

Horizon Europe Open Science requirements in practice

Jonathan England

USEFUL LINKS

Horizon Europe
reference
documents

Program Guide
of Horizon
Europe

Annotated Model
Grant Agreement
(AGA)

ERC Managing
your project >
Open Science

EC Participant
Portal –
'Continuous
reporting' guide

Information
package for
MSCA

Financial Guide
(6.4) for MSCA

Data
Management
Plan template

Open Research
Europe

EU Open
Research
Repository

EOSC EU Node

EOSC EU Node
Learning Center

Q&A from
previous
webinars

'A Quick Guide to
Horizon Europe
Open Access
requirements'

'A Quick Guide to
Horizon Europe
Research Data
requirements'

Open Science

“Open science is an approach based on open cooperative work and systematic sharing of knowledge and tools as early and widely as possible in the process”

European Commission

Open Access to
publications

Responsible
management of
data (FAIR
principles)

Open access to
data ‘as open as
possible, as
closed as
necessary’

Information
about outputs /
tools /
instruments to
validate/re-use
results and data

Digital /physical
access of results
to validate the
conclusions

Requirements for publications

Requirements

- Peer-reviewed manuscript (AAM or VoR) in a metadata-ready **trusted repository**
- **No embargo period** (i.e. immediate OA)
- Authors retain their rights by having the AAM and/or the VoR under a **CC-BY 4.0** licence
- Information about research outputs or tools/instruments needed to validate the conclusions of the publication
- Add the acronym/code of the project within

Specificities

- Publication fees (Article Processing Charges) are **reimbursable** if the venue is full OA
- **No restrictions** on where to publish (journal doesn't have to be full OA), but APCs for hybrid journals are not covered
- CC BY-NC/BY-ND/BY-NC-ND allowed for long-text formats (e.g. monographs; a chapter in an edited book is not eligible)

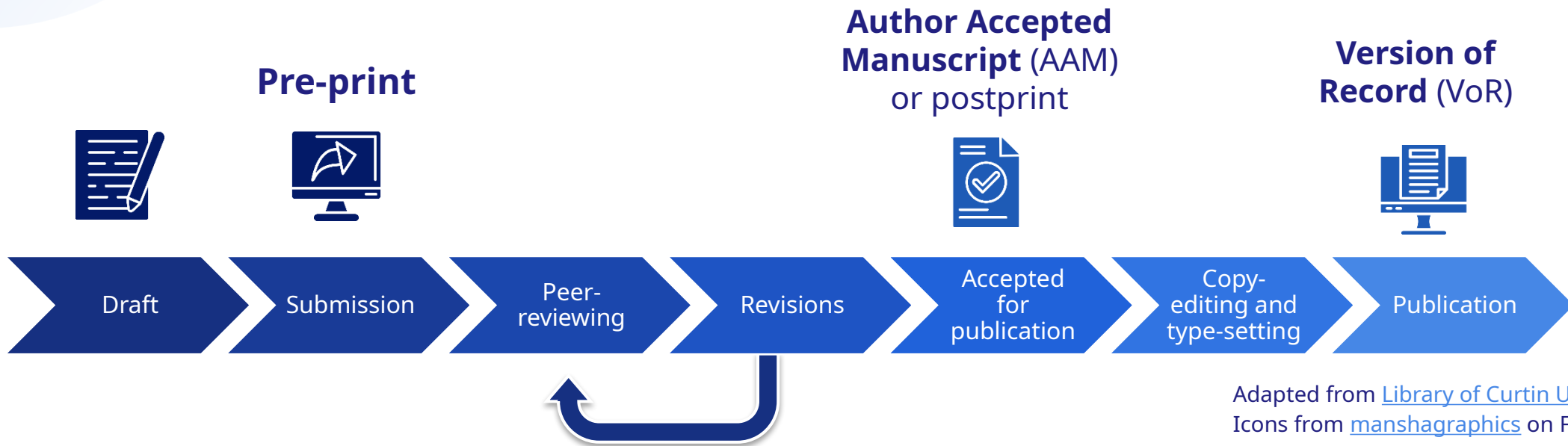
OVERVIEW



Mandate

- Applies **only to peer-reviewed publications** (but recommended for all your work)
- **No restrictions** on where you can publish
- **Deposit the peer-reviewed version** of your manuscript (AAM or VoR) in a ‘trusted repository’
- Provide **immediate Open Access** upon publication (i.e. no embargo period)
- Ensure you retain your rights on at least one of the peer-reviewed version of your manuscript (AAM, VoR) under a **CC-BY 4.0 licence**
- Provide information about research outputs or tools/instruments needed to validate the conclusions of the publication
- Acknowledge the EU (Art. 17 AGA); add the acronym/code/DOI of the project

Author Accepted Manuscript (AAM) vs Version of Record (VoR)



Self-archiving

- **Open repository** = digital platform that provides free, immediate and permanent access to research results for anyone to use, download and distribute
- Social networking sites (e.g. ResearchGate, Academia), the publisher's website, your profile page on the institution's website, etc. are **NOT repositories**
- **Self-archiving** = you deposit a version of your work in an open repository
- **Regardless of where you publish** (even fully Open Access or hybrid journal), always deposit the AAM or VoR in a repository.
- It is about **where you make it available** in Open Access, NOT where you publish



Definition from Wikipedia, "[Open-access repository](#)", CC BY-SA 4.0

Trusted repositories

- Three categories of trusted repositories:
 - Certified repositories
 - **Discipline and domain-specific** repositories commonly used and endorsed by the international research communities
 - **General-purpose / institutional** repositories that meet a set of essential criteria (metadata)
- Compliance challenge:
 - Another mandatory requirement: metadata should be in line with the FAIR principles and under a CC0 licence
 - Not all ‘trusted repositories’ are fully ready for Horizon Europe compliance

Search for a repository on:

OpenAIRE | **EXPLORE**

<https://explore.openaire.eu/>

For your publications:

OpenDOAR

<https://opendoar.ac.uk/>

For everything:

zenodo

EU Open Research Repository

<https://zenodo.org/communities/eu/>

Trusted repositories

- Currently only 5 trusted repositories are ‘ready’ for compliance (HAL, AUSSDA, <intR>²Dok, DANS Data Station Archaeology, Zenodo)
- Check if the repository is ‘trusted’ and has the essential metadata criteria (Annex 1). But many are “close to essential” and currently making changes, so check even if it is not in the list yet:

<https://doi.org/10.5281/zenodo.13919642>

In doubt **deposit on Zenodo***:

- Fully compliant with repository requirements
- Free and easy to use (also used by the EC to deposit Open Research Europe publications)

+

Subject-specific and/or institutional repository

- Improves visibility and discoverability
- Better community engagement and networking

*EU Open Research Repository in Zenodo

Basic information

Digital Object Identifier*

Do you already have a DOI for this upload? Yes, I already have one No, I need one

Copy/paste your existing

Get a DOI now!

Reserve a DOI by pressing the button (so it can be included in files prior to upload). The DOI is registered when your upload is published.

Resource type*

Publication

Title*

My publication's title

Related works

Specify identifiers of related works. Supported identifiers include DOI, Handle, ARK, PURL, ISSN, ISBN, PubMed ID, PubMed Central ID, ADS Bibliographic Code, arXiv, Life Science Identifiers (LSID), EAN-13, ISTC, URNs, and URLs.

Related works

Relation*

Identifier*

Scheme*

Resource type*

Is version of ✕

10.5281/zenodo.17534

DOI ✕

Publication ✕



Add related work

IF YOU UPLOAD THE AAM:

- The AAM and VoR are considered different documents and you should **get a new DOI** – select “No, I need one”.
- Link back to the VoR by adding its DOI in the “Related works” section: – select **“Is version of”**, fill in the DOI (removing the ‘doi.org’ part), and select **“DOI”** as the ‘Scheme’.

1. Deposit on institutional repository

2. Deposit on Zenodo

“Do you already have a DOI for this upload?” –
“Yes I already have one

Add the DOI created by the institutional repository

In “Related works” - “Is version of” + VoR’s DOI

Complete all other metadata fields

If you upload the AAM on another repository first, and then on Zenodo to comply with the policy:

1. Deposit on the subject-specific / institutional repository to **get attributed a DOI**;

2. **Deposit on Zenodo** and under the section “Do you already have a DOI for this upload?” select “Yes, I already have one” and add the DOI (or other identifier) that was created by your repository;

3. **Fill-in all the fields as much as possible** on Zenodo (which your other repository might be missing). Don’t forget to link back to the VoR by adding its DOI in the “Related works” section – select “**Is version of**”, fill in the DOI of the publisher (i.e. VoR)

Basic information

Digital Object Identifier*

Do you already have a DOI for this upload? Yes, I already have one No, I need one

10.5281/zenodo.17534323

A DOI allows your upload to be easily and unambiguously cited. Example: 10.1234/foo.bar

Resource type*

Publication

Title*

My publication's title

IF YOU UPLOAD THE VoR:

- **Don't create a new DOI.** The VoR on Zenodo is to future-proof your work in case it isn't available on the publisher's website anymore – when asked “Do you already have a DOI for this upload?”, **select “Yes, I already have one”**, and fill-in the field with the publisher's DOI.
- Don't link back to the publisher's DOI in the “Related works” section.

Licence

- AAM and/or VoR has to be under a Creative Commons Attribution licence (CC BY 4.0)
- Different ways to achieve this:
 - **Publish in a full OA journal:** VoR under CC BY 4.0
 - **Pay to publish in a hybrid venue:** pay an OA fee to publish in a subscription-based journal (when publishers offer different licences, make sure to select CC BY 4.0)
 - Publish in a subscription-based journal (you don't pay an OA fee) and add the '**Rights Retention Statement**'
- With a CC BY licence you **own the rights** to that version of your work, so you can deposit it freely on any repository, website, etc.
- The AAM and VoR might be available under different licences, e.g. signing a Copyright Transfer Agreement on the VoR but retaining your rights (under a CC-BY licence) on the AAM, allowing you to share it openly
- CC BY-NC/BY-ND/BY-NC-ND licence **allowed for long-text formats** (e.g. monographs); **a chapter in an edited book is not eligible**

Creative Commons

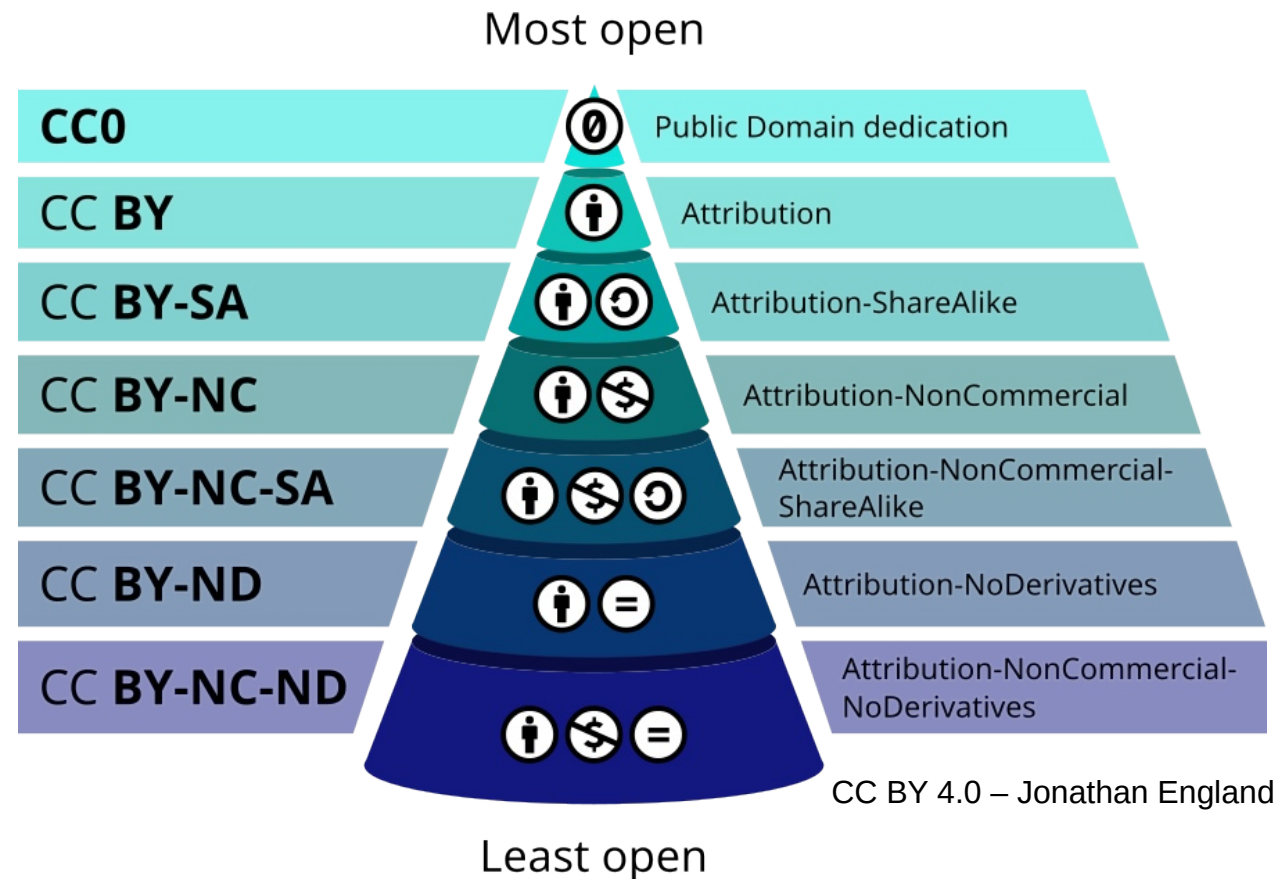
- Removes ambiguity over what others can and cannot do with your work
- You keep (certain) rights, but you grant certain reuses without them needing to contact you
- Universally recognisable and juridically sound (you can still claim copyright infringements)




You can share, adapt for any purpose, no attribution is required (it is similar to 'Public Domain' but is an actual licence)



You can share, adapt for any purpose as long as you **credit the author**



Commercial exploitation


- **Publication's** licence \neq licence applied to the **results** themselves.
- The requirement for the CC BY licence **concerns your publication**, the written words and figures describing your research and its results.
- A different licence can be applied to your data, model, software, results, patent, etc.
-  **PATENTS** - the 'novelty' aspect is required to file a patent. You must not have shared it in any way (e.g. conference talk, publication, data repository) before the patent is established. Make sure to establish a clear timeline so you do not hinder your commercialisation plan by mistake.

Rights Retention Statement

This work was funded by the European Union under the Horizon Europe grant [grant number]. As set out in the Grant Agreement, beneficiaries must ensure that at the latest at the time of publication, open access is provided via a trusted repository to the published version or the final peer-reviewed manuscript accepted for publication under the latest available version of the Creative Commons Attribution International Public Licence (CC BY) or a licence with equivalent rights. CC BY-NC, CC BY-ND, CC BY-NC-ND or equivalent licenses could be applied to long-text formats.

Check the journal's eligibility

English Français


 JOURNAL CHECKER TOOL


Which publishing options are supported by your funder's OA policy?

JOURNAL MY FUNDER MY INSTITUTION

By ISSN or title + European Comm + By ROR or name =

No affiliation

 **Plan S**
Making full & immediate Open Access a reality

 SEND US FEEDBACK

Yes, the journal policy allows compliance with the Horizon Europe open access mandate



OPEN ACCESS PUBLISHING IN THIS JOURNAL ALLOWS COMPLIANCE WITH THE HORIZON EUROPE OPEN ACCESS MANDATE PROVIDED YOU HAVE ALTERNATIVE FUNDS

Remember to select a **CC BY** licence (or equivalent).

Remember to also ensure, at the time of publication, the **immediate deposition** and open access of the Version of Record in a **trusted repository** under a CC BY (or equivalent) licence, as required by Horizon Europe.

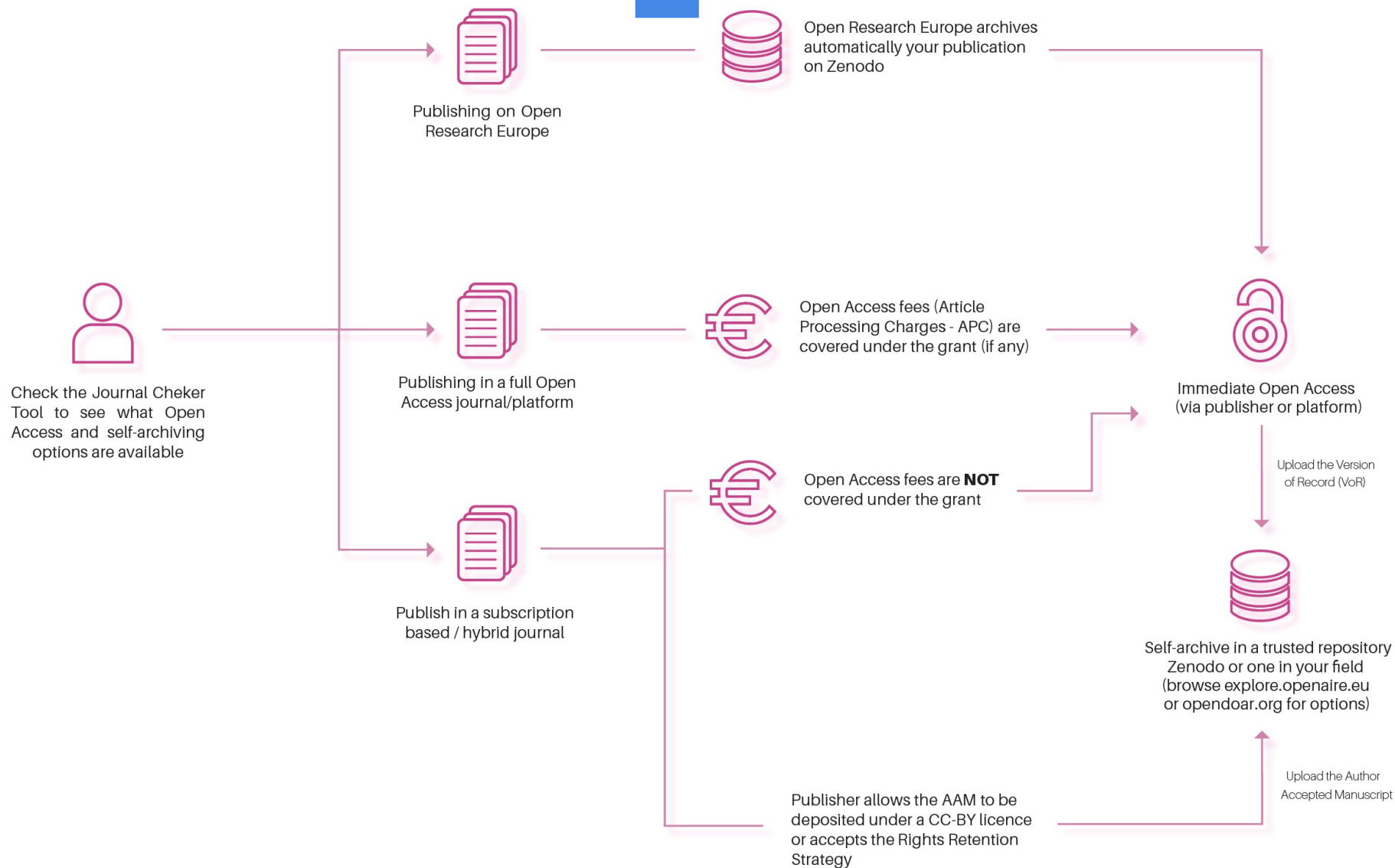
Publishing fees, including Article Processing Charges, in Hybrid journals are **not eligible** costs under Horizon Europe and you must locate alternative funds. [More Information](#)

<https://journalcheckertool.org/>

In practice

- **No specific rule of where to put the RRS.** You can:
 - add it in the first page of the article;
 - add it in the acknowledgement section;
 - add it in the message to the editor accompanying your article (cover letter).
- **⚠ Keep the statement from the initial submission up to the final version.**
- Keep a copy of the successive versions of your manuscript that have the licence notice, and archive any discussions with the publisher to ensure you can prove you retained your rights during the whole process.
- Go the extra step:
 - add the text "CC BY 4.0" or "Distributed under a Creative Commons Attribution 4.0 International licence", and
 - add the CC BY logo to your manuscript, on all versions from submission to the final peer-reviewed version.

recommendations based on "Implementing the rights retention strategy for scientific publications - [Guide for researchers](#)", French Ministry of Higher Education and Research, 2022



Budget

- Publication fees (Article Processing Charges) can be **covered by the grant if the venue is full Open Access** (also known as 'Gold' OA)
- **Hybrid venues aren't eligible:** you will have to find another way to cover those costs (except for MSCA)
 - no matter whether they are considered "transformative journals" committed to transition to a fully open access journal, or covered by "transformative agreements" between institutions and publishers
- Any printing fees (for monographs, books or articles) can't be covered by the grant either
- **IEEE's new "Repository License Fee" isn't eligible,** as the venue is still considered hybrid.



Extra information

- Research outputs, tools and instruments;
e.g. data, software, algorithms, protocols, models, workflows, electronic notebooks and others.
- Information should include a detailed description of the research output/tool/instrument, how to access it, any dependencies on commercial products, potential version/type, potential parameters, etc.
- Best practice: open access is provided to these research outputs, tools and instruments — unless legitimate interests or constraints apply.

```
ir) || !is_readable($temp_dir)) {  
    ('sys_get_temp_dir') { // sys_get  
        inaccessible temp dir, e.g. with  
    };  
  
    // see https://github.com/JamesMc  
    ('sys_get_temp_dir');  
  
    ('httpdocs'://tmp/"  
    array('/', '\\'), DIRECTORY_SEPARAT  
    array('/', '\\'), DIRECTORY_SEPARAT  
    (= DIRECTORY_SEPARATOR) {  
        PARATOR;  
  
        SEPARATOR, $open_basedir);  
        ('open_basedir') {  
            (= DIRECTORY_SEPARATOR) {  
                SEPARATOR;  
            }  
        }  
    }  
}
```

Another option



European
Commission



OPEN RESEARCH EUROPE

The open access publishing
platform for Horizon 2020 and
Horizon Europe research results

Open Research Europe publishing platform

Slides adapted from:

Durowoju, G. (2022) [10.5281/zenodo.7266373](https://zenodo.org/record/7266373);

England & Malaguarnera (2022) [10.5281/zenodo.7324363](https://zenodo.org/record/7324363);

England & Tsoukala (2023) [10.5281/zenodo.10125224](https://zenodo.org/record/10125224);

England, Leo & Dolinar (2025) [10.5281/zenodo.14999515](https://zenodo.org/record/14999515)

all under CC-BY 4.0

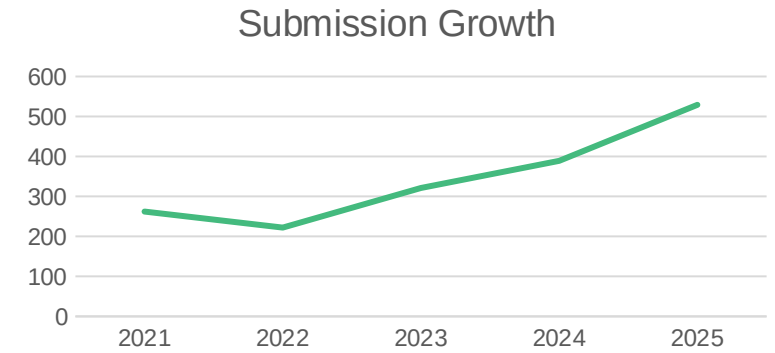


Victoria Tsoukala

Policy Officer-Open Science, European
Commission, DG RESEARCH

Open Research Europe (ORE)

- Launched by the European Commission in **2021**; offers EU research programme grantees an open access platform free of charge.
- The platform allows researchers to meet **open access requirements**.
- Innovative publishing model marked by rigorous and open **post-publication peer review**.



1,200 articles

6,300 authors

3,000
peer reviewers

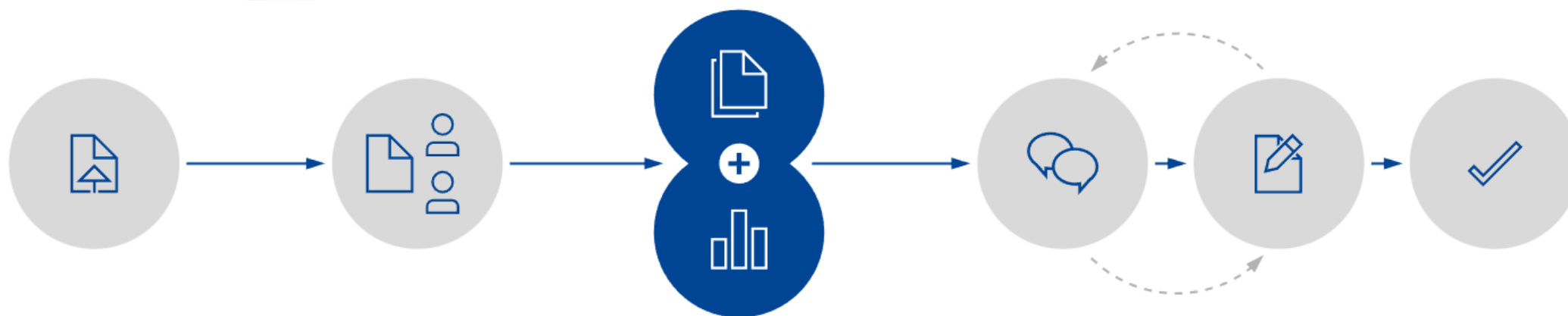
3,000
institutions

Overview

- Diamond Open Access publishing platform for Horizon 2020 and Horizon Europe beneficiaries (even partially funded) – **NOT a repository**
- **No costs to authors or readers** (i.e. no APCs) - costs are met directly by the European Commission
- **Optional** service, available during and after the end of the project
- Post-publication **Open peer-review** - name of the reviewers, the revisions and the comments from the authors after revisions, are openly available (all under a CC BY licence)
- Immediate publication – publish first, then the review takes place
- **Automatic compliance** with the OA requirements - no need to self-archive as it will be archived in Zenodo once passed peer-review
- High scientific standards and policies - Scientific Advisory Board; policies and guidelines (e.g. underlying data availability, analysis of methods)

Publishing process

Indexed in important indexers and national lists:



Article Submission

Submit research via a single-page submission system. See the [Article Guidelines](#) for information about submitting different article types. Track your submission via [My Account](#).

Prepublication Checks

Our in house team of professional editors carries out comprehensive prepublication checks to ensure that all policies and ethical guidelines are adhered to. [Find out more](#) about these prepublication checks and what is required.

Publication & Data Deposition

Once the article has passed the prepublication checks, a fully typeset version is published with a DOI enabling immediate viewing and citation as well as indexation in Google Scholar. Once the article is published it cannot be sent to another journal for review and publication.

Open Peer Review & Article Revision

Expert reviewers are selected and invited, and their reviews and names are published alongside the article, together with the authors' responses and comments from registered users.

Send to Indexers & Repositories

Authors are encouraged to publish revised versions of their article. All versions of an article are linked and independently citable. Articles that pass peer review are indexed in external databases such as PubMed, Scopus, and Google Scholar.

Scopus[®]

PubMed

IET Inspec

OpenAlex

ERIH PLUS
EUROPEAN REFERENCE INDEX FOR THE HUMANITIES AND SOCIAL SCIENCES

Dimensions

TOP FACTOR

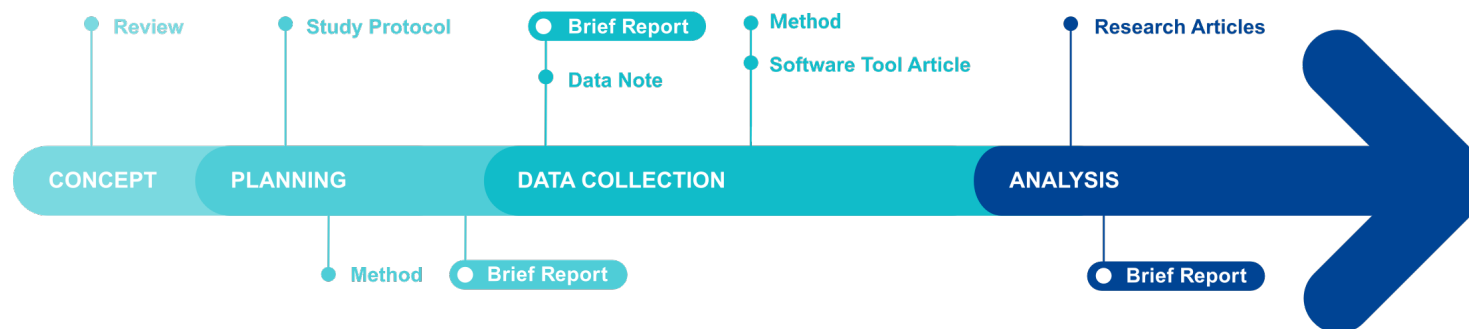
DOAJ
DIRECTORY OF OPEN ACCESS JOURNALS

Reaxys[®]

Google Scholar

zenodo

Publishing throughout the research process



Open Research Europe

ARTICLE TYPES by subject

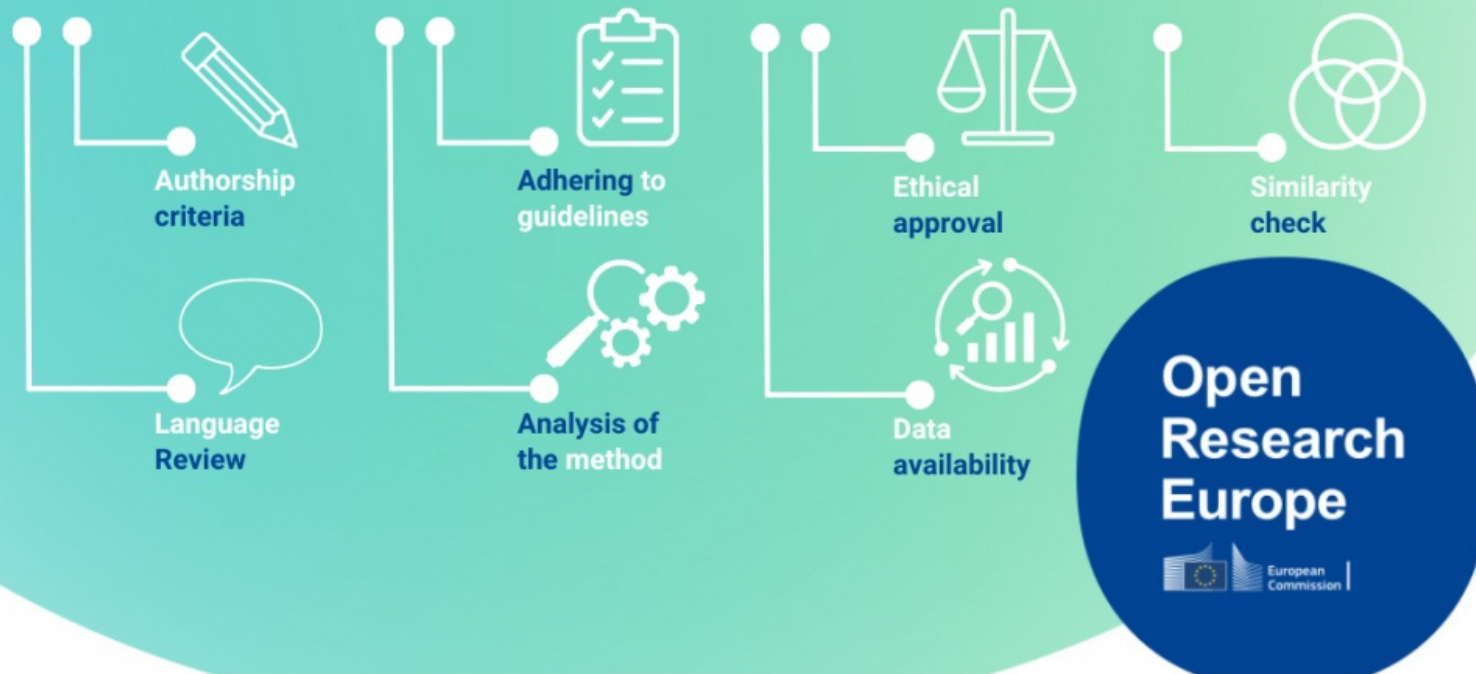
	Natural sciences	Engineering and technology	Medical and health sciences	Agricultural and veterinary sciences	Social sciences	Humanities and the arts
Case Study	•	•	•	•	•	•
Research Article	•	•	•	•	•	•
Brief Report	•	•	•	•	•	•
Data Note	•	•	•	•	•	•
Method Article	•	•	•	•	•	•
Open Letter	•	•	•	•	•	•
Software Tool Article	•	•	•	•	•	•
Review	•	•	•	•	•	•
Case Report	•	•	•	•		
Registered Report	•	•	•	•	•	
Clinical Practice Article	•	•	•	•		
Study Protocol	•	•	•	•	•	
Systematic Review	•	•	•	•	•	
Essay					•	•

European Commission

Pre-publication checks

The pre-publication checks

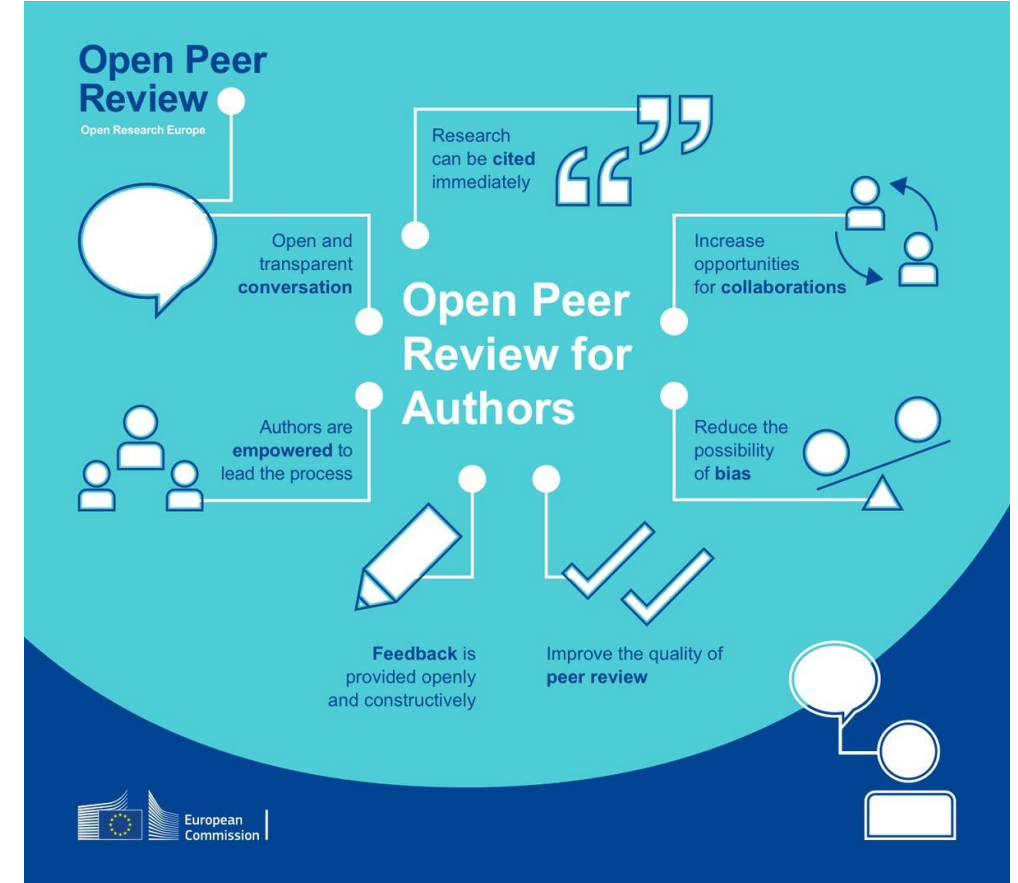
Submissions are **rigorously checked by the in-house editorial team** before being published.



The in-house editorial team does not review the academic/scientific content of the publication. Only the reviewers (selected by the authors) do that.

Review process

- Reviewers are suggested by article authors, with the editorial team ensuring they meet necessary criteria (e.g. conflicts of interest) or suggesting additional expertise
- An extensive list of questions, which must be answered, guides the review process, appropriate for different domains; there is also a reviewer code of conduct to be followed
- Once all necessary reviews performed, the editorial team checks for process, content, language and correct status, and completes the publishing process



Open peer-review example

Open Research Europe

Approval statuses: what do they mean for authors?





Approved
The article is of an **appropriate academic standard**. Reviewers may suggest small changes to improve the article or correct minor errors, but these changes will not affect the peer review status.

Approved with reservations
The reviewer believes the article has **academic merit but has asked for several small changes** to the article or more significant revisions.

Not approved
The article in its current form has **issues that seriously undermine the findings and conclusions**. More serious revisions will be required for the paper to pass peer review. A 'Not approved' status does not equate to rejection - it's possible to improve an article's status from 'Not approved' to 'Approved' upon publication of a new version.

commenting

Reviewer provides peer review and status	✓✓ or ✓??	
Approved	✓	NOTE: authors may continue to publish new versions, even once peer review passed
Approved with reservation	?	
Not approved	✗	

< > 1-20 of 280 results Advanced search ▾

RESEARCH ARTICLE ✓✓✓

REVISED [Towards an integrated automatic design process for robot swarms \[version 2; peer review: 3 approved\]](#)

AUTHORS Darko Bozhinoski, Mauro Birattari

FUNDERS **Horizon 2020 Framework Programme** | Wallonia-Brussels Federation | Fonds De La Recherche Scientifique (FNRS)

PEER REVIEWERS Adam Schroeder; Alan Millard; Edmund Hunt and James Ward

LATEST VERSION PUBLISHED 04 Nov 2022

RESEARCH ARTICLE ✓ ?

REVISED [Identifying entrepreneurial discovery processes with weak and strong technology signals: a text mining approach \[version 2; peer review: 1 approved, 1 approved with reservations\]](#)

AUTHORS Levan Bzhalava, Jari Kaivo-oja, Sohaib S. Hassan, Wolfgang Dieter Gerstlberger

CASE STUDY AWAITING PEER REVIEW

Hybrid AC/DC architecture in the CE.D.E.R.-CIEMAT microgrid: demonstration of the TIGON project [version 1; peer review: awaiting peer review]


AUTHORS Paula Peña-Carro, Oscar Izquierdo-Monge

Open peer-review example

Reviewer Report 2 Views 

? Approved with reservations 

22 Jun 2022 VERSION 1

Gerd Maack , German Environment Agency (UBA), Dessau-Roßlau, Germany

[” Cite this Report](#)

[Responses \(1\)](#)

The data for this manuscript is part of a larger project and utilize the unique Norwegian Wholesale Statistic database.

However, the text is quite difficult to read, as it misses an overall red line, especially for readers not involved in the project and those who did not read the project report.

One example of this is the data evaluation. For me, it is not clear why the author chose the data and publications they compared the results of this project to. Grung *et al.* (2005) and the Felleskatalogen data are very likely not known to anyone outside of Norway. Here a better explanation would have been needed.

Finally, all the effort of building the database and extracting the data should end in using the database and producing results. The

AUTHOR RESPONSE 15 SEPTEMBER 2022

Sam Welch

Thank you for your quick and comprehensive feedback on our paper. I've revised the paper in response to a number of your suggestions, and I'll attempt to respond to them all below. **The data for this manuscript is part of a larger project and utilize the unique Norwegian Wholesale Statistic database.**

However, the text is quite difficult to read, as it misses an overall red line, especially for readers not involved in the project and those who did not read the project report. I've rewritten part of the abstract and introduction, and I hope our intentions – to calculate PECs from Norwegian drug sales, and publish them – are clearer now.

One example of this is the data evaluation. For me, it is not clear why the author chose the data and publications they compared the results of this project to. Grung *et al.* (2005) and the Felleskatalogen data are very likely not known to anyone outside of Norway. Here a better explanation would have been needed. Pharmaceuticals sales data is not generally publicly available, in Norway or elsewhere, and both predicted and measured environmental concentration data for Norway are similarly scarce, compared with better-studied nations such as

Research communities

Gradually developing researcher-led **community gateways and collections** in specific fields

Community Gateways

Gateways

Community Gateways

Collections

Community Gateways are dedicated hubs within Open Research Europe to bring together all content related to a specific area of research. They can be tracked to trigger email alerts whenever there is new research published within the Community Gateways of interest.



Agriculture, Land and Farm Management

The Agricultural, Land and Farm Management Community Gateway is the home for research ensuring the correct use and management of land for agricultural functions and interests, and is led by [Dr. Olivier Le Gall](#).



Analytical Chemistry

Analytical chemistry involves the separation, identification and quantification of the composition and structure of matter in both natural and artificial substances. This Community Gateway is led by [Dr. Imad El Haddad](#).



Animal and Dairy Science

The Animal and Dairy Science community gateway is focused on publishing both industry- and lab-based research relating to animal and dairy produce, and is led by [Dr. Emer Kennedy](#).



Arts

This multidisciplinary gateway showcases research on all aspects of the Arts, a field encompassing an immense variety of human practices with creative expression and imagination at their core. This Community Gateway is led by [Dr Ruth Sargent Noyes](#).

Collections

Gateways

Community Gateways

Collections

Collections are compilations of content relating to a specific Horizon 2020 or Horizon Europe-funded community, project or conference.



Adaptation to Climate Change

This collection draws on the interdisciplinary nature of climate research in the Horizon funding programmes, looking at both current climatic conditions as well as the lessons that can be learned from climatic changes in the past. It is led by [Dr. Jana Voříšková](#).



Additive Manufacturing

Additive Manufacturing refers to technologies that produce three-dimensional objects one superfine layer at a time. It has many applications across Engineering. Examples include the creation of weight-saving, complex geometric designs for Aerospace Engineering, the rapid prototyping in Automotive Engineering, and creating custom on-demand surgical implants in Medical Engineering.



Advances in Natural Language Generation

The aim of this collection is to bring together recent works related to developments and improvements within the field of language generation. It has been developed by the Multi3Generation COST Action network (CA18231) but is open to submissions from Horizon projects. It is led by [Dr. Anabela Barreiro](#), [Dr. Elena Lloret Pastor](#), and [Professor Max Silberstein](#).



Advances in Optics

Optics is concerned with studying and understanding the behavior and properties of light, specifically in relation to its interaction with different media. This collection focuses on the latest developments within this field of physical sciences.

A vision for the future of ORE



A top-quality, trusted **collective OA publishing service** for the public good



Collectively driven, owned and supported by research funders and research institutions, as a service for researchers, with **no author fees**



Supported by an **open-source infrastructure**



Ambition gradually to achieve a **publishing service without eligibility barriers**



Keep it **optional** yet **attractive to researchers' needs**



Support **diversification of publishing landscape** – not replace, rather **enrich**

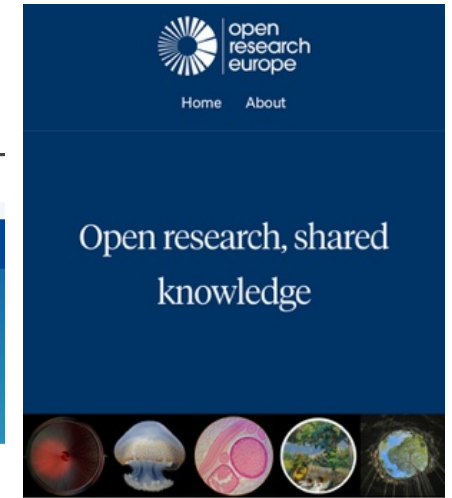
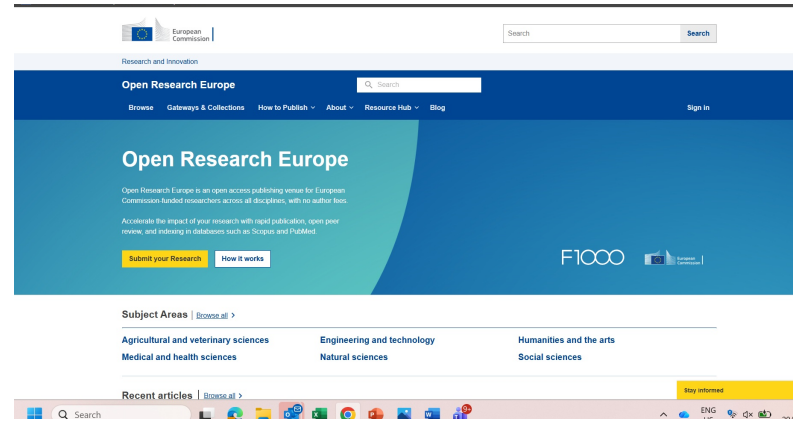


<https://data.europa.eu/doi/10.2777/204155>



Collaboratively supporting ORE

- **Collaboration agreements** between organizations in 11 countries to support ORE for governance and funding
- **CERN** to operate ORE
- **16.6 million EURO** secured for 5 years
 - EC 60% of budget; other parties 40% in **equitable cost-sharing scheme**
- Transition to new service in **October 2026**
- Open infrastructure **Open Journal Systems** by PKP
- **Collaboration just launched** in Geneva on 27 March



About ORE

[Open Research Europe \(ORE\)](#) is an open access publishing platform established in 2021 by the European Commission to support researchers funded by the European Commission. The platform provides

[EC Newspiece](#)

[Blog on ORE](#)

[CERN's press release](#)

The organizations that will fund ORE (+EC)

1. AUSTRIAN SCIENCE FUND ('FWF');
 2. FRENCH NATIONAL RESEARCH AGENCY ('ANR');
 3. FRENCH NATIONAL CENTRE FOR SCIENTIFIC RESEARCH ('CNRS');
 4. FEDERAL MINISTRY FOR RESEARCH, TECHNOLOGY AND SPACE ('BMFTR');
 5. MINISTRY OF UNIVERSITIES AND RESEARCH ('MUR');
 6. DUTCH RESEARCH COUNCIL ('NWO');
 7. THE RESEARCH COUNCIL OF NORWAY ('RCN');
 8. FOUNDATION FOR SCIENCE AND TECHNOLOGY ('FCT');
 9. SLOVENIAN RESEARCH AND INNOVATION AGENCY ('ARIS');
 10. The Swedish research funders:
 - SWEDISH RESEARCH COUNCIL FOR HEALTH, WORKING LIFE AND WELFARE ('Forte')
 - SWEDISH RESEARCH COUNCIL FOR THE ENVIRONMENT, AGRICULTURAL SCIENCES AND SPATIAL PLANNING ('Formas')
 - SWEDISH RESEARCH COUNCIL ('VR')
- represented by The Swedish Research Council;
11. SPANISH FOUNDATION FOR SCIENCE AND TECHNOLOGY ('FECYT')
 12. SPANISH NATIONAL RESEARCH COUNCIL ('CSIC');
 13. EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH ('CERN').
 14. SWISS NATIONAL SCIENCE FOUNDATION ('SNSF')

11 countries (9 EU +NO, CH); 16 organizations + EC


2 ministries - 11 research funders - 3 research organizations - 1 consortium (SE funders)

Membership to ORE

- **Membership to ORE** by signing the collaboration agreements
- Membership provides eligibility to publish
 - **Country-level membership:** enables all researchers in country to publish
 - **Institutional membership:** enables researchers of a single institution (research or funding institution) to publish
- **New Members** accede at the beginning of each year
- Members **share the costs** based on their research spending
- Members **participate in the governance** with decision-making power
- Current platform: <https://open-research-europe.ec.europa.eu/>
- Holding site for new platform: <http://ore.eu/>

Submit Your Manuscript

Subject area Natural sciences

Your ORCID iD  <https://orcid.org/0000-0001-6715-8628> 

About the Article

Article Type *

Guidance about choosing an article type.

- | | | |
|--|---|---|
| <input type="radio"/> Research Article | <input type="radio"/> Case Study | <input type="radio"/> Study Protocol |
| <input type="radio"/> Brief Report | <input type="radio"/> Clinical Practice Article | <input type="radio"/> Review |
| <input type="radio"/> Data Note | <input type="radio"/> Software Tool Article | <input type="radio"/> Systematic Review |
| <input type="radio"/> Case Report | <input type="radio"/> Method Article | <input type="radio"/> Open Letter |

Article Title *

I
 x_2
 x^2

Abstract *

Words: 0/300

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Follow
@OpenResearch_EU on
 social media

Scan to register to **ORE
 Newsletter** (4/year)



Requirements for research data

Mandate

- Must manage the digital research data in line with the **FAIR principles** (Findable, Accessible, Interoperable, Reusable).
- **Data Management Plan (DMP)** is required by M6; updated mid-project and at end of project.
- **Deposit (meta)data as soon as possible** after production / generation or after processing and quality controls.
- Deposit data in a **trusted repository** and make them **open as soon as possible** (deadlines set in DMP), following the “as open as possible, as closed as necessary” (open by default) principles.
- You should deposit all of the (meta)data generated / collected during the project, **whether it was used in a publication or not** (including relevant ‘raw’ data).

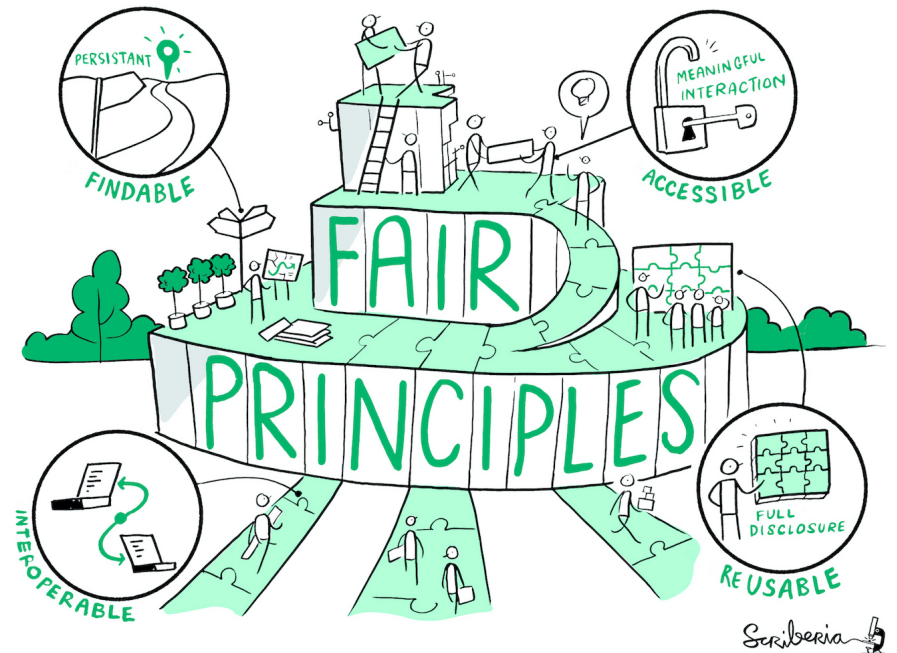


Image by [Scriberia](#) for [The Turing Way Community](#) under CC-BY 4.0

FAIR principles

Findable

- Persistent identifier (e.g. DOI)
- Rich metadata
- Searchable and discoverable online

Interoperable

- Lossless, open and/or standardised file formats (e.g. using a CSV file format instead of the proprietary XLSX format).
- Use shared definitions and standardised terms within your specific domain.

<https://www.openaire.eu/how-to-make-your-data-fair>

Accessible

- Deposited on a trusted repository (e.g. Zenodo)
- Data can be restricted and still FAIR – “as open as possible, as closed as necessary”

Reusable

- Well documented (e.g. README files), including provenance and tools/instruments needed to reproduce the results
- Clear licence (e.g. CC BY 4.0, CC0)



Data Management Plan

- **Formal ‘living’ document** that specifies how research data will be handled both during and after a research project.
- It identifies key actions and strategies to ensure that research data are of a high quality, safe, sustainable and – where possible – accessible and reusable.
- There are **no absolute right answers**
- But be clear, specific and detailed... and justify decisions
- The DMP is to prove to the funder that you’ve reflected on what to do and the approach seems reasonable
- And that your data is “**As open as possible, as closed as necessary**” (FAIR principles)



Slide adapted from Venkataraman, S. (2018) under CC-BY 4.0
<http://doi.org/10.5281/zenodo.1489929>

ARGOS – write your DMP

Free and open source

- **Free for researchers**, open source, configurable and extensible tool for planning Research Data Management activities according to OA & FAIR data policies.
- **Has the Horizon Europe DMP template**
- Discoverable through OpenAIRE EXPLORE
- Accessible: Persistent Identifiers (ORCIDs & DOIs)
- Interoperable: Research Data Alliance DMP Common Standard
- Reusable: Licences
- Versioned (history/provenance)
- Published and preserved in Zenodo
- Enables research communities to create templates (dataset profiles) tailored to domain standards and practices.



<https://argos.openaire.eu/>

Slide adapted from Papadopoulou, E.
(2022) under CC-BY 4.0

Specificities

- Data closed if necessary, but **metadata must be FAIR and under CCO** (metadata-ready trusted repositories will automatically share metadata in CCO)
- Open licence, preferentially CC-BY or CC0 licence
- Detailed information about research outputs or tools/instruments needed to re-use or validate the data (e.g. data, software, algorithms, protocols, models, workflows, electronic notebooks)



Examples of metadata

author(s) name,
author(s) ORCID, DOI,
licence, language,
journal, title, etc.

Valid justification for not opening the data

- Commercially valuable data if it would undermine its exploitation or other results (e.g. endanger trade secrets ('soft' IP)), or make IP protection of results more difficult
- Data protection/privacy rules of sensitive and/or personal data
- Security rules for projects dealing with strategic assets, interests, autonomy or security of the EU



Exceptions

Validation of findings

- Restricted or closed data might need to be made available through agreements with relevant confidentiality provisions



Public emergencies

- Can be triggered by the request of the granting authority
- Immediate OA is extended beyond publications to any research outputs – as soon as feasible and in CC BY or CC0
- DMP provided with the proposal or before grant signature
- In case of conflict of legitimate interests for openness, beneficiaries must grant non-exclusive licences to legal entities that need the research to address the emergency (this provision applies up to 4 years after the end of the action)

AMNESIA – anonymisation tool



User friendly



Works locally, no data transfer risk



Allows users to customize the solution



The only tool to offer anonymization for set-valued data



The only tool to support k^m -anonymity



Easy to incorporate to third party information systems

Why anonymise?

- Anonymised data are outside the scope of GDPR
- Anonymisation provides a statistical guaranty about the risk of information leakage
- It is the most suitable way to give information to third parties, without revealing personal data

Slide adapted from Terrovitis, M. (2023) under CC-BY 4.0

EU Open Research Repository

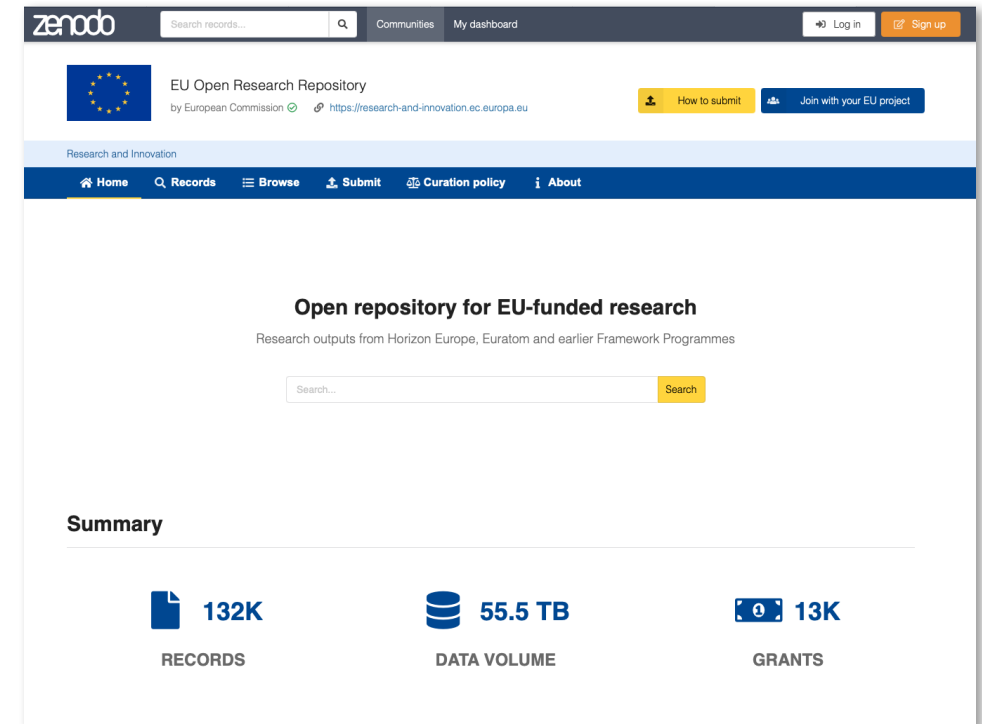


Lars Holm Nielsen

Former Head of Open Science Infrastructure at CERN

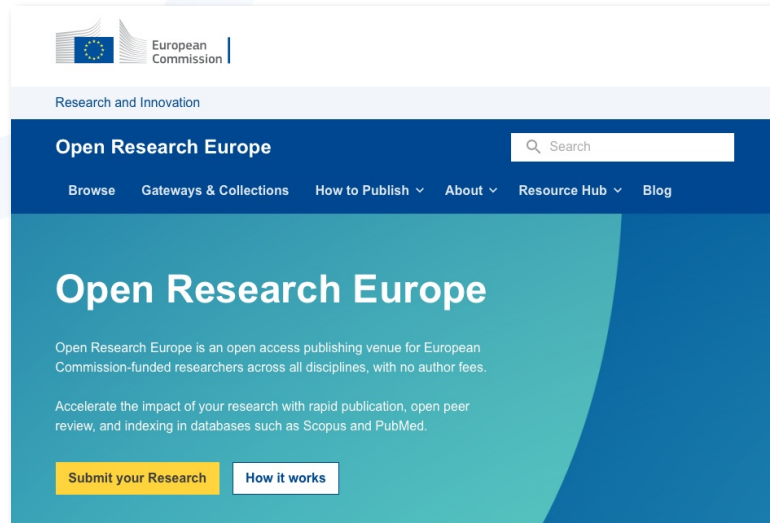
EU Open Research Repository

- A free to use Zenodo-community for EU-funded research outputs (publications, data, software, presentations, ...).
- Any discipline, any output.
- Managed by CERN on behalf of the European Commission.
- **A repository solution for projects**

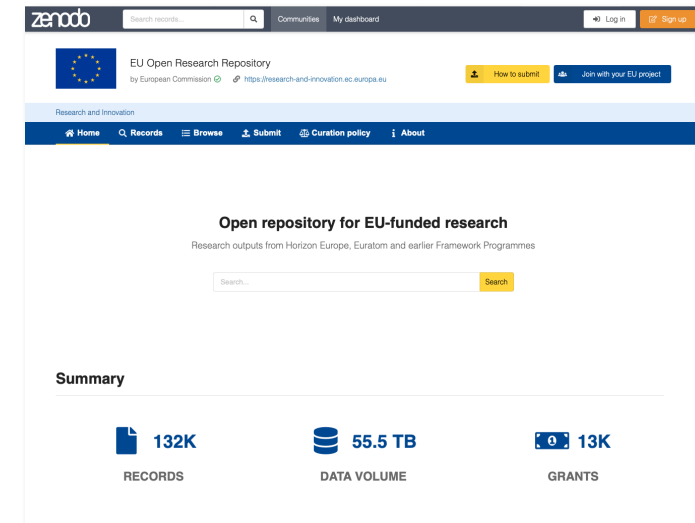


<https://zenodo.org/communities/eu/>

ORE vs EU Open Research Repository



- Publish **articles**
- Articles are **peer-reviewed**
- An open access **publishing venue**



- Publish any research output
- **Curated** but not peer-reviewed
- A trusted **repository**

EU Project Community

- A Zenodo-community for your EU project
- **Collaborate** across all project partners
- **Compliance** with related open science requirements in grant agreement
- **Integrated** with OpenAIRE for reporting to EC participant portal
- All content is indexed automatically in **EU Open Research Repository**

The screenshot shows the Zenodo interface for the iImagine project community. The page displays search results for 78 items, sorted by 'Newest'. The results include:

- June 16, 2025 (1.0) Presentation**: iImagine - an AI platform supporting aquatic science use cases by Schaap, Dick. Part of EU Open Research Repository, iImagine project. Uploaded on June 19, 2025. 45 views, 9 downloads.
- June 1, 2025 (1.0) Publication**: iImagine Impact Report by iImagine Project. Part of EU Open Research Repository, iImagine project. Uploaded on June 2, 2025. 33 views, 34 downloads.
- May 22, 2025 (1.0) Presentation**: UC3s EMSO SmartBay Marine Species Detection Service by Smyth, Damian; Melvin, Éabha; Cullen, Eva. Presentation about the EMSO SmartBay Service delivered as part of the iImagine webinar series (22/05/2025). Part of EU Open Research Repository, iImagine project. Uploaded on May 22, 2025. 43 views, 32 downloads.
- May 21, 2025 (v2) Presentation**: UC3a - EMSO-Azores Marine Species Detection Service by Tosello, Vanessa; Borremans, Catherine. Presentation about the EMSO Azores Service delivered as part of the iImagine webinar series (30/04/2025).

Collaborate across institutions

- Login with institutional account (OpenAIRE AAI)
- Invite and manage members
- Review and curate records

Records Requests **Members** Settings Curation policy About

Members
Invitations

Search in members ...

0 members selected

	Member since	Visibility	Role	
<input type="checkbox"/>	1 year ago	Hidden	Owner	Invite... Remove...
<input type="checkbox"/>	1 year ago	Public	Owner	Remove...
<input type="checkbox"/>	2 years ago	Public	Owner	Leave...

3 result(s) found

25 results per page

Compliance with open science requirements

- Supports you comply with related open science requirements
- FAIR – file format checks for open/scientific formats.

Conversation
Record
✓ Checks

- ✓ Metadata validation
- ✓ File formats check

- ✓ **Journal articles must specify the publishing venue**
To comply with Horizon Europe's open science requirements, peer-reviewed scientific publications must specify the publishing venue (e.g. journal) it was published in. [Learn more](#)
- ✓ **All submissions must specify licensing terms**
To comply with Horizon Europe's open science requirements, a submission must specify the licensing terms. [Learn more](#)
- ✓ **Journal articles should have a CC-BY license or license with equivalent rights**
To comply with Horizon Europe's open science requirements, peer-reviewed scientific publications must be available under the latest Creative Commons Attribution International license (CC-BY) or a license with equivalent rights. Please ensure the license you have selected provide the same rights as CC-BY. [Learn more](#)
- ✓ **Books should have a CC-BY, CC-BY-NC or CC-BY-ND license**
To comply with Horizon Europe's open science requirements, monographs or other long-text must be available under the latest Creative Commons Attribution International license (CC-BY) or a license with equivalent rights. Monographs and other long-texts may exclude commercial or derivative works (i.e. CC-BY-NC or CC-BY-ND). [Learn more](#)
- ✓ **Software should have an OSI-approved license**
To comply with Horizon Europe's open science requirements, software should be available under a OSI-approved license (following the principle as open as possible, as closed as necessary and with exceptions possible). [Learn more](#)
- ✓ **Submissions (except journal articles, books, or software) should have CC BY license, CC0 dedication or equivalent**
To comply with Horizon Europe's open science requirements, all submission except journal articles, books and software must be available under the latest available Creative Commons Attribution International license (CC-BY), or Creative Commons Public Domain Dedication (CC0) or a license/dedication with equivalent rights (following the principle as open as possible, as closed as necessary and with exceptions possible). [Learn more](#)
- ✓ **All creators should have a persistent identifier (e.g. an ORCID)**
To comply with Horizon Europe's open science requirements, you should provide persistent identifiers for creators (e.g., ORCID, GND, or ISNI). [Learn more](#)
- ✓ **All contributors should have a persistent identifier (e.g. an ORCID)**
To comply with Horizon Europe's open science requirements, you should provide persistent identifiers for contributors (e.g., ORCID, GND, or ISNI). [Learn more](#)

Submitting content

- **Via EU Project Community (preferred)**
 - self-managed
- **Via direct submissions**
 - single and occasional submissions only
 - curated by Zenodo staff
 - takes longer to get approved
- **Via automated harvesting**
 - records already in Zenodo and linked to grant number
 - not fail-proof, some records might not get added

The screenshot shows the Zenodo website interface. At the top, there is a search bar and navigation links for 'Communities' and 'My dashboard'. Below this is the 'EU Open Research Repository' header, featuring the European Union flag and the text 'by European Commission' with a URL: <https://research-and-innovation.ec.europa.eu>. There are two buttons: 'How to submit' and 'Join with your EU project'. A secondary navigation bar includes 'Research and Innovation' and a main menu with 'Home', 'Records', 'Browse', 'Submit', 'Requests', 'Members', 'Settings', 'Curation policy', and 'About'. The main content area is titled 'Submit your research' and contains three columns: 'What?', 'Why?', and 'Submit'. The 'What?' column lists 'Scope' (Any discipline, Any research output, For articles) and 'Requirements' (Research outputs must have been (co-)funded by Horizon Europe). The 'Why?' column lists 'Open science' (Share and preserve any research output) and 'Compliance' (EU Open Research Repository ensures compliance with the Horizon Europe grant agreement). It also mentions a '200GB' quota. The 'Submit' column offers two options: 'Option 1: Submit through your project (preferred)' with a 'Submit via project' button, and 'Option 2: Submit directly'. A footer note asks 'Which is the right data repository?' and provides advice on using discipline-specific repositories.

Get started

- **Eligibility**

Funded by Horizon Europe (MCSA, ERC, H2020, Euratom, ...)

Must be requested by user affiliated with project partner institution.

<https://help.zenodo.org>

Setup your new EU project community

Only for EU-funded projects.

To setup a new EU project community, you must be affiliated with an EU-funded project (e.g. Horizon 2020, Horizon Europe, Euratom).

Institutional email required.

In order for us to verify the request, your Zenodo account must be using an institutional email address, so that we can verify your institutional affiliation. You can change your email address in your [profile settings](#) if that is not the case.

Do you already have an existing community?

Yes No

Project *

Search for a project by name

Community name *

Identifier *

This is your community's unique identifier. You will be able to access your community through the URL:

<https://zenodo.org/communities/>

EOSC EU Node



Maja Dolinar

OpenAIRE, User Engagement & EOSC Liaison



EOSC EU Node: Supporting Horizon Europe Proposals

<https://open-science-cloud.ec.europa.eu/>

*Maja Dolinar, User Engagement & EOSC Liaison,
OpenAIRE AMKE*

What is the EOSC EU Node?

- A platform created by the European Commission enabling Open Science in Europe.
- Provides federated access to research data, services, and computing resources.
- Supports Open Science principles (FAIR data, open access, reproducibility).
- Built and operated by a consortium of research institutions and service providers.
- Supports researchers, citizen scientists, and Horizon Europe projects.



Who can use EOSC EU Node?

- **Open to all researchers**, not just Horizon Europe projects.
- Accessible for academic institutions, citizen scientists, and public initiatives.
 - Various levels of credits apply!
- Access is free – supported by European Commission funding.
- **Helps projects comply with Open Science and FAIR data requirements.**



Enrich your
Scientific Endeavours



Enter the Gateway
to Open Science

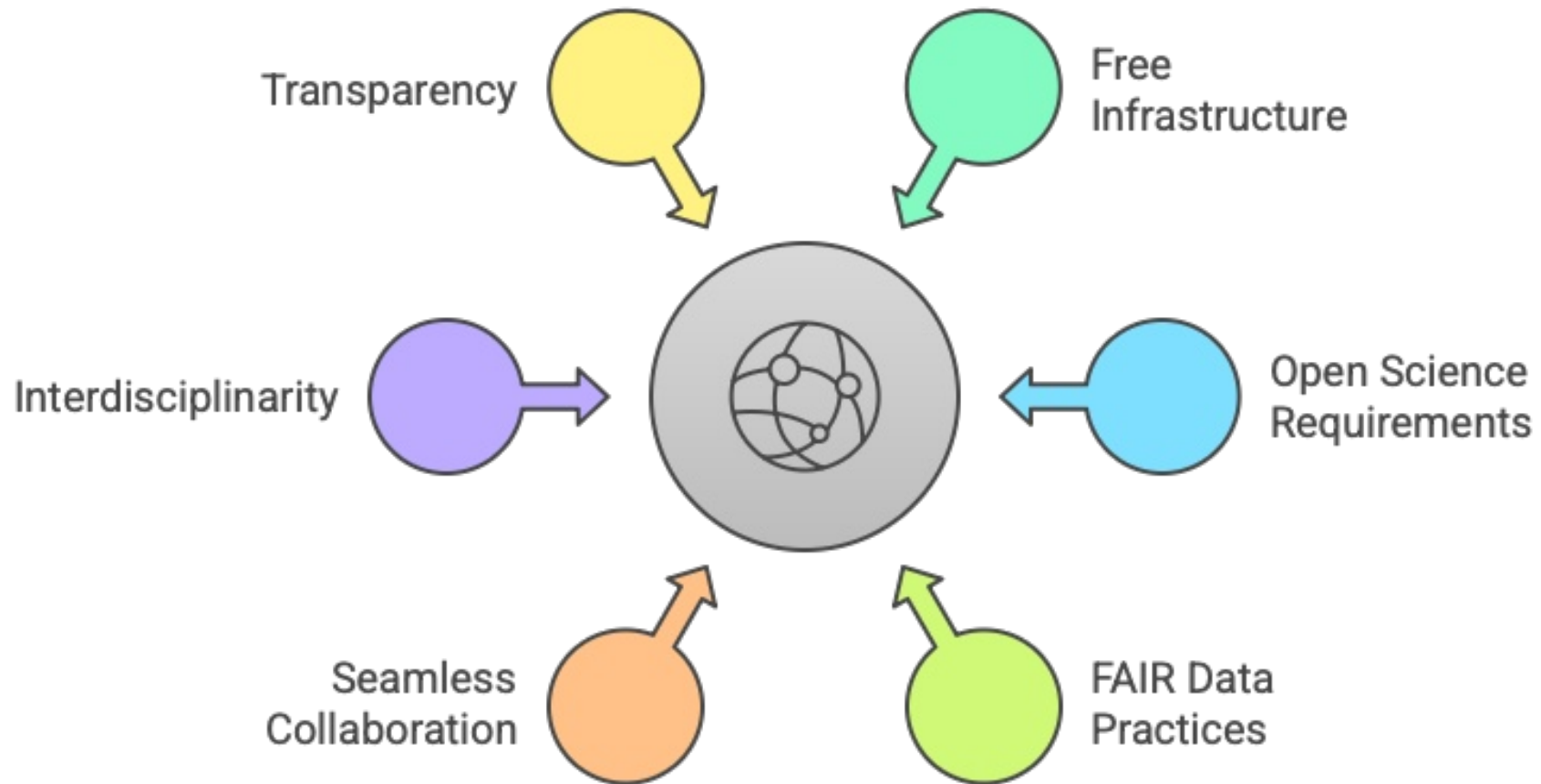


Manage your
Research Workflows

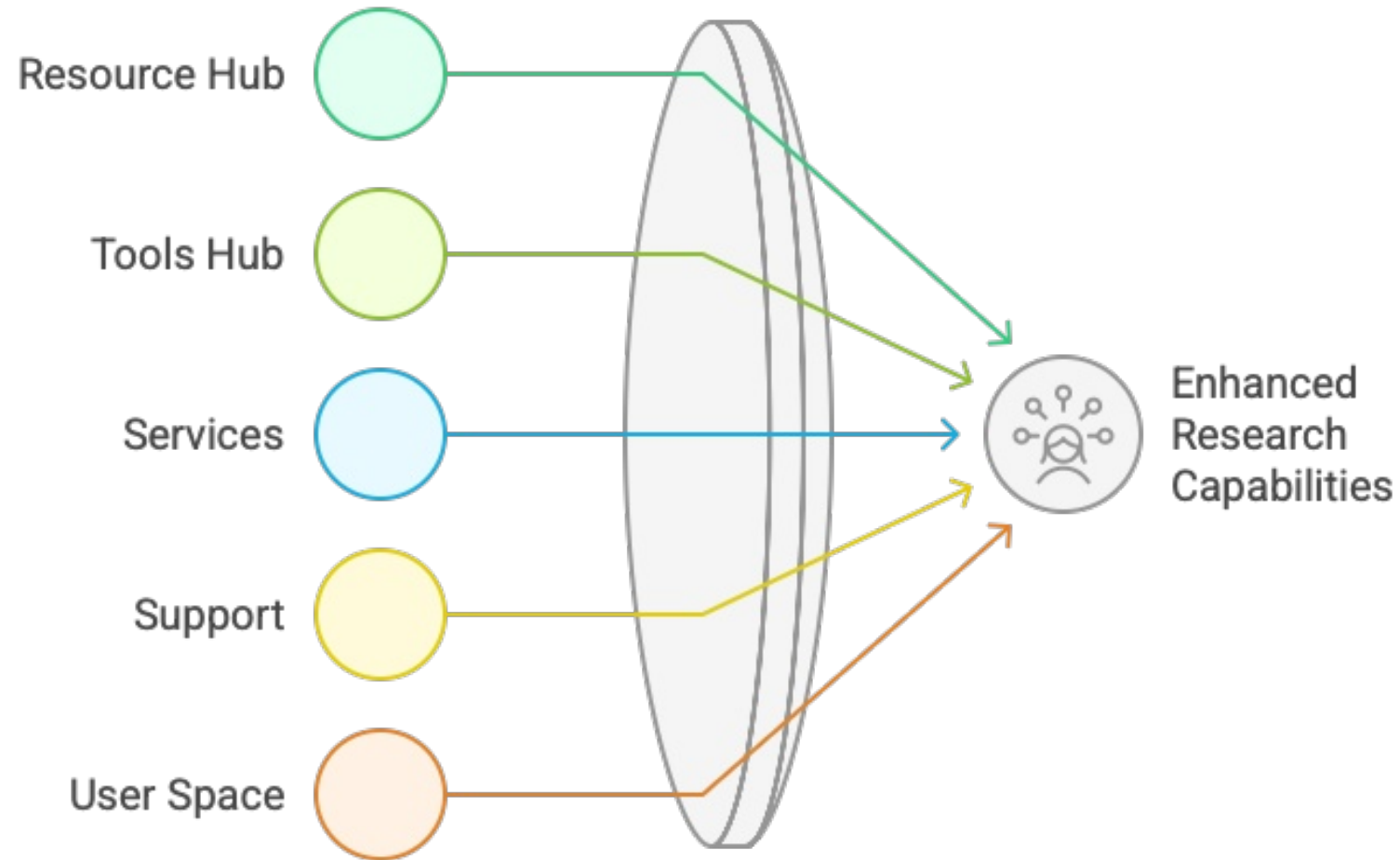


Exchange with
your Peers

Why EOSC EU Node for Horizon Europe?



Empowering Researchers through EOSC EU Node



Resource Hub

The screenshot shows the European Open Science Cloud - EU Node Resource Hub interface. At the top left is the European Commission logo. The main navigation bar includes 'Home', 'About', 'Services', 'Resource Hub' (selected), 'Support', 'Contributors', 'News & Events', and 'User Space'. A search bar is prominently displayed with the text 'Search in all resources' and a 'Search' button. Below the search bar, a horizontal menu lists various resource categories: 'All resources', 'Publications', 'Data', 'Software', 'Other Products', 'Services', 'Tools', 'Training', 'Data Sources', and 'Interoperability Guidelines'. The 'All resources' section is active, showing 'Showing 1 to 20 of 167,544,251 resources' and a 'Relevance' dropdown menu. A featured resource card is visible, titled 'INTEROPERABILITY GUIDELINE' with a star icon, dated 'Year: 2023', and titled 'EOSC IF Interoperability Guideline: Access to content via PID'. The card text describes the importance of Open Science and the need for standard ways to access content behind persistent identifiers. The authors are listed as 'EOSC Future WP3 Working Group on Research product Publishing'.

- Discover ~167M resources
 - OpenAIRE, EC data sources
 - Harvested & indexed
- Resources
 - Publications
 - Data
 - Software
 - Services
 - Data Sources
 - Training
 - Tools

Share and reuse by citing: England, J., Tsoukala, V., Nielsen, L.H. & Dolinar, M. 2026. 10.5281/zenodo.19340912 under CC-BY 4.0

Available Services

File Sync and Share

Your personal cloud storage for collaborative research.

Interactive Notebooks

A shared space for coding and analysis.

Large File Transfer

Fast and secure file transfers.

Virtual Machines

Scalable cloud computing for reliable and reproducible results.

Cloud Container Platform

Simplified Kubernetes for scalable research.

Bulk Data Transfer

Smooth high-volume data transfers.

User Space

The screenshot displays the user interface for the EOOSC EU Node. At the top left, the European Commission logo is visible. The top right shows the user's name, Maja Dolinar, and their role as Investigator (AP-B). The left sidebar contains navigation options: Overview (selected), Resource Hub, Tools Hub, and a SERVICES section with File Sync & Share, Interactive Notebooks, Large File Transfer, Cloud Container Platform, Virtual Machines, Bulk Data Transfer, and Other Services. The main content area greets the user and lists six services they have access to: File Sync and Share, Interactive Notebooks, Large File Transfer, Virtual Machines, Cloud Container Platform, and Bulk Data Transfer. Each service card includes a 'View Service >' link. A 'Welcome to the EOOSC EU Node!' notification is shown at the top. At the bottom, there are sections for 'Notifications' (with an 'Access expiration' alert for Apr 11, 2025) and 'Favourites' (with 'Interoperability • 2021'). A 'Credits remaining' bar shows 1500 / 2000 and '83 days until next refresh'.

Maximizing the Research Data Lifecycle with EOSC EU Node

Use Cases:

- A Horizon Europe project can browse **Resource Hub** to find existing datasets to reuse, reducing duplication of effort.
- A research team analyzing climate data can use **Virtual Machines** to store and preprocess satellite images before analysis.
- A bioinformatics researcher can process genomic data in a **secure, cloud-based Jupyter Notebook** without setting up local infrastructure.



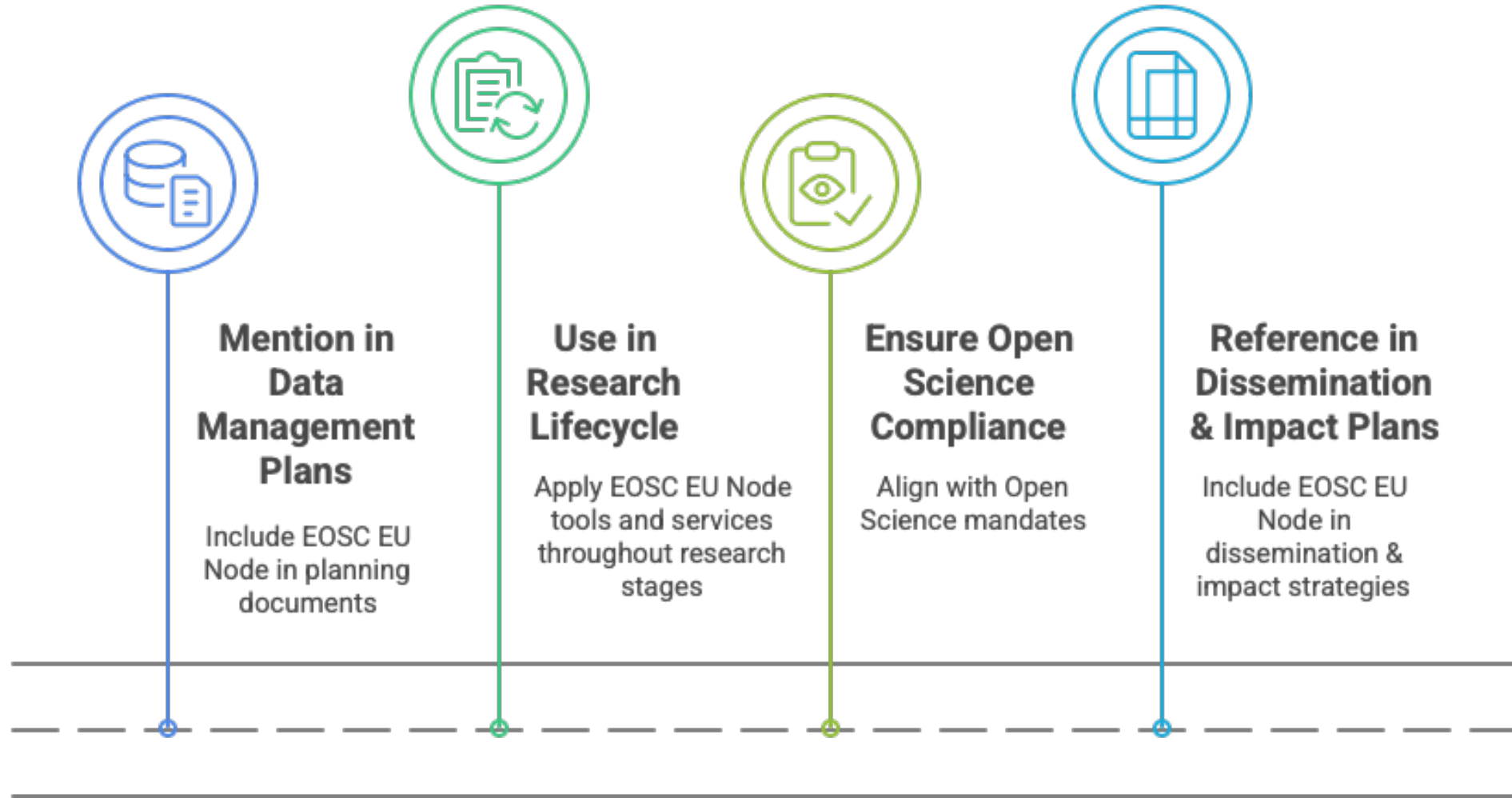
Maximizing the Research Data Lifecycle with EOSC EU Node

Use Cases:

- *A HE project must comply with Open Access and FAIR principles – EOSC EU Node provides access to trusted repositories, persistent identifiers (DOIs), and metadata-rich datasets, ensuring that research outputs are FAIR.*
- *A HE project coordinator needs to report on data sharing and Open Science practices. EOSC EU Node's provides insights on dataset usage, downloads, and citations, ensuring compliance with EC reporting requirements.*
- *A social scientist finds economic datasets in Resource Hub and integrates them into new research, ensuring cross-disciplinary collaboration.*



Integrating EOSC EU Node into Research Proposals



EOSC EU Node supporting Horizon Europe projects

Grants of up to 40,000 credits are available to EC-funded R&I projects

- One grant per project, one-time and non-replenishable
- Usable only during the project's duration
- For project-related needs within the EOSC EU Node
- Credits are added to the *Group Project Wallet*

How to get access:

- Submit a **helpdesk ticket** with following details:
 - EC Grant Number
 - EC Project Officer
 - Group Project ID and Owner
 - Short description of intended use of EOSC EU Node services

Learning Center

Learn, engage and master
EOSC EU Node services

EOSC EU NODE

Browse all Courses & Tutorials

<https://openplato.eu/eosceunode>

- Earn Certificates
- Collect Badges
- Showcase your progress

EOSC EU Node Learning Center

Tutorials for Researchers

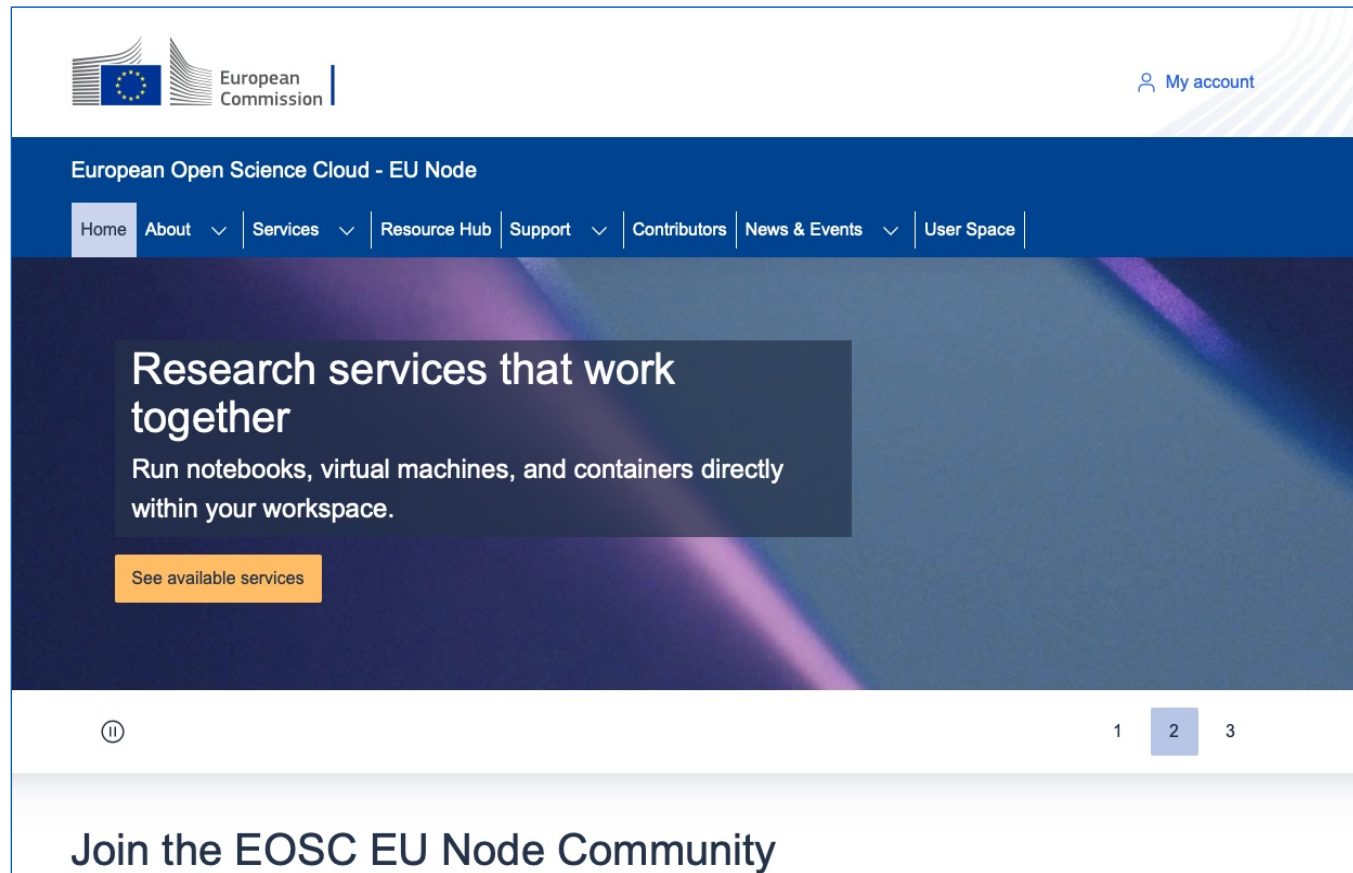
Tutorial Title	Level	Enrolled
Bulk Data Transfer: Introduction for Researchers	Beginner	2
Cloud Container Platform: Introduction for Researchers	Beginner	2
File Sync & Share: Introduction for Researchers	Beginner	3
How to create Groups: Introduction for Researchers	Beginner	2

EOSC EU NODE Learning Center

Courses for Researchers

Course Title	Level	Enrolled
How to create a User Account in EOSC EU Node	Getting started	8
How to Use Bulk Data Transfer Service: A Complete Guide	Bulk Data Transfer	3
How to use the Cloud Container Platform: A Complete Guide	Cloud Container Platform	3
How to use the EOSC EU Node Resource Hub: A Complete Guide	Resource Hub	3

Get started with EOSC EU Node



- Visit: <https://open-science-cloud.ec.europa.eu/>
- Explore the Resource Hub
- Sign in using institutional credentials
- Explore available tools and services
- Integrate into your research workflows and Horizon Europe proposals

Thank you

maja.dolinar@openaire.eu

OpenAIRE Explore

OpenAIRE EXPLORE

A unique research Gateway Database



<https://explore.openaire.eu/>

OpenAIRE EXPLORE provides tools to:

- **Discover** diverse scholarly works, including patents, articles, and PhD theses.
- **Navigate** funding opportunities, grants, and research within different Fields of Science (FoS) to **create a market analysis** of similar products she aims to develop.
- **Explore Data Management Plans (DMPs)** for inspiration and guidance in the project.
- **Link the research to ORCID, projects, and datasets seamlessly.**
- **Identify UN Sustainable Development Goal (SDG) tags** related to the research and similar outputs, aiding in the preparation of the **impact** report required by the Horizon Grant

Reporting and monitoring

Reporting - Monitoring

- Extensive reporting of Open Science practices:
 - Structured reporting of requirements regarding OA
 - Free-text reporting of encouraged Open Science practices
- Monitoring by project officers and reviewers in periodic reviews
- Monitoring of the FP through Key Impact Pathways (KIPs)



Slide adapted from Alea López de San Román (2021)
under CC-BY 4.0

<https://doi.org/10.5281/zenodo.4681073>

EC Participant Portal – Continuous reporting

ndevugen (EXTERNAL) ?
Grant Management
Project Continuous Report

240153 (240153 RIZOSKO ..) HORIZON-...
Project Summary
Researchers involved in the project
Deliverables
Milestones
Critical Risks
Publications
Results
Disseminat... activities
Standards
Patents (IPR)
Communic... Activities
Datasets
Beneficiaries Feedback
Impact
Other Results

Call: HORIZON-ERC-2021-VICECHAIRS-IBA
Topic: HORIZON-ERC-2021-VICECHAIRS-IBA
✓
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✓

Publications

This project does not currently have any scientific publications

Suggested publications from OpenAIRE (10 pending publications and 0 discarded publications)

	Type	Title	Authors	Title of the Journal or equivalent	Month and Year of publication	PID (Publisher version of record)	PID of the deposited publication	Actions
1	Chapter in a Book	Pebbling mountain ranges and its applic	Kurt Mehlhorn	Automata, Languages and Programming	25-02-2012	10.1007/3-540-10003-2_89		✘
2	Chapter in a Book	Algorithms on Graphs	Kurt Mehlhorn		02-11-2012	10.1007/978-81-322-0750-4_5	10.1007/978-3-642-69897-2_1	✘
3	Chapter in a Book	Algorithms for Equilibrium Prices in Line	Kurt Mehlhorn	Algorithms and Computation ISBN: 9783	17-01-2014	10.1007/978-3-319-04657-0_1		✘
4	Chapter in a Book	Algorithmic Paradigms	Kurt Mehlhorn	Data Structures and Algorithms 1 ISBN: '...	28-07-2012	10.1007/978-3-642-69672-5_4	10.1007/978-3-642-69897-2_4	✘
5	Chapter in a Book	NP-Completeness	Kurt Mehlhorn	Data Structures and Algorithms 2 ISBN: '...	28-07-2012	10.1007/978-3-642-69897-2_3		✘
6	Chapter in a Book	The Engineering of some Bipartite Matc	Kurt Mehlhorn	Algorithms and Computation ISBN: 9783	09-08-2007	10.1007/3-540-46632-0_1	10.1007/3-540-46691-6_36	✘
7	Chapter in a Book	The Reliable Algorithmic Software Chall	Kurt Mehlhorn	Experimental and Efficient Algorithms I!	30-11-2007	10.1007/3-540-44867-5_18		✘
8	Article in Journal	Bracket-languages are recognizable in l	Kurt Mehlhorn		26-07-2002	10.1016/0020-0190(76)90013-2	10.22028/d291-26081	✘
9	Book/Monograph	Datenstrukturen und effiziente Algorith	Kurt Mehlhorn	Crossref	04-03-2012	10.1007/978-3-322-86786-5		✘
10	Chapter in a Book	Sets	Kurt Mehlhorn	Data Structures and Algorithms 1 ISBN: '...	28-07-2012	10.1007/978-3-642-69672-5_3		✘

Project publications (0 publications)

[Show/Hide Filters](#) [Clear Filters](#)

Type	Title	Authors	Title of the Journal or equivalent	Number	Peer-reviewed	Was the publication available in open access through the repository at the time of publication	PID (Publisher version of record)	PID of deposited publication	Actions

i * 'open access' means the practice of providing online access to research outputs resulting from actions funded under the Programme, in particular scientific publications and research data, free of charge to the end-user

[Export to Excel](#) [Add Publication](#)

[Validate](#)

Publications

Grant Management **Project Continuous Report** ndevugen (EXTERNAL) ?

231799 (231799 AMBROMV ...) HORIZON-...

Call: HORIZON-ERC-2021-VICECHAIRS-IBA
Topic: HORIZON-ERC-2021-VICECHAIRS-IBA

Project Summary	Deliverables	Milestones	Critical Risks	Publications	Dissemination activities	Patents (IPR)	Communicative Activities	Datasets	Researchers involved in the project	Financial support to 3rd parties	Beneficiaries Feedback	Impact	Results	Other Results
✓	i	i	✓	i	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publications SAVE

This project does not currently have any scientific publications
Suggested publications from OpenAIRE (7 pending publications)
 Include previously discarded publications

	Type	Title	Authors	Title of the Journal or equivalent	Month and Year of publication	PID (Publisher version of record)	PID of the deposited publication	Actions
1	Chapter in a Book	Pebbling mountain ranges and its applic	Kurt Mehlhorn	Automata, Languages and Programming	25-02-2012	10.1007/3-540-10003-2_89		✖
2	Chapter in a Book	Algorithmic Paradigms	Kurt Mehlhorn	Data Structures and Algorithms 1 ISBN: 9783	28-07-2012	10.1007/978-3-642-69672-5_4	10.1007/978-3-642-69897-2_4	✖
3	Chapter in a Book	The Engineering of some Bipartite Matc	Kurt Mehlhorn	Algorithms and Computation ISBN: 9783	09-08-2007	10.1007/3-540-46632-0_1	10.1007/3-540-46691-6_36	✖
4	Chapter in a Book	The Reliable Algorithmic Software Chall	Kurt Mehlhorn	Experimental and Efficient Algorithms I	30-11-2007	10.1007/3-540-44867-5_18		✖
5	Article in Journal	Bracket-languages are recognizable in l	Kurt Mehlhorn		26-07-2002	10.1016/0020-0190(76)90013-2	10.22028/d291-26081	✖
6	Book/Monograph	Datenstrukturen und effiziente Algorith	Kurt Mehlhorn	Crossref	04-03-2012	10.1007/978-3-322-86786-5		✖
7	Chapter in a Book	Sets	Kurt Mehlhorn	Data Structures and Algorithms 1 ISBN:	28-07-2012	10.1007/978-3-642-69672-5_3		✖

Project publications (2 publications)
Show/Hide Filters Clear Filters

	Type	Title	Authors	Title of the Journal or equivalent	Number	Peer-reviewed	Was the publication available in open access through the repository at the time of publication	PID (Publisher version of record)	PID of deposited publication	Actions
1	Chapters in books	Algorithms for Equilibrium Pri	Kurt Mehlhorn	Algorithms and Computation I		False	False			✖
2	Chapters in books	NP-Completeness	Kurt Mehlhorn	Data Structures and Algorithm		False	False			✖

Download EXCEL Add Publication

* "open access" means the practice of providing online access to research outputs resulting from actions funded under the Programme, in particular scientific publications and research data, free of charge to the end-user

Validate

View Open AIRE Publication

Type	Chapter in a Book
Title	Algorithms for Equilibrium Prices in Linear Mar
Authors	Kurt Mehlhorn
Title of the Journal or equivalent	Algorithms and Computation ISBN: 9783319046
Month and Year of publication	17-01-2014
PID (Publisher version of record)	10.1007/978-3-319-04657-0_1
PID of the deposited publication	
Number	
Web Source	https://doi.org/10.1007/978-3-319-04657-0_1
Open AIRE ID	doi_.....:r22556393aa092115626dc8bc061
Journal Number	

Import Discard Close

Edit Publication

Please check or correct the information about the publication and fill-in the additional information

Type of PID (repository)	DOI
PID of deposited publication	10.1007/978-3-319-04657-0_1
PID (publisher version of record) *	10.1007/978-3-319-04657-0_1
Type of publication *	Chapters in books
Link to publication	https://doi.org/10.1007/978-3-319-04657-0_1
Title of the scientific publication *	Algorithms for Equilibrium Prices in Linear Market Models
Authors *	Kurt Mehlhorn
Title of the Journal or equivalent	Algorithms and Computation ISBN: 9783319046563
Number	
ISSN or eISSN	
Publisher	
Month of publication	January
Year of publication	2014
Was the publication available in open access through the repository at the time of publication *	<input type="radio"/> Yes <input checked="" type="radio"/> No
Peer-reviewed *	<input type="radio"/> Yes <input checked="" type="radio"/> No
PID (Publisher version of record)	
Book title	
Did you charge OA publishing fees to the project? *	<input type="radio"/> Yes <input checked="" type="radio"/> No
Type of publishing venue	
Article processing costs that will be charged to the project	

OK Cancel

<https://webgate.ec.europa.eu/funding-tenders-opportunities/pages/viewpage.action?pageId=34472316>

Datasets

Grant Management | Project Continuous Report

240153 (240153 RIZOSKO ...) | HORIZON-ERC-2021-VICECHAIRS-IBA

Call: HORIZON-ERC-2021-VICECHAIRS-IBA
Topics: HORIZON-ERC-2021-VICECHAIRS-IBA

Project Summary ✓ | Researchers involved in the project ✓ | Deliverables i | Milestones i | Critical Risks ✓ | Publications i | Results ✓ | Dissemination activities ✓ | Standards ✓ | Patents (IPR) ✓ | Communicative Activities ✓ | **Datasets ✓** | Beneficiaries feedback ✓ | Impact ✓ | Other Results ✓

This project does not currently have any dataset

Suggested Datasets from OpenAIRE (10 pending datasets and 0 discarded datasets)

	PID	Type of PID	Brief Description of Dataset	URL to Repository	Actions
1	10.17632/hh9f7txd38 10.17632/hh9f7txd38.1	DOI	ToF-ERDA data with partial GIC energy signals from QMB covers 1,2,3,5 (ILW-1-2).	↗	✖
2	10.11583/ctu.14188487.v1 10.11583/ctu.14188487	DOI	Data for the figures of the article "Trapped upper hybrid waves as eigenmodes of	↗	✖
3	10.17632/8f3x85vvoxt.1 10.17632/8f3x85vvoxt	DOI	ToF-ERDA data from QMB covers 1, 2, 3, 5 (ILW-3). Data provided as list-files (.lst	↗	✖
4	10.17632/frmox7o5k.1 10.17632/frmox7o5k	DOI	This dataset contains code examples for different symplectic integrators with no	↗	✖
5	10.17632/mf6brvovom 10.17632/mf6brvovom.1	DOI	ToF-ERDA data from spatial blocks 4, 5, 6 (ILW-1), side facing 90 degrees from pl	↗	✖
6	10.5281/zenodo.1410280 10.5281/zenodo.1410281	DOI	Source code, inputs, simulation outputs, analysis scripts and figures used in the	↗	✖
7	10.5281/zenodo.3938978	DOI	Supplementary material associated to publication "3D transient CFD sim	↗	✖
8	10.17632/3dxocvfw7.1 10.17632/hmb3oc4sd7.1	DOI	Raw ToF-ERDA data from all samples, both as list files (.lst) and as data files (.r	↗	✖
9	10.6084/m9.fireshare.6391796 10.6084/m9.fireshare.6391796.v1	DOI	This dataset contains artifacts relating to the results presented in the Euro-Par 2	↗	✖
10	10.5281/zenodo.3937295 10.5281/zenodo.3937294	DOI	Excel file reporting the number of involved FW channels following a break in the	↗	✖

Project Datasets (0 datasets)

Export to Excel | Add Dataset | Validate

Datasets

This project does not currently have any dataset

Import Dataset

Please check or correct the information about the dataset and fill-in the additional information when possible

Type of PID * DOI

Description of Dataset * ToF-ERDA data with partial GIC energy signals from QMB covers 1,2,3,5 (ILW-1-2).

PID 10.17632/hh9f7txd38

PID of the publication 10.17632/hh9f7txd38.1

Does the data underpin a publication * Yes No

PID of the publication

URL to repository http://dx.doi.org/10.17632/hh9f7txd38

Is this dataset available in open access? * Yes No

If data is needed to validate the conclusions of a scientific publication, and no open access has been given to the data, briefly describe the provisions whereby you intend to make it available

Please elaborate

Is the metadata of deposited data accessible through open access? * Yes No

* mandatory fields

Import

Discard

Close

<https://webgate.ec.europa.eu/funding-tenders-opportunities/pages/viewpage.action?pageId=2555967>

4

Results vs Other Results

- 'Results' tab focused on the content of the results: discoveries and theories, products, services, methods, etc.
- 'Other Results' tab is for reporting about software, workflows, protocols, prototypes, etc.

Grant Management | Project Continuous Report

240153 (240153 RZOSKO ...) | HORIZON-...
Call: HORIZON-ERC-2021-VICCHARS-IBA
Topic: HORIZON-ERC-2021-VICCHARS-IBA

Project Summary | Researchers involved in the project | Deliverables | Milestones | Critical Risks | Publications | **Results** | Intellectual activities | Standards | Patents (IPR) | Communicative Activities | Datasets | Beneficiaries feedback | Impact | Other Results

Results

There is no result for this project yet

Please provide details about project results. Please focus on the content of the results, for example discoveries and theories, products, services, methods etc. Publications, intellectual property rights, datasets, software, algorithms, protocols etc. will be linked to these results later in dedicated sections. It will also be possible to add these to the project as a whole.

Examples:

- Example: The project developed a new medical device, which is described in two publications and later patented. Instructions: List the medical device here (as "PROD: Product") and link publications to this product in dedicated sections. When you have information about the patent application, link it in a dedicated section.
- Example: The project developed a new scientific theory which is described in several publications. Instructions: List the name and potential of the theory here (as "SCI: Scientific discovery, model, theory") and link publications to this model later in dedicated sections.
- Example: The project develops a high potential industrial process and is currently at the stage of prototyping. Instructions: List the industrial process here (as "PROD: Industrial process") and indicate the prototyping stage under "Steps undertaken towards exploitation". If there is a registered prototype, link the registered prototype in a dedicated section.
- Example: The project mainly focused on activities such as conferences, staff exchanges, or on investments in infrastructures. Instructions: List these as results and their potential here.

Results

Name	Result type	Key results (SER) (does result have a high potential?)	Description of high potential	Audience or target group	Steps undertaken towards exploitation	Market maturity (state of the market targeted by this result)	Actions
a	LEARN: Learning and training (learning n	High scientific potential	ssssss	Researchers	Prototyping in laboratory environment	Not yet existing and not clear if market	X
test2	SER: Service (new or improved)	High societal potential (other than clinical high policy or regulatory potential)	Insert description	Citizens	Feasibility study Business plan	Emerging: growing demand, scarce supply	X

Grant Management | Project Continuous Report

240153 (240153 RZOSKO ...) | HORIZON-...
Call: HORIZON-ERC-2021-VICCHARS-IBA
Topic: HORIZON-ERC-2021-VICCHARS-IBA

Project Summary | Researchers involved in the project | Deliverables | Milestones | Critical Risks | Publications | Results | Intellectual activities | Standards | Patents (IPR) | Communicative Activities | Datasets | Beneficiaries feedback | Impact | **Other Results**

Other Results

This project does not currently have any other results

Project Other Results (2 results)

Type of result	Description	If the result is needed to validate the conclusions of a publication, describe the provisions whereby you intend to make your output available, either in digital or physical form?	Type of PID (if available)	PID (if available)	URL to repository landing page for the result service/webpage hosting the result (if available)	Actions
Software	test 2	Open access	DOI		Insert URL if applicable	X
Protocol	test 1	It doesn't underpin publication	Other		URL link	X

* Open access means the practice of providing online access to research outputs resulting from actions funded under the Programme, in particular scientific publications and research data, free of charge to the end-user

Add Other Result

Type of result

Description

If the result is needed to validate the conclusions of a publication, briefly describe the provisions whereby you intend to make your output available, either in digital or physical form

Type of Persistent Identifier, PID

Insert PID reference (if available)

Insert PID reference of the publication

URL to repository landing page for the result service/webpage hosting the result (if available)

What license is the result licensed under?

Save Cancel

Horizon Europe grant proposals

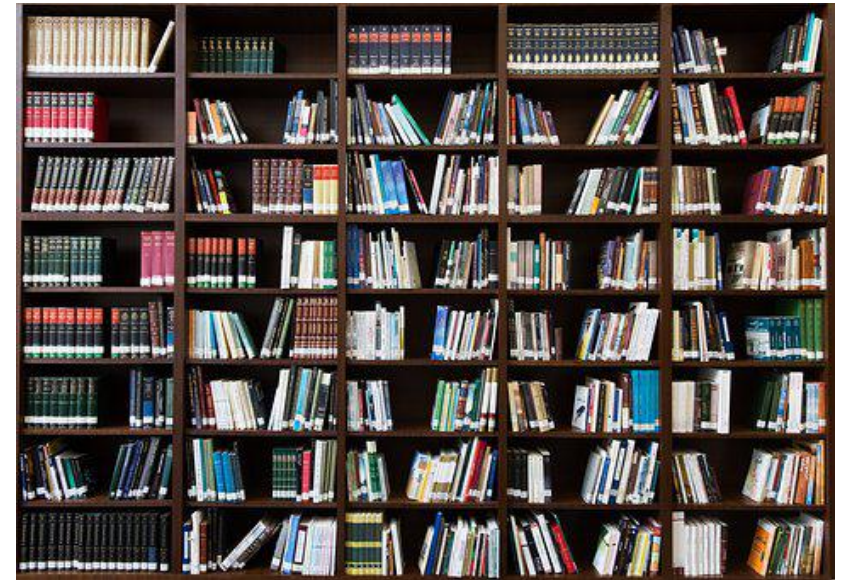
Jonathan England

Open Science parts

- PART A – Application form
 - List 5 publications, widely-used datasets, softwares, goods, services or any other achievements relevant to the call
- PART B – Project proposal – technical description
 - Under 'Excellence' – '1.2 Methodology' (Open Science, RDM and management of other research outputs)
 - Under 'Impact' – '2.2 Measures to maximise impact' (dissemination, exploitation and communication)
 - Under 'Quality and efficiency of the implementation' – '3.1 Work plan and resources' and '3.2 Capacity of participants and consortium as a whole'

Publications

- Your **publications cited should be available in OA** (i.e. openly available on a trusted repository)
- Your publications cited will only be evaluated **qualitatively** (i.e. the Impact Factor of the journal is irrelevant)
- Give insights in where you are hoping to publish (e.g. Open Research Europe, full OA journals)



Depositing existing articles

It will depend on the publisher, but in many cases you will be able to make a version available in Open Access.

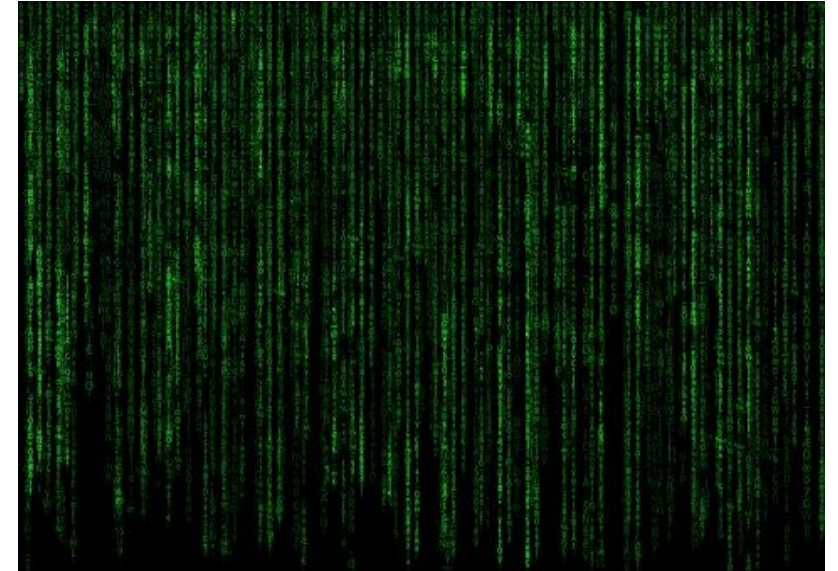
1. Check the Open Policy Finder (formerly SherpaRomeo) if the **publisher allows the upload** of the AAM on a repository.
2. Check the **embargo period** set by the publisher to the publication date of your work. If the embargo is over, you are free to upload it on a repository.
3. Upload the AAM on the repository, and **select the correct licence** set by the publisher.

Some advice:

- Prioritise the repository of the institution you were at when you published that work (some institutions might not allow you to deposit new work after you have left)
- Make sure you are uploading the AAM and not the VoR
- The **requirement of the CC BY licence does not apply here**, the publication only needs to be openly accessible on the repository.

Research Data

- Your **data listed should be FAIR**, available on a trusted repository and a Persistent Identifier (e.g. DOI) provided
- An official **DMP is not needed** but the grant proposal does include aspects very similar to a DMP (e.g type and size of data, Persistent Identifiers, Intellectual Property Rights, interoperability, licences, curation, responsibilities)
- Distinct Work Package on ‘project management’ that must include the DMP as a deliverable



Other aspects eligible in the budget

- “engagement of citizens, civil society and end-users” – citizen science and participation in crowdsourcing activities
- Data curation costs
- Article Processing Charges (hybrid journals are not eligible)¹



Writing tips

- **Be as specific as possible**
- You do not need to explain what Open Access, FAIR data, Open Science, etc. mean. Focus on what concretely you will do



Special cases

ERC

- **No explicit evaluation or requirement to describe Open Science practices**; but if included, will (implicitly) positively affect assessment of ‘scientific excellence’
- ERC projects do not have scientific work packages or deliverables.
- But now requires a “Research Data Management” WP, with “Data Management Plan” as the one deliverable (type “R – Document, report” with due data M6)

[ERC DMP template](#)



European Research Council

Established by the European Commission

MSCA

- Underlying principles: Open Science, Responsible Research & Innovation
- Award criteria will consider the “soundness of the proposed methodology” (**‘Excellence’ criteria** weighing 50% of the evaluation) which must consider “the quality of Open Science practices”
- **Training activities** and **Career Development Plan** must address key transferable skills “fostering the culture of Open Science, innovation and entrepreneurship” and prepare to the increase in “research collaboration and information-sharing” (e.g. collaborative tools, OA, open data, FAIR data, public engagement, citizen science)
- There is **no specific cost eligibility rule** for APCs: OA fees for hybrid venues can be covered



MARIE CURIE **ACTIONS**

Open Science recommended practices

Evaluation

- Mandatory Open Science practices – score will be lowered for not sufficiently addressing them unless duly justified
- Recommended Open Science practices – **no impact on score** if not addressed but score will be increased if sufficiently addressed
- Open Science practices listed in the template for proposals (section Excellence > Methodology) but is a non-exhaustive list



de San Román (2021). Open Science in Horizon Europe. Train-the-trainer workshop. Zenodo. CC-BY 4.0
<https://doi.org/10.5281/zenodo.5549524>

Open Science practices

What?	How?	Mandatory in all calls/recommended
Early and open sharing of research	Preregistration, registered reports, preprints, etc.	Recommended
Research output management	Data management plan (DMP)	Mandatory
Measures to ensure reproducibility of research outputs	Information on outputs/tools/instruments and access to data/results for validation of publications	Mandatory
Open access to research outputs through deposition in trusted repositories	<ul style="list-style-type: none"> Open access to publications Open access to data Open access to software, models, algorithms, workflows etc. 	<ul style="list-style-type: none"> Mandatory for peer-reviewed publications Mandatory for research data but with exceptions ('as open as possible...') Recommended for other research outputs
Participation in open peer-review	Publishing in open peer-reviewed journals or platforms	Recommended
Involving all relevant knowledge actors	Involvement of citizens, civil society and end-users in co-creation of content (e.g. crowd-sourcing, etc.)	Recommended

- Open science practices listed in the template for proposals (section excellence>methodology)
- Non-exhaustive list
- Mandatory in all calls: Model Grant Agreement or call requirement; all the rest recommended



de San Román (2021). Open Science in Horizon Europe. Train-the-trainer workshop. Zenodo. CC-BY 4.0
<https://doi.org/10.5281/zenodo.5549524>



Pre-registration

- Quantitative evaluation of research outputs has pushed towards less responsible research practices and the replication crisis (e.g. data dredging/p-hacking, cherry picking, HARKing [Hypothesising after the results are known])
- Pre-registration = “practice of publishing the plan for a study, including research questions/hypotheses, research design, data analysis before the data has been collected or examined” ([FORRT](#))
- Some research domains have standard procedures in place; e.g. pre-registration of clinical trials, check ECRIN: <https://ecrin.org/>



<https://www.cos.io/initiatives/prereg>

Nosek et al. (2018). The preregistration revolution.

<https://doi.org/10.1073/pnas.1708274114>

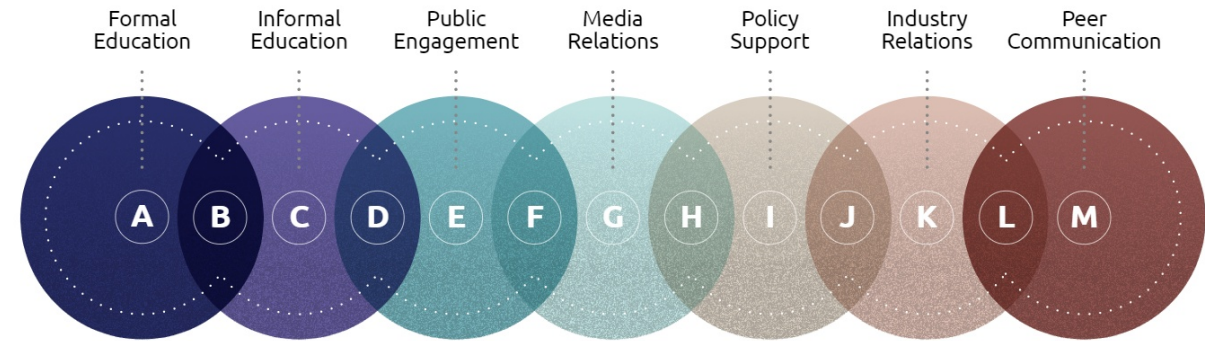
Pre-prints

- Traditional scholarly publishing is usually time-consuming and slow
- Preprints allow authors to share their results ahead of peer-reviewing on preprint servers
- Faster dissemination and broader access to research outputs, opportunities for early feedback
- Visible outputs for early-career researchers, can increase employability



Public engagement

- Open and inclusive research and innovation includes society that can be listened to, awarded relevant input and influence during all stages of the research process ([RRI Tools](#)) – public engagement contributes to the democratisation of science
- Increases scientific literacy of the public, improves societal relevance of science, increases the support and uptake of research
- E.g. [European Researchers' Night](#), [Science is Wonderful](#), public talks, talks in schools or cultural centres, popular science books, social media, documentaries, TV shows, school activities, art/science projects

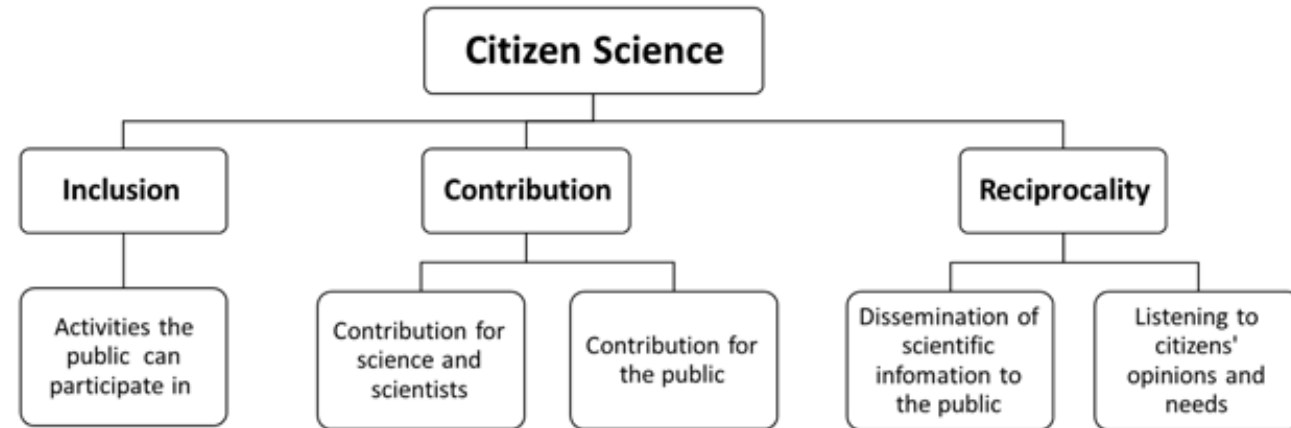


Pompea & Russo (2020). The role of astronomers in the astronomy education ecosystem.
<https://doi.org/10.48550/arXiv.2011.11350>



Citizen Science

- Projects that actively involve the general public, in any of the stages of research, acting as collaborators, contributors or project leaders ([FORRT](#))
- Increases scientific literacy of the public, empowers citizens with scientific approaches, improves societal relevance of science, increases the support and uptake of research, explores new pathways for participatory governance
- [European Citizen Science Association](#), [EU Citizen Science platform](#)
- E.g. [Zooniverse](#), [School Network Alerts Citizens analysing seismograms](#), in video games (e.g. [Borderlands 3](#))... and many more



Golumbic et al. (2017). CC-BY 4.0.

Final tips

Overall tips

- Design an **Open Science strategy** for your project.
- Include specific **provisions in the Consortium Agreement** about where publications and data will be deposited and who is responsible for doing this. Who will make sure that all outputs have been deposited in the appropriate repositories?
- Implement your Open Science strategy, **report at reviews and provide updates**.
- **Keep track of issues**, discuss the solutions.





<https://forms.office.com/e/AhD8z1gyjJ>



NEXT WEBINAR
12 June 2026
12:00 CEST

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otherwise stated

10
1

THANKS

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