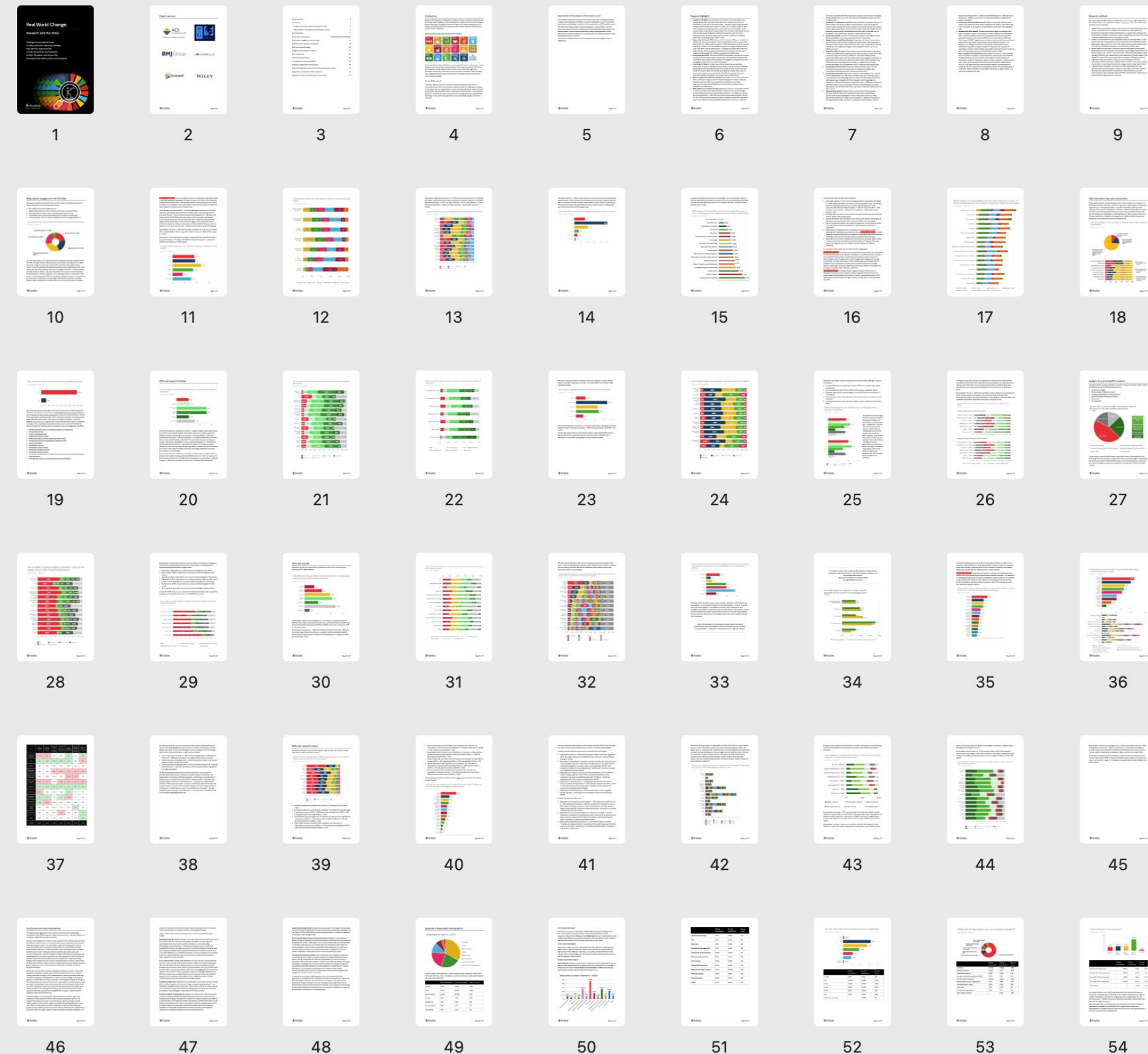


Scholarly Publishing and the SDGs: What You Need To Know

Visit stand **G70**
or email me

charlie@growkudos.com

to buy the full research findings including expert analysis and strategic recommendations for publishers and others in the scholarly communication sector



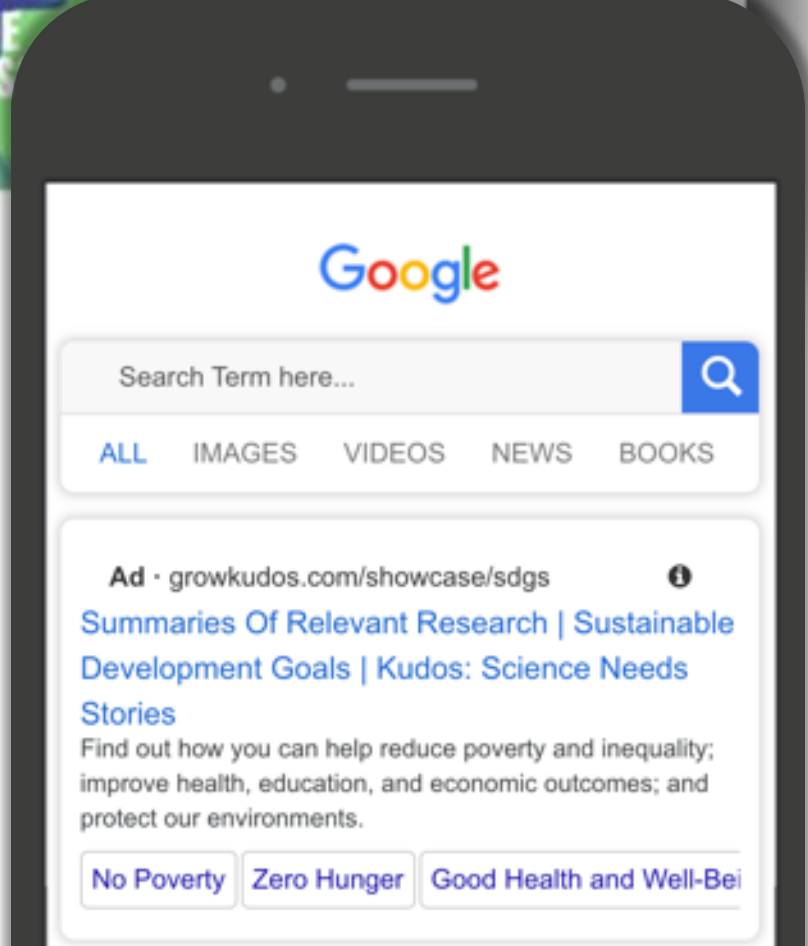
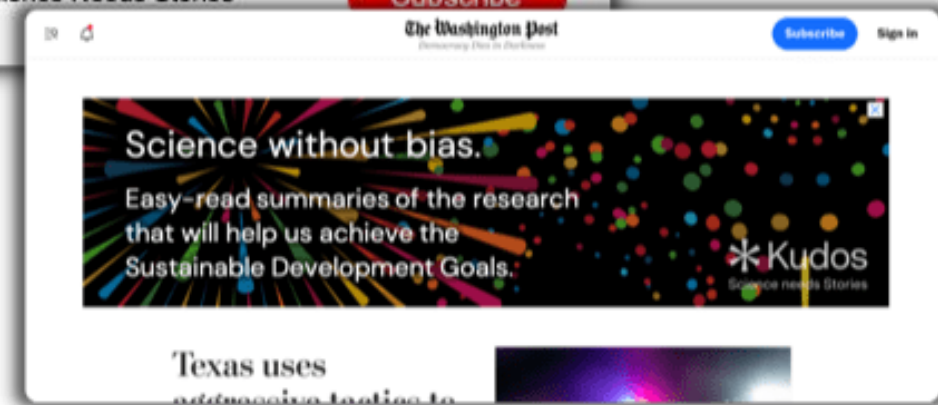
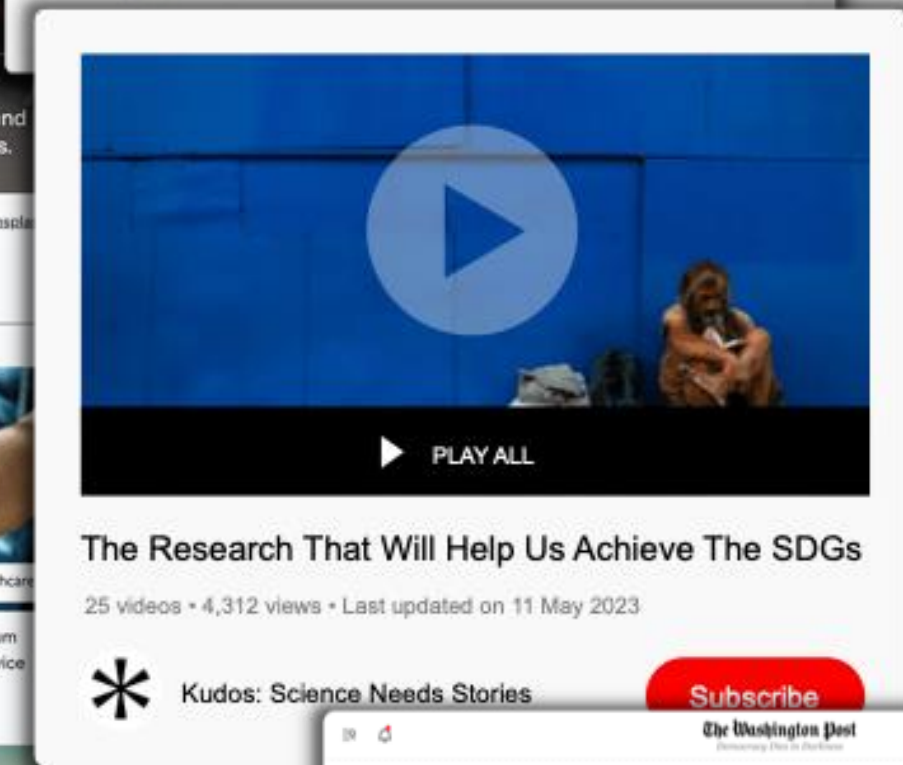
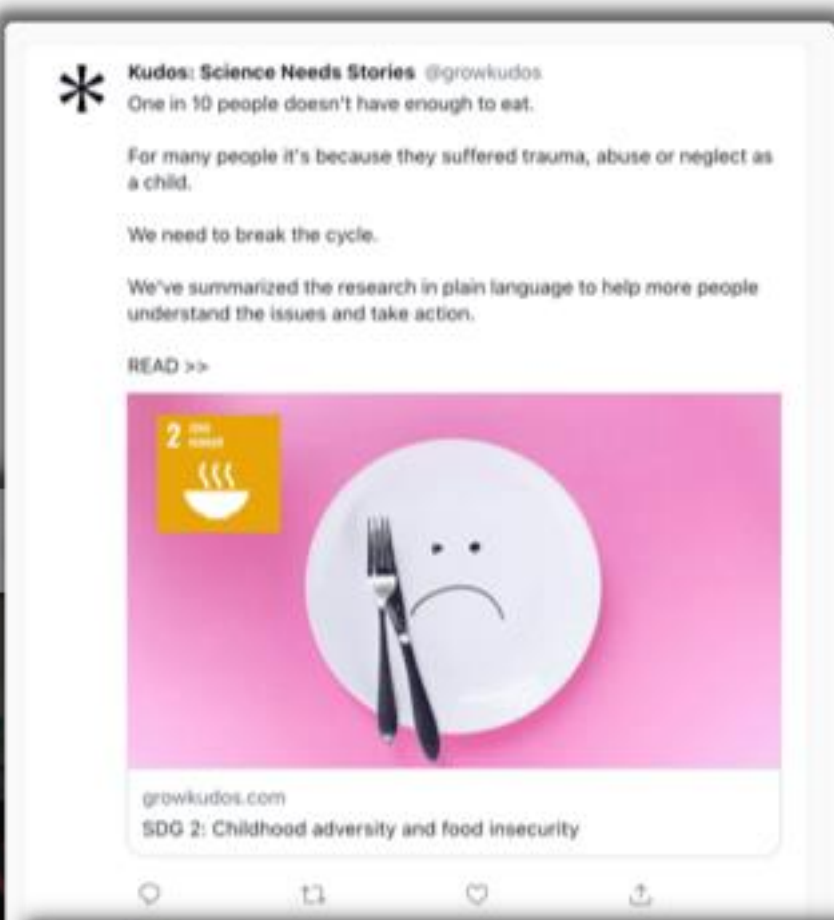
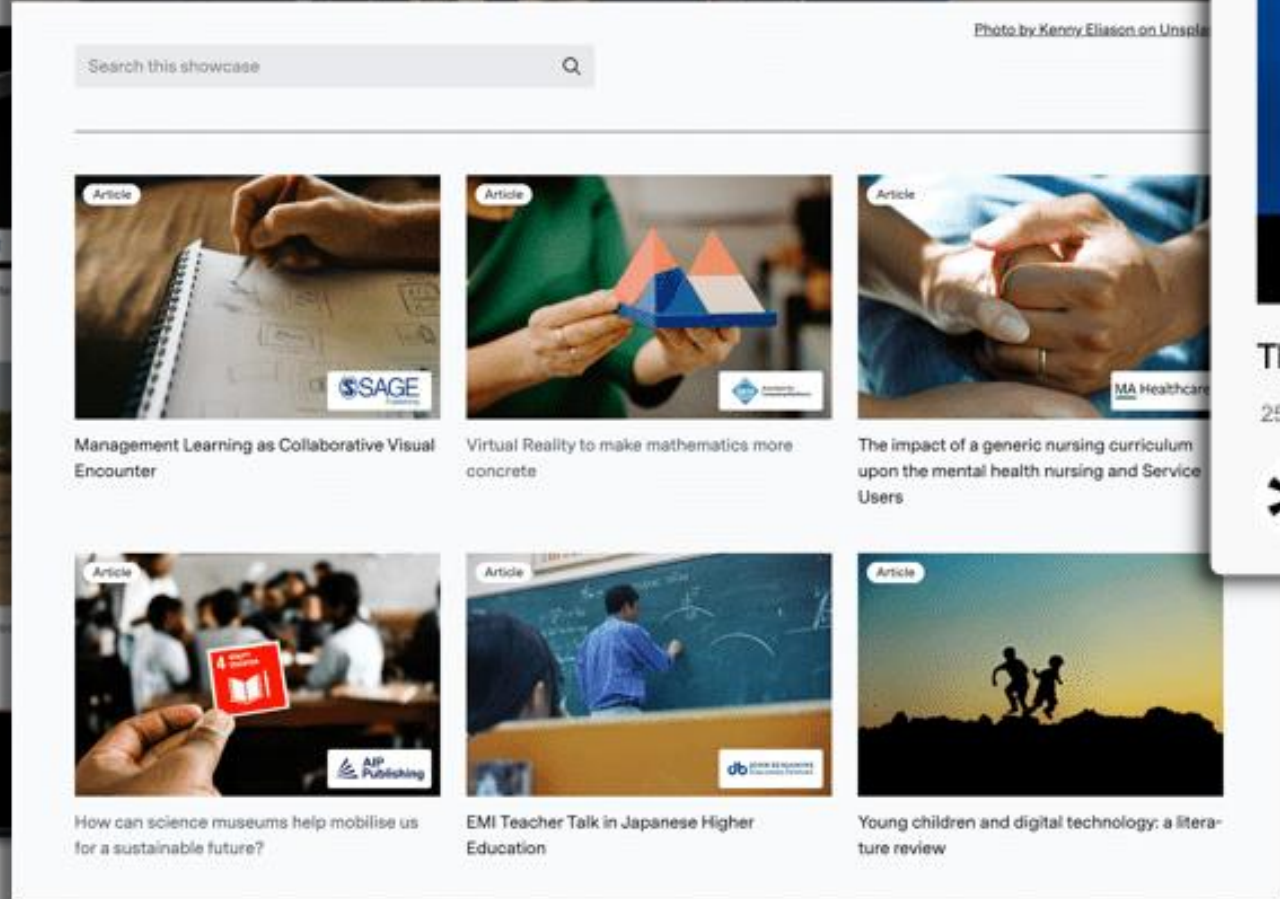
While we all promise to act towards sustainable development as responsible entities within the scholarly system, we cannot shy away from questioning what real impact the research we communicate is making on the ground.

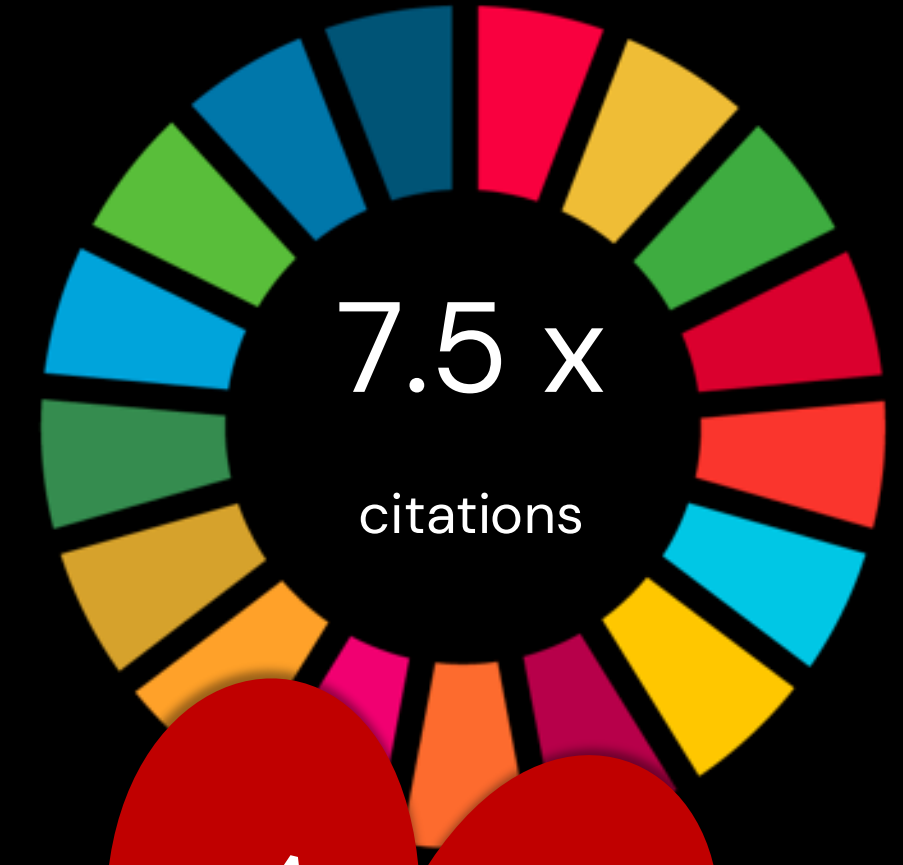
By contextualizing research within the development landscape and by translating data into evidence, researchers help policy makers to see the true use of a piece of research and help them to embrace research backed policy actions for greater impacts.

Dr Haseeb Irfanullah
University of Liberal Arts Bangladesh (ULAB)
Center for Sustainable Development (CSD), Bangladesh
University of Oxford – Martin School for sustainable and inclusive
research and policy

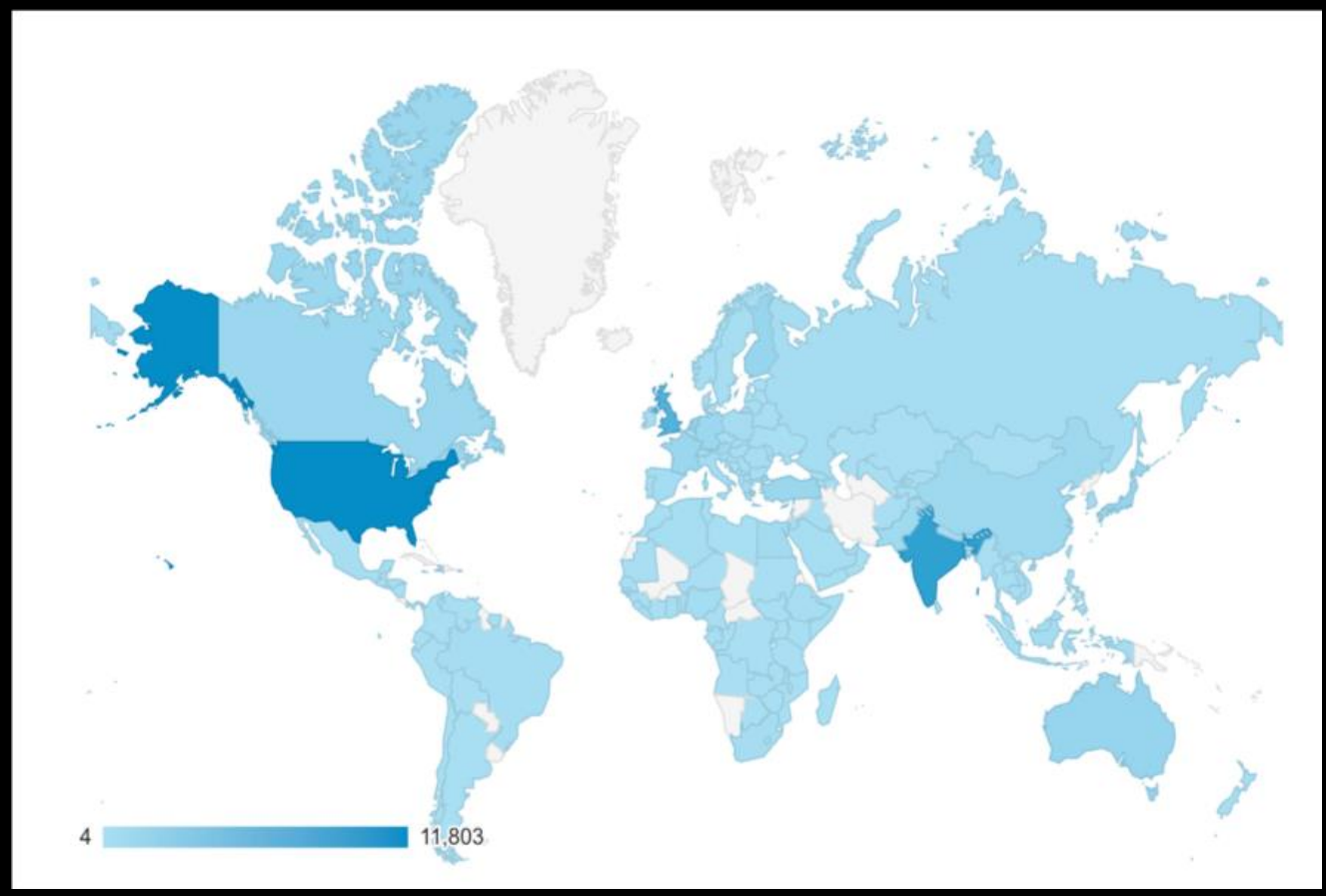
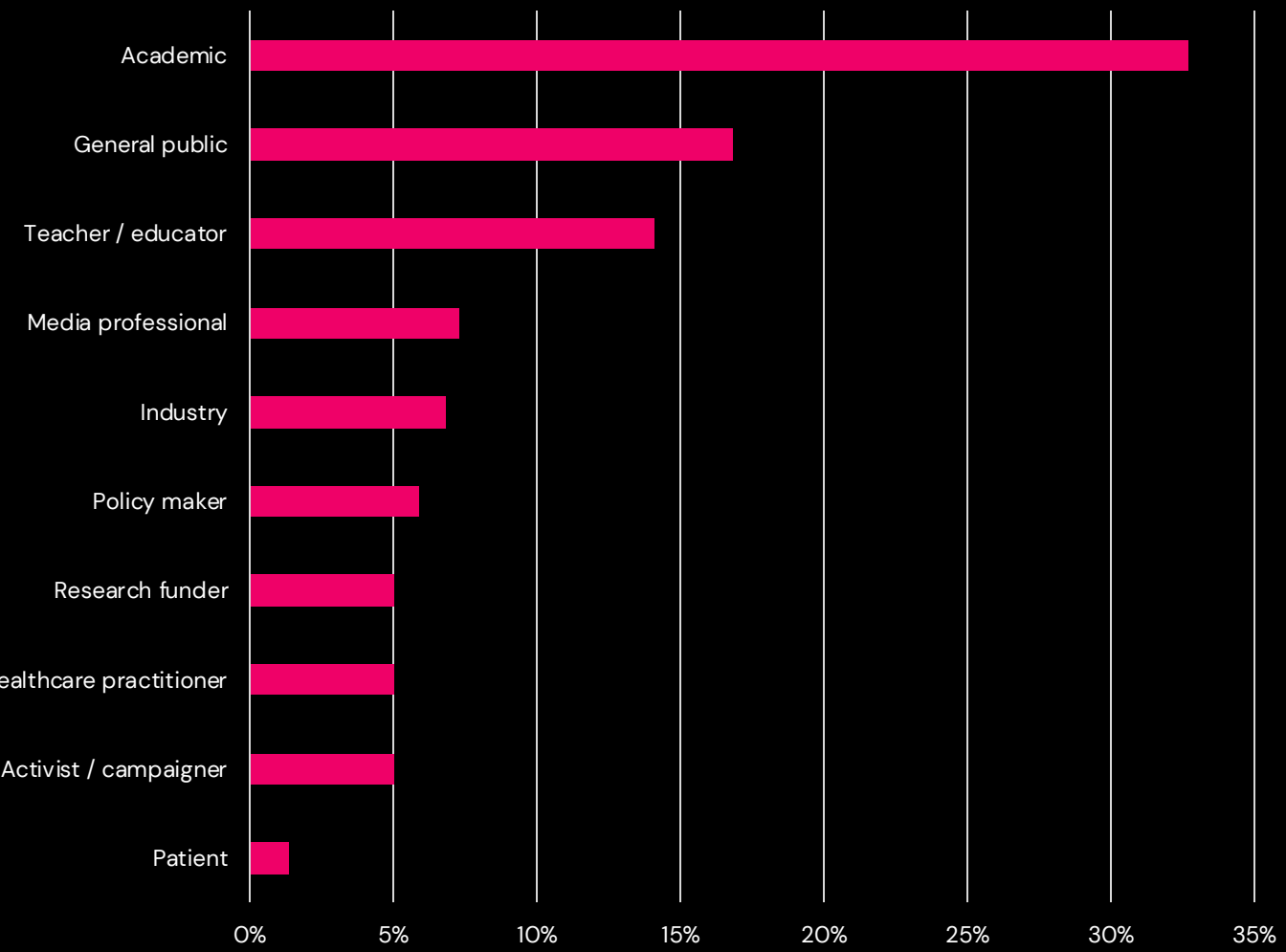


 **Kudos**
Science needs Stories





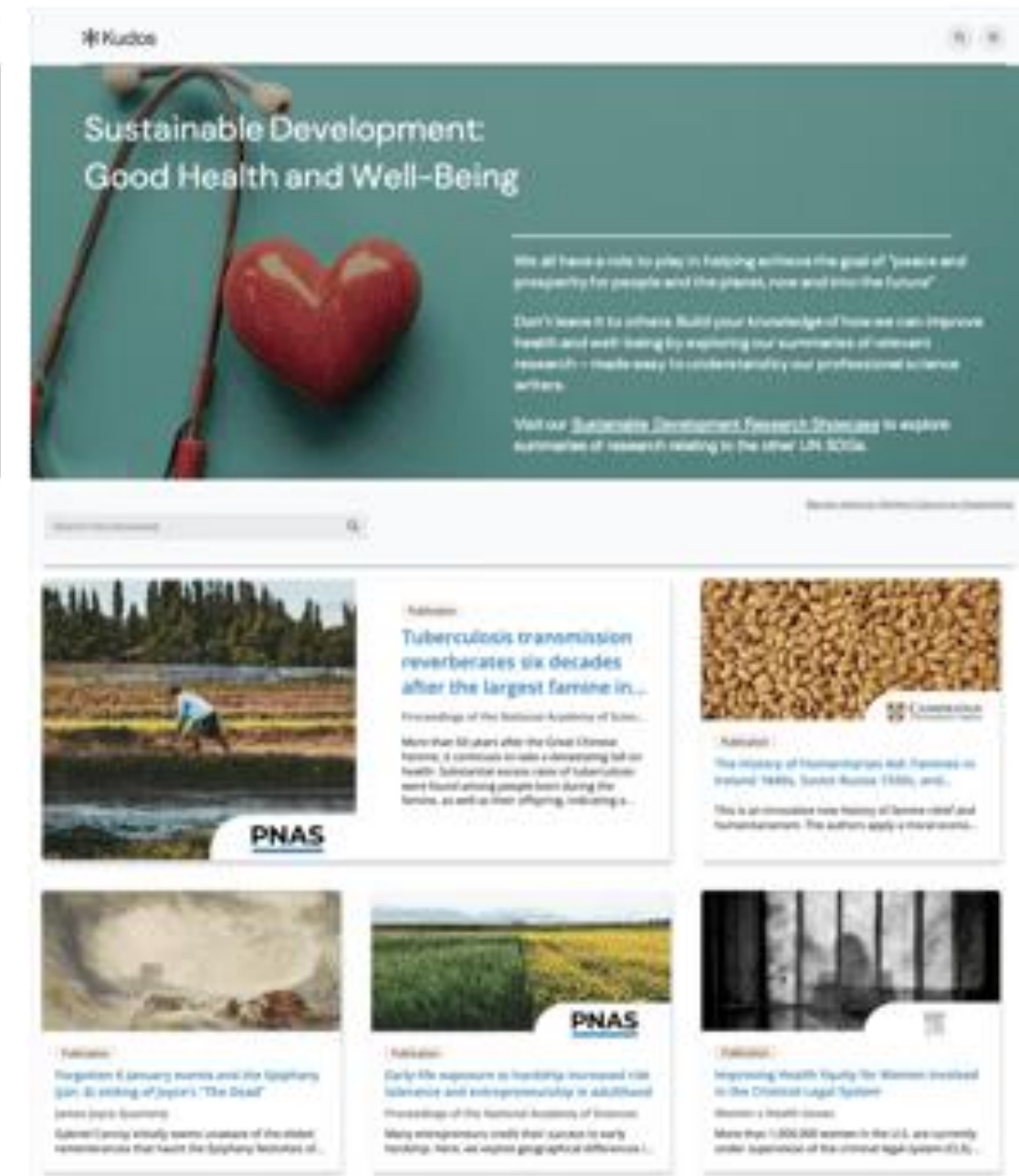
Authors
LOVE this
too



* Kudos
Science needs Stories

Visit stand **G70** or email me **charlie@growkudos.com**

to find out more about how we identify, explain, showcase and promote SDG-related articles



Journals' Focus on Acceptance Rates is Self Destructive



Tim Vines
Founder and CEO
DataSeer

50% acceptance rate





Session 2
Recipe for Success...or Disaster?
***TSK* Chefs Answer Provocative**
Questions about Future Possibilities



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Session 2

Recipe for Success...or Disaster?

The Scholarly Kitchen Chefs



Todd Carpenter

Executive Director
NISO



Robert Harington

Chief Publishing Officer
American Mathematical
Society



Roger Schonfeld

Vice President of
Organizational Strategy
ITHAKA



Lisa Hinchliffe

Professor/Coordinator for Research
and Teaching Professional
Development in the University Library
Univ. of Illinois at Urbana-Champaign

In the Future: Who Owns Your AI Agent?



Todd Carpenter
Executive Director
NISO

In the Future: Who Owns Your AI Agent?

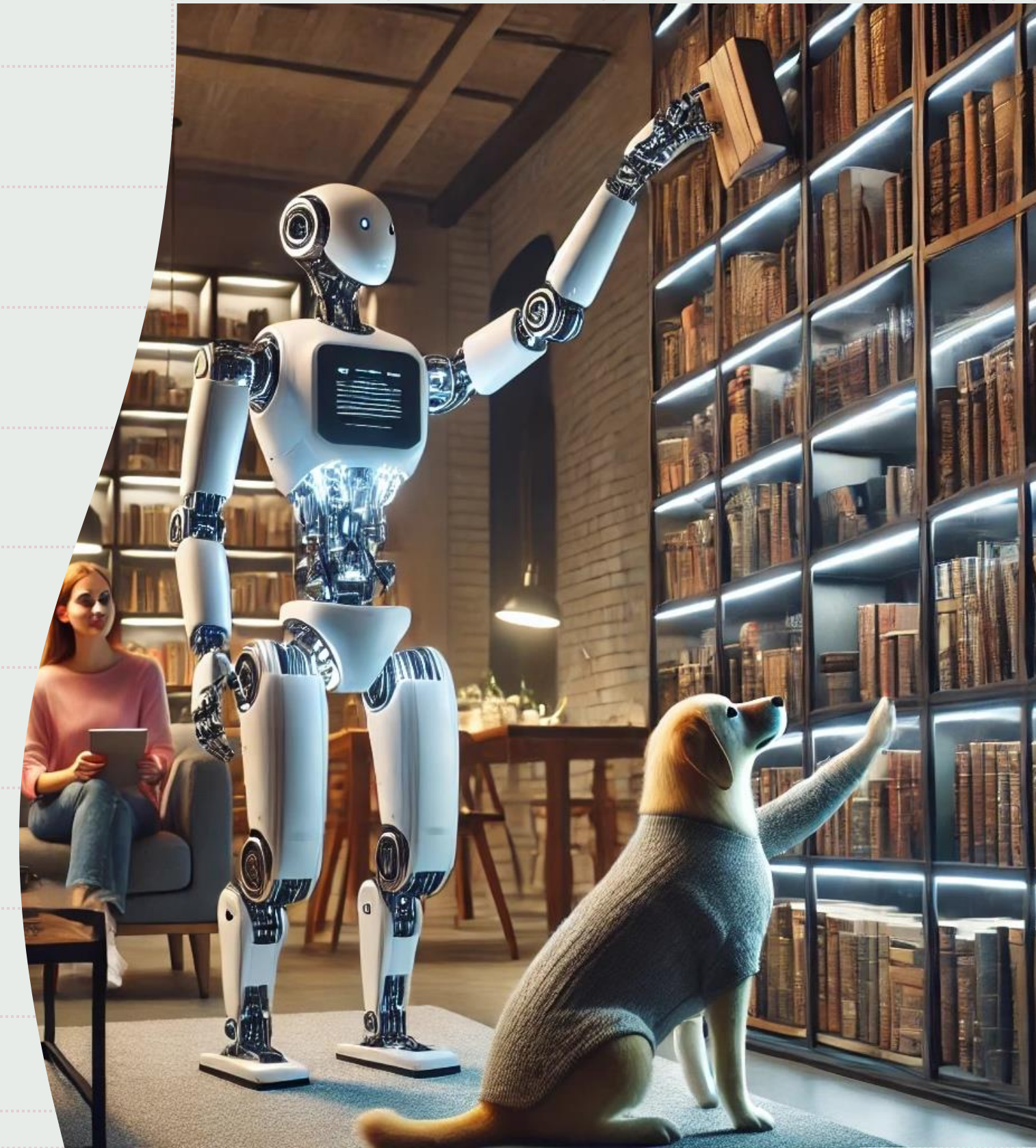
Todd A. Carpenter

Executive Director, NISO; TSK Chef

Does the AI robot system I've trained for my publisher, library or university belong to me or my institution?

When you leave, can you take that AI avatar with you somewhere else, or does your employer own all those bits of you?

Can your employer keep you going after you've left?





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How Does a Scholarly Society Approach AI Ethically?



Robert Harington
Chief Publishing Officer
American Mathematical
Society



Robert Harington D.Phil.
Chief Publishing Officer
rmh@ams.org



How Does a Scholarly Society Approach AI Ethically?

Robert Harington D.Phil.
Chief Publishing Officer, AMS
rmh@ams.org



What will we talk about today?

What is AI?

Risks

Opportunities

How to Grapple with Uncertainty

Paths to Success



AI Research and Writing Tools

Useful to take a deep look at Ithaka S&R's evolving AI product tracker <https://sr.ithaka.org/our-work/generative-ai-product-tracker/>

LLMs -The Risks (that we know of)

Authority

Illegal Scraping of Copyrighted Works

Attribution

Unreliable Outputs

Machine Learning creates a “black box”

Lack of Ethical Standards

The Opportunities

AI Algorithmic Tools in Publishing Workflows

Private and Ethical LLMs

<https://medium.com/@iamamellstephen/how-to-build-a-private-llm-a-comprehensive-guide-296eae0e7db9>

AI for Social Innovation

<https://www.weforum.org/publications/ai-for-impact-artificial-intelligence-in-social-innovation/>



Pathways to Success

Human Curation

Develop an organized strategy that suits your community

e.g. AMS AI Advisory Group

Keep an open mind in a climate of fear and emotion

Innovate responsibly

Is AI the Next Driver of Consolidation in Research Publishing?



Roger Schonfeld
Vice President of
Organizational
Strategy
ITHAKA



Is AI the next driver of consolidation in research publishing?

Roger C. Schonfeld
rcs@ithaka.org
October 2024



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What if Publishers Were to Throttle Manuscripts from Universities with Research Integrity Violations?



Lisa Janicke Hinchliffe

Professor, University of Illinois at Urbana-Champaign

What if publishers were to throttle manuscripts from
universities with research integrity violations?
Or, how do we shift the risk of slow or no response to
be greater than the risk of response?

Lisa Janicke Hinchliffe
Professor, University of Illinois at Urbana-Champaign

Presented at the SSP Chefs @ Frankfurt Book Fair program on October 17, 2024



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