MINISTÈRE
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The French National Plan for Open Science Season 2

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Towards the Generalisation of Open Science in France

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

Launch on 4 July 2018 by Frédérique Vidal, Minister for Higher Education, Research and Innovation

- **Generalise open access to publications**

- **Structure research data and make them available through open access**

- **Be part of sustainable european and international open science dynamics**

Governance :
The Open Science Committee

Open science steering committee

Makes strategic decisions

Permanent secretariat for Open Science

Prepares decisions, monitors the plan

Colleges
Publications, Research Data, Skills and Training, Europe and International, Software and source code

Investigate issues, propose guidelines, initiates and manages projects

+ several working groups

Main achievements – 1/4

- Creation of the **National Fund for Open Science** (11.6 M€ over 3 years), a dedicated fund, with **two calls for** projects for "open access publishing, open publication and its ecosystem", in 2020 and in 2021. Nearly 50 projects selected and supported. For instance :

  1. PEER COMMUNITY IN. INRAE and partners. *Researcher communities at the service of preprints' reviewing process.* Preprints open peer reviewing platform driven by researchers (not publishers).

  See the full list of projects supported, and their status (ongoing) :
  https://www.ouvrirlascience.fr/category/fnso/projets-initiatives-fnso/?menu=2

    => Sustaining Open Science through projects funding

- Support for the development of the national open repository **HAL.** New governance, new model to sustain the development and the running of the platform.

    => Developing the Green Road, to support bibliodiversity

Main achievements – 2/4

- The **French National Research Agency (ANR)** and others enforce **the deposit of publications in an open access repository** and the **drafting of data management plans** for projects they fund.

  => **Enforcing Open Science good practices where there are publicly funded projects**

- Creation of the **position of chief data officer** at the Ministry for Higher Ed. and Research. Starting end of 2021, creation of a network of chief research data officers in universities to coordinate the research data governance – up to 10 people for the moment, growing.

  => **Tailoring the landscape, to support Open Science and beyond**

Main achievements – 3/4

- Creation of the **open science barometer** : measurement of the rate of French scientific publications in open access. A local initiative closely connected and dispatched in 20 universities, the Lorraine open science barometer.

    https://scienceouverte.univ-lorraine.fr/barometre-lorrain-de-la-science-ouverte/

    => Measuring the way forward on the road to Open Science

- Support to the development of **open science strategies within research bodies and universities**, creation of a network of open science points of contact, the "open science points of contact" network, managed by the Rectors' conference named "France Universités".

    => Amplifying the network to raise awareness and share good practices
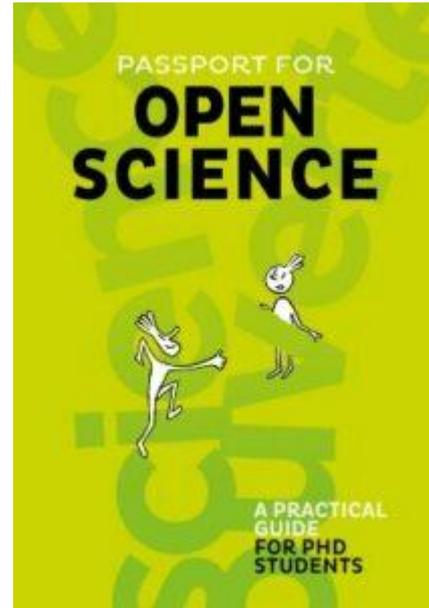
Main achievements – 4/4

- **Training actions targeted at PhD students** : *Passport for open science*, practical guide for PhD students.

https://www.ouvrirlascience.fr/passport-for-open-science-a-practical-guide-for-phd-students/

> **=> Generalising training to accelerate the transformation rate**

- **Support to international open science infrastructures** : SCoSS labelled projects (DOAB, PKP, OpenCitations), RDA, Software Heritage…

> **=> Helping the community-driven ecosystem to keep going and grow**

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

-> *4 strategic directions*

1st strategic direction :
Generalising open access to publications

1

Generalise the obligation to publish in open access all articles and books resulting from publicly funded calls for proposals

2

Support open access economic publishing models that do not require the payment of articles or books processing charges (the so-called "**diamond" model**)

3

Encourage multilingualism and the circulation of scientific knowledge by translating publications from French researchers

" *We will support **bibliodiversity** so that the scientific community can regain control over the publishing system.*"

"*Our goal is to reach **100% of open access publications by 2030**"*

2nd strategic direction :
Structuring, sharing and opening up research data

4

Implement the obligation to disseminate publicly funded research data

5

Create "Recherche Data Gouv", the federated national platform for research data

6

Promote widespread adoption of data policies that cover the whole lifecycle of research data, to ensure that they are Findable, Accessible, Interoperable and Reusable (FAIR)

« *We will encourage practices that favor **research data reuse**.* »

« *We will create* recherche.data.gouv.fr/ *in order to **involve all research fields in active practices of open data**.* »

3rd strategic direction :
Opening up and promoting source code produced by research

7

Recognize and support the dissemination under an open source license of software produced by publicly funded research programmes

8

Highlight the production of source code from higher education, research and innovation

9

Define and **promote an open source software policy**

« *The opening of software source code is a major challenge for the* **reproducibility** *of scientific results.* »

« *Distribution of software products under* **open source licence** *will be preferred.* »

4th strategic direction :
Transforming practices to make open science the default principle

10

Develop and value open science skills throughout the educational and career pathways of students and research staff

11

Value open science and the diversity of scientific productions in the **assessment** of researchers, of projects and of universities and research performing organizations

12

Triple the **budget** **for open science** through the National Fund for Open Science and the Investments for the Future Programme **and support adoption of Open Science policies**

« *Transformation of the assessment system is required in order to* ***foster*** ***long-term open science practices****.* »

« **the assessment system** for researchers, laboratories, universities and research performing organizations **must be changed so that it becomes coherent with the principles of open science**. »

https://www.ouvrirlascience.fr/second-national-plan-for-open-science-npos/

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