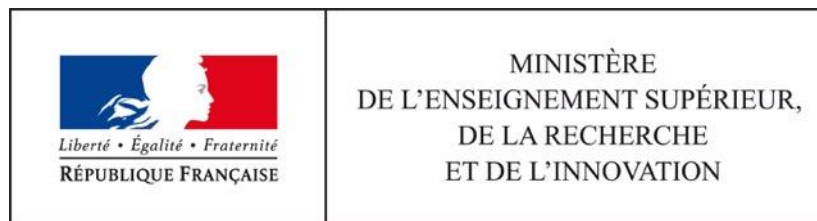


The French Plan for Open Science

Marin Dacos - Open Science Advisor
to the Director-General for Research and Innovation
Ministry of Higher Education, Research and Innovation



Context : Amsterdam call for
action on open science - 2016



***Amsterdam Call for Action
on Open Science***





nationaal plan open science

The National Plan Open Science concentrates on three key areas:

- Promoting open access to scientific *publications*.
- Promoting optimal use and reuse of *research data*.
- Adapting evaluation and award systems to bring them into line with the objectives of open science (*reward systems*).

The cover features a teal background with a central graphic of three overlapping circles (white, yellow, and purple) on a curved base. A large, stylized 'X' shape is formed by fine, radiating lines in shades of green and yellow, centered behind the circles. The text is centered and uses a clean, sans-serif font.

NATIONAL PLAN FOR OPEN SCIENCE

4TH JULY 2018

“Open science seeks to create an ecosystem in which scientific research is more cumulative, better supported by data and more transparent with faster and more universal access to results.”

#openscience

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MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION

A strong history in France

FRENCH NATIONAL STRATEGY ON RESEARCH INFRASTRUCTURES 2016 EDITION



www.enseignementsup-recherche.gouv.fr



RESEARCH INFRASTRUCTURES AND DATA

The production, storage and making available of data are essential parameters of research today; this is particularly true for research infrastructures. Some are focused on digital research, as the subject of research in itself or for developing intensive computing tools, transmission or storage of data. Others have for purpose to make databases available, whether raw or enriched. In any case, they tend to become discoverable, usable and interoperable by an ever-increasing community. In certain fields, this making available is immediate and entirely public, according to a European directive. In others, an embargo period is current practice before dissemination.

Infrastructures dedicated to Open Science

- **Data**

- **Strasbourg astronomical Data Center**
- **Huma-Num** : Digital Humanities services. Recherche Isidore. 6000 sources.
- **And more...**

- **Publications**

- **HAL** : centralized, national and multidisciplinary archive. 500 000 documents.
- **Collex-Persée** : Open access legacy journals. 300 collections.
- **METOPES** : XML workflow for digital publishing.
- **OpenEdition** : comprehensive platform for open access academic publishing in HSS : 500 journals, 6000 books, 2700 academic blogs, 40 000 events.

+ **Centre Mersenne** : publishing infrastructure for Mathematics

And more...

Digital Republic Law

October 2016

1. Publications : a new right for authors

Article 30 : When a research is 50% publicly funded, the author retain the right to publish in open repositories 6 (STM) to 12 months (HSS) after publication.

2. Data : a new duty for universities and research performing organizations

Article 6 : open data should be the default for all publicly funded data, including research.

Intellectual property is key

Will we lose our rights on our data as we have lost our rights on our journals?

Intellectual property for data is in the hands of funders. This is an opportunity.

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Key principles

For publications...

We need more
bibliodiversity

Strong support to...

Jussieu Call

[Read Call](#)

[Sign It](#)

[Support](#)

[Newsletters](#)

[Contact](#)

A woman with long, wavy hair, wearing a teal dress, is running through tall, golden grass. She is holding a large, multi-colored umbrella (rainbow spectrum) that is open and tilted. The background is a dark, textured blue sky. The overall mood is joyful and free.

Jussieu Call
for Open science and bibliodiversity

For data...

As open as possible...

...as closed as necessary

Take into account the
long tail of data

**NATIONAL PLAN
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DE LA RECHERCHE
ET DE L'INNOVATION

First
commitment:
generalise open
access to
publications

Roadmap

1. Make open access **mandatory** when publishing articles and books resulting from government-funded calls for projects. Example : ANR.
2. Create an **Open Science fund**.
3. Support the **HAL** national open repository and simplify the publication filing procedures for researchers who publish through open access platforms around the world.



Strong support to :

- San Francisco Declaration on Research Assessment (DORA)
- The Leiden Manifesto for research metrics
- Initiative for Open Citations

Application

- Since July 2018, a lot a major French organizations have decided to sign DORA :
 - INSERM, CNRS, INRA, etc.
 - HCERES
 - ANR

The Open Science Fund

- Initial budget by the Ministry of Research and then should be funded by savings on big deals.
- Investing in open publishing systems that remain under the control of the scientific community.
- In line with the Appel de Jussieu.
- CURIF (Conference des universités de recherche intensive, like LERU) has also announced the creation of such an Open Science Fund.



institutionnel au bouquet de pré
est le prix qui n'a cessé d'augm
soutenable par les établisseme

Lorraine University has paved the way.

Concrete measures to re-use saved Springer budget at
Université de Lorraine:

- SSH: Subscription to open and public platforms (Erudit, Canada; Open Library of Humanities, UK; OpenEdition, France)
- STM: Sci-Post (physics), EDP Sciences (France), Epiga (overlay journal on Episciences.org)
- Joining the Fair Open Access Alliance
- Support to Directory of Open Access Journals – DOAJ, Coalition of Open Access Repositories – COAR, Sparc Europe
- *Favouring free for authors-free for readers approaches*

quent de renouer à une renaissance de la communication scientifique qui amè
(open access), plus de transparence et d'efficience.



Application: a national policy

- **ANR** – Agence nationale de la recherche - National research agency
“ANR requires that the full text publications resulting from projects that it finances be deposited in open access either directly in HAL or via a local institutional archive”
<http://www.agence-nationale-recherche.fr/PA2019>
- **INCA**
Institut National Du Cancer
National Cancer Institute
- **ANSES**
Agence nationale de sécurité sanitaire de l'alimentation, de l'environnement et du travail
National agency for food, environmental and occupational health and safety,
- **ADEME**
Agence de l'environnement et de la maîtrise de l'énergie
French Environment and Energy Management Agency
- **ANRS**
France Recherche Nord&Sud Sida-HIV Hépatites (INSERM)
France Research North&South AIDS-HIV Hepatitis (INSERM)

Application

- ANR is a member of the Coalition S
- French Open Science Committee comments on plan S

Open Access in general and Plan S in particular : one size does not fits all

- We recommend the co-existence of different roads:
 - the dissemination of scientific writings, as soon as they are published, in open access in an open archive that is permanent and recognized by the various scientific communities (**“green mode”**);
 - the promotion and financial support of publishing and publication methods where neither the author nor the reader pays (**“Diamond” mode**);
 - open access publishing based on fair, transparent, and economically sustainable business models (**“gold mode”**).

On the consideration of disciplines

- COAlition S members should work together with learned societies and / or communities to take disciplinary specificities into account.
- The survey which will be commissioned by cOAlition S on APCs should consider this disciplinary dimension.

On phasing Plan S implementation

- The current timeline may exclude many publishing and archiving platforms which do not have the means to comply with demanding technical requirements in such a short period of time.
- Funding by the cOAlition S will be needed.

On CC-BY and licensing

- Widespread distribution under CC-BY or CC-BY-SA open licenses should be preferred.
- However, it could be useful to accept CC-BY-NC licenses for a short period, to leave sufficient time for the cOAlition members to work with the publishers

On the transformative effect of Plan S

- Plan S implementation rules allow a grantee to publish in a hybrid journal, to pay an APC fee by using non-Plan S credits and then to deposit this publication in an open repository under a CC-BY license.
- The disadvantage of this solution is that it does not have any transformative impact on the current publishing system.
- In monitoring Plan S implementation, the proportion of this compliance method will have to be assessed, and if necessary steps will have to be taken to avoid it.

On technical constraints

- Imposing more technical constraints on open repositories than on journal platforms is not consistent.

On making full text available in XML-JATS

- However, it is necessary to draw up a timeline and procedures for the technical compilation of native files, their contractual retrieval from publishers, especially as part of negotiations, and for their availability, in particular when deposits are made by authors in an open repository (self-archiving).

On support to open science infrastructures

- Financial support from cOAlition S to the open science infrastructures, platforms and journals is indispensable.
- The funder should have a dedicated budget line to support open access infrastructures.

On open citations

- The open availability of citation data in compliance with I4OC standards should be included in the mandatory quality criteria for journals and platforms (point 9.2) and not in the additional quality criteria (point 9.3).

The graphic features a teal background with a central white and yellow circular motif. A white circle is partially overlapped by a yellow circle, which is in turn overlapped by a purple circle. The background is composed of fine, radiating lines that create a sense of depth and focus on the central circles. The text is centered and uses a clean, sans-serif font.

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Second commitment:
structure research data
and make it available
through open access

*“Research data are
the raw materials
of knowledge.
Sharing them
means opening new
scientific
perspectives.”*

Roadmap

4. Make open access dissemination **mandatory** for research data resulting from government-funded projects.
5. Create the post of **Chief Data Officer** and the corresponding network within the relevant institutions.
6. Create the conditions for and promote the adoption of an **Open Data policy for articles** published by researchers.

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Third commitment:
be part of a
sustainable
European and
international open
science dynamic

*“France is committed to
making open science a
normal, everyday practice
for researchers”*

Roadmap

7. Develop **open science skills**, especially in postgraduate schools.

8. Encourage universities and research performing organisations to adopt **open science policies**.

9. Actively contribute to structuring European data in the European Open Science Cloud (**EOSC**) and by participating in **GO FAIR**.

Open Government Partnership

Liberté • Égalité • Fraternité
RÉPUBLIQUE FRANÇAISE

POUR UNE ACTION PUBLIQUE
TRANSPARENTE ET
COLLABORATIVE :
PLAN D'ACTION NATIONAL
POUR LA FRANCE
2018-2020

Participate in ensuring transparency through the Open Government Partnership (OGP)

- Open research funding data by creating public datasets on
 - › costs for electronic acquisition from university libraries and research institutions,
 - › article and book publishing charges, and
 - › research funding for calls for projects and their beneficiaries.

OUVRIR
LA SCIENCE !

French Open Science Committee

President : Bernard Larrouturou

Director-General for Research and Innovation

OUVRIR
LA SCIENCE !

« What needs to be done to make research more open? »

- 4 groups, 200 experts :
 - Publications
 - Research Data
 - Skills
 - European and International coordination
- Many special interest groups :
 - Developing Free and Open Source Software in research
 - Developing bibliodiversity
 - Etc...

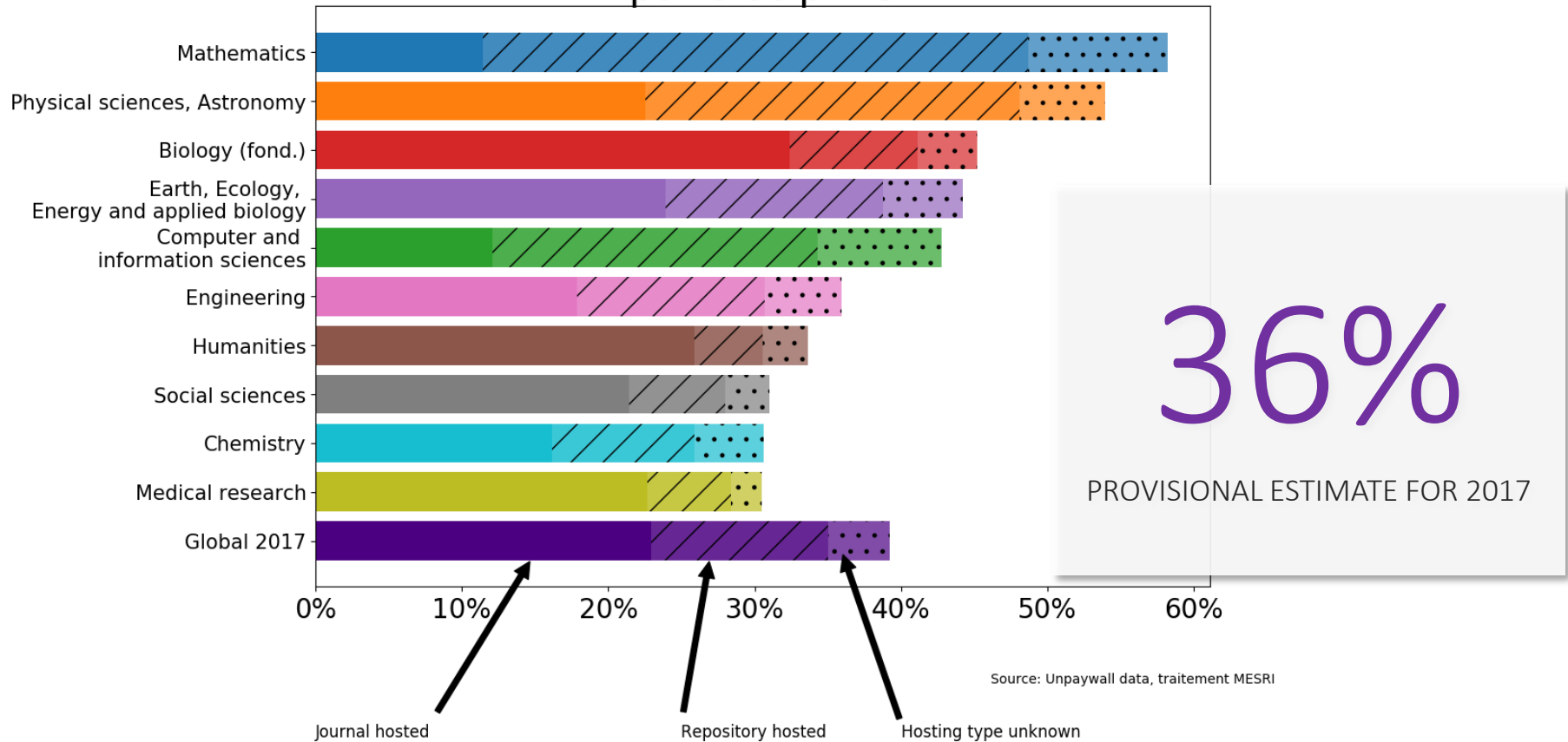
First results

- Two public feedback about Open Science Monitor
 - Feedback on EC Open Science Monitor Methodological note
 - About the proposal for software indicators in Open Science Monitor
- Two public feedback about plan S
- French contribution to OpenAPC
- National open science days
- French Open Science Monitor

French open science monitor

Using open data, not proprietary data

Pourcentage d'Open Access par discipline



CURIF's commitment (July 2018)

- Fully invest in the creation of a fund for the development of Open Science
- Change our internal practices for evaluating structures, staff and calls for projects to be part of an Open Science approach
- Ensure sustainability and open access to research data
- Provide Open Science training at all levels

www.ouvrirlascience.fr



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LA SCIENCE

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[FR](#) - [EN](#) 

**What needs to be
done to make
science more open?**

[DISCOVER OPEN SCIENCE](#)



“Everything we have gained by opening content and data will be at risk if we allow the enclosure of knowledge infrastructures.”

-Geoff Bilder & Cameron Neylon



« Principles for Open Scholarly Infrastructures »

https://figshare.com/articles/Principles_for_Open_Scholarly_Infrastructures_v1/1314859

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Thank you !

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