Understanding and defining your choices for sharing your research results in an open scientific ecosystem

Useful links

Session : 2025-11-13

**Teacher**

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**Description**

*The scientific, technological, economic and digital environment for researchers has been changing rapidly for several years. The aim of this open science training course is to give you a practical, factual overview of public policies on opening up, sharing and protecting publicly-funded scientific publications and other academic research output at European level. To do this, we will discover the publications ecosystem, and together we will grasp the issues involved in choosing whether to share your scientific research results selectively or in their entirety.*

**Learning outcomes**

> Understand and manage the bibliodiversity of your publications and research results

> Define your choices for sharing your research in an open science ecosystem

**Licence**

CC-BY 4.0

**DOI**

10.5281/zenodo.17639453. Availability [zenodo.org](http://zenodo.org), EDUC Moodle, <https://cel.hal.science>

**Keywords**

Open science, open access, ethics, rights retention, scholarly publication, research data

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# References and useful links

## Accessing OA research GreyLit, PhD/Thesis and publications

### OpenGrey

“OpenGrey, System for Information on Grey Literature in Europe, is your open access to 1 014 872 bibliographic references of grey literature produced in Europe and allows you to export records and locate the documents. Examples of grey (gray) literature include technical and research reports, doctoral dissertations, conference papers, official publications, and other types of grey literature. In 1980, this information resource first began as a bibliographic database under the name SIGLE. In 2006, the records migrated to OpenSIGLE-an open access database. In 2010 its name was changed to the OpenGrey Repository given that full-texts documents began to be ingested and preserved. And in 2020,

Inist-CNRS (service provider) gave notice that OpenGrey will be discontinued. In order to guarantee open access to this resource, it is now archived as a database in DANS EASY-a data archive certified with the Nestor and CoreTrustSeal”.

<https://opengrey.eu/>

<https://libguides.kcl.ac.uk/systematicreview/greylit> for medical systematic reviews, for example.

### OATD - Open Access PhD and Thesis

<https://oatd.org/>

“Metadata (information about the theses) comes from [over 1100 colleges, universities, and research institutions](https://oatd.org/oatd-publishers.html). OATD currently indexes [7,464,811](https://oatd.org/oatd/search?q=*%3A*&sort=date) theses and dissertations.

You may also want to consult these sites to search for other theses:

Google Scholar

NDLTD, the Networked Digital Library of Theses and Dissertations. NDLTD provides information and a search engine for electronic theses and dissertations (ETDs), whether they are open access or not.

Proquest Theses and Dissertations (PQDT), a database of dissertations and theses, whether they were published electronically or in print, and mostly available for purchase. Access to PQDT may be limited; consult your local library for access information”.

### BASE

“BASE is a search engine developed as part of the Open Archives Initiative project by Bielefeld University (Germany). It is based on Fast Search & Transfer technology and contributed to the European project Digital Repository Infrastructure Vision for European Research (DRIVER)”.

<https://www.base-search.net/>

++ : the “claim” function, linked to your ORCID ID.

## RDM & FAIR Data

### FAIR Data

**Findable**The first step in (re)using data is to find them. Metadata and data should be easy to find for both humans and computers. Machine-readable metadata are essential for automatic discovery of datasets and services, so this is an essential component of the [FAIRification process](https://www.go-fair.org/fair-principles/fairification-process/).

[**F1**. (Meta)data are assigned a globally unique and persistent identifier](https://www.go-fair.org/fair-principles/fair-data-principles-explained/f1-meta-data-assigned-globally-unique-persistent-identifiers/)

[**F2**. Data are described with rich metadata (defined by R1 below)](https://www.go-fair.org/fair-principles/fair-data-principles-explained/f2-data-described-rich-metadata/)

[**F3**. Metadata clearly and explicitly include the identifier of the data they describe](https://www.go-fair.org/fair-principles/f3-metadata-clearly-explicitly-include-identifier-data-describe/)

[**F4**. (Meta)data are registered or indexed in a searchable resource](https://www.go-fair.org/fair-principles/f4-metadata-registered-indexed-searchable-resource/)

**Accessible**Once the user finds the required data, she/he/they need to know how they can be accessed, possibly including authentication and authorisation.

[**A1**. (Meta)data are retrievable by their identifier using a standardised communications protocol](https://www.go-fair.org/fair-principles/542-2/)

[**A1.1** The protocol is open, free, and universally implementable](https://www.go-fair.org/fair-principles/a1-1-protocol-open-free-universally-implementable/)

[**A1.2** The protocol allows for an authentication and authorisation procedure, where necessary](https://www.go-fair.org/fair-principles/a1-2-protocol-allows-authentication-authorisation-required/)

[**A2**. Metadata are accessible, even when the data are no longer available](https://www.go-fair.org/fair-principles/a2-metadata-accessible-even-data-no-longer-available/)

**Interoperable**The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing.

[**I1**. (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.](https://www.go-fair.org/fair-principles/i1-metadata-use-formal-accessible-shared-broadly-applicable-language-knowledge-representation/)

[**I2**. (Meta)data use vocabularies that follow FAIR principles](https://www.go-fair.org/fair-principles/i2-metadata-use-vocabularies-follow-fair-principles/)

[**I3**. (Meta)data include qualified references to other (meta)data](https://www.go-fair.org/fair-principles/i3-metadata-include-qualified-references-metadata/)

**Reusable**The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, metadata and data should be well-described so that they can be replicated and/or combined in different settings.

[**R1**. (Meta)data are richly described with a plurality of accurate and relevant attributes](https://www.go-fair.org/fair-principles/r1-metadata-richly-described-plurality-accurate-relevant-attributes/)

[**R1.1**. (Meta)data are released with a clear and accessible data usage license](https://www.go-fair.org/fair-principles/r1-1-metadata-released-clear-accessible-data-usage-license/)

[**R1.2**. (Meta)data are associated with detailed provenance](https://www.go-fair.org/fair-principles/r1-2-metadata-associated-detailed-provenance/)

[**R1.3**. (Meta)data meet domain-relevant community standards](https://www.go-fair.org/fair-principles/r1-3-metadata-meet-domain-relevant-community-standards/)

The principles refer to three types of entities: data (or any digital object), metadata (information about that digital object), and infrastructure. For instance, principle F4 defines that both metadata and data are registered or indexed in a searchable resource (the infrastructure component).

GO-FAIR, European Project

<https://www.go-fair.org/fair-principles/>

<https://www.go-fair.org/wp-content/uploads/2022/01/FAIRPrinciples_overview.pdf> and

<https://www.go-fair.org/resources/rdm-starter-kit/>

LIBEReurope.eu, European Research Libraries <https://libereurope.eu/working-group/research-data-management/documents-resources/>

Research Data Alliance (RDA), global with RDA-Europe (regional) and RDA by country

<https://www.rd-alliance.org/rda-and-national-open-science-policies/>

### RDM at your university

>> Atelier de la donnée *Ardoise* at Rennes, Atelier de la donnée *ADN* at Nanterre, RDM support services at your university : ask a librarian to identify your RDM support service.

<https://scienceouverte.univ-rennes.fr/ardoise-atelier-rennais-de-la-donnee>

<https://science-ouverte.parisnanterre.fr/donnees-ouvertes-open-data/les-donnees-de-la-recherche/atelier-de-la-donnee>

### What is a Data paper ?

Scientific article describing a dataset. Can be published in a data journal or in a traditional magazine. Peer review.

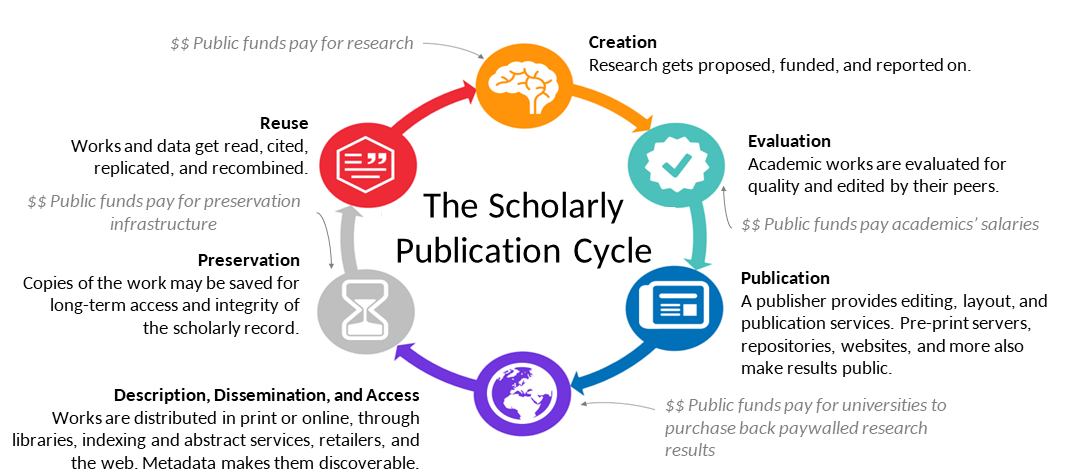
A data paper generally includes the following elements :

* access to the dataset, in the form of either attached files or a permanent link to a data warehouse;
* a detailed description (metadata) of the dataset (production context, authors, attached rights, etc.).

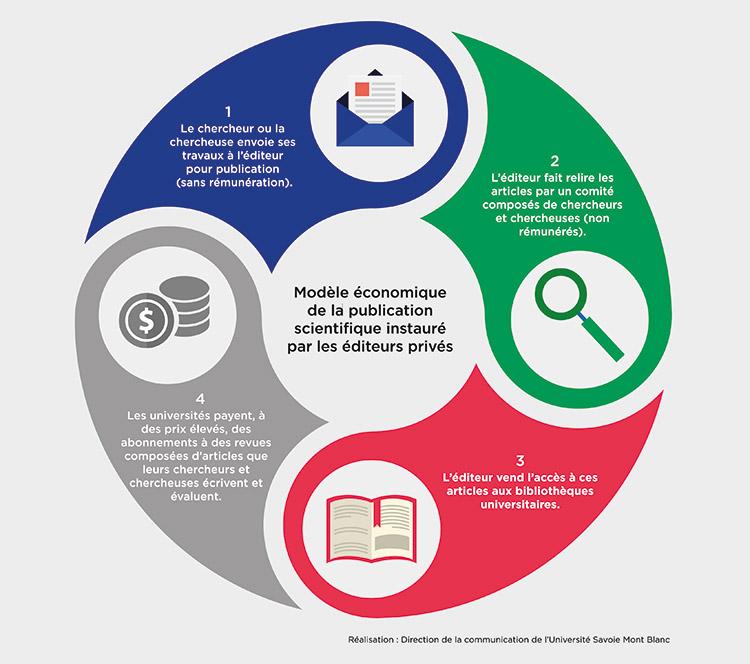
## The “classic” scientific publishing model

Ask yourself :

* Are there any issues arising from this model? What could be missing in this model?
* How did we get to this situation?
* What is the reason why all researchers do not publish in freely accessible journals?



<https://libguides.memphis.edu/scholcomm>



<https://www.univ-smb.fr/2018/06/10/lusmb-facilite-lacces-aux-travaux-de-recherche-issus-de-ses-laboratoires-%E2%80%A8avec-larchive-ouverte-pluridisciplinaire-hal/>

## APCs/BPCs

OpenAPCs <https://openapc.net/>

“The OpenAPC initiative collects and disseminates datasets on fees paid for open access publishing on [GitHub](https://github.com/OpenAPC/openapc-de) under an open database license.

APC Treemap Visualisations and aggregated collections, searchable by publisher, institution, journal, additional costs : <https://treemaps.openapc.net/>”.

## European Commission, funding and Open Science

European Commission/ Open science unit and Horizon Europe ; factsheets

<https://rea.ec.europa.eu/open-science_en> and <https://www.horizon-europe.gouv.fr/sites/default/files/2021-07/h2020---ipr-helpdesk---open-access-3953.pdf> and <https://openscience.eu/Open-Science-in-Horizon-Europe>

*Q&A on what you should comply with when applying for funding and implementing your project*

<https://research-and-innovation.ec.europa.eu/knowledge-publications-tools-and-data/publications/all-publications/horizon-europe-factsheets_en> >> “15 JUNE 2021 - Horizon Europe - Open science : early knowledge and data sharing, and open collaboration”

>>[https://open-research-europe.ec.europa.eu/gateways/horizon-europe/for-authors/publish-your-research](https://open-research-europe.ec.europa.eu/gateways/horizon-europe/for-authors/publish-your-research?utm_source=google&utm_medium=cpc&utm_campaign=S6996825966_F1000_PartnerActivity_ORE_Submissions_EU&utm_term=Funders+-+Horizon+2020%2FEurope&gad_source=1&gclid=EAIaIQobChMIvqzV37zUiQMVRLVoCR3uaTmsEAAYASAAEgITjvD_BwE)

## LERU

<https://www.leru.org/publications/open-science-and-its-role-in-universities-a-roadmap-for-cultural-change>

and <https://www.leru.org/publications/implementing-open-science>

## ANR (Agence nationale de la recherche, France)

Reference : French National Research Agency (Agence nationale de la Recherche, ANR)

<https://anr.fr/en/anrs-role-in-research/commitments/open-science/>

*“The French National Research Agency (ANR) is a public administrative institution under the authority of the French Ministry of Higher Education, Research and Innovation. The agency funds project-based research carried out by public operators cooperating with each other or with private companies”.*

*2025 :* [*https://anr.fr/en/anrs-role-in-research/commitments/open-science/the-anr-open-science-monitor/*](https://anr.fr/en/anrs-role-in-research/commitments/open-science/the-anr-open-science-monitor/)

## Focus on “Diamond”

“Diamond OA is an equitable model of scholarly publication that charges no fees to authors or readers and in which the content-related elements of publication are owned and controlled by the scholarly communities”.

### Europe : EDCH

The European Diamond Capacity Hub (EDCH) is a collective that provides services for Diamond Open Access Publishers, Service Providers, and Tools & Technology Providers.

It takes its place alongside other regional Capacity Hubs such as Redalyc-Amelica and AJOL, and thus provides a gateway to the global Diamond Open Access community.

Europe : EDCH <https://diamas.org/>

### Diamond : hello, World !

2023 - <https://www.ouvrirlascience.fr/global-summit-on-diamond-open-access/> / <https://www.unesco.org/fr/articles/le-sommet-mondial-sur-le-libre-acces-diamant>

2025 - <https://www.ouvrirlascience.fr/conference-on-diamond-open-access-2nd-global-summit-on-diamond-open-access-2/>

2026 - <https://forum.diamas.org/t/3rd-global-summit-on-diamond-open-access/600> / <https://www.diamondoasummit.org/>

## UNESCO and Open Science

“The *UNESCO Recommendation on Open Science* (2021) is the first international standard setting instrument on open science”.

“Open science is a set of principles and practices that aim to make scientific research from all fields accessible to everyone for the benefits of scientists and society as a whole. Open science is about making sure not only that scientific knowledge is accessible but also that the production of that knowledge itself is inclusive, equitable and sustainable.

The UNESCO Recommendation on Open Science provides an internationally agreed definition, as well as a set of shared values and guiding principles for open science. It also identifies a set of actions conducive to a fair and equitable operationalization of open science for all at the individual, institutional, national, regional and international levels.

**Open science has the potential of making the scientific process more transparent, inclusive and democratic”.**

“Open science:

* increases scientific collaborations and sharing of information for the benefits of science and society;
* makes multilingual scientific knowledge openly available, accessible and reusable for everyone; and
* opens the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community.

Our interconnected world needs open science to help solve complex social, environmental, and economic challenges and achieve the Sustainable Development Goals.

**By promoting science that is more accessible, inclusive and transparent, open science furthers the right of everyone to share in scientific advancement and its benefits as stated in Article 27.1 of the**[Universal Declaration of Human Rights](https://www.un.org/en/about-us/universal-declaration-of-human-rights)”.

UNESCO Recommendation on open science 2021

<https://www.unesco.org/en/open-science>

<https://www.unesco.org/en/open-science/about>

>> Read the recommendation : <https://unesdoc.unesco.org/ark:/48223/pf0000379949?posInSet=3&queryId=4e9e5e25-46d0-428c-86ae-4191da67426c>

>> Consult the UNESCO Open Science Toolkit

<https://www.unesco.org/en/open-science/toolkit>

Zenodo.org “Unesco Science” community <https://zenodo.org/communities/unesco-science/>

*UNESCO Global Observatory of Science, Technology and Innovation Policy Instruments (GO-SPIN), Open Science Policies:* [*https://gospin.unesco.org/*](https://gospin.unesco.org/)

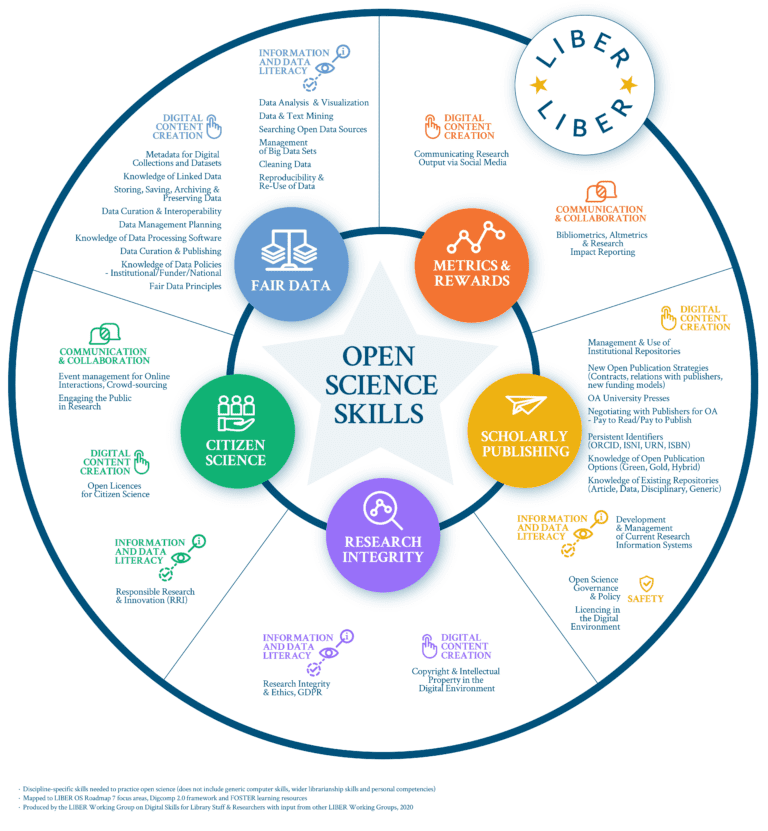
*UNESCO Open Science Capacity Building Index:* [*https://www.unesco.org/en/open-science/capacity-building-index*](https://www.unesco.org/en/open-science/capacity-building-index)

*UNESCO Index of Open Science Knowledge Sharing Platforms:* [*https://www.unesco.org/en/open-science/knowledge-sharing*](https://www.unesco.org/en/open-science/knowledge-sharing)

## LIBEREurope : Open skills visualisation diagram

LIBEREurope.eu open science skills visualisation diagram reused by UNESCO in its toolkit

<https://libereurope.eu/article/open-science-skills-diagram/>.



“The array of knowledge, skills and competencies needed to practice Open Science (OS) effectively can be daunting for many librarians and researchers, particularly those who are new to OS concepts and practices. Identifying which skills are needed is the first step for anyone wishing to upskill themselves or others in Open Science.

In 2019, the LIBEREurope Digital Skills for Library Staff and Researchers Working Group embarked on a project to define the skills needed for OS, and to align them with LIBER’s 2018-2022 Strategy. After several months of work we now have this Open Science Skills visualisation, which identifies the skills and knowledge needed to practice OS effectively. The visualisation is licensed CC BY for reuse, and can be [downloaded from Zenodo](https://zenodo.org/record/3702401)”. 

McCaffrey, C., Meyer, T., Riera Quintero, C., Swiatek, C., Marcerou-Ramel, N., Gillén, C., Clavel, K., Wojciechowska, A., Brinken, H., Prevoo, M., & Egerton, F. (2020). Open Science Skills Visualisation - Visualisation des compétences en science ouverte (Version 2). Zenodo.<https://doi.org/10.5281/zenodo.4727592> (<https://zenodo.org/records/4727592>).

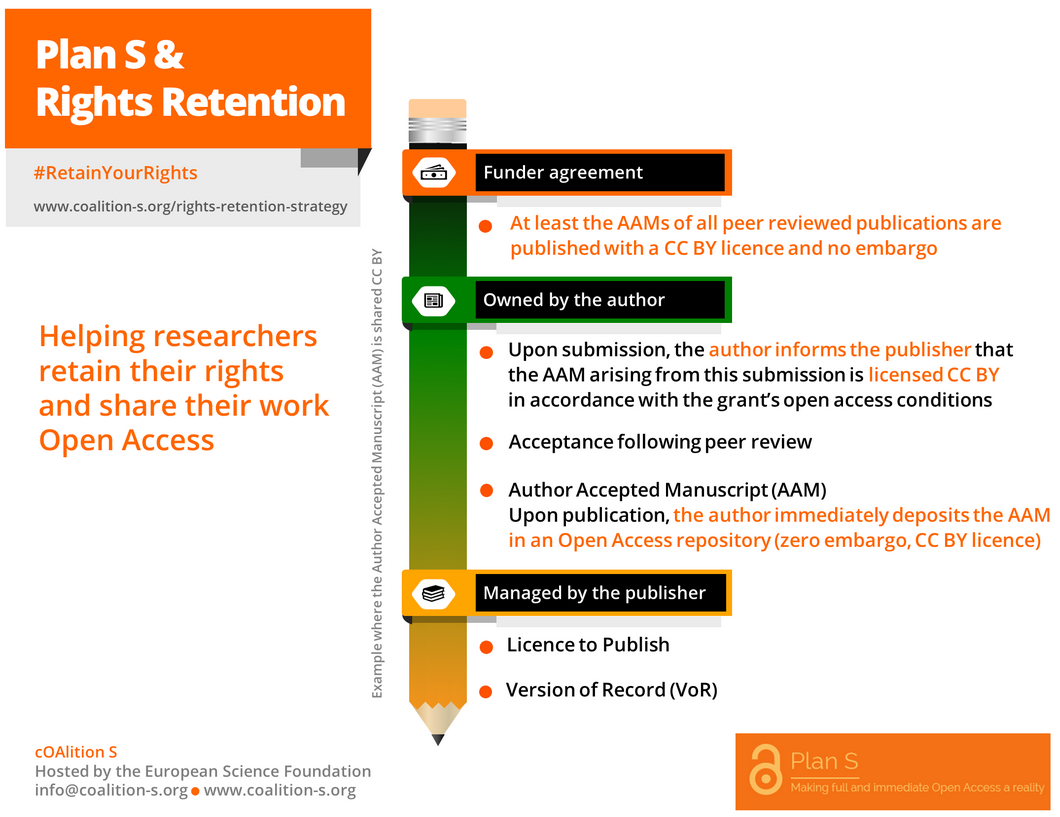
## Plan S for Rights Retention / Author’s rights

Plan S for rights retention strategy

“cOAlition S has developed a *Rights Retention Strategy* to give researchers supported by a [cOAlition S Organisation](https://www.coalition-s.org/organisations/) the freedom to submit manuscripts for publication to their journal of choice, including subscription journals, whilst remaining fully compliant with Plan S”

The guide explains the rights retention strategy, its benefits for the researcher and the operational details of its application. It also provides an FAQ that addresses the main questions about choosing licences, the options available at the various stages of publication, and how to manage relationships with publishers.

<https://www.coalition-s.org/wp-content/uploads/2020/07/RightsRetentionStrategy.pdf>

<https://www.coalition-s.org/wp-content/uploads/2020/10/RightsRetentionGraphic.png>

FAQ : <https://www.coalition-s.org/faq-theme/rights-licences/>

<https://www.coalition-s.org/blog/4-things-you-should-know-about-the-rrs-and-the-jct/>

[Journal Checker Tool](https://journalcheckertool.org/) (JCT) <https://journalcheckertool.org/> will make the **RRS information visible to researchers and how it will prefer publishing options where the Version of Record (VoR) can be made Open Access.**

<https://www.coalition-s.org/the-rrs-and-publisher-equivocation-an-open-letter-to-researchers/>

AND : The Author’s Rights Quiz - How well do you know your rights as an author? <https://coalitions.typeform.com/rightsretention>

## Open licensing

<https://creativecommons.org/share-your-work/cclicenses/>

> mandatory in France on HAL so that authors define their publications sharing scope and conditions.

## LERU and Ethics H2020

LERU’s Agenda for ethics/ on the role of ethics in H2020.

“At the initiative of Franck Meijboom and Marcus Düwell, both ethics researchers at Utrecht University, LERU ethics’ scientists met last autumn to discuss the position and role of ethics in Horizon 2020. They agreed to write a statement and annex on the ‘Agenda for Ethics’ Research in H2020’. These documents elaborate further on the LERU advice paper ‘[Social Sciences and Humanities: essential fields for European research and in Horizon 2020](https://www.leru.org/publications/social-sciences-and-humanities-essential-fields-for-european-research-and-in-horizon-2020)’, published in June 2012. In the paper ethics is presented as an essential discipline to deal with the normative dimensions of the themes and topics mentioned in Horizon 2020. The claim that ethics is essential to foster responsible research and innovation is further elaborated in this statement and ideas are presented on how this can be operationalized. In the Annex, specific ethical questions related to the themes of Horizon 2020 are presented with best practice examples in ethics research with a multidisciplinary character”.

<https://www.leru.org/news/leru-publishes-an-agenda-for-ethics-research-in-horizon-2020>

Statement : <https://www.leru.org/files/Agenda-for-Ethics-research-in-Horizon-2020_statement1.pdf>

Annex : <https://www.leru.org/files/Annex_Agenda-for-Ethics-research-in-Horizon-20201.pdf>

And :

<https://www.leru.org/files/Towards-a-Research-Integrity-Culture-at-Universities-full-paper.pdf>

>> “RRI (*Responsible Research* and Innovation) are ways for thinking about the broad social, economic, political, and environmental impact of scientific research” (Univ. of Bristol, UK)

>> “At the CNRS, the fundamental values of professional ethics, scientific integrity and ethics form the bedrock of the way we view our responsibility in research and innovation.

The purpose of research is to contribute to the development of knowledge and the advancement of science. It relies on the principles of honesty, scientific integrity, and responsibility, on which the public bases its confidence in research (CNRS Ethics Committee, Integrity and Responsibility in Research Practices)”

Who is in charge of steering Ethics at your university?

* Cagliari

<https://en.unica.it/en/university/organisation/promoting-and-supporting-bodies/ethics-commission-and-guarantee-committee>

* Nanterre

<https://www.parisnanterre.fr/science-ouverte-et-ethique/reglement-interieur-comite-dethique-de-la-recherche-paris-nanterre-cer-pn>

* Rennes

<https://www.univ-rennes.fr/sites/www.univ-rennes.fr/files/medias/files/Charte%20Ethique-Inte%CC%81grite%CC%81%20scientifique_Rennes2-UnivRennes_2023-02-17.pdf>

* Masaryk

<https://www.muni.cz/en/about-us/organizational-structure/boards-and-committees/research-ethics-committee/ethics-at-mu>

* USN

<https://www.usn.no/english/about/organization/boards-and-committees/the-integrity-committee>

etc…

## ORCID

“ORCID is a free, unique, persistent identifier (PID) for individuals to use as they engage in research, scholarship, and innovation activities”.

“ORCID, which stands for [**Open Researcher and Contributor ID**](https://support.orcid.org/hc/en-us/articles/360006973993-What-is-ORCID-), is a free, unique, persistent identifier (PID) for individuals to use as they engage in research, scholarship, and innovation activities. We provide ORCID to researchers free of charge so that we may realize our vision of connecting all who participate in research, scholarship, and innovation are uniquely identified and connected to their contributions across disciplines, borders, and time.

People use “ORCID” or “ORCID iD” interchangeably, but what they’re talking about is a [16-digit number](https://support.orcid.org/hc/en-us/articles/360006897674-Structure-of-the-ORCID-Identifier) *and* the associated record (sometimes called a profile) that stores automatic links to all your research, and links all your research with you. By allowing trusted organizations to add your research information to your ORCID record, you can spend more time conducting your research and less time managing it”.

<https://info.orcid.org/researchers/#why>

>> Cecile Swiatek Cassafieres’ example [0000-0003-1066-4559](https://orcid.org/0000-0003-1066-4559) > her account, her connectors in her parameters including Université Paris Nanterre as a trusted third party so they library colleagues can handle things on her behalf.

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