

Systemic Research on Open Science in Europe

Insights from the **SCIROS** Network

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The SCIROS (Strategic Collaboration for Interdisciplinary Research on Open Science) project is a research initiative aimed at advancing the principles and practices of Open Science within the humanities and social sciences (SSH). By addressing theoretical, practical, and infrastructural challenges, SCIROS contributes to the growing body of empirical knowledge on Open Science, while fostering international and interdisciplinary collaboration.

Open Science encompasses a suite of practices designed to make research processes and outputs more transparent, accessible, and inclusive. While considerable progress has been made in the natural and life sciences, SSH disciplines face distinct challenges, including the prevalence of qualitative methodologies, linguistic diversity, and underdeveloped infrastructure for data sharing. SCIROS seeks to address these gaps by critically examining Open Science's applicability to SSH and identifying best practices for its implementation.



THEORY

Theory of Open Science (TOS)

This domain focuses on the philosophical and ethical underpinnings of Open Science, exploring its historical evolution and its significance within contemporary research paradigms.

Central questions include:

- What ethical imperatives support the adoption of Open Science?
- How has the concept evolved, and what factors have shaped its trajectory in SSH?



PRACTICE

Practice of Open Science (POS)

The practical implementation of Open Science is the focus of this domain, which investigates its application across various levels – local, national, and global. Research in this area examines:

- Multilingualism in scholarly communication and its implications for equitable knowledge sharing.
- Participation rates in Open Science initiatives and the barriers inhibiting broader engagement.
- Case studies of successful Open Science practices, offering insights into replicable strategies.



INFRASTRUCTURE

Infrastructure of Open Science (IOS)

Supporting Open Science requires robust and adaptable research infrastructure. This domain explores:

- The development and implementation of FAIR (Findable, Accessible, Interoperable, Reusable) principles for data management.
- Sustainable models for Open Science infrastructure, including funding mechanisms and institutional policies.
- Digital platforms and tools that facilitate Open Science practices in SSH.

Workflow



Organisation of the joint research

Research workflows & tools, 1 kick-off meeting, online meetings for research team



Study visits

6 one week visits in Partners institutions, 6 x 3-days workshops



Open Research Notebook & Podcasts

20 articles (blogpost) in Open Research Notebooks, 12 podcasts



Conferences and joint research dissemination

1 Final Conference in Poland, 10 polish and international conferences, 3 articles in scientific journals

Partner Institutions



Dissemination Strategy

Blog and podcast



BIG OS podcast



- Research summaries that distill findings from SCIROS studies into clear, actionable knowledge.
- Case studies showing real-life examples of Open Science – both successes and challenges.
- Expert interviews that highlight diverse perspectives from Open Science leaders.
- Reports from workshops and study visits, emphasizing co-creation, collaboration, and shared learning.



SCIROS blog

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