



# OPEN SCIENCE POLICY AT CNRS

SYLVIE ROUSSET

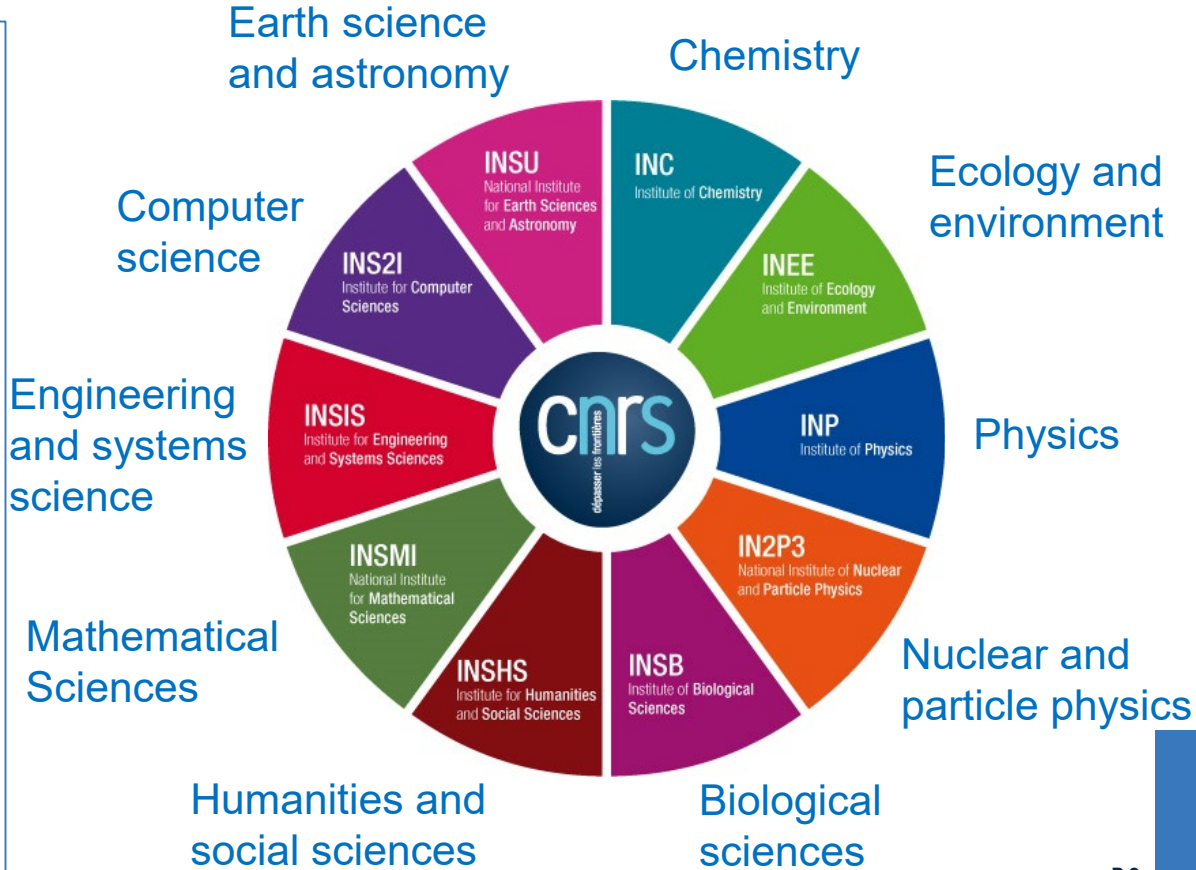
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**1st Meeting of the Openscience working group - ConPER -  
Rome, ITALY  
December, 7th - 2022**

# KEY FIGURES OF CNRS AS A MULTI-DISCIPLINARY RESEARCH PERFORMING ORGANISATION (RPO)

- 10 INSTITUTES
- 34 000 people
- 3,5 billions of Euros
- 1000 research units
- 21 Nobel prize laureates and 12 Fields medal winners
- 50000 articles/year (WoS) + 6500 (SHS)
- Largest pluridisciplinary RPO in Europe



# OPEN SCIENCE IN FRANCE AND CNRS

**1. Creation of a National Open Archive HAL in 2001 by the CNRS**, now the Interconnecting French Network Institutional Archives with 137 Institutional Repositories (HAL Portal), 580000 documents,

**2. Digital Republic Law, October 2016, in France**

Publications : a new right to author - 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 publications

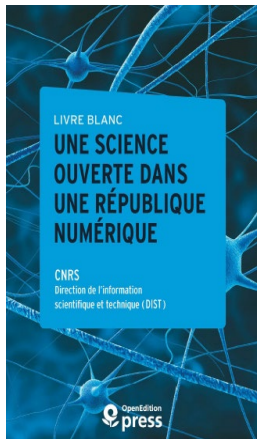
**3. First France's National Plan for Open Science PNSO1), announced in July 2018, by the French Minister of Higher Education, F. Vidal, at LIBER's annual conference.**

three keys commitments : (1) Open Access to Publications; (2) Sharing Research Data and make it available through open access; (3) Be part of a sustainable european and international open science dynamics

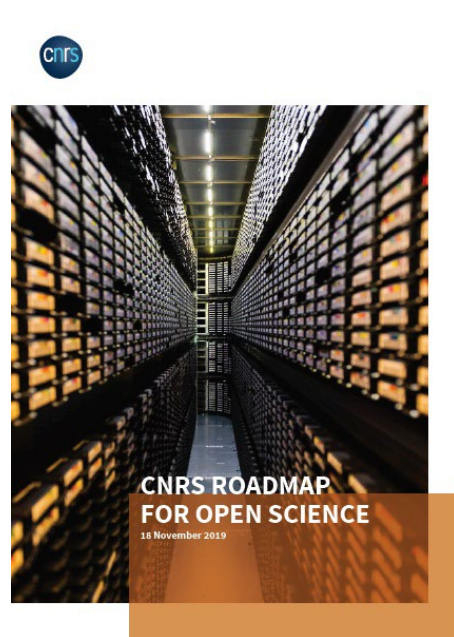
**4. Signature of Plan S in Septembre 2018: ANR (national research funding agency) with 10 other european funding agencies**

**5. Second National Plan for Open Science PNSO2, launched in July 2021**

**6. Launch of « Recherche Data Gouv », the National Platform for Sharing and Opening Research Data, in July 2022**



# OPEN SCIENCE POLICY AT CNRS



**CNRS ROADMAP FOR  
OPEN SCIENCE**  
November 2019



**CNRS RESEARCH  
DATA PLAN**  
November 2020

<https://www.science-ouverte.cnrs.fr/>

Documents are accessible in French, English, or Spanish

**Annual Open Science Day  
(JSO) at CNRS : one working  
day with scientific staff of the  
institutes since 2019**



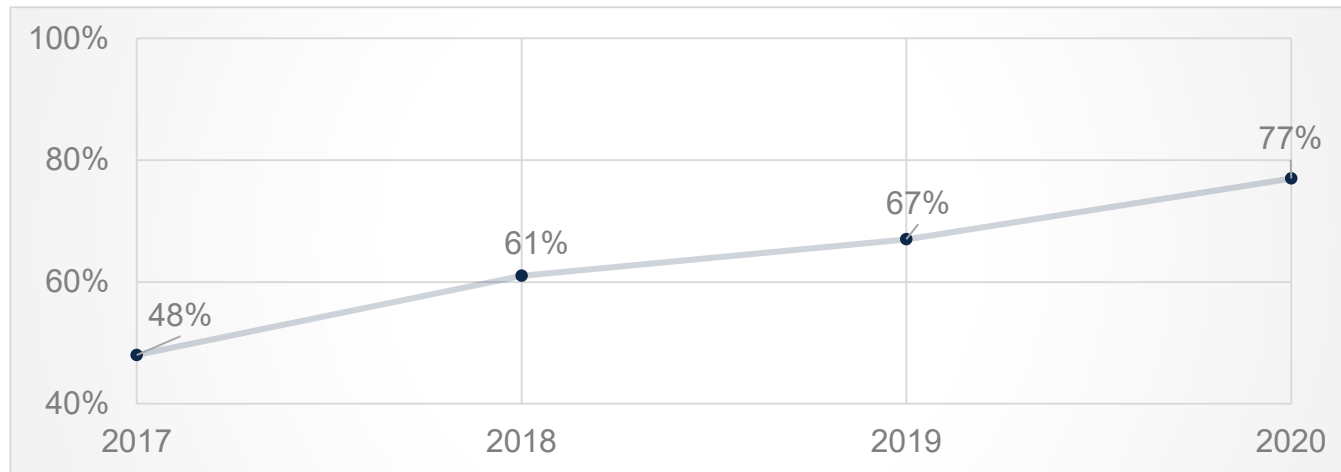
- October, 8th, 2019  
« Open Science : a necessary revolution »
- November, 16th 2020  
« Open Science 2020 : state of the art »
- November, 15th, 2021 –  
« Open Science and practices of individual assessment »
- November, 30, 2022 –  
« Sharing Research Data » -  
auditorium CNRS



# CNRS OPEN SCIENCE ROADMAP

1. 100% of publications in open access and reusable
2. FAIR-ization of research data
  - Findability, Accessibility, Interoperability, and Reusability
3. Develop and promote the use of text and data mining tools
4. Evaluation of researchers

## OPEN ACCESS AT CNRS : WHERE WE ARE (46000 scientific articles in all CNRS units each year)



**NEW!**

94 % of  
publications in  
Open Access  
within the 20000  
articles per year  
published by  
CNRS scientists

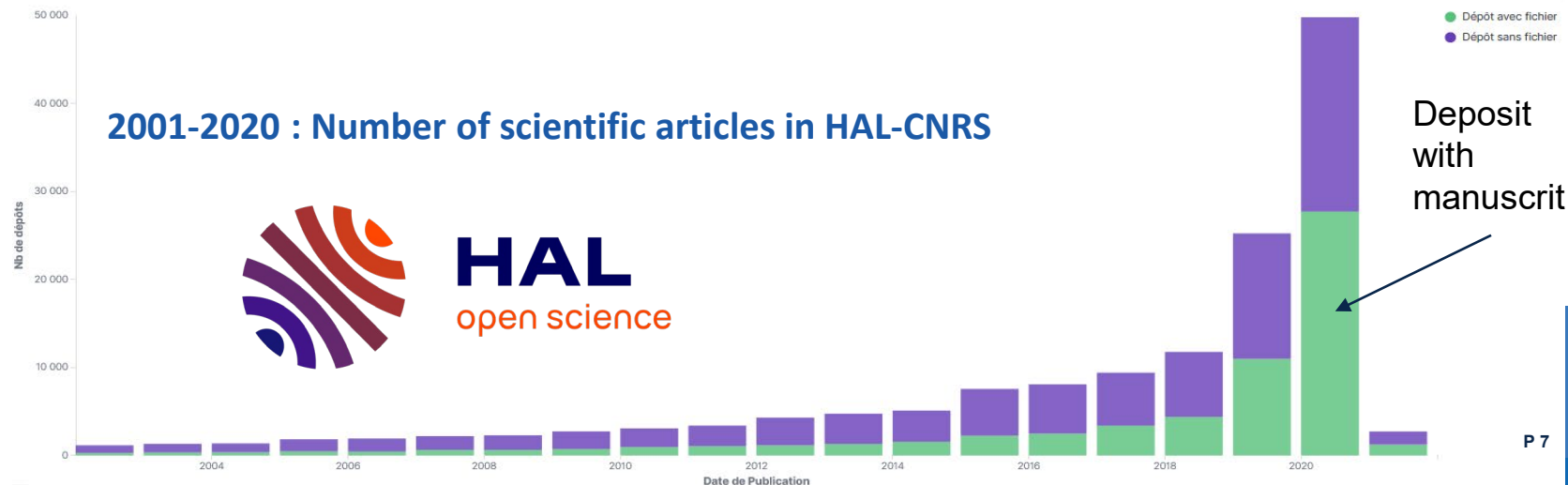
- ✓ 77% OF PUBLICATIONS 2020 IN OPEN ACCESS (OBSERVED IN 2022)
- ✓ BIG INCREASE IN 3 YEARS FROM 49% TO 77%
- ✓ 90 % OF OPEN ACCESS PUBLICATIONS ARE ACCESSIBLE THROUGH THE OPEN ARCHIVES (HAL, ARXIV .....)

# POLICY FOR USING HAL NATIONAL OPEN REPOSITORY

Starting in 2019, the deposit of publications in open archives such as HAL is almost **MANDATORY** :

Each researcher at CNRS fill in a scientific annual report. Now it is not possible anymore to fill in by hand the references of the publications. You have to first deposit the manuscript in HAL, then the field of publication will be automatically filled in.

Even more, since 2020, the manuscript has to be deposited.



# LANDSCAPE OF SCIENTIFIC PUBLISHING

**Report and analysis of scientific publications at CNRS** [www.science-ouverte.cnrs.fr/wp-content/uploads/2022/09/Rapport-DDOR-CNRS-Paysage-de-ledition-scientifique-au-CNRS-Printemps-2022.pdf](http://www.science-ouverte.cnrs.fr/wp-content/uploads/2022/09/Rapport-DDOR-CNRS-Paysage-de-ledition-scientifique-au-CNRS-Printemps-2022.pdf)

## **Concentration of a small number of publishers**

3 big publishers Elsevier, Springer et Wiley issue 50% of the publications

13 publishers issue 80% of the publications

## **Rapid growing of the model « author-pays »**

- **Native open access platforms with mandatory payment of Articles Processing Charges**  
Plos, MDPI (Multidisciplinary Digital Publishing Institute) and Frontiers Media  
Now MDPI fourth place just after Wiley

- **Open access journals with mandatory payment of Articles Processing Charges which are very successful among scientists**  
Scientific Report, Nature Communication, Plos One



## PROJECTION WITH AN ECONOMICAL MODEL WITH APC ONLY

- ✓ NOT AFFORDABLE (CNRS WOULD PAY THREE TIMES MORE THAN TODAY)
- ✓ NON ETHIC (PAYED BY PHARMACEUTICAL COMPANIES)
- ✓ THE QUALITY OF PAPERS MAY BE LOWER (LOWER RATIO OF REJECTED PAPERS)
- ✓ WILL EXCLUDE A LOT OF COUNTRIES (BRAZIL ETC....)

 **Payment of APC should be avoided**

## RECOMMENDATION FOR OPEN ACCESS PUBLISHING

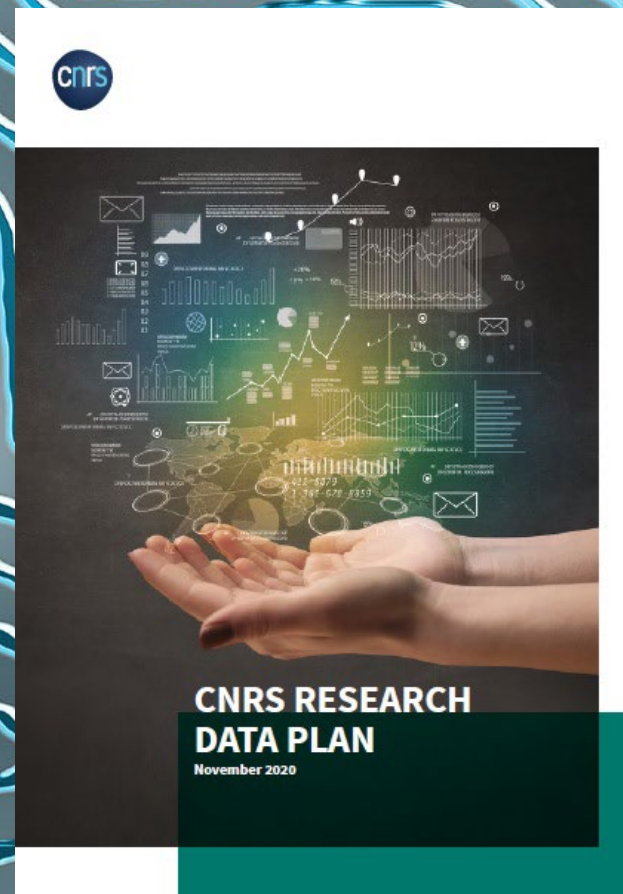
<b>GREEN ROUTE</b> ❖ Open Archives Repository	←	YES
<del><b>GOLD ROUTE</b> ❖ Open access with APC (Article Processing Charge)</del>	←	NO
<b>DIAMOND ROUTE</b> ❖ Open access without APC (cost not paid by author but by institution)	←	YES

**ACTION PLAN FOR DIAMOND OPEN ACCESS** launched in Europe by Science Europe, cOAlition S, OPERAS, and the French National Research Agency (ANR) (March 2022)

Some examples supported by CNRS : OpenEdition – Centre Mersenne – Episciences (overlay journals) – PCI (peer community in) – SMAI (mathematical journals) – S2O model (subscribe to open)

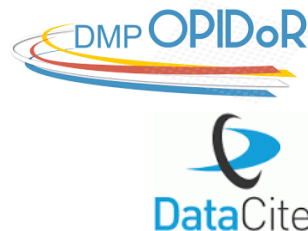
# CNRS RESEARCH DATA PLAN

Launched in november 2020



# FAIR-IZATION OF RESEARCH DATA

- Develop a FAIR culture for data management and sharing.
- Practices vary from one discipline to another among communities.
- Support data infrastructures, including the issue of data repositories for "small data" (also called long-tail data)
- Support researchers with data management tools and joint publication/data repositories, in particular through the DMP OPIDOR tool for data management plan completion, and DOI assignment via Datacite (INIST)
- Assist large research infrastructures in setting up a data policy



Findability, Accessibility, Interoperability, and Reusability

# A NATIONAL PLATFORM FOR SHARING RESEARCH DATA



RÉPUBLIQUE  
FRANÇAISE

*Liberté  
Égalité  
Fraternité*

recherche.data.gouv.fr



**An ecosystem for sharing  
and opening research data**

## An ecosystem for sharing and opening research data

FEDERATE, SUPPORT, SHARE, OPEN, REUSE

Find a dataset

Find data

Submit / Publish a dataset

### News



Comité  
de rédaction

#### Le comité de rédaction de Recherche Data Gouv est lancé !

Une nouvelle marche vient d'être  
gravie : un comité de rédaction  
Recherche Data Gouv s'est réuni en  
cette rentrée 2022 en vue de faire  
vivre le portail...

Published on mardi 04 octobre 2022



Capsule vidéo

#### Capsule Recherche Data Gouv, un projet collectif au service de la science ouverte

[only in french] Nicolas Fressengeas,  
chargé de mission Science ouverte,  
Université de Lorraine et Violaine  
Louvet, directrice de l'UAR GRICAD  
et...

Published on mardi 27 septembre 2022



Clôture de  
l'AMI Ateliers  
de la donnée

#### Last days to join the ecosystem

Clôture du 2ème appel à  
manifestation d'intérêt « Atelier de  
la donnée » de Recherche Data  
Gouv : nous attendons vos  
propositions. La...

Published on lundi 12 septembre 2022



Replay  
de l'inauguration

#### Recherche Data Gouv, seen by its ecosystem

Sylvie Retailleau, Minister of Higher  
Education and Research,  
inaugurated, on July 8, 2022 at Paris  
Cité University, Recherche Data  
Gouv, in the presence...

Published on mardi 30 août 2022

From 17 octobre 2022  
To 18 octobre 2022

Open Access Month  
by the university of Strasbourg

From 24 octobre 2022  
To 30 octobre 2022

Open Access Week  
2022

Open for Climate Justice

On 22 novembre 2022

L'Université de Lille  
engagée dans  
Recherche Data Gouv

Célébrons ensemble  
l'engagement de l'université de  
Lille dans Recherche Data Gouv





# **INDIVIDUAL RESEARCH ASSESSMENT**

2019 starting to change criteria at  
CNRS

# NEW PRINCIPLES FOR RESEARCH ASSESSMENT AT CNRS

DORA signed by CNRS (JULY 2018)



1. Results themselves must be evaluated and not that they have been published in a prestigious journal
2. For each output cited in their assessment reports, researchers must explain their scope, impact, and personal contribution: full list of productions is not required.
3. All types of output should be entitled for consideration in the review
4. Scientific productions cited in the assessment report must be accessible in an open archive

The exhaustive list of publications is not anymore required

# CHANGES TO THE FORMAT OF RESEARCHERS' ASSESSMENT FILES

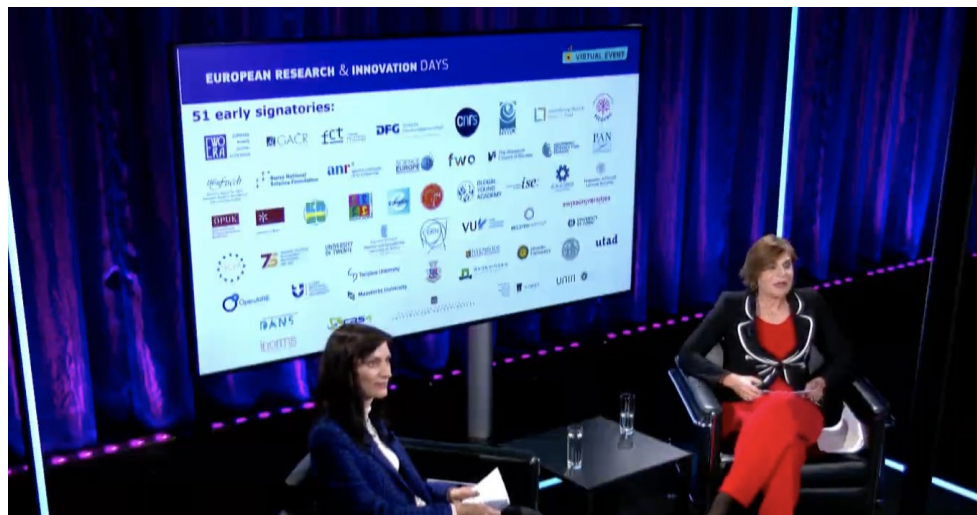
- The diversity of researchers' contributions is taken into account, and researchers or applicants are asked to situate themselves on four aspects of their activities:

1. Contributing to the advancement of science
2. Supervising students, teaching, disseminating research products
3. Innovating, transferring, research results,
4. Managing and/or taking on collective responsibilities

The issue of commitment to geographical, thematic or functional mobility is also directly addressed.

- The full list of "publications" is no longer required

# REFORMING RESEARCH ASSESSMENT IN EUROPE



CoARA Steering Board.

Letschert, Rianne	<b>Chair</b>
Gadd, Elizabeth	<b>Vice-Chair</b>
Stroobants, Karen	<b>Vice-Chair</b>
Borrell-Damian, Lidia	<b>SB member</b>
Boyle, Paul	<b>SB member</b>
Flores Bueso, Yensi Alejandra	<b>SB member</b>
Koenig, Matthias	<b>SB member</b>
Méndez, Eva	<b>SB member</b>
Rizzi, Menico	<b>SB member</b>
Rousset, Sylvie	<b>SB member</b>
Susi, Toma	<b>SB member</b>

✓ Type of organisation:

UNI	Universities, and their associations	3
RPO	Research centres, research infrastructures, and their associations	1
ACA	Academies, learned societies, and their associations, and associations of researchers	3
FUN	Public or private research funding organisations and their associations	2
AUTH	National/regional authorities or agencies	1
OTH	Other relevant not-for-profit organisations involved with research assessment, and their associations	1

✓ Gender:

Women	Men
7	4

- On 28 September, the European Commission launched the collection of signatures for an agreement whose signatories will form a coalition CoARA [www.coara.eu](http://www.coara.eu) to reform research assessment. The CNRS was among the first signatories.
- Recognizing diverse contributions and careers, taking into account activities such as teaching, supervising students, scientific mediation, innovation, involvement in open science or the community, etc.
- Being more qualitative and less quantitative (less bibliometrics indicators)
- 1<sup>st</sup> of December : Constitutive Assembly of CoARA and Election of the steering board.



The background of the slide is an abstract image with a blue and yellow color scheme, featuring diagonal streaks and a bright, elongated orange-yellow shape in the lower center, resembling a comet or a high-speed object. The word 'GRAZIE!' is centered in a white box over this image.

GRAZIE!

<https://www.science-ouverte.cnrs.fr/>