

Open Science – publisher's perspective

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Solving the world's greatest challenges with open science (OS)

OS ensures that all aspects of research are open to all including data, code, protocols, etc.

Opening up research increases its use and re-use, speeds up scientific advances, delivers efficiencies for research, fosters collaboration between disciplines, enables easier translation into economic and social impact, and improves trust in science.

It is only by opening all outputs of research that the world will be able to:



Create faster and more effective research systems sustainably and at-scale



Build an equitable research landscape



Protect and enhance research integrity



Work towards solving the world's greatest challenges

Solving the world's greatest challenges with open science (OS)

OS ensures that all aspects of research are open to all including data, code, protocols, etc.



Create

Providing systems and services to make publishing research a simple and rewarding experience

In Review +  Research Square



Build

Supporting and leading Open Access transformation, Open Data and Code sharing policies, OA agreements and funding support services



Protect

Policies defining Publishing principles, Reproducibility, RI tools and processes preventing misconduct, Trainings and authors workshops, Open and Transparent peer review



Work

Committed to SDGs, Responsible business, Engage in publishing initiatives and networks to drive OS, Providing access, invest in technologies

 FAIRsharing.org
standards, distributors, policies



 COPE



Open science – current state in numbers

1

For authors

Publishing OA increases visibility and usage of their work



1.6X more citations for articles | **50%** more citations for books



2.5X Altmetric attention for journal articles | **10X** Altmetric attention for books

2

For librarians and institutions

OA articles and books have higher downloads than non-OA content



6x more downloads for OA articles | **10x** more downloads for OA books



Highest increase in downloads seen in LIC and LMIC¹ regions

increased accessibility of content for all researchers regardless of location: **29%** increase in Asia
11% increase in Africa

3

For society and science

Research is open for all and able to be used to tackle societal challenges



Over **48%** of SDG-related articles are OA



68% of our OA articles in 2022 published in fully OA journals, ensuring greater access to research



Nearly **3bn** OA content downloads

... and Transport Research?



Approx. 40% of research articles published OA²

Multi-disciplinary Field linking research, society, industry and regions



Research covering all UN SDGs², helping to solve world's greatest challenges

Committed to Open Science

<https://www.springernature.com/gp/open-research/journals-books/journals/going-for-gold-reach-and-impact>
<https://www.springernature.com/gp/open-research/journals-books/books/diversifying-readership-through-open-access>
<https://sustainablebusiness.springernature.com/2022/publishing/>

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¹ Low- and lower-middle-income countries

² source: dimensions

Thank you

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