What is Open Science?

... broad term, covering the many exciting developments in how science is becoming more open, accessible, efficient, democratic, and transparent. This Open Science revolution is being driven by new, digital tools for scientific collaboration, experiments and analysis and which make scientific knowledge more easily accessible by professionals and the general public, anywhere, at any time. European Commission

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Wiley At A Glance

200 years of innovation

1807


Deep reach into our communities

15 million

Researchers working with our 1200 non-profit partners; 46 million Professionals using our training and assessment platforms; 222 online program partnerships with 39 universities

Commitment to quality and impact

500

Nobel Laureates have published in Wiley journals
ENABLING OPEN SCIENCE

Supporting the front lines of R&D

15 million
Total combined membership across Wiley’s 1208 publishing clients and partners

1600 journals and partnership with 1200 non-profit societies and associations
- Validating scientific quality
- Supporting early career scientists
- Driving research output and innovation

WileyOpenScience.com
Drivers of Open Science

- Emerging digital technologies
- Researchers looking for new ways to collaborate and then disseminate their outputs
- Some criticism of closed nature of traditional peer review models
- Growing public scrutiny of research and demand for faster solutions
- Changes to research assessment metrics, including the emergence of altmetrics
- Pressure from funders to make their funded research more accessible, and track the impact of funded research
- Researchers looking to reproduce and verify research results

...authors found that they could successfully replicate the scientific experiments used to support just 11% of so-called ‘landmark’ biomedical research papers...
Our Vision: Solving global challenges

1. No Poverty
2. Zero Hunger
3. Good Health and Well-Being
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequalities
11. Sustainable Cities and Communities
12. Responsible Consumption and Production
13. Climate Action
14. Life Below Water
15. Life on Land
16. Peace, Justice and Strong Institutions
17. Partnerships for the Goals

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Open Science Policy Principles

1. Ensure flexibility aligned with needs of discipline communities.

2. Avoid imposing unnecessary burdens on researchers and institutions.

3. Enable continued public-private collaboration.
Benefits of Open Science

- **Increased openness** – making scientific research more open, transparent and accessible for researchers, research stakeholders and the general public alike

- **Increased reproducibility** – creating a more efficient and effective research landscape, whether conducting, funding or supporting research

- **Increased accountability** – protecting the integrity and overall reputation of research

- **Increased Collaboration** – encourages researchers to improve their discovery together

= Higher returns on investment and faster pace of discovery
What is Wiley’s Open Science position statement?
Driven by new technologies, emerging web standards, and the need to deliver more rapid, reliable and sustainable results, the research landscape is changing. A new world of increased openness, increased reproducibility and increased accountability. A new world called Open Science. We believe that Open Science is the next era of scholarly communication and will secure the foundations and continued authority of research. In this new landscape, we support the ambitions of all community stakeholders, including researchers, societies, funders and institutions – by facilitating greater dissemination, discovery, impact, collaboration, sharing, and ultimately increased reproducibility. To meet these needs, we are investing in new technologies, partnerships and strategies.
Summary of Wiley’s Open Science Strategy

Open Science

Facilitating faster and more effective research discovery

Driven through state-of-the-art publishing technology

Accessibility of publicly funded research

Reproducibility and verification of researcher data, methodology and reporting standards

Collaborative, interoperable and global dissemination standards

More inclusive and networked research practices

Integration of researcher identification and evaluation tools

Open Access

Open Data

Open Standards

Open Collaboration

Open Recognition & Reward

WileyOpenScience.com
Increased visibility and easy compliance with open access mandates
By increasing the accessibility of your institution’s publicly funded work

1. >1400 subscription journals with Gold OA option, and >60 fully OA titles

2. Tools to help your librarians & researchers understand OA, including road maps, videos and author compliance tool

3. Helping you manage your institution’s APC funds through Wiley’s Open Access (Institutional/Funder) Accounts

4. Self-archiving policy for most Wiley titles (Green OA)
Increased visibility and protection of the long-term integrity of your institution’s research

By enabling the reproducibility and verification of your research data, methodologies and reporting standards

1. Developing journal policies around data sharing and citation

2. Allows researchers to share data at submission through our partnerships with figshare and Dryad

3. TOP Guidelines signatory, RDA member and supporter of CONSORT, EQUATOR, and FAIR initiatives
Increasing the discoverability of your institution’s research
By creating collaborative, interoperable and global dissemination standards

New technology & infrastructure will help your researchers to:

1. Publish journal articles that integrate all major research outputs – text, images, data and code

2. Preserve more of the research activities that your researchers undertake as part of the scientific record

3. Help other researchers find work that has been published by researchers from your institution when and where they most need it
Allows easier collaboration for researchers to create the best possible research outcomes
By developing more inclusive and networked research practices

New technology & infrastructure will help your researchers to:

1. Create, share and view annotations of their work – during peer review and production

2. Write and discuss manuscripts collaboratively – through our forthcoming partnership with Overleaf*
Ensures researchers and institutions get the credit that they deserve
By implementing researcher identification and evaluation tools

1. Create an ORCID iD when authors from your institution publish a paper – connecting them with their research activities

2. Maximize and measure the impact of authors from your institution through our Promotional Toolkit – supported through Kudos and Altmetric

3. Developing a program to recognize and reward the contribution of peer reviewers – led through our Publons pilot
Why should researchers care?

Institutions
To educate the citizens and citizen-leaders for our society

Funders
Support research to solve the biggest problems of our time

Societies
To foster technological innovation and excellence for the benefit of humanity
Benefits to you...

- **Open Access**: Increased visibility and easily comply with open access mandates
- **Open Data**: Increased visibility and protects the long-term integrity of your research
- **Open Standards**: Increased discoverability of your research
- **Open Collaboration**: Collaborate more easily with your peers to create the best outcome for your work
- **Open Recognition & Reward**: Ensuring you get the credit that you deserve
Next Steps

- Continue to develop solutions to support funders, institutions and researchers in enabling implementation

- Facilitate dialogue and policies on standards, metrics within discipline communities

- Collaborate with research funders to ensure proper incentives to change behavior
Key Takeaways

- Transition from policy development to policy implementation;

- Opportunity to build use case studies to guide authors, societies, institutions and funders;

- Open Access is a given; Next frontier is Open Science; engage and facilitate dialogue to support our communities;
Publishers have the WILL and the WAY to enable Open Science

• We have the scale and relationships to support and drive author/community behavior.

• We are investing in technology to make open as easy as possible for all stakeholders.

• We are in the business of providing reliable information
Open Science
A continued exploration

“It is crucial in an increasingly Open Science environment that both librarians and publishers examine their role in supporting researchers in their scientific endeavours.

We can be the agents of change to help support and guide best practice and processes as they emerge.”

Jill Taylor-Roe,
Deputy University Librarian, Newcastle University, UK
Co-chair, Wiley European Library Advisory Board