

# How can metaresearch help improve Open Science policies?

## GRIOS: Towards evidence-based Open Science policies



Global  
Research  
Initiative on  
Open Science

### Why GRIOS?

Open Science policies need evidence-based foundations. While many institutions have adopted Open Science strategies, their implementation remains challenging due to insufficient meta-level knowledge.

GRIOS, the Global Research Initiative on Open Science, is dedicated to deepening our understanding of Open Science practices and fostering their widespread adoption among governments, funding agencies and research institutions.

#### GRIOS mission

Synthesize existing research to guide policy decisions, identify adoption barriers, collect open science impact evidences, highlight knowledge gaps and federate global research-on-Open Science communities.

- Emerging from G7 initiatives on Research and Open Science
- Inspired by the Intergovernmental Panel on Climate Change
- Hosted at the European Science Foundation

### Mapping the Open Science Landscape

The first output of GRIOS is a bibliometric analysis of existing research on Open Science to inform our future review roadmap.

#### Objectives

Identify and map the main Open Science topics in the scientific literature by volume, discipline, type and availability.

#### Methodology

- Open data source (OpenAlex)
- Specific Keywords & Journal Analysis
- 4 languages (EN, FR, PT, ES)
- Search refinement based on OpenAlex concepts: from 268M papers → 130K documents

### Key insights

study in progress

- 5,217 open science papers retrieved
- Significant growth: <100 papers/year (pre-2005) → >300 papers/year (2020+)

#### Coverage of Open Science topics



### Supporters



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