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2024

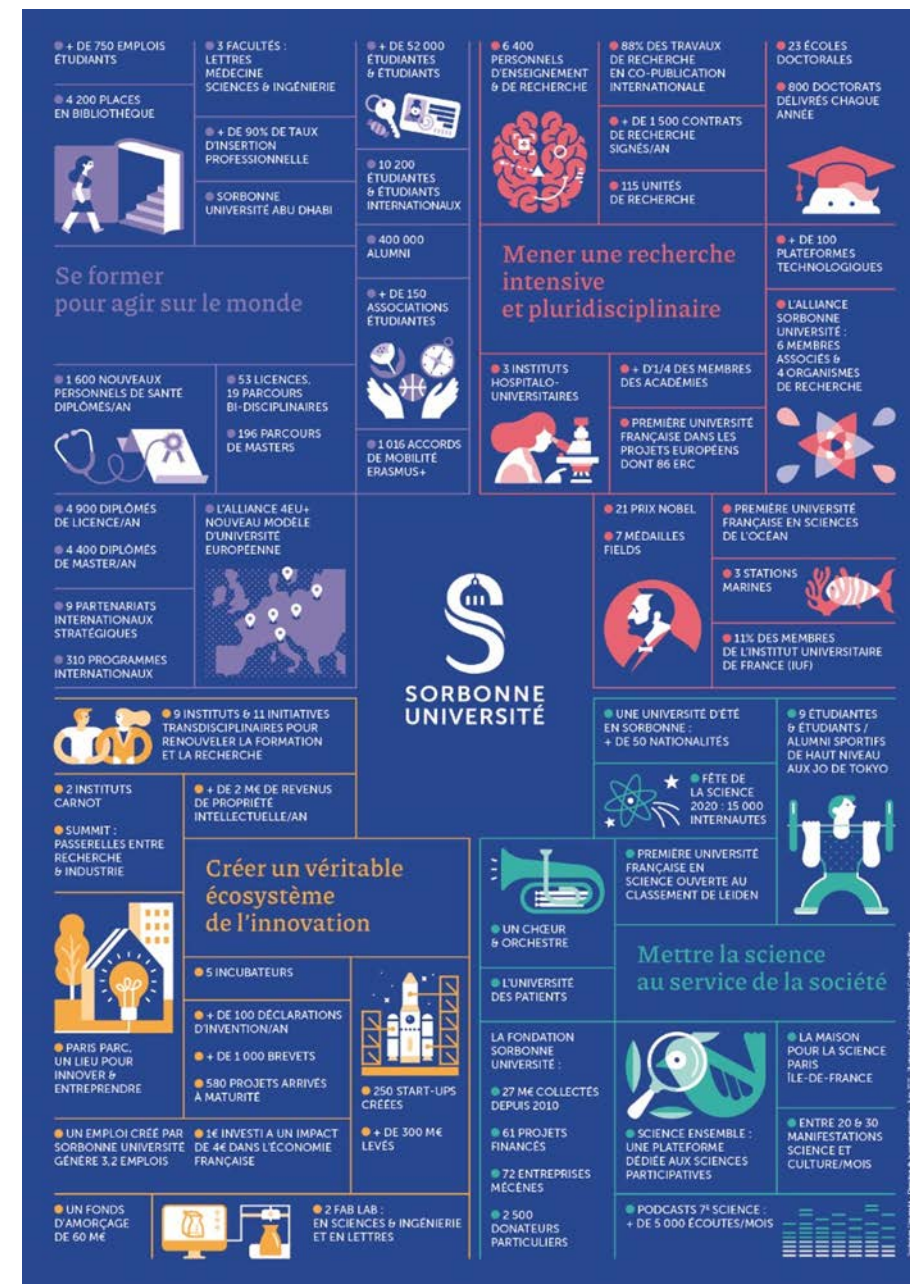
Open Research Information Why and how Sorbonne University decided to take the plunge

ANNE-CATHERINE FRITZINGER, Sorbonne University, Deputy general director,
in charge of Public Engagement, Knowledge Dissemination and Open Science



SORBONNE UNIVERSITY

1. THREE FACULTIES : HEALTH SCIENCES, SCIENCE AND ENGINEERING, ARTS & HUMANITIES
2. ABOUT 7 000 RESEARCHERS, 3 000 DOCTORAL STUDENTS, 55 000 STUDENTS
3. 135 RESEARCH STRUCTURES : LAB, INSTITUTES, INITIATIVES
4. PARTNERSHIP WITH NATIONAL RESEARCH ORGANISATIONS : CNRS, INSERM, INRIA, IRD
5. 15 000 PUBLICATIONS A YEAR : 14% OF FRENCH PUBLICATIONS



A strong Open Science policy

2011 Institutional repository

2019 Open Access policy

2021 Open Data policy

2021 Policy for promoting open science activity in the internal evaluation of research

2021 Rights Retention Strategy support

2022 MOOC Open Science

2022 Signature DORA

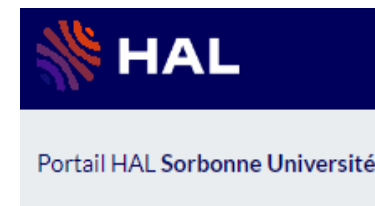
2022 Signature COARA

2023 Audit by High Council for Evaluation of Research and Higher Education

2018-2021 National Open Science Plan #1

2021-2024 National Open Science Plan #2

2022 COARA



Open access policy

Sorbonne University is committed to

- **support** its research staff and Phd students in the publication process
- **promote** the value of content and the openness of scientific output



Sorbonne University research staff and doctoral students are committed to

- **Submit the full text**, as soon as it is accepted and at the latest on the date of its publication, of any **article** or conference proceedings in the Sorbonne University HAL repository
- **Reference monographs** and other publications



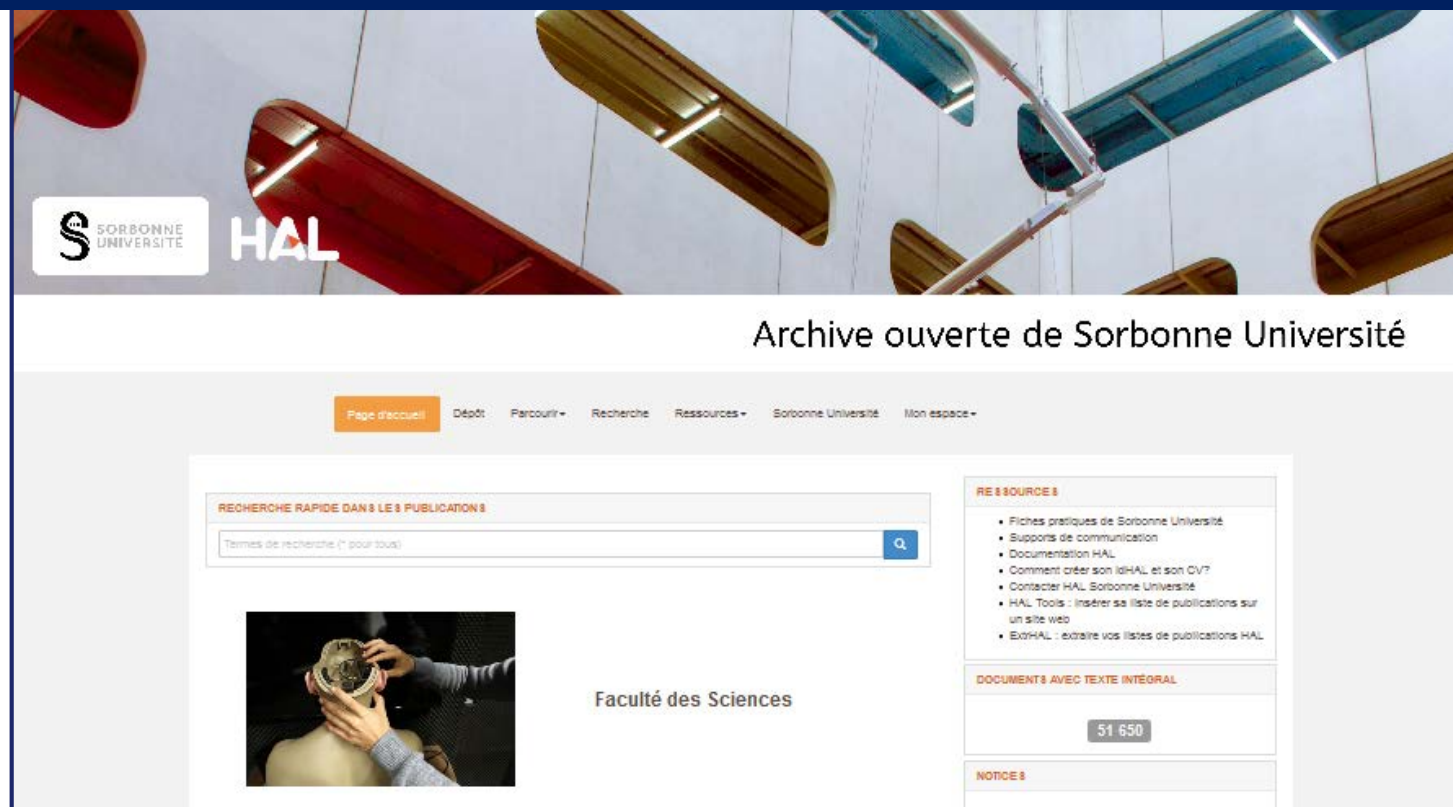
Open repository HAL

French. Born in 2001

CCSD (INRIA, CNRS)

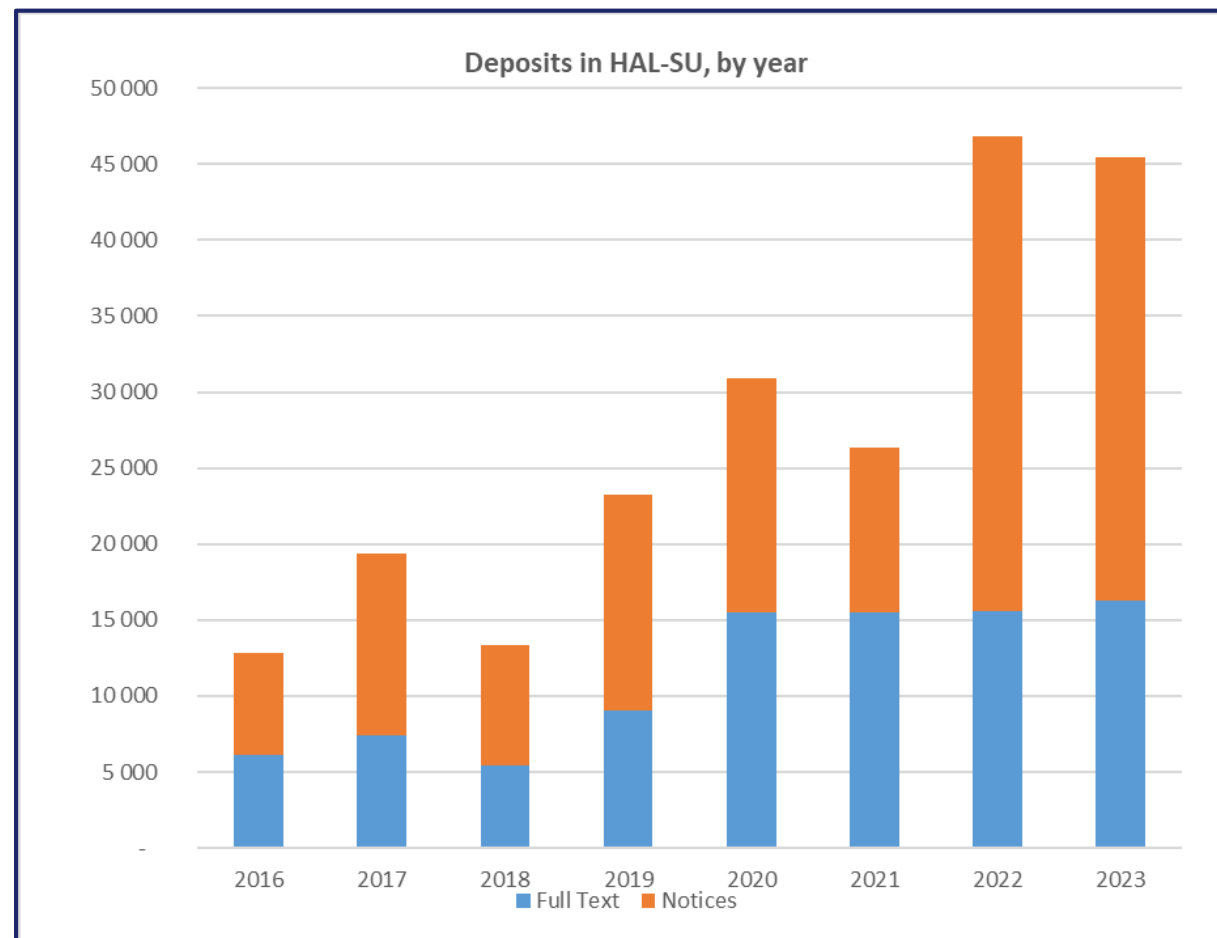
A base with institutional portals

To deposit and disseminate your publications



<http://hal.sorbonne-universite.fr>

A pragmatic approach



Emphasis on Green Open Access
support for Right retention strategy

Support and training
researchers
students
staff

Mooc on Open Science
with a section on research integrity

We cancel subscriptions



Limits of proprietary tools

Until 2023, Web of Science as the source for identifying our publications

- Poor coverage of French language publications

- Poor coverage of publications that are not journal articles

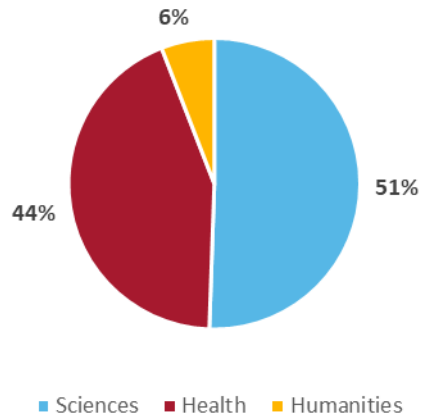
- Poor quality of metadata, especially affiliation metadata

- Publications in humanities: the blind spot

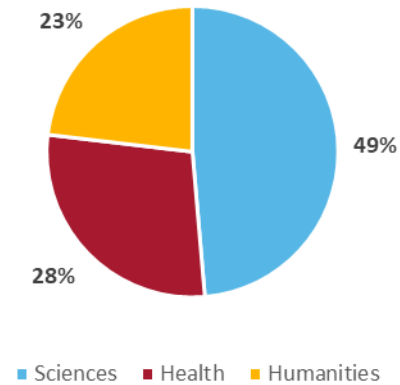
We were investing a lot of time and effort in correcting metadata in a product we were paying (a lose-lose model for us and a win-win model for investors)

Publications in humanities: the blind spot

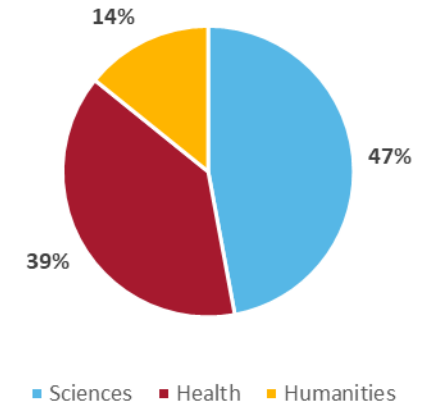
French research assessment agency
(HCERES - based on WoS)



Open Repository (HAL-SU)



OpenAlex



Unsubscribing from WoS: opportunities and alignment of the planets

National Open Science Plan

National consortium for negotiations on electronic resources subscriptions

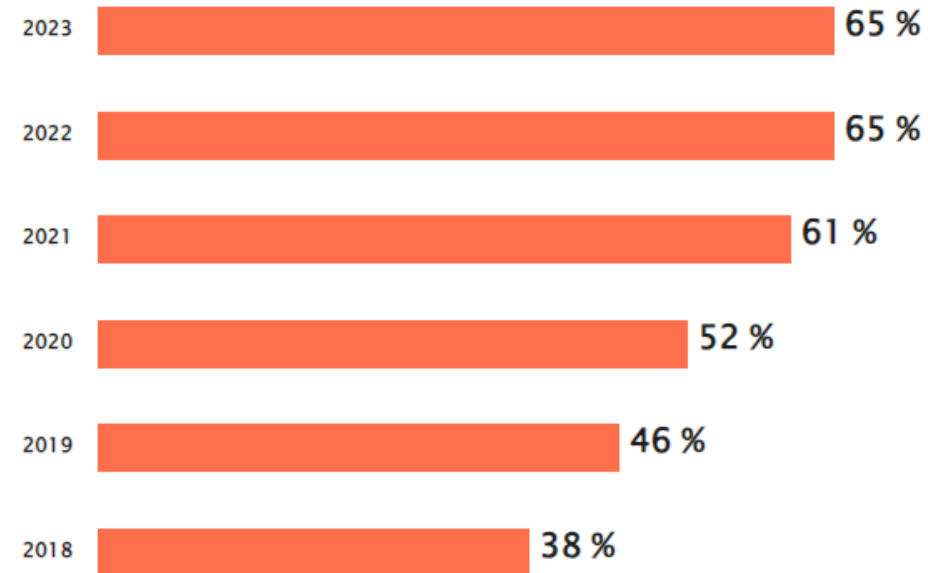
2023 : negotiations for bibliometric databases

Promising development of OpenAlex

CWTS Leiden announcing they would stop using proprietary data for their ranking and use open data

Reflexions on the what would become the Barcelona Declaration

Taux d'accès ouvert des publications scientifiques françaises, avec un DOI Crossref, parues durant l'année précédente par année d'observation



Baromètre français de la Science Ouverte - CC-BY MESR

Timeline 2023 – towards WoS cancellation



PRESS RELEASE

Open Science: Sorbonne University unsubscribes from *Web of Science*

Paris, December 12, 2023

Sorbonne University has been deeply committed to the promotion and development of open science for many years. According to its commitment to open research information, it has decided to discontinue its subscription to the *Web of Science* publication database.

EL PAÍS

MANUEL ANSEDE
Madrid · 16 ABR 2024 · 13:29 CEST

La universidad francesa de la Sorbona provocó un terremoto en la ciencia mundial el 8 de diciembre, cuando [anunció](#) que cancelaba su suscripción a [la Web of Science](#), una omnipresente base de datos de la multinacional londinense Clarivate que se emplea en todo el mundo para evaluar a los científicos y concederles, o no, ascensos y financiación. Cientos de millones de euros de dinero público se reparten en función de estos datos de plataformas privadas, sobre todo de la Web of Science y de [Scopus](#), una herramienta similar de la editorial holandesa Elsevier. La Sorbona y otro medio centenar de organizaciones, incluido el Consejo Superior de Investigaciones Científicas (CSIC) español, han presentado este martes [la Declaración de Barcelona](#), una iniciativa para transformar radicalmente este sistema y hacerlo abierto.

ROARS
Return On Academic Research and School

HOME CHI SIAMO ARGOMENTI IDEE APPROFONDIMENTI SEGUICI ROARS IN ENGLISH SOSTIENICI

Scienza Open science

La Sorbona adotta OpenAlex e interrompe l'abbonamento a Web Of Science

Di Paola Galimberti · 28 Dicembre 2023 · 0

Sorbonne's embrace of free research platform shakes up academic publishing

Paris university's 'radical decision' to join OpenAlex challenges for-profit providers



The Sorbonne says it made the 'radical decision' in order to 'reappropriate the results of research and to be in a position to regain control and ownership of what we produce' © Loic Venance/AFP/Getty Images

Timeline 2024 : towards Open Research Information



Research assessment

2021 : Policy for promoting open science actions in the internal evaluation of research

- the content and intrinsic quality of research work;
- open access publication;
- the opening of research data;
- the dissemination of knowledge;
- other actions in favour of the opening of science

2022 :

- San Francisco Declaration on Research Assessment
- Agreement on the reform of research evaluation (COARA)

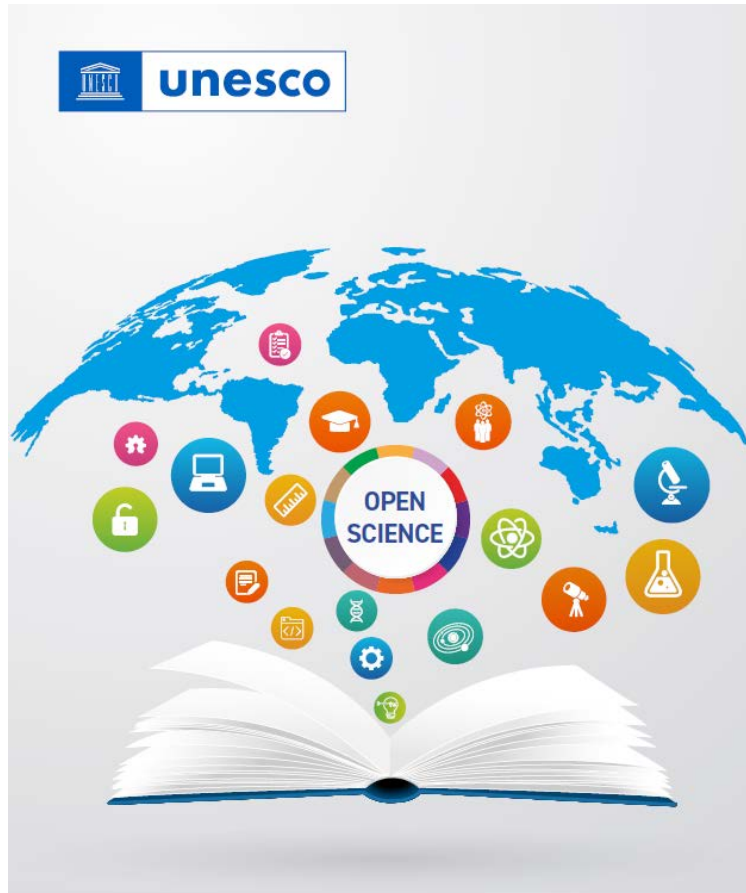
Declaration on Research Assessment



BARCELONA
DECLARATION ON
OPEN RESEARCH
INFORMATION

“remove all reuse
limitations on reference
lists in research articles and
make them available under
the Creative Commons
Public Domain Dedication”

UNESCO Recommendation on Open Science



**UNESCO Recommendation
on Open Science**

“The monitoring of open science should be explicitly kept under public oversight, including the scientific community, and whenever possible supported by open non-proprietary and transparent infrastructures”

Coalition for Advancing Research Assessment



BARCELONA
DECLARATION ON
OPEN RESEARCH
INFORMATION

“Ensure independence and transparency of the data, infrastructure and criteria necessary for research assessment and for determining research impacts”

Main issues at Sorbonne University

Need for monitoring

- Of publications
- Of research
- Of our Open Science policy

At the governance level

- Critical view of international rankings and their methodology
- Awareness of the limits of proprietary tools

In 2023, strategic choice to use HAL-SU as a monitoring tool

- Important investment to promote the use of HAL
- Retrospective deposits projects
- HAL as a source for the HCERES assessment (previously: WoS extractions or excel files)



Nathalie DRACH-TEMAM • 1er

Présidente de Sorbonne Université

1 mois • Modifié •

La progression de [#Sorbonne_univ](#) dans le classement de [#ShanghaiRanking](#) offre une opportunité de clarifier le rôle de ce classement international et ce qui fait l'université.

Le classement de Shanghai : un outil de communication

Le classement de Shanghai est devenu un outil de communication et un baromètre international des performances des écosystèmes de recherche nationaux qui montre en 2024, une progression du système français. Il permet chaque année à la presse et au public de s'intéresser aux universités et doit être l'occasion de rappeler que la production de connaissances est un moteur d'innovation et que progrès scientifiques et progrès sociétaux peuvent se conjuguer. Il doit aussi permettre par les résultats des universités françaises de mettre en avant le modèle de service public, fort des personnels titulaires et basé sur des frais d'inscription modérés.

Au-delà du classement : une évaluation plus adaptée

En se concentrant sur un nombre limité d'indicateurs (publications en anglais dans les sciences dures, prix Nobel, médailles Fields), le classement de Shanghai ne rend pas compte de la diversité des activités de recherche, des contextes culturels et de l'impact sociétal des travaux de recherche. De plus, il est basé sur des données commerciales (Web Of Science) et des services bibliométriques payants. Il n'est pas un outil de pilotage pour les universités qui doivent évaluer leur recherche de manière plus complète et pertinente en prenant en compte une large diversité de disciplines (incluant sciences humaines et sociales, lettres, droit, économie...) et de langues de diffusion.

NATHALIE DRACH-TEMAM [LINKED IN](#)

Commitments

Open research information

“By open research information we mean research information that is free to access and free of restrictions on reuse. Openness of research information is a spectrum, not an absolute. Just like research data should ideally adhere to the FAIR principles for Findability, Accessibility, Interoperability, and Reusability, open research information should ideally also follow these principles. If the highest levels of Findability, Accessibility, Interoperability, and Reusability are realized, research information is both open and FAIR.”

BARCELONA DECLARATION ON OPEN RESEARCH INFORMATION



Commitment 1

We will make openness the default for the research information we use and produce

BARCELONA DECLARATION ON OPEN RESEARCH INFORMATION



Commitment 2

We will work with services and systems that support and enable open research information

BARCELONA DECLARATION ON OPEN RESEARCH INFORMATION



Commitment 3

We will support the sustainability of infrastructures for open research information

BARCELONA DECLARATION ON OPEN RESEARCH INFORMATION



Commitment 4

We will support collective action to accelerate the transition to openness of research information

Why research information must be open

Closed research information

We are assessing researchers and institutions based on **non-transparent evidence**...

We are making decisions based on information that is **biased against less privileged languages, geographical regions, and research agendas**...

We are monitoring and incentivizing open science using **closed data**...

— but —→



fair assessment requires full transparency

— but —→



equitable decision-making requires inclusive data

— but —→



open science requires open research information

Open research information



Action plan at SU...

Enriching metadata

as a producer and not an end user

for our benefit but also the benefit of the whole community

Working on

HAL

DOI (as a publisher)

ROR

PID in general



... with other signatories of the Barcelona Declaration

Goals of the Conference of Paris (september 2024)

- Build community and define what we can work on together
- Share information and experiences around adoption of open research information and implementation of the commitments
- Develop an initial road map of next steps that need coordination and collaboration between signatories and supporters.

Organizing committee

- Amélie Church (Sorbonne Université)
- Bernardo Rondelli (SIRIS Foundation)
- Bianca Kramer (Sesame Open Science)
- Cameron Neylon (Curtin Open Knowledge Institute)
- Nees Jan van Eck (CWTS, Leiden University)
- Ludo Waltman (CWTS, Leiden University)

An Ethical position

Beyond openness and data quality

- highlighting research in all its dimensions, and not just IF and rankings
- diversity of languages : aligned with SU's strategic partnerships in Africa and Latin America
- diversity of outputs

Research integrity and research assessment challenges

- COARA implementation
- Openness as a criteria for assessment in itself

Engagement with society

- trust in science

THANKS !



Challenges : complexity of the French research ecosystem

Advanced Methods for Analyzing in-Situ Observations of Magnetic Reconnection

H. Hasegawa¹  · M.R. Argall² · N. Aunai³ · R. Bandyopadhyay⁴ · N. Bessho^{5,6} · I.J. Cohen⁷ · R.E. Denton⁸ · J.C. Dorelli⁶ · J. Egedal⁹ · S.A. Fuselier^{10,11} · P. Garnier¹² · V. Génot¹² · D.B. Graham¹³  · K.J. Hwang¹⁰ · Y.V. Khotyaintsev^{13,14}  · D.B. Korovin¹⁵ · B. Lavraud^{12,16} · Q. Lenouvel¹² · T.C. Li⁸ · Y.-H. Liu⁸ · B. Michotte de Welle³ · T.K.M. Nakamura^{15,17} · D.S. Payne¹⁸ · S.M. Petrinec¹⁹ · Y. Qi²⁰ · A.C. Rager⁶ · P.H. Reiff²¹ · J.M. Schroeder⁹ · J.R. Shuster² · M.I. Sitnov⁷ · G.K. Stephens⁷ · M. Swisdak¹⁸ · A.M. Tian²² · R.B. Torbert^{23,24} · K.J. Trattner²⁰ · S. Zenitani^{15,25}

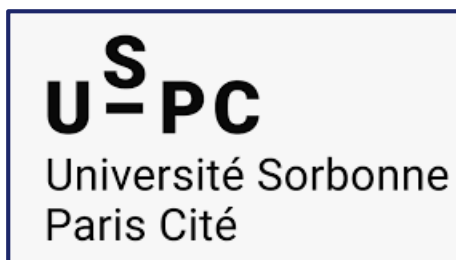
¹ Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency, Sagami-hara, Kanagawa 252-5210, Japan

² Space Science Center, Institute for the Study of Earth, Oceans, and Space, University of New Hampshire, Durham, NH 03824, USA

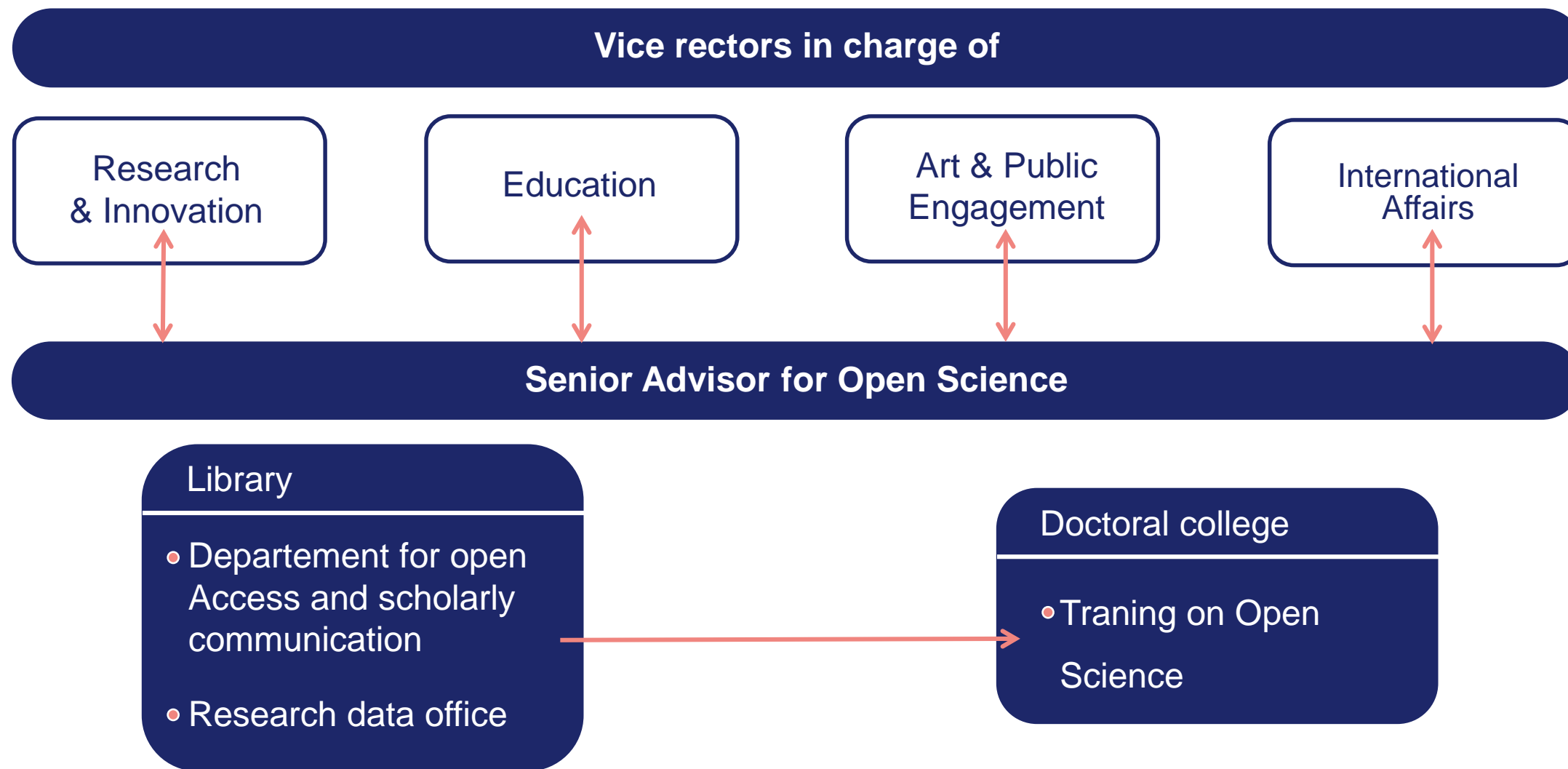
³ CNRS, Ecole polytechnique, Sorbonne Université, Université Paris Sud, Observatoire de Paris, Institut Polytechnique de Paris, Université Paris-Saclay, PSL Research University, Laboratoire de Physique des Plasmas, Palaiseau, France

⁴ Department of Astrophysical Sciences, Princeton University, Princeton, NJ 08544, USA

⁵ Department of Astronomy, University of Maryland, College Park, MD 20742, USA



Stakeholders on Open Science at SU



Sorbonne Université Strategic Plan for 2019-2023

Includes :

- Raising researchers' awareness on Open Science,
- Supporting the development of internal and national infrastructures for data management and sharing,
- Offering training and support on good practices on Data Management Plans,
- Designing internal support and incentives that include open science,
- Promoting the emergence of new publication models (Open Access, Open Edition).

« Open Science » MOOC

Online course on the [FUNmooc platform](#)

All « in house »

- Course design
- Video shooting/editing/animation
- Texts and images
- Course management

The course

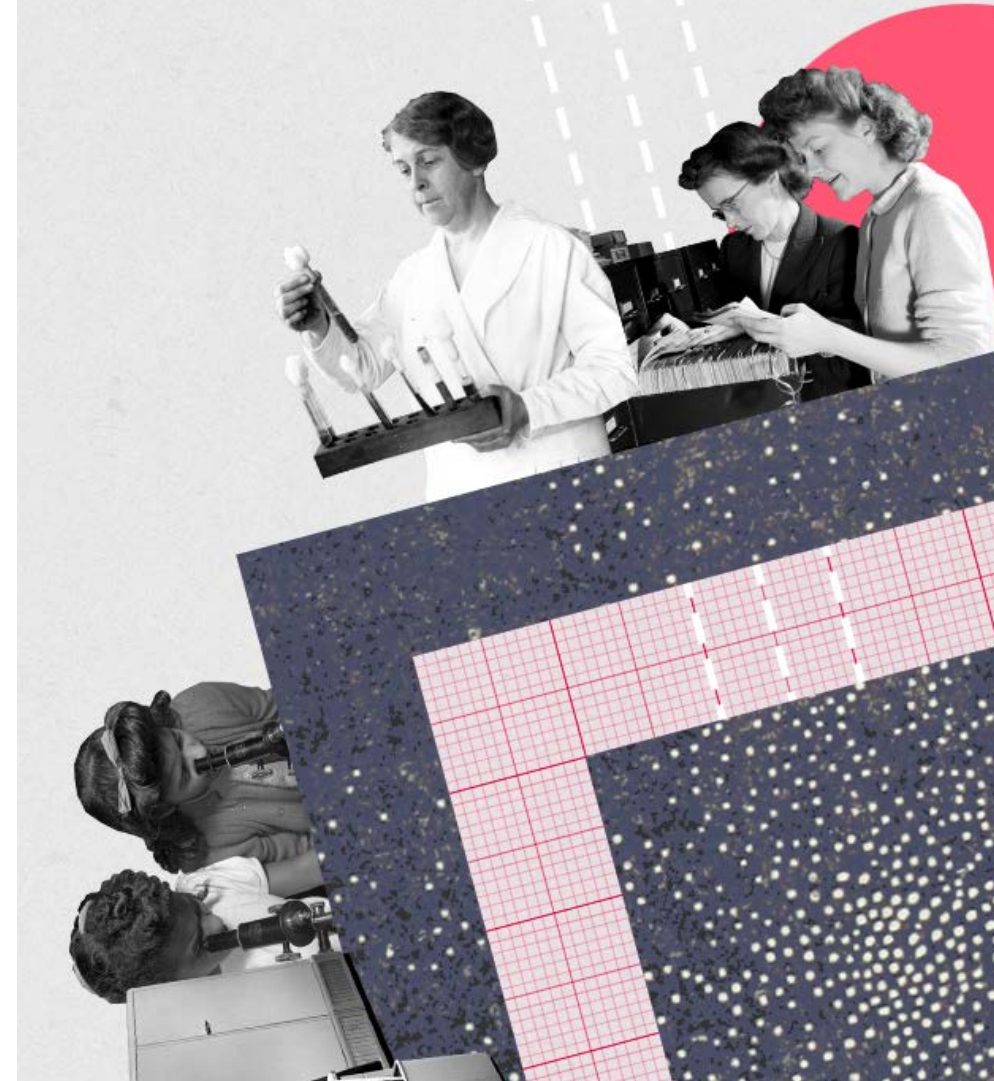
- 4 « mandatory » modules (Publication, Data, Evaluation, trust and integrity, Citizen Science) + 1 optional module (Sciences and society)
- 8 hours of contents (french + english)

All reusable






















- CC-BY licence,
- Multiple archives (Zenodo, Youtube, Flickr)

open science

mooc



Open access : which results ?

CWTS Leiden Ranking Open Edition				Leiden University	CWTS	CWTS B.V.	Other CWTS sites ▼
Home	Ranking	Information ▼	Resources	Services	Contact ▼		
	University		P	P(OA)	PP(OA)		
1	Univ Coll London		59898	52969	88.4%		
2	Univ Oxford		51341	45400	88.4%		
3	Sorbonne Univ		42153	35779	84.9%		
4	Univ Cambridge		40952	35108	85.7%		
5	Imperial Coll London		39542	34020	86.0%		
6	Univ Copenhagen		35911	26436	73.6%		
7	Univ Paris-Cité (EPE)		35282	29324	83.1%		
8	Univ Paris-Saclay (EPE)		33434	27857	83.3%		
9	Katholieke Univ Leuven		32667	26703	81.7%		
10	 Utrecht Univ		31255	27817	89.0%		

Training on Open Science

Examples

- Academic publication and research integrity seminar
- Diffusion and impact of academic research : what is at stake ?
- Publishing in open access using the rights retention strategy
- Managing and opening research data in 5 points

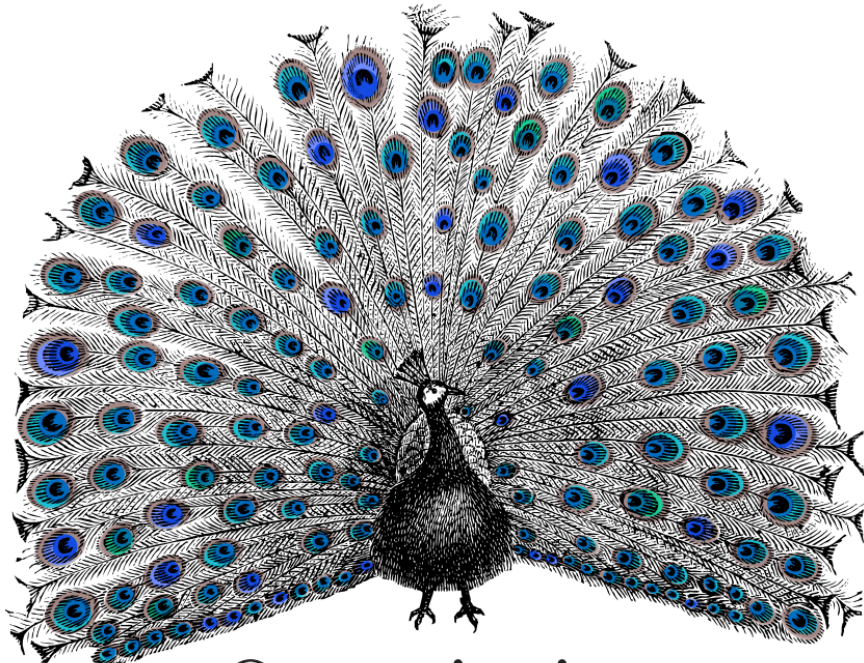
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Barcelona Declaration

- To draft the Barcelona Declaration on Open Research Information, a workshop was organized **in Barcelona in November 2023**, hosted by **SIRIS Foundation**
- **Over 25 research information experts**, representing organizations that carry out, fund, and evaluate research, as well as open infrastructure organizations, participated in the workshop
- Preparation of the Declaration was coordinated by **Bianca Kramer** (Sesame Open Science), **Cameron Neylon** (Curtin Open Knowledge Initiative, Curtin University), and **Ludo Waltman** (Centre for Science and Technology Studies, Leiden University)
- Declaration was published **in April 2024**

Open citations



Open citations

Make bibliographic citation data freely available and substantial benefits will flow, says **David Shotton**, director of the Open Citations Corpus.

“In this open-access age, it is a scandal that reference lists from journal articles — core elements of scholarly communication ... — are not readily and freely available for use by all scholars”

Roadmap topics

1. Journal Article Metadata

108

2. IR/Preprint/Data Metadata

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4. Funding Metadata

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6. Replacing Closed Systems

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7. Sustainability of Infrastructures

112

8. Evaluating Open Data

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9. Evidence of Benefits

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