# From Open Access to Open Science, the way forward

-

# National and European initiatives

# LIBER at a glance

# Europe’s Research Library Network

**Founded in 1971**

Research libraries working together for nearly 50 years.

**451 Libraries**

National and university libraries, plus special libraries, consortia, and individuals.

**40 Countries**

A third of LIBER libraries are located in Southern and Eastern Europe.

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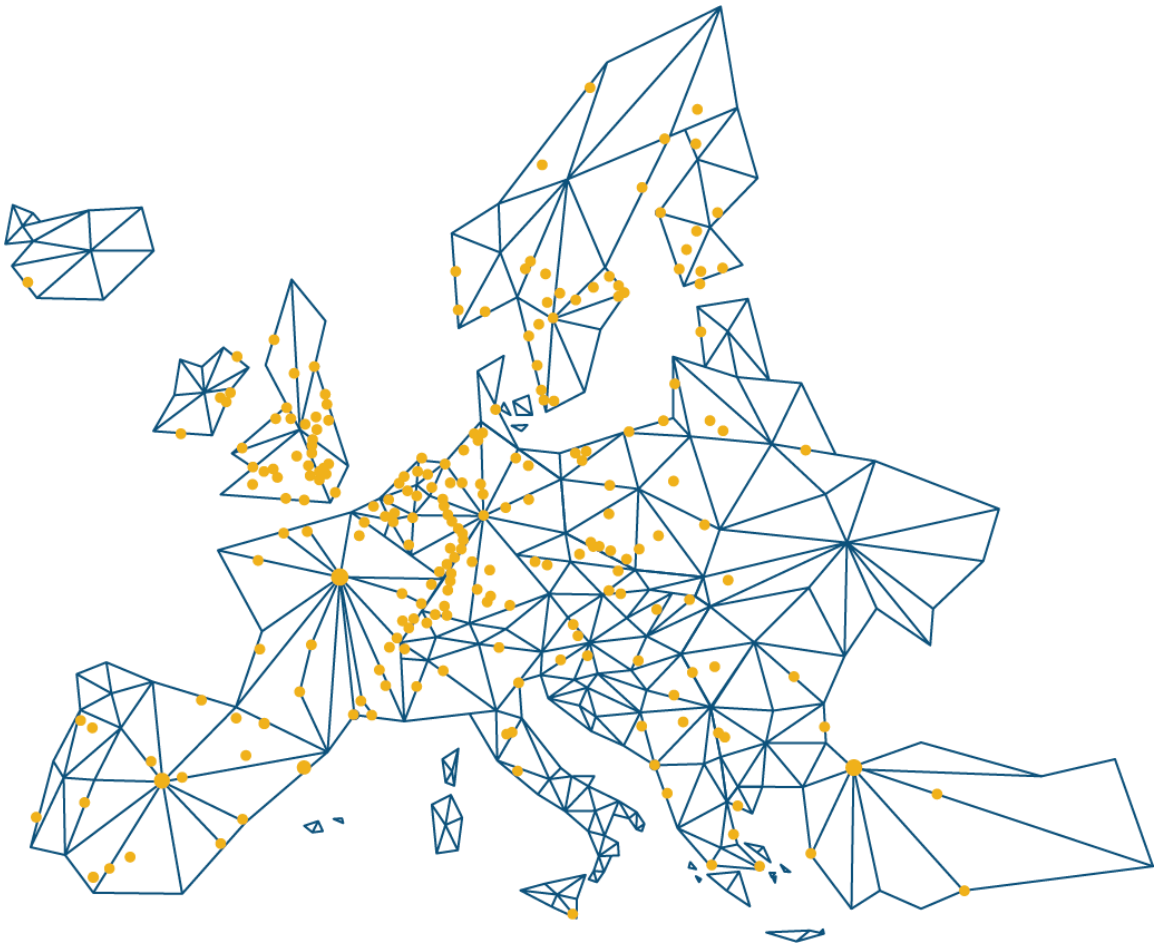

**Together with its libraries and partners, LIBER aims to enable world-class research.**


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# Powering Sustainable Knowledge in the Digital Age

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# Vision: The Research Landscape in 2022

**Open Access**

Is the main form of publishing

**Research Data**

Is Findable, Accessible, Interoperable and Reusable (FAIR)

**Digital Skills**

Underpin a more open, transparent research life cycle

**Research Infrastructure**

Is participatory, tailored and scaled to the needs of diverse disciplines

**Cultural Heritage**

Of tomorrow is built on today's digital information

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# Liber Open Science roadmap

# What is the challenge for Europe?

# LIBER priorities regarding Open Science

ENCOURAGE **the development of Open Science and Open Access policies and strategies** in universities or research performing organisations**.**

ENGAGE **in the development of national and European legislation and policies which impact on Open Science.**

STRIVE **to make everyone** in various communities, from students and researchers to staff and partners, **an Open Science advocate.**

SUPPORT, **promote and participate in international Open Science initiatives.**

DEVELOP **training programmes and guidelines** which support the entire Open Science ecosystem and cover key concepts such as Open Access, FAIR Data, metadata and data management and Citizen Science**.**

ADOPT **technology and provide services which support Open Science.**

COLLABORATE **nationally and internationally to develop best practices which support Open Science,** and to ensure that solutions are appropriately scaled to support the international research community.


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# 7 focus areas for LIBER roadmap

*Scholarly publishing*

*FAIR data*

*Research infrastructure and the EOSC*

*Metrics and rewards*

*Open science skills*

*Research integrity*

*Citizen science*

https://zenodo.org/record/1303002


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# Scholarly publishing (recommendations and actions)

- **Ensure an Open Science policy or Open Access mandate is in place** in institutions
- Directly champion Open Science by embracing a **new role as a direct publisher of information**
- Commit to LIBER's **licensing principles for Open Access negotiations** when negotiating with publishers. https://libereurope.eu/article/open-access-five-principles-for-negotiations-with-publishers/ - Licensing and Open Access go Hand-in-Hand / No Price Increase / No Non-Disclosure / Keep Access Sustainable / Usage Reports Should Include Open Access
- **Examine new models for journal delivery** such as mega journals, a format popular with research funders
- Set up an **Open Access Working Group** providing libraries with practical guidance for implementing Open Access
- **Produce report and workshop on OA monographs across Europe**. https://libereurope.eu/article/oa-monographs-in-europes-research-libraries-best-practices-opportunities-challenges/4. Inform and provide guidelines for our network
- Act as an **Open Access publisher** for the research library community –LIBER Quarterly journal
- **Support critical Open Access infrastructure**, sitting on the SCOSS Board

Relevant initiatives LIBER is part of

**https://libereurope.eu/article/liber-wins-role-in-open-access-publishing-platform/**


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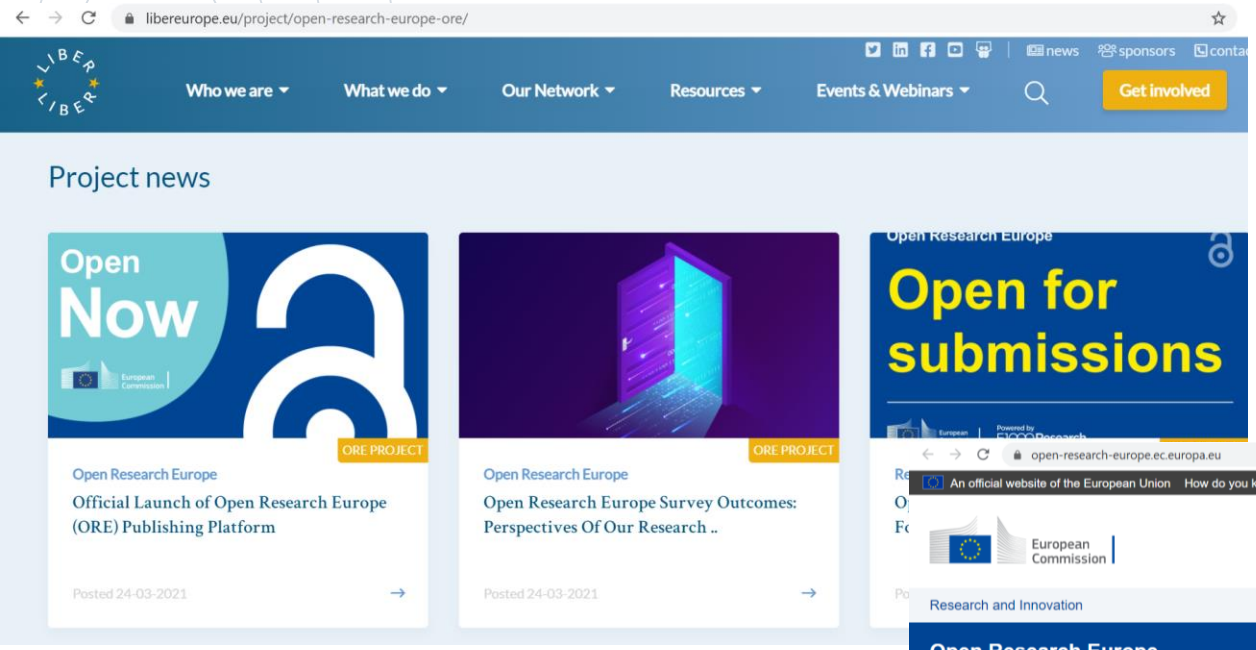
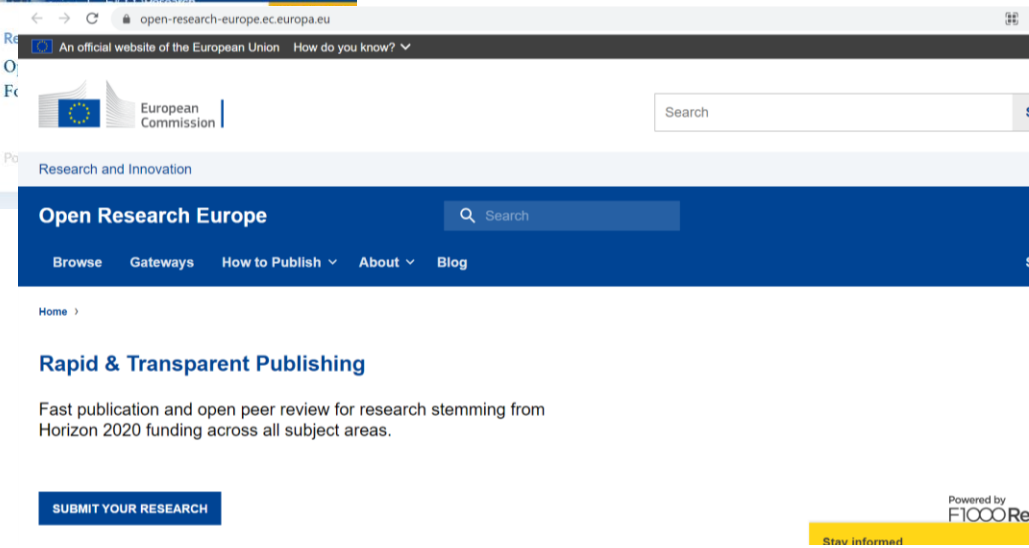
# Open Research Europe [https://open-research-europe.ec.europa.eu/](https://open-research-europe.ec.europa.eu/)





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# FAIR data (recommendations and actions)

- Invest in **staff with good data skills** and train personnel to promote FAIR principles
- Work to make the use of FAIR-compliant **Output and Data Management Plans mandatory**
- Develop and provide **certified repositories** and intelligent tools for researchers to support FAIR data management
- Automate as much as possible the **metadata production and data management** during the data life-cycle
- Advocate for **copyright legislation** which supports FAIR data and encourages techniques dependent on it, such as text and data mining.
- Share **best practices and case studies**
- Set up a **Research Data Management Working Group** to help libraries secure a critical role in the 21st century scholarly information infrastructure and to recognize research data as valuable academic resources
- Set up **RDM and FAIR data bootcamps** https://libereurope.eu/mec-events/train-the-trainer-rdm-bootcamp-day-2/ and **webinars** https://www.youtube.com/watch?v=kuu7MR8-eCA
- Publish **guidelines** like *Implementing FAIR Data Principles : The Role of Libraries*. https://libereurope.eu/wp-content/uploads/2017/12/LIBER-FAIR-Data.pdf

Relevant initiatives LIBER was part of

**https://libereurope.eu/project/aarc2-increasing-the-uptake-of-federated-access/**


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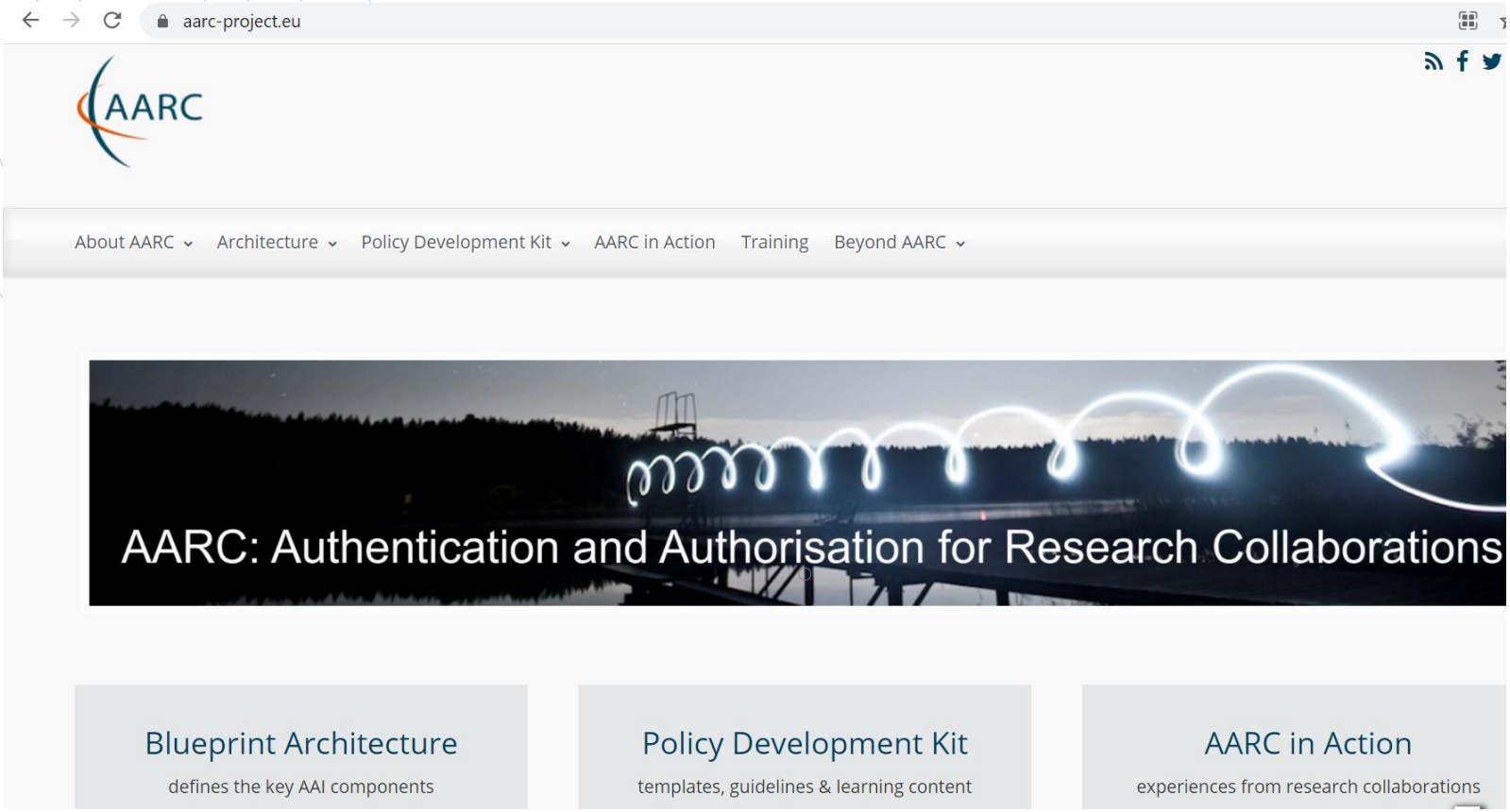
# AARC2 https://aarc-project.eu/





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# Research infrastructure and the EOSC (recommendations and actions)

- Link institution's strategies and policies to the EOSC in order to maintain the **highest possible standard of data infrastructures** offered at the institutional level.
- Promote the **EOSC** to students, researchers and other staff members **as both a source of information and a place to publish research outputs**, in addition to institutional and national repositories.
- Advocate for institution to **embed infrastructure training into the curricula of students and doctoral students**.
- Contribute to the ongoing development of the EOSC by offering **feedback**, either directly or through LIBER, and by sharing **best practices** which support Open Science.

- join the **EOSC Executive Board** on behalf of LIBER with Observer status and prepare the new 2021 governance
- Set up a **Data Science in Libraries working group** to explore and promote library engagement in applying data science and analytical methods in libraries.
- Produce **guidelines, best practices and tools for opening library data**.
- Set up webinar series and workshops - *Skills for Supporting RDM*, *RDM In Libraries* and *Libraries & RDM: What Works?*
- Publish 11 **RDM Case Studies**.
- Publish a **Factsheet** on *Libraries & Research Data: Towards a new leadership role*

Relevant initiatives LIBER is part of

SSHOC
social sciences & humanities open cloud

**https://libereurope.eu/mec-events/sshoc-open-science-and-research-data-management-train-the-trainer-bootcamp-iassist-pre-conference-workshop/**


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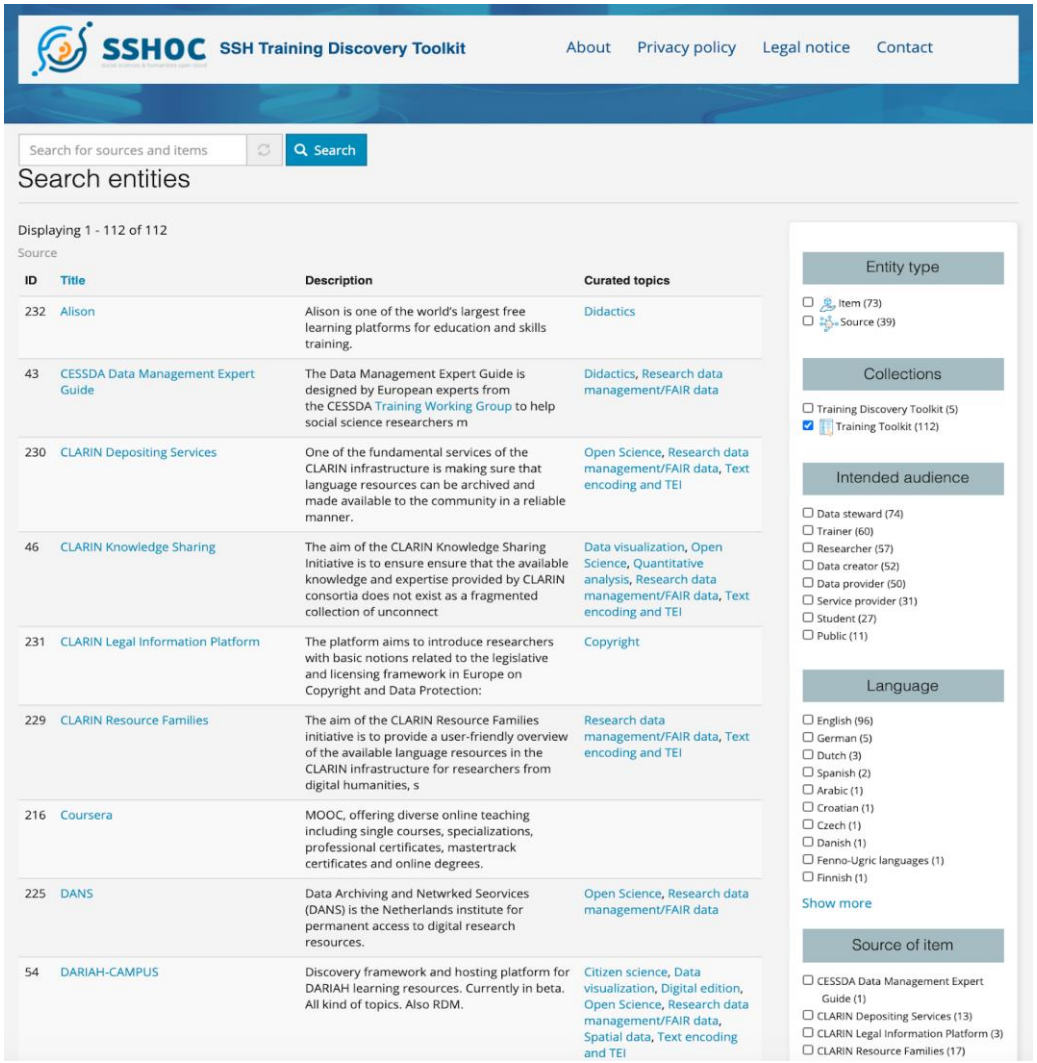
# SSH Training Discovery Toolkit





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# Metrics and rewards (recommendations and actions)

- Endorse the **San Francisco Declaration** on Research Assessment (DORA) and the **Leiden Manifesto**.
- Collaborate with stakeholders to develop **next-generation metrics** which focus on evidence-based quantitative and qualitative indicators for Open Science.
- Work with funding bodies and institutional HR departments to develop **new methods of assessing and rewarding researchers in their careers**, in a way which supports Open Science.
- **Retain high standards**, both ethical and technical, when reporting metrics and indicators for individual researchers.

- Set up an **Innovative Metrics working group**.
- Produce **guidelines, best practices and tools for opening library data**.
- Set up **webinar series**
- Publish a **report** called *Why Do Measures Fluctuate?* to address challenges of metrics in relation to research with senior management. https://zenodo.org/record/3902348#.YHRwUOfggUm
- Publish **guidelines** on how to use qualitative approaches in altmetrics. https://libereurope.eu/wp-content/uploads/2020/12/Guidelines-on-how-to-use-qualitative-approaches-in-altmetrics-1.pdf

Relevant initiatives LIBER was part of HuMetricsHSS HUMANE METRICS INITIATIVE

https://libereurope.eu/project/humetricshss-developing-a-value-based-metrics-framework-for-the-humanities-and-social-sciences/


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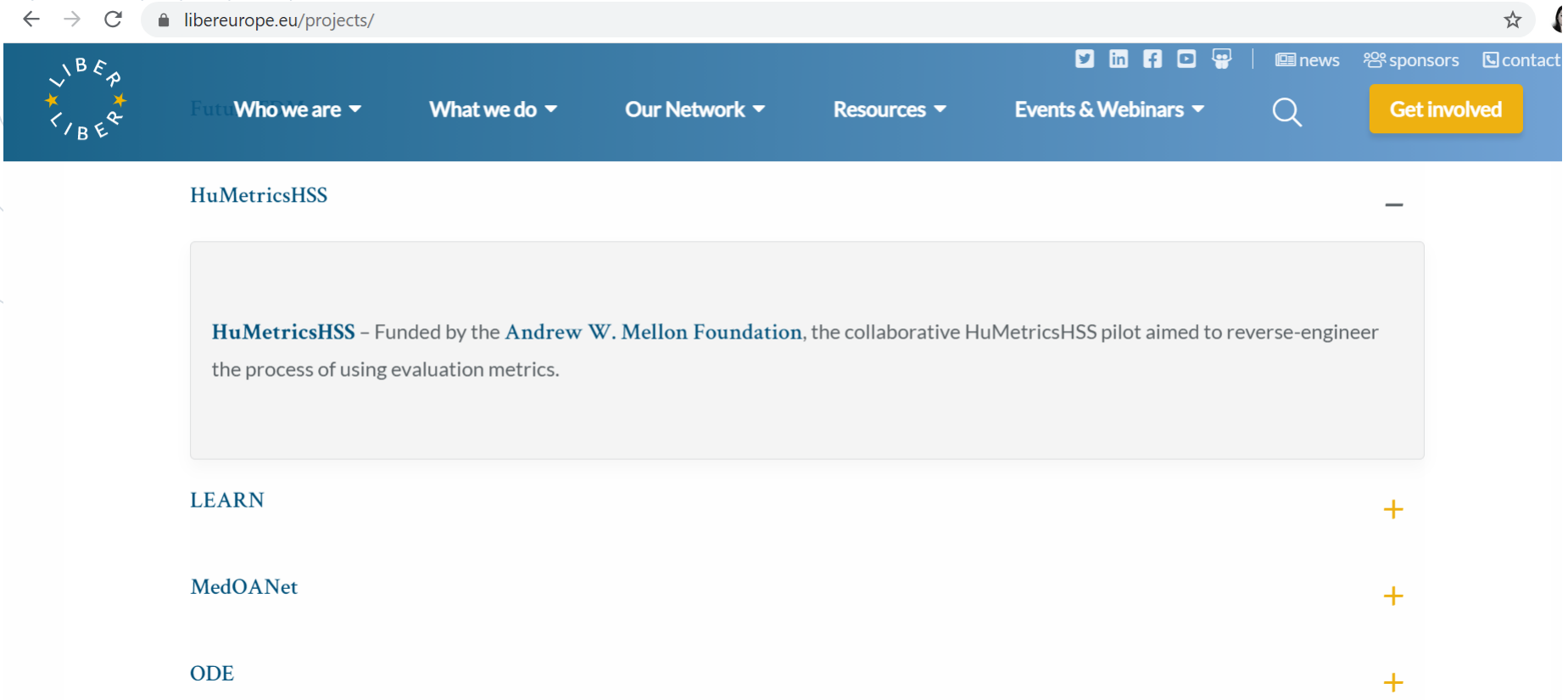
# HuMetricHSS https://humetricshss.org/





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# Open Science skills (recommendations and actions)

- Coordinate with other partners to provide a **multidisciplinary one-stop-shop for researchers** to support them in Open Science workflows in every stage of the research process.
- Incorporate **Open Science skills in the academic training programmes of students**.
- Provide innovative **digital training materials and courses** to support (and monitor) skills development.
- Build on **library's expertise** in areas such as metadata catalogues, persistent identifiers and ontologies to organise relevant new skills, expertise and competencies

- Set up a **Digital Skills for Library Staff & Researchers Working Group**
- Propose an **analysis of Open Science skills of library staff members and researchers in Europe** from selected cases. https://doi.org/10.5281/zenodo.3903141.
- **Hold yearly workshops** : in 2020, https://www.fairsfair.eu/articles-publications/integrating-fair-data-science-competences-higher-education-curricula-role with FAIRsFAIR and the EUA.
- Hold **webinars on Digital skills for Open Science training.**
- Participate in the **EOSC WG on skills and training**

Relevant initiatives LIBER was part of

FOSTER

https://libereurope.eu/project/foster-plus-supporting-the-practical-adoption-of-open-science/


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# Research integrity (recommendations and actions)

- Participate in establishing **Codes of Conduct for Research Integrity** within institutions. These codes should align with core principles of Open Science, such as openness, transparency and accountability in all aspects of research.
- Train researchers about the **legal and ethical aspects** of scholarly communication, scholarly publishing, information competencies, copyright, data management and Open Science.
- Provide **services to counter malpractice and questionable conduct of research**, such as counter-plagiarism services and publication strategy tools.

- Have a **joint OCLC-LIBER session on research integrity** https://hangingtogether.org/?p=8660
- Organise and host workshops somehow related, such as **Ethical Issues and Skills in the European Open Science Cloud - https://eoscpilot.eu/news/eoscpilot-liber-webinar-ethical-issues-skills-european-open-science-cloud**


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# Citizen science (recommendations and actions)

- Promote the library as an **active partner in Citizen Science** and develop the necessary infrastructure to effectively support public researchers in their work
- Use the library's role as an **organising and managing body** to ensure that responsible conduct and good scholarly practice are respected when participating in Citizen Science
- Develop a **set of guidelines** including methodologies and policies for Citizen Science activities involving the library
- **Develop the necessary skills** to be a strong and active partner in Citizen Science, including skills in the areas of scientific communication, information technologies and project management

- A Citizen Science **Working Group to** establish new links between science and society and foster a scientific culture across society as a whole
- Sign **partnerships** with external organisations regarding Open Science
- Deliver a **template** (or a suite of templates) with accompanying advocacy for a "Single CS Contact Point" that could be implemented in research libraries
- Release a **Librarian's Guide** to Citizen Science

Relevant initiatives LIBER is part of

**INOS Workshop – Open and Citizen Science in Higher Education : Co-Creating a Shared Vision – LIBER – March/April 2021**


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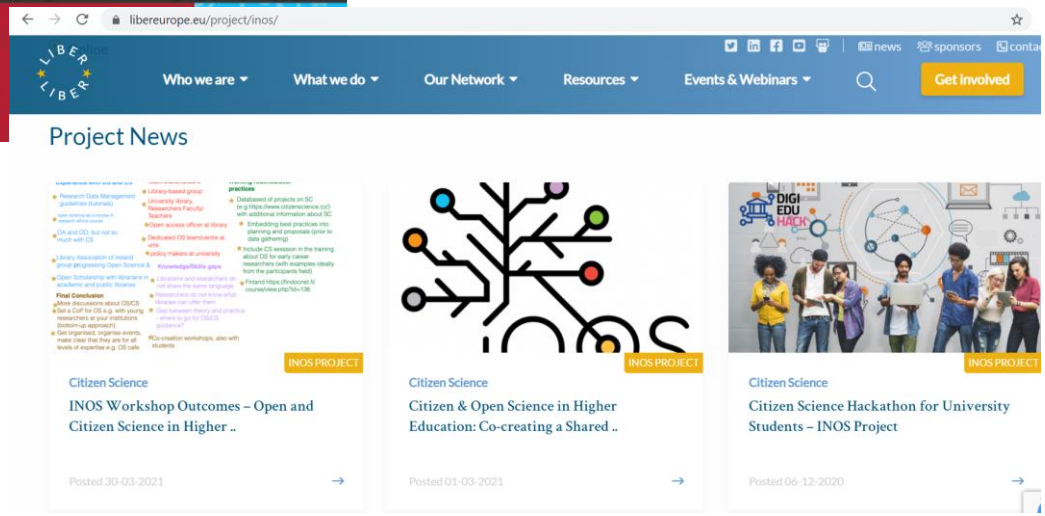
# INOS https://inos-project.eu/





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# What is next?
# -
# Towards a new LIBER 2023-2027 strategy


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# #ZEROEMBARGO

*A focus on …*

## LET US HELP YOU!

LIBER LIBER

# #ZeroEmbargo

- LIBER wants **#ZeroEmbargo** on Publicly-Funded Scientific Publications.
- We've drafted a Model Law for the Use of Publicly Funded Scholarly Publications.
- Read about the **Background** to our #ZeroEmbargo Campaign and the **Press Release** here.
- #ZeroEmbargo has been **publicly supported** by cOAlition S & COAR.

NordWood Themes on Unsplash


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# #ZeroEmbargo

The model law proposed by LIBER states a **zero-embargo period for lawful self-archiving in publicly available repositories**. If adopted, it will enable all European countries to have **a secondary publishing law**, either by the introduction of specific wording in law at an EU level, or by member states introducing such laws at a local level.

The aim of this law is to provide **a guaranteed "lowest common denominator" open access law across Europe** to ensure, where articles are public or charity-funded, immediate access is lawful.

We are targetting our #ZeroEmbargo campaign at two levels – 1) **Member States and** 2) **the European Commission**. We are now at the very first stage of **informing our research library members and other relevant stakeholders** as well as identifying the best possible course for the campaign


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NATIONAL PLAN
FOR OPEN SCIENCE
4TH JULY 2018
#openscience
esr.gouv.fr
Liberté • Égalité • Fraternité
RÉPUBLIQUE FRANÇAISE
MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION

# Section 1 - strenghening Open Access

1. Make open access **mandatory** for projects publicly funded
   when publishing articles and books resulting from government-funded calls for projects. Example : ANR.
2. Create a **National Open Science fund to support OA**
3. Support **HAL, the French national open access repository**
4. Support **OA valuable initiatives**
   Global Sustainability Coalition for Open Science Services (SCOSS) initiative for Directory of Open Access Books, Public Knowledge Project and OpenCitations – half a million euros

# An important step ahead the National Plan

-

# The Digital Republic Law - October 2016

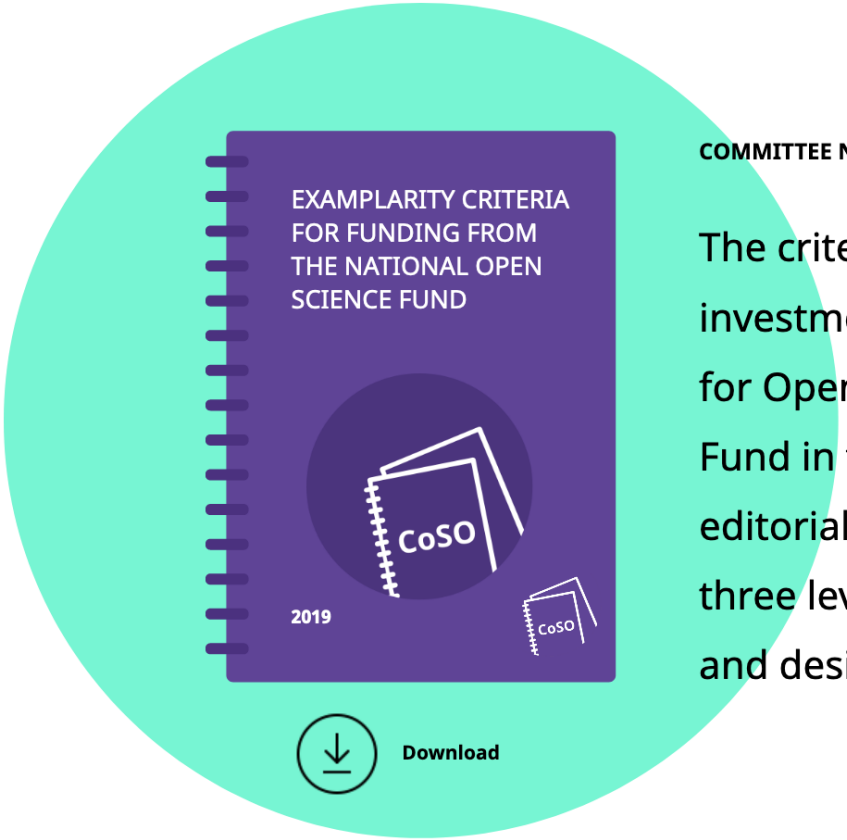
**Publications : a new *right* for authors**

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

# Focus on the National Open Science Fund

- Aim : support open access, develop bibliodiversity
- Leverage : help universities and research institutions
- Exemplariness : evaluation based on criteria
- Budget : starting at 3,6M€ in 2019
  - with 1M€ coming from Elsevier savings
  - and 500K€ from CNRS (savings from Springer).
- Call for projects published in December 2019, results in October 2020 - “Generalising open access to publications”
- New call released January 2021 – “Generalising open access to publications – part 2”
- New call to be released later in 2021 – focus on data. To be published in the coming months.

# Criteria for the 2019 call for platforms, infrastructure and editorial content




**COMMITTEE NOTES**

The criteria are intended to guide the choice of investments to be made under the National Plan for Open Science and the National Open Science Fund in terms of platforms, infrastructure and editorial content. The 44 criteria are classified in three levels - essential, highly recommended and desired.

https://www.ouvrirlascience.fr/examplarity-criteria-for-funding-from-the-national-open-science-fund/

# Open Access : one size does not fits all

**France do support the co-existence of different roads….**

- in an open repository that is permanent and recognized by the various scientific communities **(“green mode”)**
- open access publishing based on fair, transparent, and sustainable business models
  - With publication fees (**“gold APC mode”**)
  - Without publication fees **(“diamond” mode)**

**… and Coalition S is currently moving in the right direction.**

# Exploring collaborative non-commercial publishing models for Open Access: tender results

*09/06/2020*

cOAlition S received a total of 11 proposals for the tender for a study to explore collaborative non-commercial Open Access publishing models for Open Access (a.k.a Diamond OA) published in March 2020. We are pleased to announce that the tender was awarded to a consortium coordinated by OPERAS, including Sparc Europe, Utrecht University, DOAJ, UiT The Arctic University of Norway as partners, and LIBER, OASPA, ENRESSH, Redalyc-AmeliCA and CSI as associate partners.

The study will be delivered by the end of 2020, and regular public updates on progress are planned along the way. The study is financially supported by Science Europe.

Share this on

# Report and recommendations published in March 2021

https://www.coalition-s.org/diamond-unearthed-shining-light-on-community-driven-open-access-publishing/

# Supporting researchers in retaining their rights and sharing their publications

**France do also support the Coalition S Rights retention strategy - https://www.coalition-s.org/rights-retention-strategy/**

**The French National Fundng Agency – ANR – is currently working on the implementation**

03/04/2021

# Open Science: ANR prepares for implementation of the Rights Retention Strategy initiated by cOAlition S

The French National Research Agency (ANR) is pursuing its policy of free access to publications through the adoption and imminent implementation of the Rights Retention Strategy "Rights Retention Strategy" established by cOAlition S, a European initiative of which it is a partner. This strategy represents a new step in the implementation of Plan S, which aims to ensure full and immediate access to scientific publications from publicly funded research. It must allow open access, without embargoes, to scientific publications through the use of the Creative Commons CC-BY license.

Conférence « Training Workshop on translatability and Regulatory affairs for

AAPG 2021 : l'ANR reporte la date de clôture de l'appel au 26 avril 2021 à 17h

Appels ANR Flash et RA-Covid-19 : entretien avec Antoine Gessain, président

Pré-annonce : appel à projets « Action-Liban »

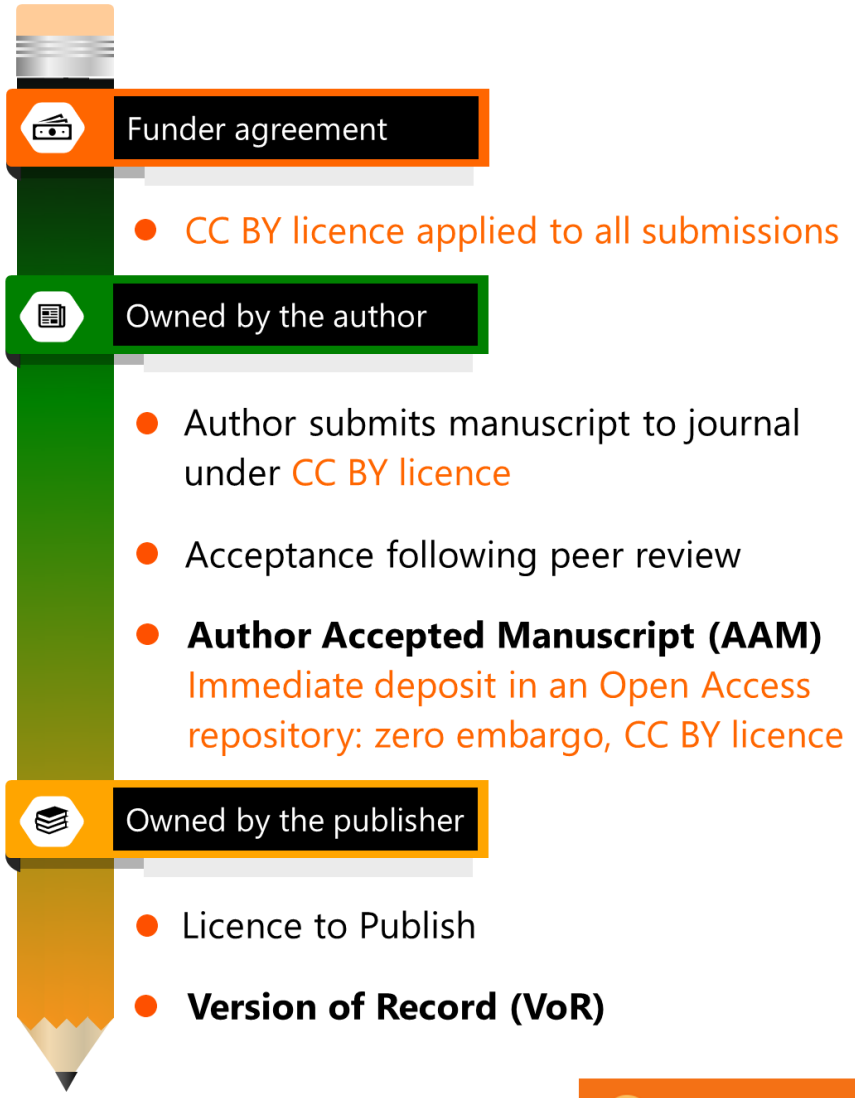
→ See all the news

# Plan S & Rights Retention

**#RetainYourRights**

www.coalition-s.org/rights-retention-strategy

Helping researchers retain their rights and share their work Open Access




**cOAlition S**
Hosted by the European Science Foundation
info@coalition-s.org ● www.coalition-s.org

Plan S
Making full and immediate Open Access a reality

# Section 2 - Research Data

- Create the position of National Chief Research Data Officer
- Create a network of Research Data Officers within the research institutions.
- DMPs have to become mandatory
  - http://dmp.opidor.fr
- Implement a certification process for data infrastructures
- Create a simple generic data hosting and dissemination service
- Support the Research Data Alliance (RDA) and fund the French chapter of the organisation (RDA France).
- Support Software Heritage, the source code library.

# An important step ahead the National Plan

-

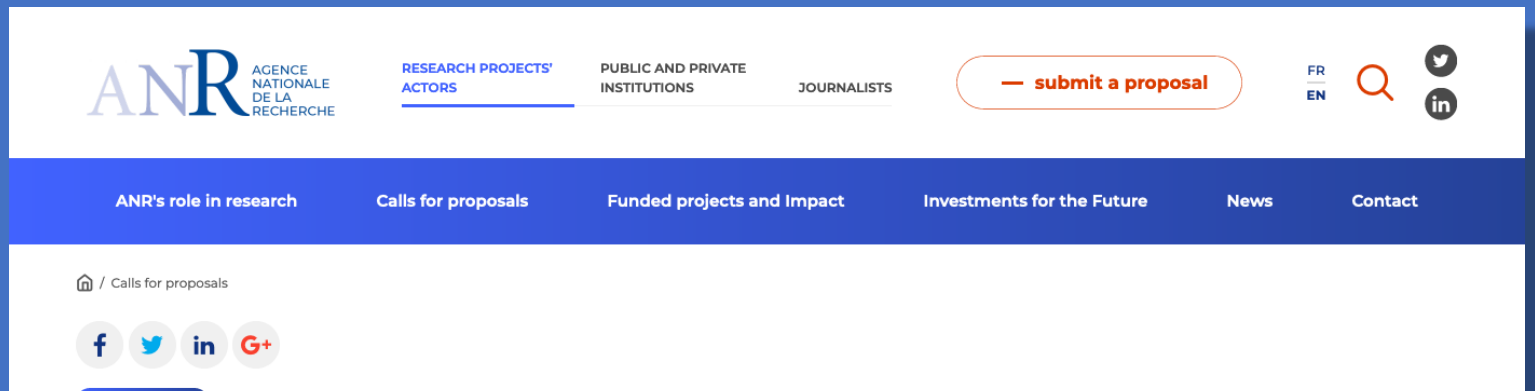
# The Digital Republic Law - October 2016 (again)

**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.

# Focus on the ANR Flash call for open science and research data (2019)

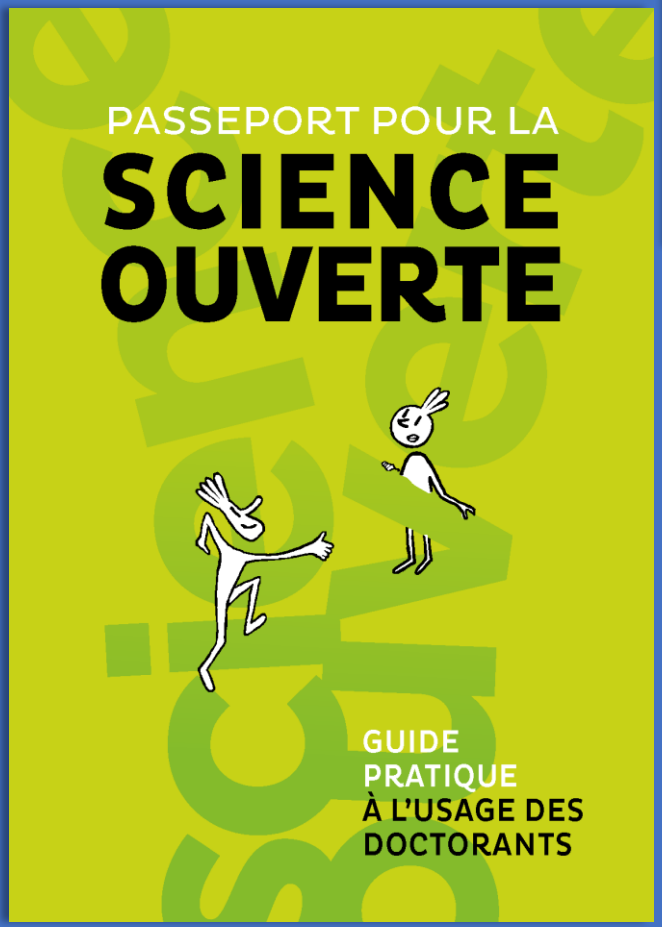
- 2,3M€
- 25 projects selected
- Keywords for funded projects – access, interoperability, community engagement, curation, long term preservation, FAIR data.
- https://www.ouvrirlascience.fr/wp-content/uploads/2019/11/Analyse-des-propositions-soumises-a%CC%80-lAAP-ANR-Flash-Science-ouverte-pratiques-de-recherche-et-donne%CC%81es-ouvertes.pdf

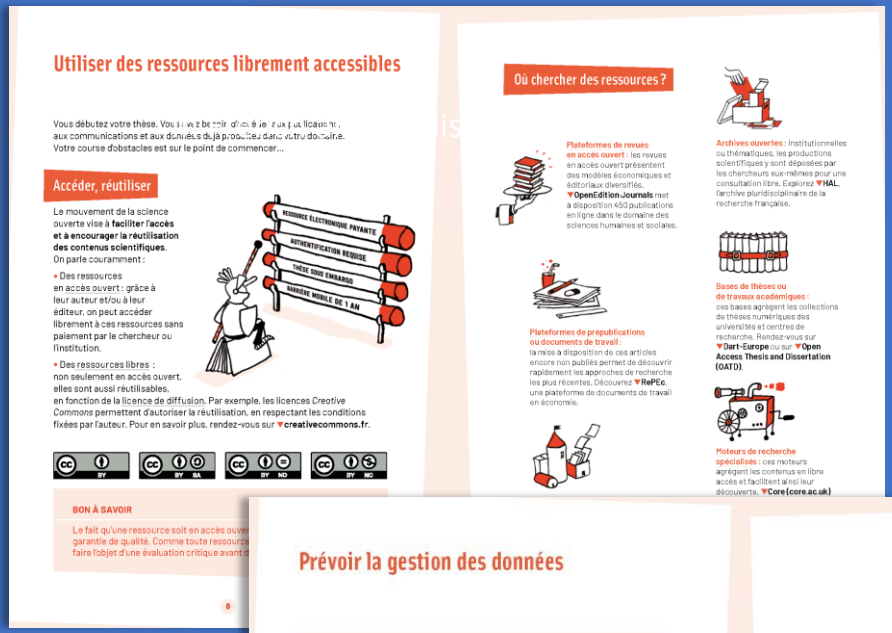


# Section 3 – train and transform

- Promote training and online training
  - Research data : https://doranum.fr/
  - Reproducibility of research : https://www.fun-mooc.fr/courses/course-v1:inria+41016+self-paced/about
  - Training for research data in disciplines, for instance physics and chemistry https://www.datacc.org/
  - …
- Support the release of  open science plans in universities and research institutions
  - CNRS - https://www.science-ouverte.cnrs.fr/
  - Paris Saclay University – https://www.universite-paris-saclay.fr/actualites/encourager-une-science-ouverte-autant-que-possible-ledition-13-juin-2020
  - …
- And many other initiatives, like the Open Science Passport

# Focus on the *open science passport*



20 000 copies sent to universities + online passport

In French and English

It will be updated soon

A hit in universities

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

# Section 4 – building a community

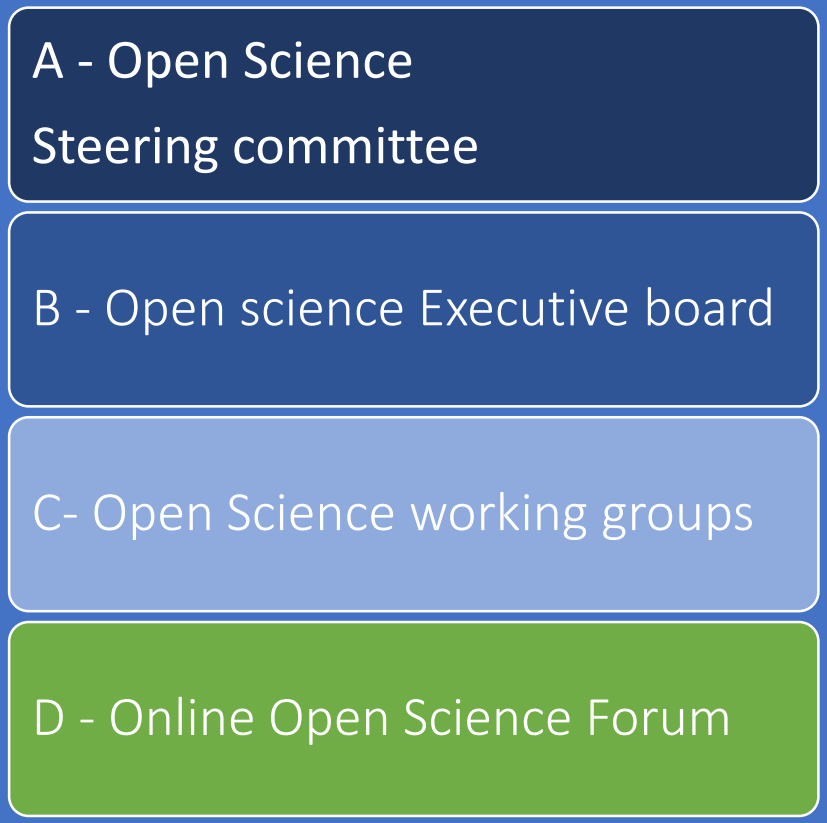
- **To embark research communities**
- **To support and coordinate the initiatives**
- **To monitor the National Plan fo Open Science**
- **To prepare guidelines and showcase best practices**
- **To propose recommandations and help setting directions**
- **To prepare and make decisions**

# OUVRIR LA SCIENCE !

French Open Science Committee

https://www.ouvrirlascience.fr/open-science/

# French Open Science Committee



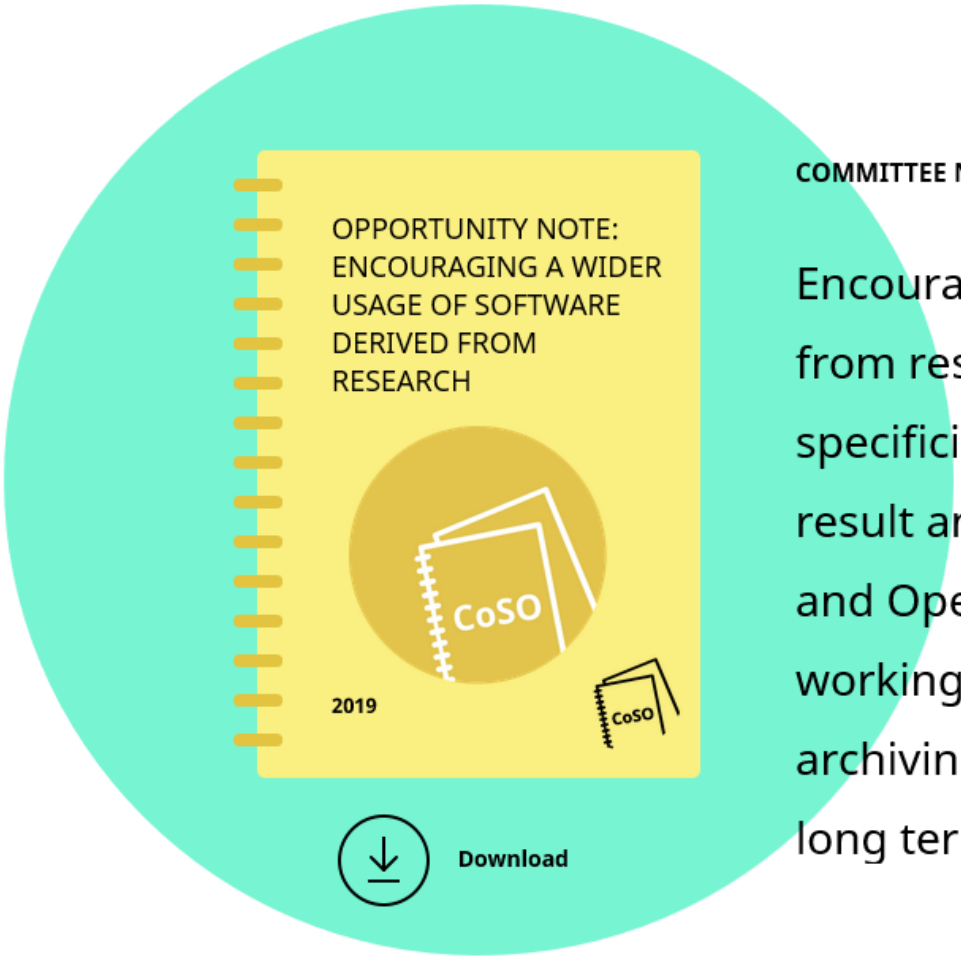

80 people

300 people

# A few recent publicly accessible reports or initiatives….

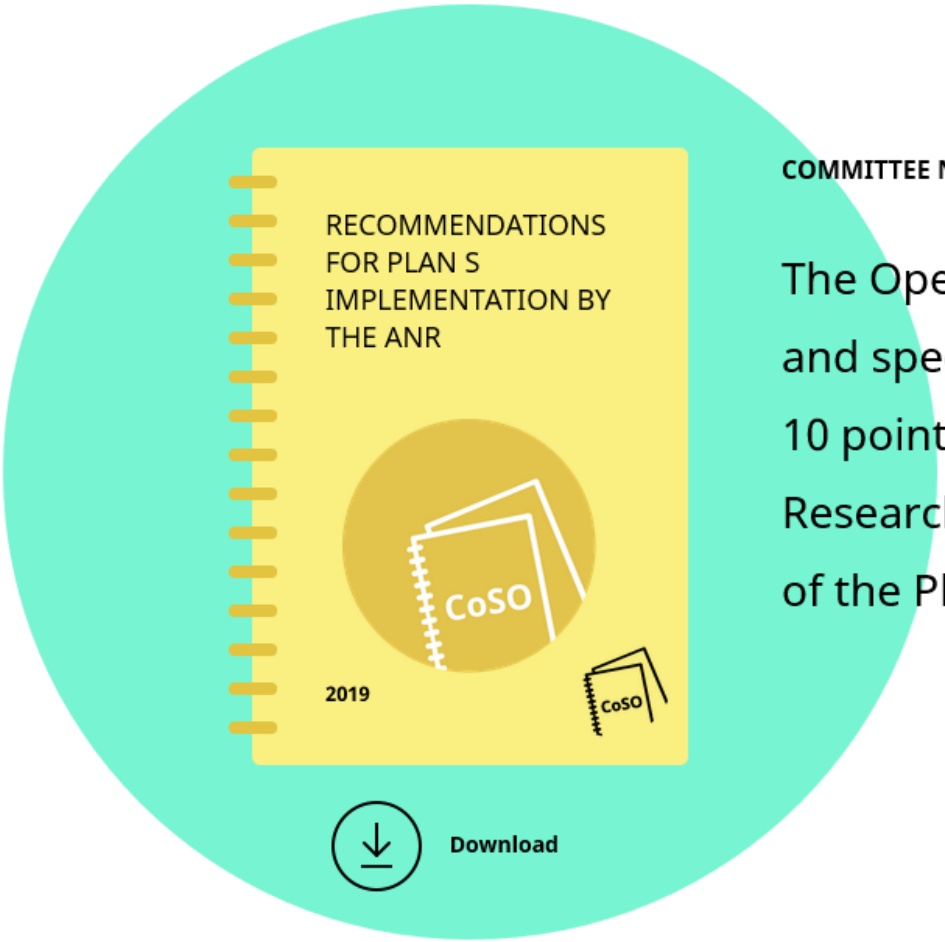
**STUDIES & REPORTS**

The report presents a state of the art of translation technologies, best practices in their use and possible courses of action to take to optimise the translation process of scientific production. This would thus promote access in societies in non-English-speaking countries to knowledge resulting from research which is one of the fundamental principles of open science.



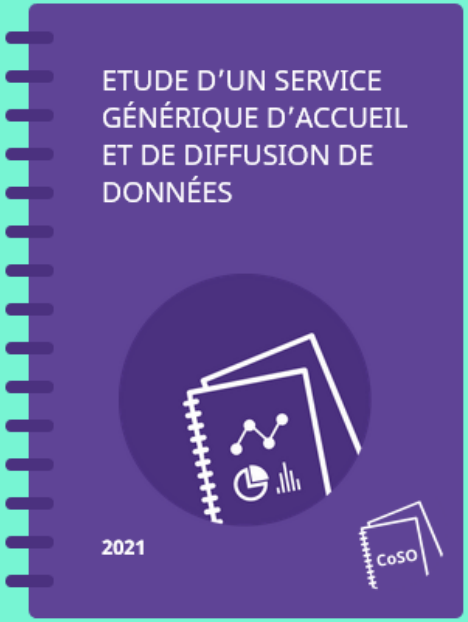

**COMMITTEE NOTES**

Encouraging a wider usage of software resulting from research must take into account its specificities, linked to its hybrid nature: tool, result and object of study. The Free Software and Open Source Project Group proposes working axes and recommendations, including archiving and referencing, citation, contribution, long term preservation and metadata.




**COMMITTEE NOTES**

The Open Science Committee makes general and specific recommendations for each of the 10 points of Plan S to guide the French National Research Agency (ANR) in the implementation of the Plan.

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**ETUDES & RAPPORTS**

Le document présente et évalue différents scénarios et niveaux d'ambition fonctionnels relatifs à la création d'un service générique d'accueil et de diffusion des données simples. Il propose différentes modalités d'implémentation qui sont présentées au travers de deux parcours utilisateurs : celui d'un producteur de données et celui d'un réutilisateur de données.

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

French Monitor Open Science

# The French Open Science Monitor

## An open monitor for open science

The French Open Science Monitor aims at measuring progress in open access to scientific resources: publications, code, data. Its implementation is part of the French National Plan for Open Science and the Action Plan for France as part of the Open Government Partnership (OGP). First published by the French Ministry of Higher Education, Research and Innovation in 2019, it focuses to date only on scientific publications.

Unlike the European Commission's Open Science Monitor, the French Open Science Monitor is built from open data (from Unpaywall, a global database of metadata on scientific publications that provides information on the openness status of publications) using an open methodology. Thus, the data underlying the French Open Science Monitor is made available under an open license, its code is open and its methodology is presented in detail in a publication itself in open access.

**The French Open Science Monitor**
https://bso.enseignementsup-recherche.gouv.fr
https://ministeresuprecherche.github.io/bso/

**Open Data and API**
https://data.enseignementsup-recherche.gouv.fr/explore/dataset/open-access-monitor-france

**Open Code**
https://github.com/MinistereSupRecherche/bso

**Methodology**
https://hal.archives-ouvertes.fr/hal-02141819v1

**Contact :** dataesr@recherche.gouv.fr

#dataESR

… and much more confidential ones, for internal decision making

… and a lot more

- **Models of contracts for authors - https://www.ouvrirlascience.fr/des-modeles-de-contrat-pour-ledition-publique/**

- **Recommendations to create and publish a scientific journal - https://halshs.archives-ouvertes.fr/hal-01960919v2**

- **Recommendations to journals for a data policy - https://www.ouvrirlascience.fr/politique-de-donnees-liees-aux-publications-recommandations-aux-revues/**

- **Comments on the UNESCO draft regarding an Open Science recommendation - https://www.ouvrirlascience.fr/commentaires-de-la-france-sur-lavant-projet-de-recommandation-de-lunesco-sur-la-science-ouverte/**

- **Call to strenghen the network of French experts regarding Open Science - https://www.ouvrirlascience.fr/ami-reseau-experts-internationaux-de-la-science-ouverte/**

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