



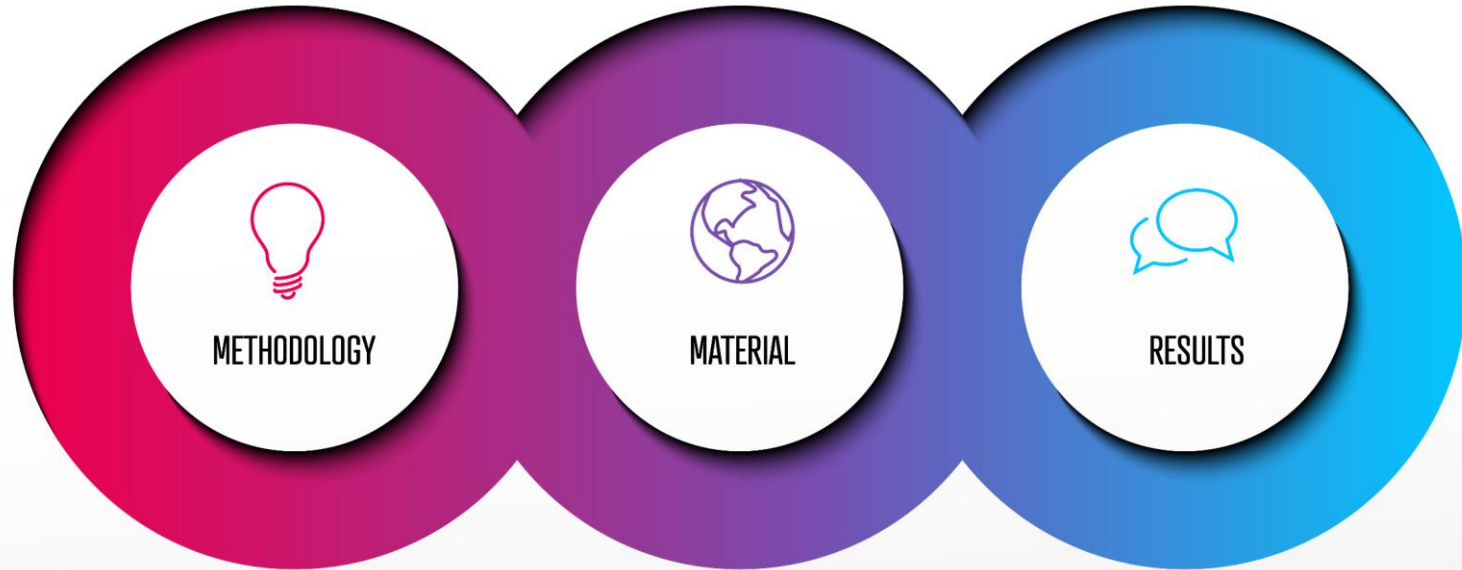
**MINISTÈRE  
DE L'ENSEIGNEMENT  
SUPÉRIEUR  
ET DE LA RECHERCHE**

*Liberté  
Égalité  
Fraternité*

# **SECOND FRENCH PLAN FOR OPEN SCIENCE**

Generalizing open science in France 2021-2024

# Open science is to open



## **Documented protocols**

All the research steps  
hypothesis, process,  
methodology, ...

## **Research data and software**

Research data, codes and software  
used to transform the research  
data and produce new knowledge

## **Publications and negative results**

Publications in journals and  
research books, negative results

# Why open science

Principle: Public money? Public data!



① **IMPACT : CITATIONS AND READERS**

② **BUDGET & ECONOMIC EFFICIENCY**

③ **REPRODUCIBILITY**

④ **HEURISTICS !**  
CUMULATIVE SCIENCE VS. DUPLICATE EFFORTS

⑤ **ETHICS, INTEGRITY, TRANSPARENCY**

# 1. Overview of the First French Plan for Open Science (2018-2021)

# Summary

**Launched on 4 July 2018** by Frédérique Vidal, Minister for Higher Education, Research and Innovation based on three commitments

- **Generalize open access to publications**
- **Structure research data and make it available through open access**
- **Be part of a sustainable European and international open science dynamic**

**Achieved the Open science steering committee**, responsible for

- Creating and making decisions on the use of funding from the National Open Science Fund
- Proposing guidelines, recommendations on open science good practices
- Managing the work of “colleges” to investigate issues, initiate and realize projects



# Key figures

**1** website

[www.ouvrirlascience.fr](http://www.ouvrirlascience.fr)



**38** publications

Practical guides,  
recommendations, studies,  
surveys, strategic notes...



**3195** followers

@ouvrirlascience



**30** workgroups

**2** national open  
science days

# Main achievements

- Creation of the **National Fund for Open Science** (11.6 M€ of resources over 3 years), through which 2 calls for projects were launched in 2019 and 2021
- The **French National Research Agency** and other funding agencies request **open access publication** and **data management plans** for the projects they fund
- Progressive deployment of **open science strategies** within research organizations and universities and guidance for PhD students
- Creation of the **open science barometer**: measurement of the rate of French scientific publications in open access

*More information at : <https://www.ouvrirelascience.fr/bilan-du-plan-national-pour-la-science-ouverte-2018-2021/>*

## 2. Second French Plan for Open Science (2021-2024)





# Summary

**Launched on 6 July 2021** by Frédérique Vidal, Minister for Higher Education, Research and Innovation

- Multiplying the **levers for change** in order to **generalize open science practices**
- Structuring the **policy for opening up and sharing research data**
- New commitments to the **opening of source codes** produced by research
- **European and international inclusion** in the context of the French Presidency of the European Union
- **Disciplinary and thematic variations:** open science policies must be adapted to disciplinary specificities

# Objectives of the Second national plan

## ***1-- Generalizing open access to publications***

- reach **100% of open access publications** in 2030
- support **bibliodiversity**

## ***2-- Structuring, sharing and opening up research data***

- encourage practices that favor **research data reuse**
- create Recherche Data Gouv in order to **involve all research fields in active practices of open data**

## ***3-- Opening up and promoting source code produced by research***

- major challenge for the **reproducibility** of scientific results
- foster distribution of software products under **open source licence**

## ***4-- Transforming practices to make open science the default principle***

- require the transformation of the assessment system in order to **foster long-term open science practices**

# National tool to support OS policy: the national barometer on open science

- **Monitoring, observation and measurement tool** of open science policy impact
  - First edition launched in 2018, last update in December 2023
  - In 2023, 65 % of the publications produced by French research are open access publications (38 % in 2018)
  - The open access rate for publications published in 2019 has increased from 52 % in 2020 to 62 % in 2023, which characterized a reduced period of “embargo”
  - Expand the barometer scope by producing new indicators to monitor:
    - Health study declaration, including clinical trials
    - Data and source codes opening and sharing, including data statements
    - Open science use by society
    - Universities open science policies
    - Open science platforms’ accessibility for handicapped / disabled people
    - Publishing costs
-

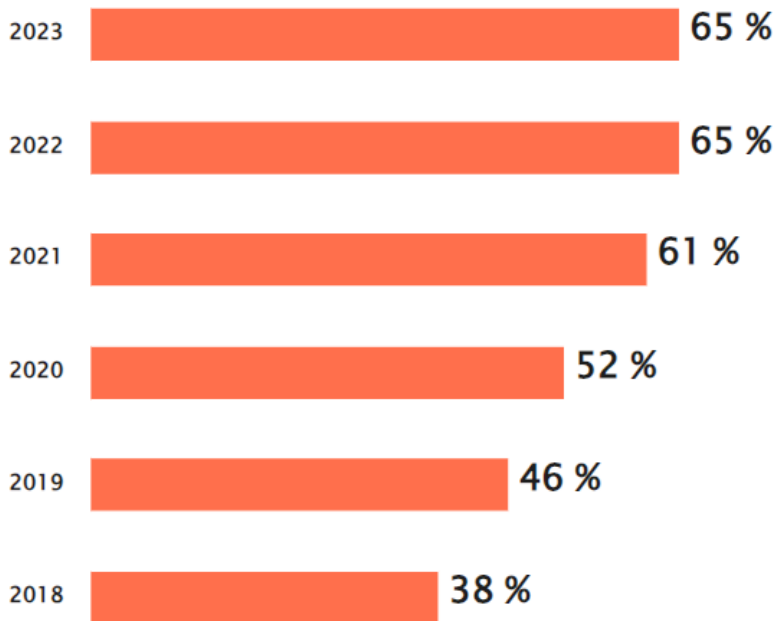
# Key indicators of the national barometer in 2023

Open access rate of scientific publications in France, with a Crossref DOI, published during the previous year by observation year



Growth  
(all fields)  
2018-2023

**+27 points**



Amongst French publications in 2022 mentioning the production of data:

- **22 % are referring to sharing a dataset**
- 26 % include a “Data Availability Statement” section

This indicator was created via artificial intelligence by the Ministry of Higher Education and Research.



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***Thank you***

*More on the 2<sup>nd</sup> national plan for open science at:*

*<https://www.ouvrirelascience.fr/second-national-plan-for-open-science/>*

*More on the national barometer on open science at:*

*<https://frenchopensciencemonitor.esr.gouv.fr/>*