

Horizon Europe Open Science requirements in practice

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Horizon Europe reference documents

Program Guide of Horizon Europe

Annotated Model Grant Agreement (AGA)

ERC Managing your project > Open Science

MSCA Work Programme

EC Participant Portal – 'Continuous reporting' guide

OpenAIRE guides

- 'How to comply with Horizon Europe mandate for publications'
- 'Open Science in Horizon Europe proposal'
- 'RDM in Horizon Europe proposal'



Next webinar
Monday 03 July 2023
at 12:00 CEST

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

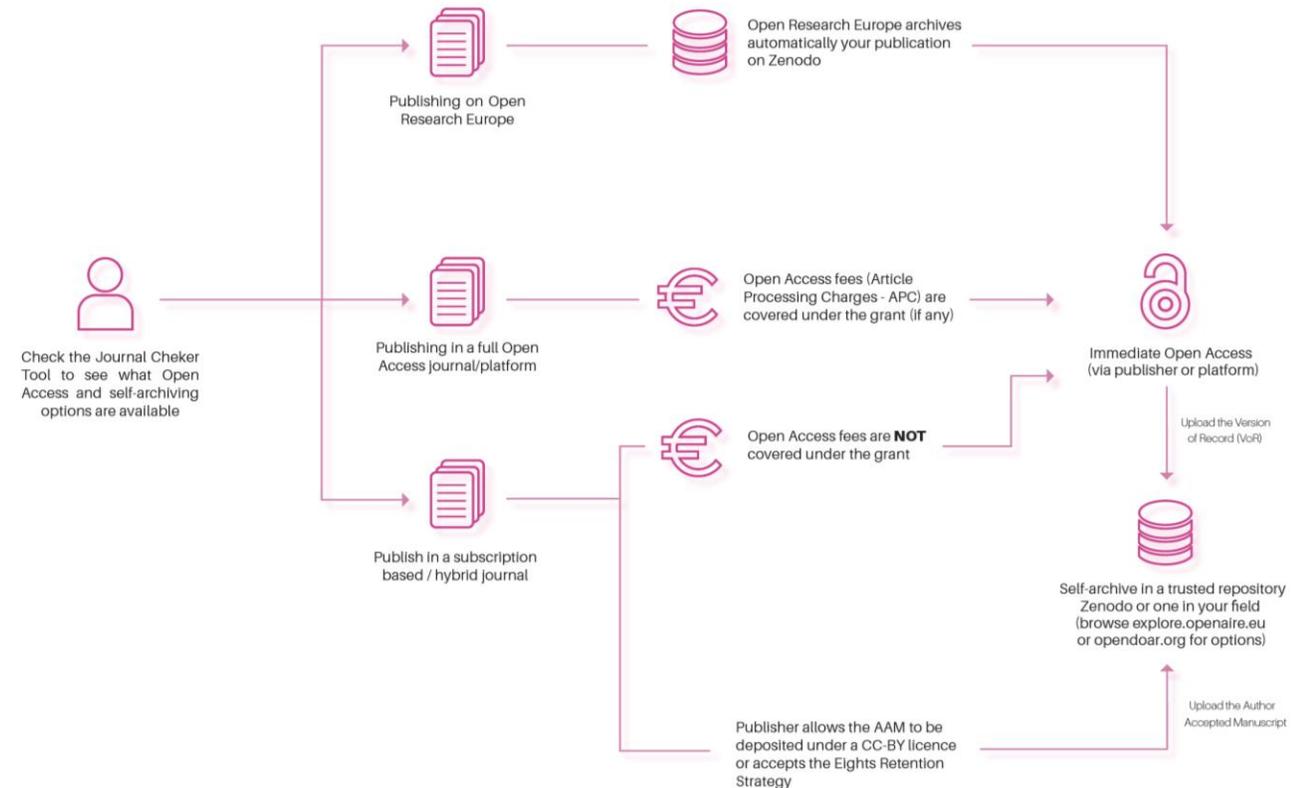
Requirements for publications

Requirements

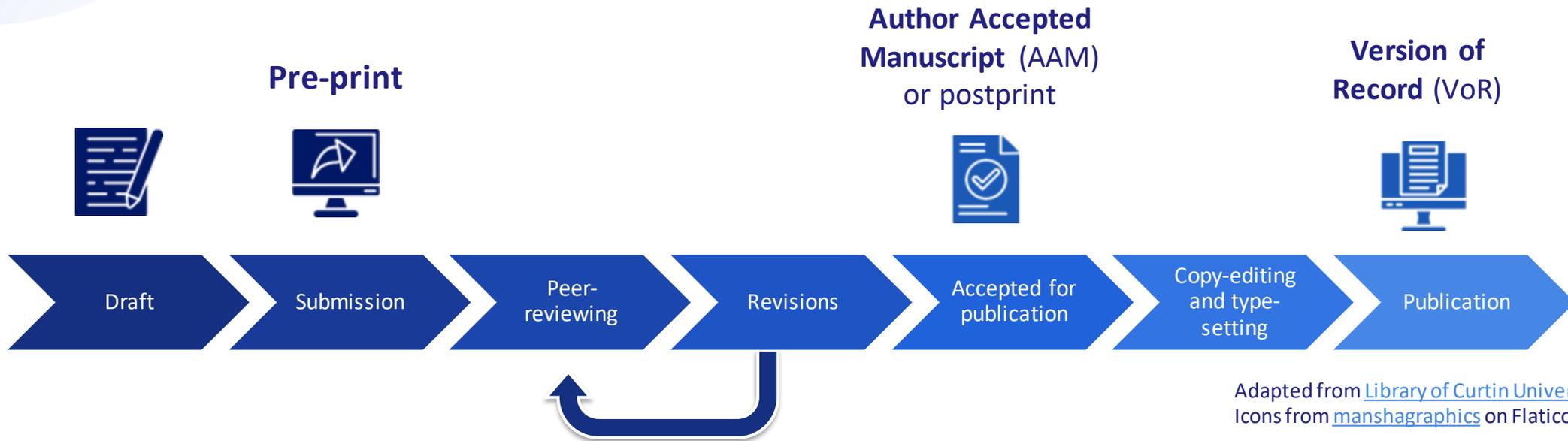
- Peer-reviewed manuscript (AAM or VoR) in a **trusted repository**
- **No embargo period** (i.e. immediate OA)
- Authors retain their rights by having the AAM and/or the VoR under a **CC-BY 4.0** licence
- Information about research outputs or tools/instruments needed to validate the conclusions of 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 allowed for long-text formats (e.g. monographs; a chapter in an edited book is not eligible)



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



Self-archiving

it is about where you
make it available in OA,
NOT where you publish

Minimum for Open Access = **SELF-ARCHIVING**

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 Comr + By ROR or nam =

No affiliation

Plan S
Making full & immediate
Open Access a reality

SEND US FEEDBACK

<https://journalcheckertool.org/>

Rights Retention Strategy

“For the purpose of Open Access, the author has applied a CC BY public copyright licence to any Author Accepted Manuscript version arising from this submission.”

- To assert ownership, the author – as the intellectual creator and original copyright holder – applies a CC BY licence to the AAM
- Delivering publication services does not entitle publishers to ownership of the AAM, which remains the intellectual property of the author. Publication services should be paid for, but not with ownership of the AAM (from cOAlition S)

<https://www.coalition-s.org/rights-retention-strategy/>

~~Self~~-archiving

Minimum for Open Access = **SELF-ARCHIVING**



Open Research Europe

If you publish in Open Research Europe, you do not need to self-archive. Your manuscript will be automatically archived on a repository (Zenodo) once it successfully passes peer-review

Requirements for research data

Requirements

- 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
- Data closed if necessary, but **metadata must be FAIR and under CCO** (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



A few definitions

Trusted repositories

- Certified repositories (e.g. CoreTrustSeal, nesto Seal DIN31644, ISO16363)
- Disciplinary and domain repositories commonly used and **endorsed by the international research communities**
- General-purpose (e.g. **Zenodo**) or institutional repositories that present the essential characteristics of trusted repositories:
 - services, mechanisms and provisions in place to secure the accuracy, integrity, authenticity and access of contents
 - use of PIDs
 - machine-actionable, standardised and detailed metadata (including provenance and licencing)

For your publications:

OpenDOAR

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

For your research data:

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

For everything:



<https://zenodo.org/>

Creative Commons

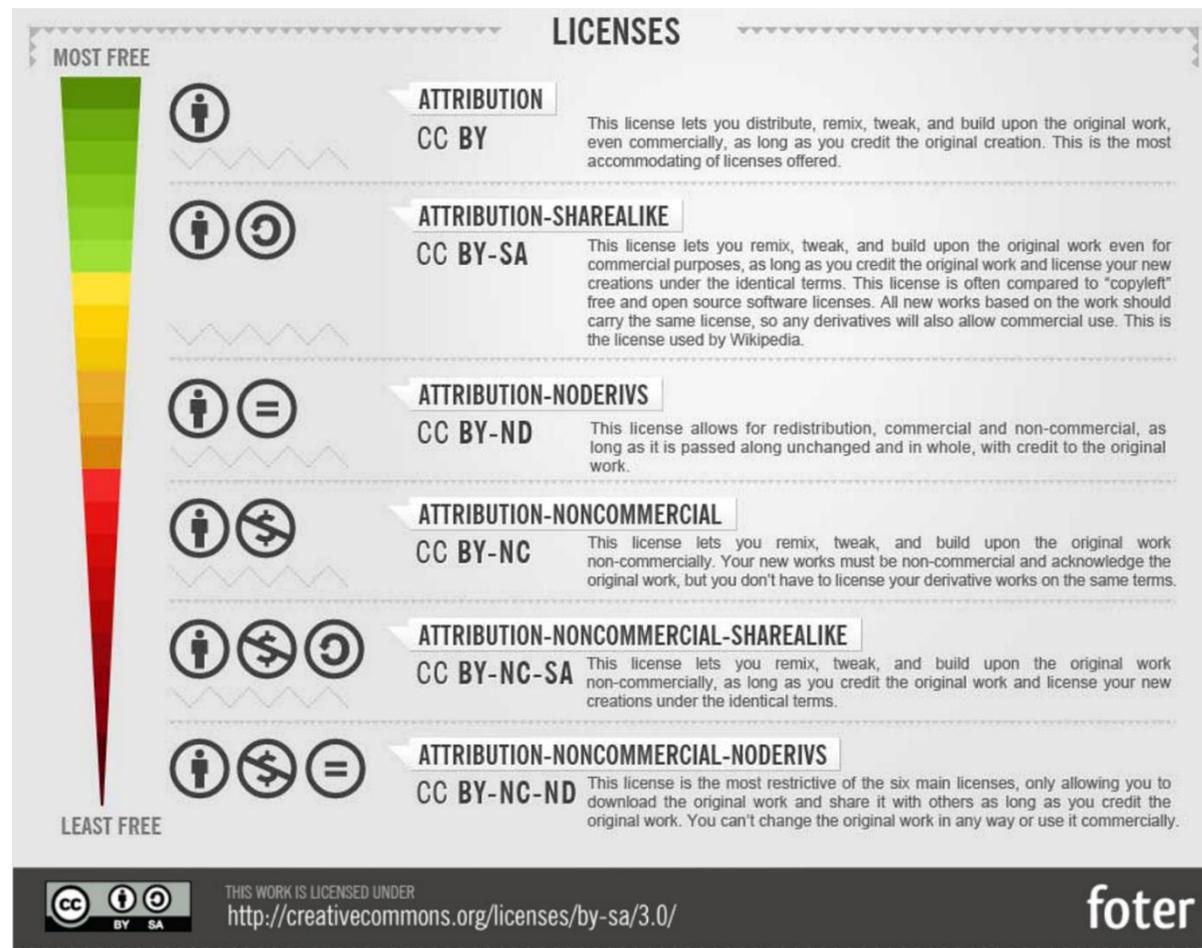
- Removes ambiguity over what others can and cannot do with your work
- You keep (certain) rights, but you grant certain reuses without them needing to contact you
- Universally recognisable and juridically sound (you can still claim copyright infringements)



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**



Data Management Plan

A formal 'living' document

- Formal 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 the researcher has taken time to reflect on what to do, that consideration has been given and the approach seems reasonable
- And that your data is “As open as possible, as closed as necessary” (FAIR principles)



Venkataraman, S. (2018, November). RDM, Open Research and DMP presentations and associated files. Zenodo, CC-BY 4.0 <http://doi.org/10.5281/zenodo.1489929>

FAIR principles

Findable

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

Interoperable

- Open and/or standardised file formats



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)

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

Requirements for specific cases

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)



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)



Alea López de San Román, Open Science in Horizon Europe, CC-BY 4.0
<https://doi.org/10.5281/zenodo.4681073>

EC Participant Portal – Continuous reporting

ndevugen (EXTERNAL) ?

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 ✓

Publications SAVE

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 li	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

Export to Excel Add Publication

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

Validate

Publications

Grant Management | Project Continuous Report | ndevugen (EXTERNAL)

231799 (Z31799 AMBROWV ...) | HORIZON-...

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

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

Publications

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	Pebling 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:	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			✖

* "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

Download EXCEL | Add Publication | Validate

View Open AIRE Publication

Type: Chapter in a Book
Title: Algorithms for Equilibrium Prices in Linear Mark
Authors: Kurt Mehlhorn
Title of the Journal or equivalent: Algorithms and Computation ISBN: 97833190465
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:10.1007/978-3-319-04657-0_1
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):
PID of deposited publication:
PID (publisher version of record):
Type of publication:
Link to publication:
Title of the scientific publication:
Authors:
Title of the Journal or equivalent:
Number:
ISSN or eISSN:
Publisher:
Month of publication:
Year of publication:
Was the publication available in open access through the repository at the time of publication:
Peer-reviewed:
PID (Publisher version of record):
Book title:
Did you charge OA publishing fees to the project?:
Type of publishing venue:
Article processing costs that will be charged to the project:

DOI:
10.1007/978-3-319-04657-0_1
Chapters in books
https://doi.org/10.1007/978-3-319-04657-0_1
Algorithms for Equilibrium Prices in Linear Market Models
Kurt Mehlhorn
Algorithms and Computation ISBN: 9783319046563
January
2014
Yes No
Yes No
Yes No
Yes No

OK | Cancel

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

Publications

- "Type of PID" = unique URL given by the repository or the publisher
- "PID of deposited publication" = URL to the repository where AAM/VoR is archived
- "PID (Publisher version of record)" = URL to the place where it was published (e.g. given by the journal)
- "Article processing costs that will be charged to the project" – remember that OA fees to publish in a non-full-OA journal/platform cannot be charged to the project

Edit Publication

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

Type of PID (repository)

PID of deposited publication

PID (publisher version of record) *

Type of publication *

Link to publication ⓘ

Title of the scientific publication ⓘ ⓘ

Authors ⓘ ⓘ

Title of the Journal or equivalent

Number

ISSN or eISSN

Publisher

Month of publication

Year of publication

Was the publication available in open access through the repository at the time of publication *

Peer-reviewed *

PID (Publisher version of record)

Book title

Did you charge OA publishing fees to the project? *

Type of publishing venue

Article processing costs that will be charged to the project

DOI

10.1007/978-3-319-04657-0_1

Chapters in books

https://doi.org/10.1007/978-3-319-04657-0_1

Algorithms for Equilibrium Prices in Linear Market Models

Kurt Mehlhorn

Algorithms and Computation ISBN: 9783319046563

January

2014

Yes No

Yes No

Yes No

OK

Cancel

Datasets

Datasets

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/dtu.14188487.v1 10.11583/dtu.14188487	DOI	Data for the figures of the article "Trapped upper hybrid waves as eigenmodes of	↗	✖
3	10.17632/8f3x85vovxt.1 10.17632/8f3x85vovxt	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/mfghvovvpm 10.17632/mfghvovvpm.1	DOI	ToF-ERDA data from spatial blocks 4, 5, 6 (ILW-1), side facing 90 degrees from plz	↗	✖
6	10.5281/zenodo.1410280 10.5281/zenodo.1410281	DOI	Source code, inputs, simulation outputs, analysis scripts and figures used in the p	↗	✖
7	10.5281/zenodo.3938978	DOI	<p>Supplementary material associated to publication "3D transient CFD sim	↗	✖
8	10.17632/3dovcvfs7.1 10.17632/hm63ocd47.1	DOI	Raw ToF-ERDA data from all samples, both as list files (.lst) and as data files (.r	↗	✖
9	10.6084/m9.figshare.6391796 10.6084/m9.figshare.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 €

PID 10.17632/hh9f7txd38 [↗](#)

PID of the publication [↗](#)

Does the data underpin a publication * Yes No

PID of the publication

URL to repository [↗](#)

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

<https://webgate.ec.europa.eu/funding-tenders-opportunities/pages/viewpage.action?pageId=25559674>

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.

Project Continuous Report

Grant Management: 240153 (240153) RZOSKO... HORIZON...
Call: HORIZON-ERC-2021-VICCHAIRS-IBA
Topic: HORIZON-ERC-2021-VICCHAIRS-IBA

Navigation: Project Summary, Researchers involved in the project, Deliverables, Milestones, Critical Risks, Publications, **Results**, Non-industrial activities, Standards, Patents (PR), Communic. Activities, Datasets, Beneficiaries Feedback, Impact, Other 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.

Name	Result type	Has 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

Project Continuous Report

Grant Management: 240153 (240153) RZOSKO... HORIZON...
Call: HORIZON-ERC-2021-VICCHAIRS-IBA
Topic: HORIZON-ERC-2021-VICCHAIRS-IBA

Navigation: Project Summary, Researchers involved in the project, Deliverables, Milestones, Critical Risks, Publications, Results, **Other Results**, Non-industrial activities, Standards, Patents (PR), Communic. Activities, Datasets, Beneficiaries Feedback, Impact

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	test1	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?:

Open Research Europe publishing platform

Giulia Malaguarnera

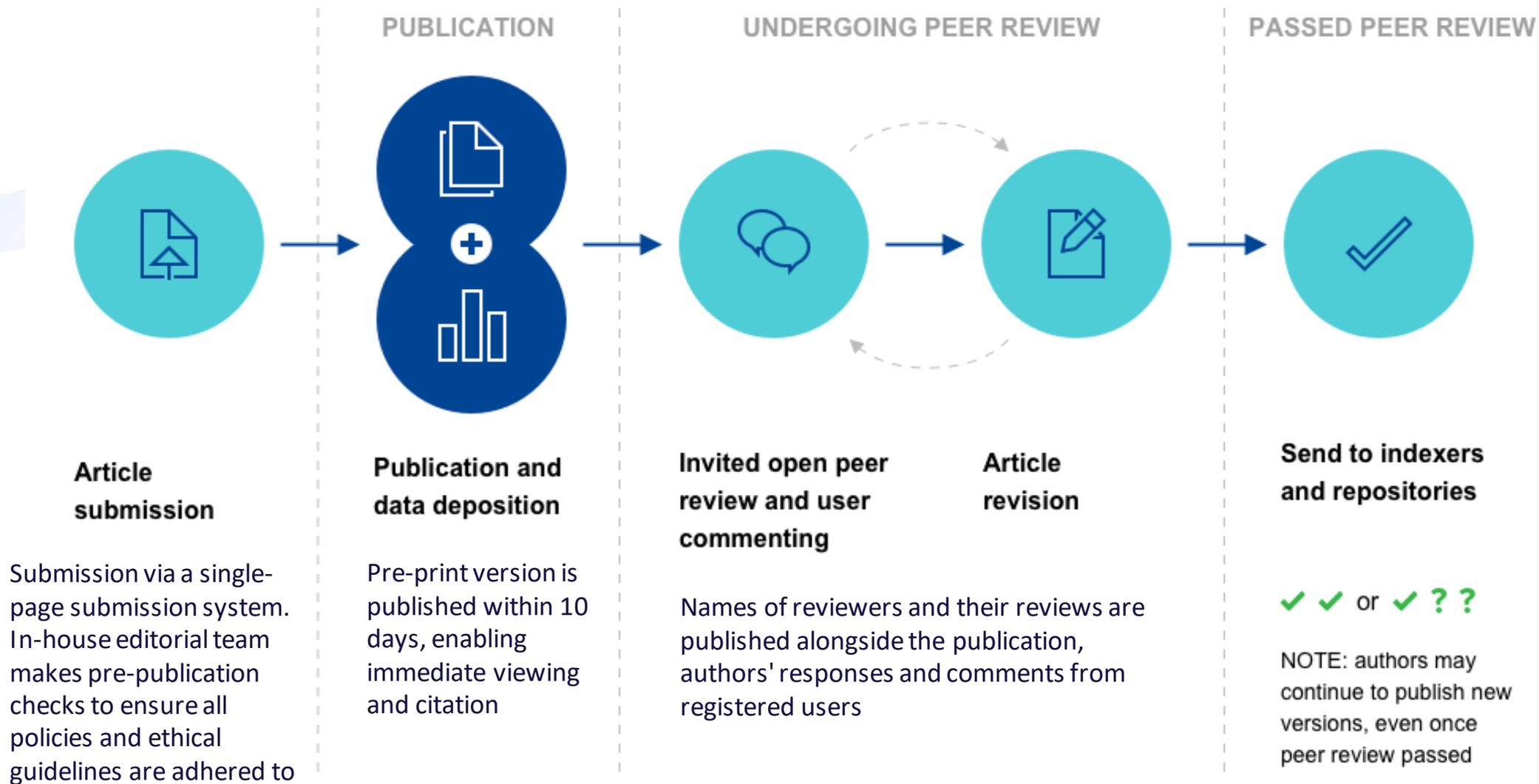




A multidisciplinary publishing platform

- **Diamond Open Access** publishing platform for Horizon 2020 and Horizon Europe beneficiaries
- Launched in March 2021 (currently over 270 publications)
- High-quality, reliable, efficient and transparent processes
- Expert Scientific Advisory Board
- **No costs to authors or readers** (i.e. no APCs) - costs are met directly by the European Commission
- **Open peer-review** (name of the reviewers, the revisions and the comments from the authors after revisions, are openly available)
- **Immediate publication**
- Can publish all research outputs (currently can only publish in English)
- New generation article metrics (novel and dedicated metrics are available for each article)
- All content is indexed in Google Scholar and Scopus (exploring subject-specific indexers as well)
- Automatically archived in Zenodo once passed peer-review





Preprint



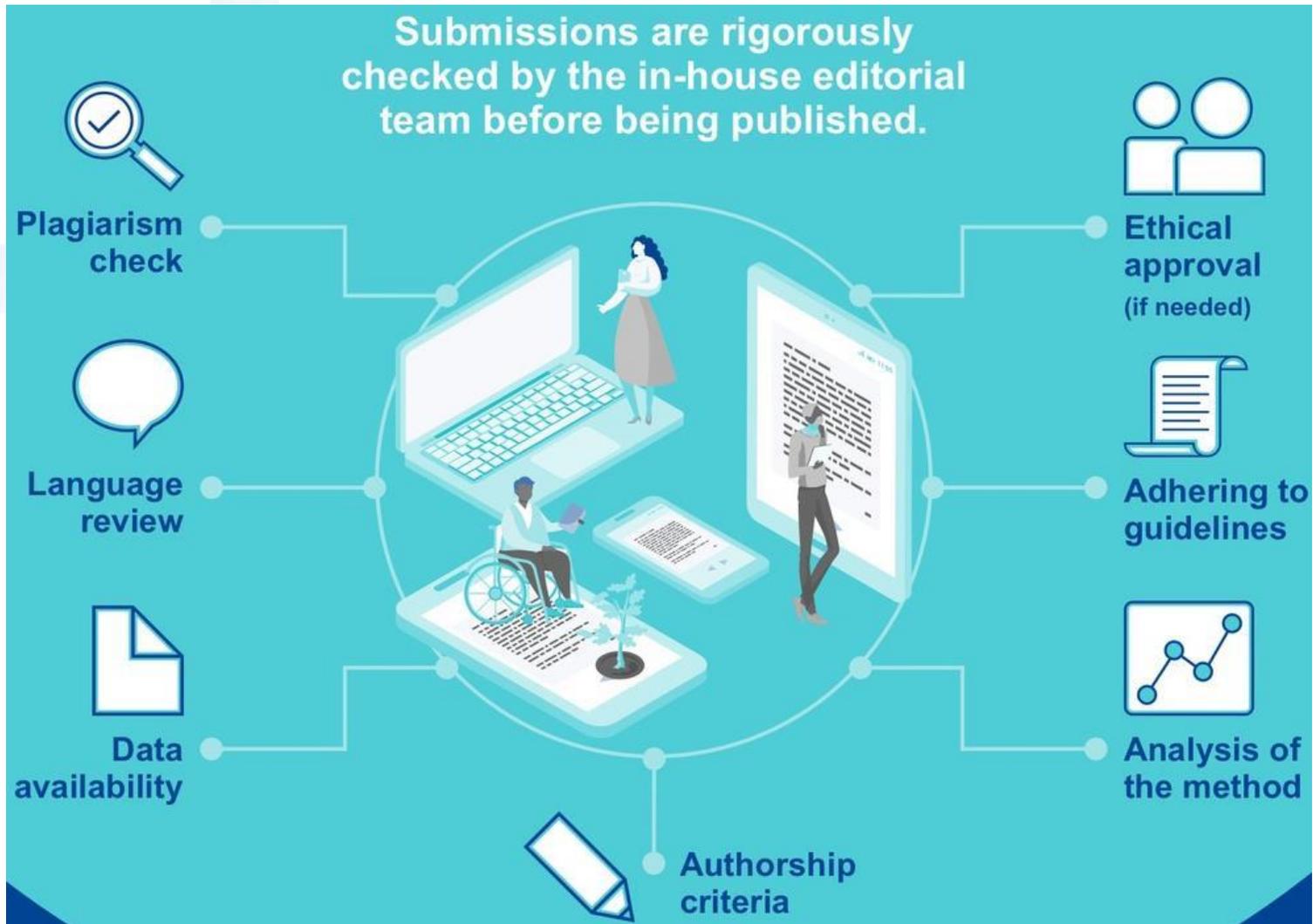
Adapted from [Library of Curtin University](#)
Icons from [manshagraphics](#) on Flaticon



ARTICLE TYPES by subject

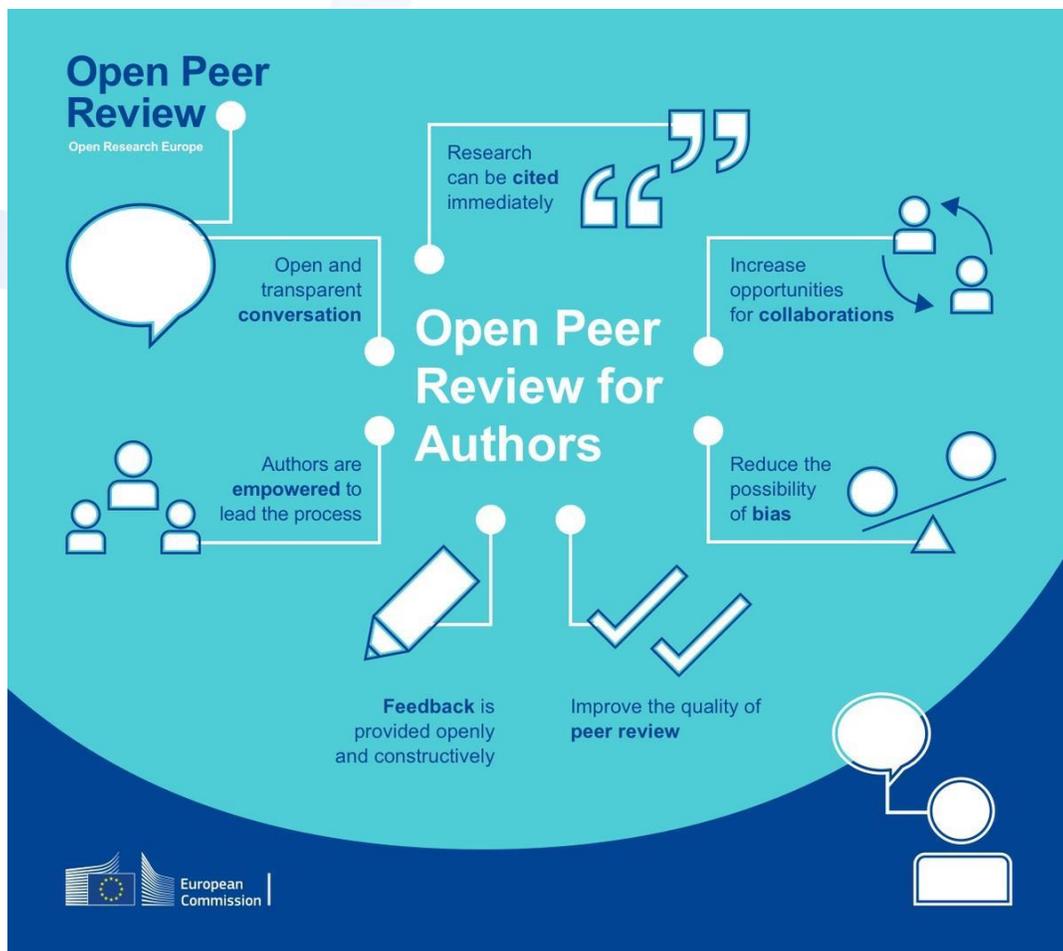
	Natural sciences	Engineering and technology	Medical and health sciences	Agricultural and veterinary sciences	Social sciences	Humanities and the arts
Case Study	•	•	•	•	•	•
Research Article	•	•	•	•	•	•
Brief Report	•	•	•	•	•	•
Data Note	•	•	•	•	•	•
Method Article	•	•	•	•	•	•
Open Letter	•	•	•	•	•	•
Software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

Pre-publication checks



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

Open peer-review



Open peer-review example

RESEARCH ARTICLE



REVISÉD 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

FUNDER Horizon 2020 Framework Programme

PEER REVIEWERS Muhammad Ali; Hugo Pinto

LATEST VERSION PUBLISHED 01 Nov 2022

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

FUNDER Horizon 2020 Framework Programme

PEER REVIEWERS Invited

PUBLISHED 26 Oct 2022

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RESEARCH ARTICLE

REVISÉD [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

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CASE STUDY

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

Paula Peña-Carro, Oscar Izquierdo-Monge

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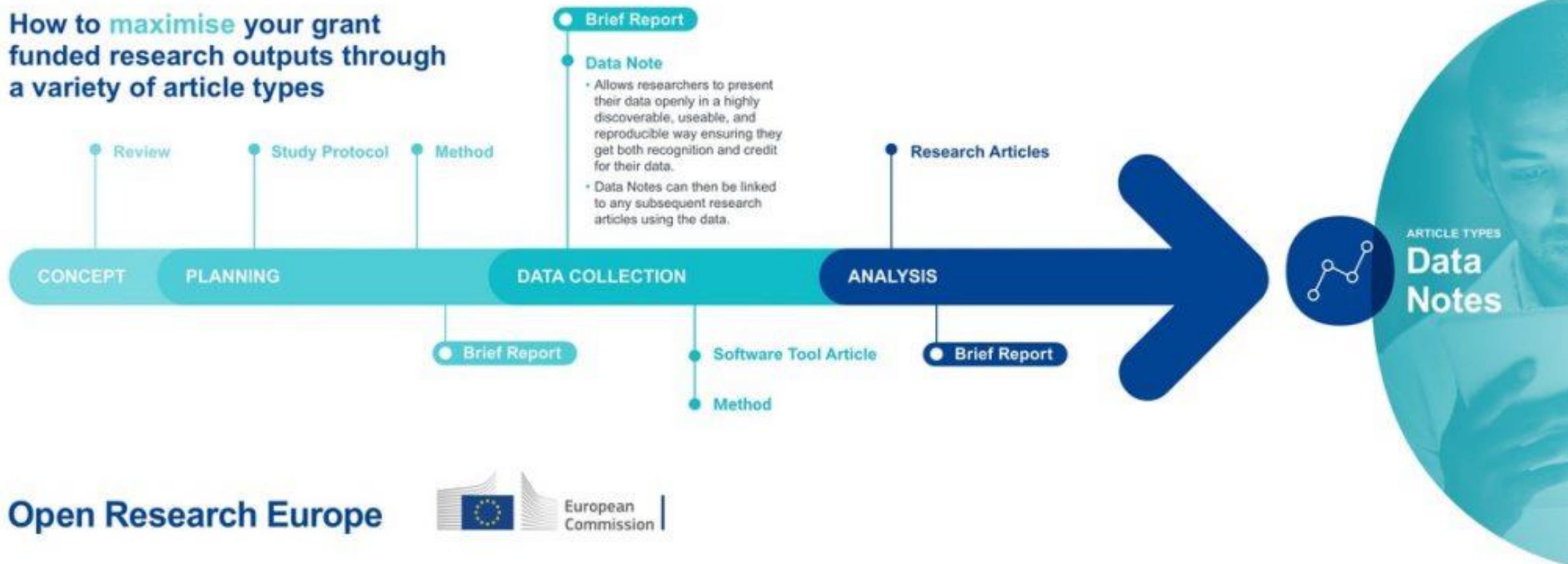
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4 Steps to Open Data



Tips and Tricks for data management

PLAN YOUR DATA: DMP

The Data Management Plan contains key information about:

- The research:
 - Purpose of the research
 - Objectives
 - Researchers involved
- Documentation of research datasets
 - Datasets that highlight the steps followed
 - The means used across data management activities
 - Language, ethics, license (cc), etc



PREPARE YOUR DATA FOR SHARING

- Protect sensitive data by anonymization
- Chose a machine-readable format
- Check if your dataset is FAIR



Increase the accessibility and reusability of spreadsheet data

DO

- Give each column a descriptive heading.
- Use a single header row.
- Ensure you have used the first cell, i.e. A1.
- Include a title and a legend to describe each spreadsheet.
- Save each data file with a name that appropriately reflects the content of that file.
- Deposit each table that is part of the dataset as a separate file.
- Deposit each worksheet as a separate file.

DO NOT

- Embed charts, comments or tables within a spreadsheet.
- Use color coding (machine-based data mining cannot interpret this).
- Include special (i.e. non alphanumeric) characters within the spreadsheet, including commas.
- Use merged cells.
- Deposit multiple worksheets within a spreadsheet (such as those used in Microsoft Excel), as these are not supported by CSV and TAB formats.

Select a Repository

Your datasets should be deposited in a stable and recognized open repository, under a CC0 license.

Your community might have a recognized repository, and some data types (such as genetic sequences or protein structures) have specific data banks they should be deposited in.

Struggling to decide which repository is right for your research?

- Ask librarians in your Institute for help
- Re3data is a search engine to browse all trusted repositories
- Zenodo: a catch-all repository
- Browse the EOSC Portal

OpenAIRE | EXPLORE

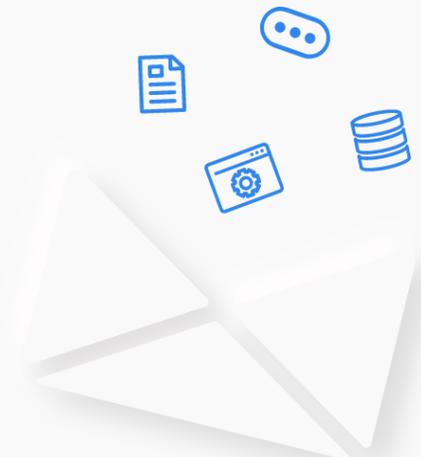
Search Deposit Link Data sources

Home > Deposit

Deposit or publish your research in Open Access.

Find the appropriate repository to deposit your research.

GET STARTED



zenodo



Add a Data Availability Statement to Your Article

- All articles must include a Data Availability statement, even where there is no data associated with the article. **This statement should be added to the end of the article *prior to submission*.** The Data Availability statement should not refer readers or reviewers to contact an author to obtain the data, but should instead include the applicable details listed below.
- You can also mention the DMPs if it's published on Zenodo or to another repository

Make the links! Contextualise your data

- Update the DMP
- Update your metadata in the repository you have selected
- Make the links by using OpenAIRE Explore

OpenAIRE | EXPLORE

Search Deposit Link Data sources

Home > Link

FIND SOURCES LINK SOURCES TO ENTITIES SUMMARIZE AND FINISH



Search for research products...



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Horizon Europe grant proposals

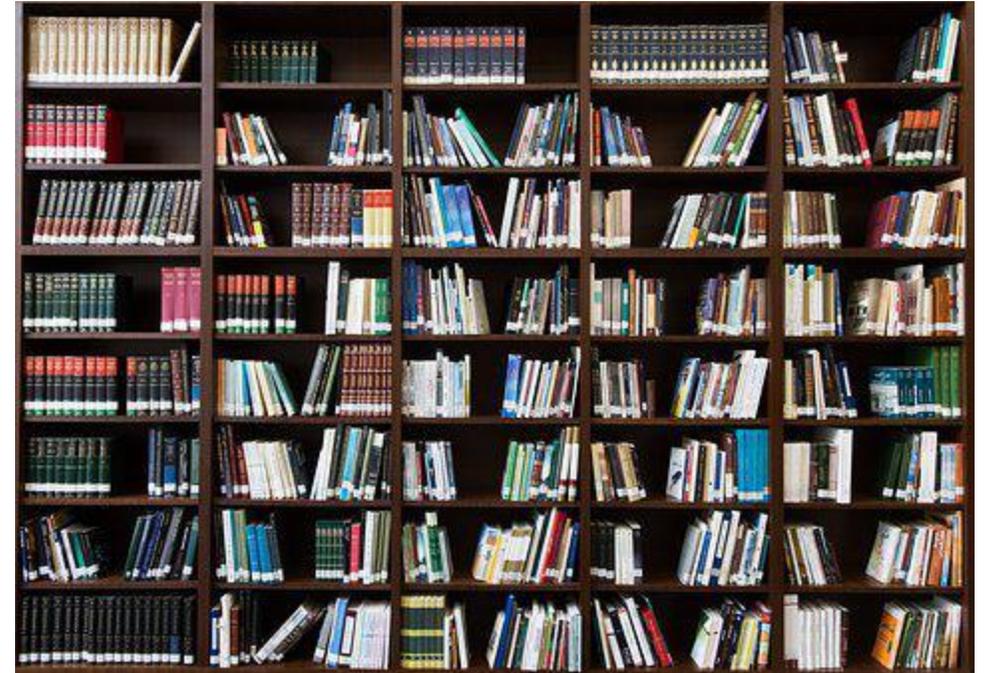
Jonathan England

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’

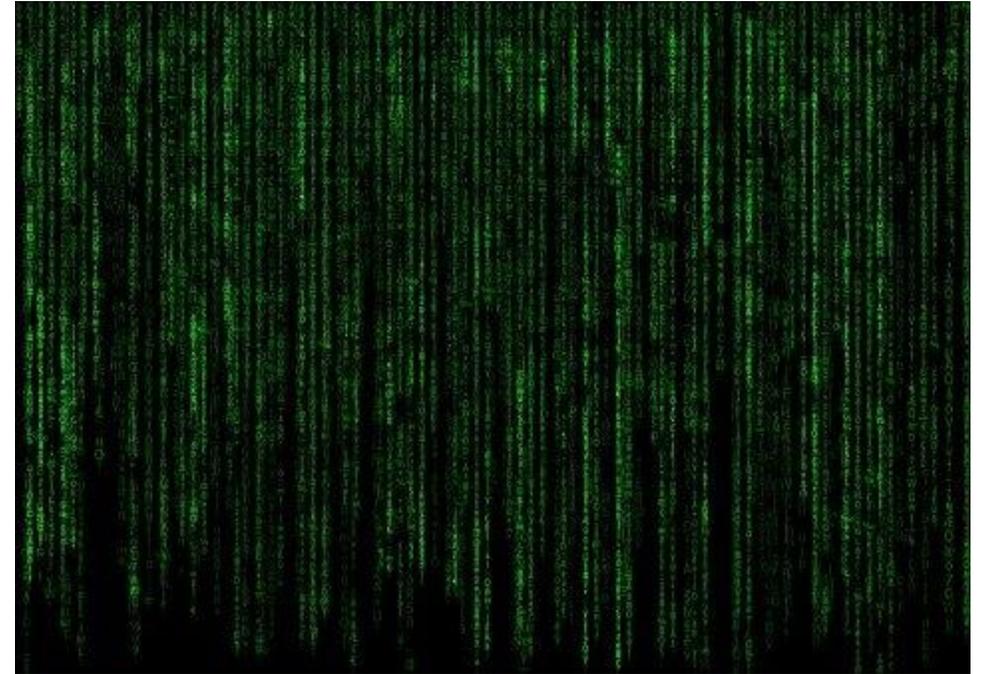
Publications

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



Data

- Your data listed should be FAIR, on a repository and the PID 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, PIDs, IPR, interoperability, licences, curation, responsibilities)
- Distinct WP 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 not eligible)



Writing tips

- Be as specific as possible
- Don't let the project officer dig for information
- 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)



MARIE CURIE ACTIONS

Horizon Europe Open Science recommended practices

Jonathan England

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



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



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>

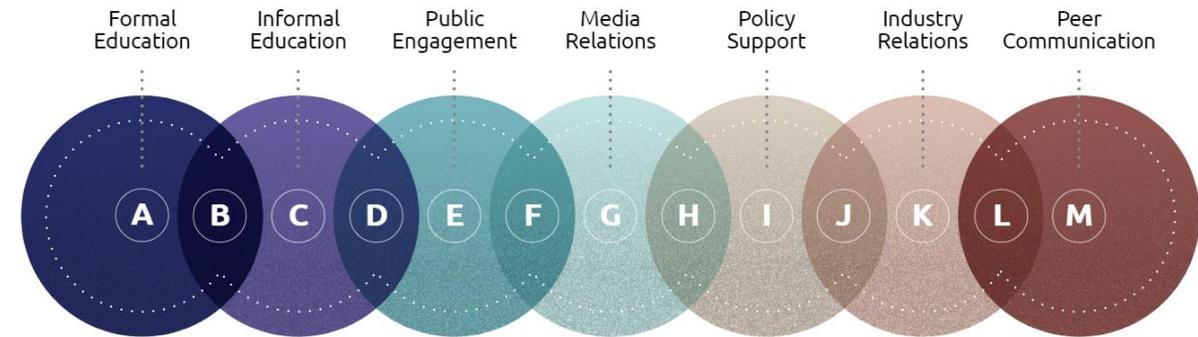
Pre-prints

- 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

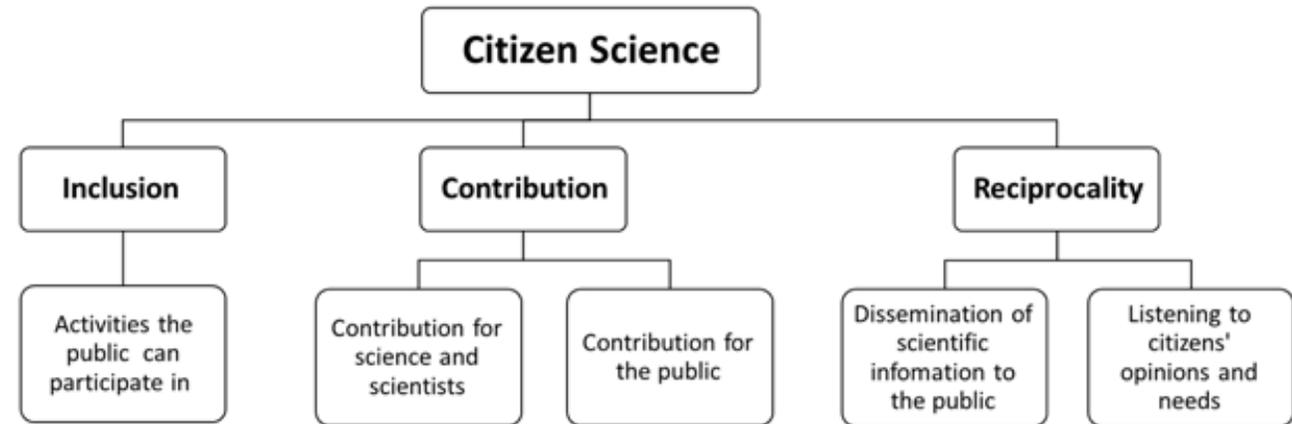


Pompea & Russo (2020). The role of astronomers in the astronomy education ecosystem. <https://doi.org/10.48550/arXiv.2011.11350>



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. <http://doi.org/10.5334/cstp.53>

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.





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- ✓ TOOLS TO SUPPORT

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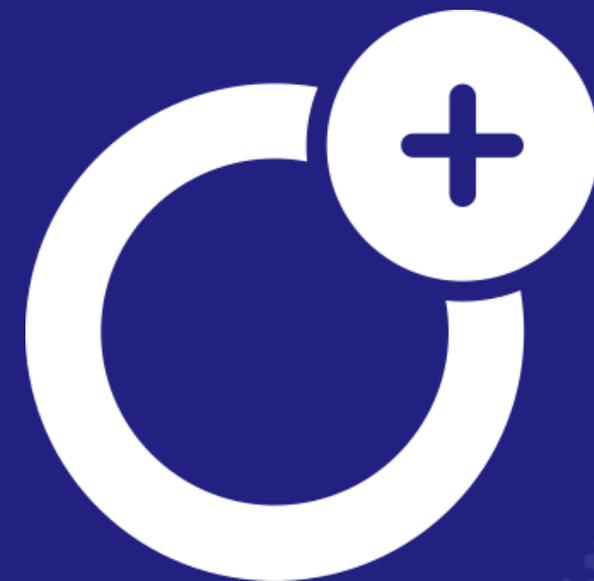
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