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## **Out of Scope? Open science monitoring and grey literature**

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2019

Dostupný z <http://www.nusl.cz/ntk/nusl-407830>

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Datum stažení: 07.10.2022

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# THE SCOPE OF OPEN SCIENCE MONITORING AND GREY LITERATURE



conference on  
grey literature  
and  
repositories

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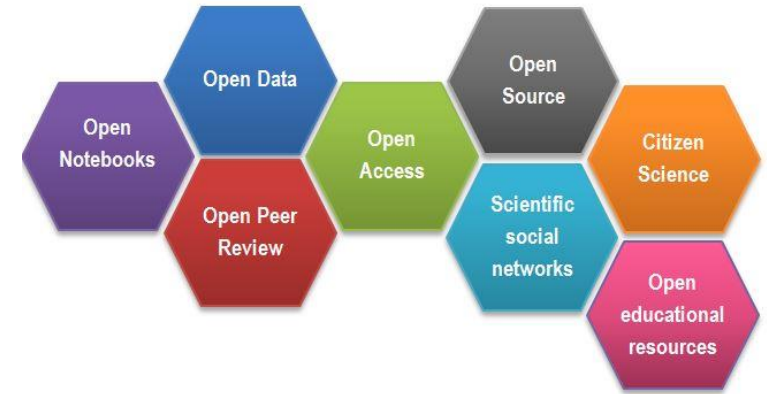


via <http://www.nusl.cz/ntk/nusl-407830>

# Open science

## The context

- Several definitions
  - Taxonomies of open practices or principles
  - Concepts, meanings or limits
  - European Commission approach
    - Transformation, opening up and democratisation of science
    - A policy process
    - Policy monitoring
- Launch of the Open Science Monitor in 2018
  - Developed by RAND Corporation, the Lisbon Council think tank and Elsevier as sub-contractor
  - Part of the EC website



# Open Science Monitor

Objectives

- Provide data and insight to understand the development of open science in Europe
- Gather the most relevant and timely indicators on the development of open science in Europe and other global partner countries
- Pilot aspect
- Three fields : open access, open research data and open collaboration

# Open Science Monitor

Website

An official website of the European Union How do you know? ▾



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[Home](#) > [Research and innovation](#) > [Strategy](#) > [Goals of research and innovation policy](#) > [Open Science](#) > [Open science monitor](#)

## Open science monitor

Tracking trends for open access, collaborative and transparent research across countries and disciplines.

### Trends for open access to publications

Data and case studies covering access to scientific publications. Bibliometric data as well as data on the policies of journals and funders are available.

### Facts and Figures for open research data

Figures and case studies related to accessing and reusing the data produced in the course of scientific production.

### Data on open collaboration

Figures on availability of scientific APIs, open code policies, citizen science projects as well as case studies.

### About

What the Open Science Monitor does, how to contribute, methodology and contact details.

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# Open Science Monitor

Current status

- The different sections of the monitor make a near to exclusive use of indicators of journal publishing
  - Trends for open access to publications
  - Funders' policies
  - Research journal policies
- For the moment, grey literature seems out of the scope of the European open science policy monitoring
  - (We contacted the Monitor consortium, without success)

# Open Science Monitor

→ In other countries

- Dutch Open Science Monitor
  - Data are limited to articles in gold journals
- Danish Open Access Indicator
  - Articles and conference contributions - registered in the research databases and institutional repositories of the participating institutions or in other recognized open repositories
    - 2017 dataset: with 20 245 items, conference contributions = 5%

# French Open Science Monitor

Methodology

- Identification of publications with a French author
  - Constitution of a representative, exhaustive publication database
  - Identification of French researchers (authors)
  - Identification and selection of publication (co)-authored by French researchers
- Enrichment of the selected publications' metadata (institutions, research domains)
- Detection of accessibility (open access)



# French Open Science Monitor

→ Current status

- Sources
  - Unpaywall : >24m items
  - French national HAL repository: >1,5m items
  - SUDOC, Theses.fr portal
- Challenges
  - Data volume and variety
  - Dynamics of open accessibility
- Results
  - Publicly available on the French open data platform [data.gouv.fr](https://data.gouv.fr)

# How to explain the absence of grey literature

- The inclusion of grey literature is conditioned by the DOI
  - The assessment of the accessibility via Unpaywall requires a DOI
- Lacking, misleading or ambiguous metadata of grey literature
- The supposed lack of quality control of grey literature
- Political pressure and tight deadlines
  - Grey literature monitoring is not easy and takes more time

# Tools in transition

- Experimental methodology
- Depending on policy changes, outcome evaluation of the existing tools, new technologies, new data sources and new requirements from the community
- The French Monitor ambitions to integrate GL, especially via the institutional repositories and the French ETD portal but doubts about the feasibility
  - (limitation to the WoS and Unpaywall)

# Question

Without any reliable data monitoring of grey literature, how will the EC (and the Member States) conduct an inclusive and comprehensive open science strategy and foster the production, discovery and curation of the grey part of scientific production in the new research ecosystem?

# THANK YOU !

Contact

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