



Open Access to Publications in Horizon 2020

Webinar, February 7, 2019

Antónia Correia (FOSTER, University of Minho) & Pedro Príncipe, (OpenAIRE, University of Minho)



AGENDA

Are you participating in a H2020 funded project? Would you like to know more on how to comply with the H2020 Open Access mandate?

1. Open Access in H2020: summary of requirements
2. Open Access in H2020: practical implementation
3. Supporting the compliance: OpenAIRE services and tools



Open Access is the

DEFAULT

for research results in H2020

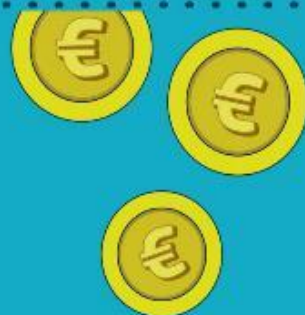


WHY OPEN ACCESS TO SCIENTIFIC PEER-REVIEWED PUBLICATIONS?



GOOD FOR SCIENCE

allows scientists to build on previous research results and avoids unnecessary duplication of effort
improved quality and greater efficiency



GOOD FOR THE ECONOMY

speeds up innovation
faster progress to market



GOOD FOR SOCIETY

makes research available to individual citizens and to non-profit organisations
greater transparency



HORIZON 2020 OPEN ACCESS TO SCIENTIFIC PUBLICATIONS



Each Horizon 2020 beneficiary must ensure open access to peer-reviewed scientific publications relating to results.
See Article 29.2 of your project's Grant Agreement

WHY OPEN ACCESS TO SCIENTIFIC PEER-REVIEWED PUBLICATIONS?



GOOD FOR SCIENCE
allows scientists to build on previous research results and avoids unnecessary duplication of effort
improved quality and greater efficiency



GOOD FOR THE ECONOMY
speeds up innovation
faster progress to market



GOOD FOR SOCIETY
makes research available to individual citizens and to non-profit organisations
greater transparency

HOW TO ACHIEVE OPEN ACCESS IN HORIZON 2020



SELF-ARCHIVING
"GREEN" OPEN ACCESS
deposit the final, peer-reviewed manuscript in a repository of your choice
Researchers must ensure open access to the publication within 6 months of publication (12 months for publications in the social sciences and humanities)



OPEN ACCESS PUBLISHING
"GOLD" OPEN ACCESS
publish in open access journals or in hybrid journals
Article processing charges are payable for reimbursement during the duration of your project. Hybrid journals sell subscriptions (no direct access) AND offer the option of making some individual articles open access



BOTH OPTIONS ARE POSSIBLE
If the gold route is chosen, the article must also be deposited in a repository to comply with Article 29.2

MISCONCEPTIONS ABOUT OPEN ACCESS



OPEN ACCESS IS NOT A REQUIREMENT TO PUBLISH
In Horizon 2020 researchers are free to publish or not



OPEN ACCESS DOES NOT AFFECT THE DECISION TO EXPLOIT RESEARCH RESULTS COMMERCIALY
e.g. through patenting



The decision whether to publish through open access comes after the more general decision of whether to publish directly or to first seek patenting



It is important to stress that open access publications undergo the same kind of peer review process as subscription publications

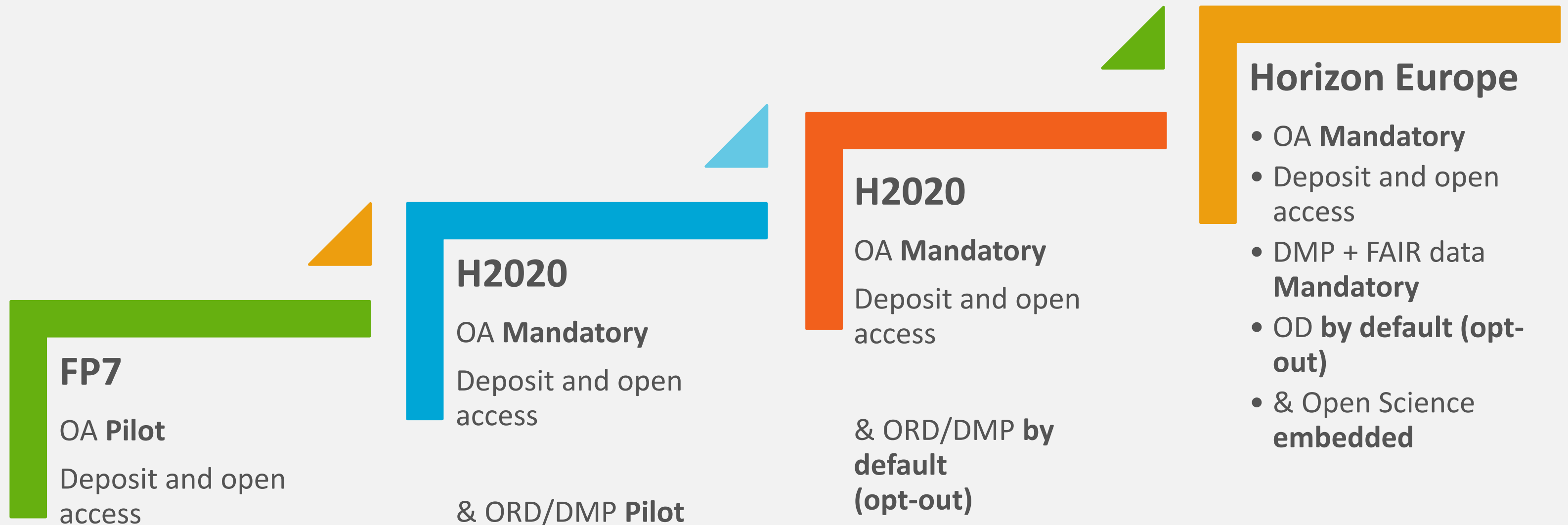
Get support

Participant Portal section on Open Access
Open Science
OpenUK

#OpenAccess
@Horizon2020
*OpenAccessEC



Open Science policies: the evolution of the EU funding programmes for R&I



1

Open Access in H2020: SUMMARY OF REQUIREMENTS



Multi-beneficiary General Model Grant Agreement

29.2 Open access to scientific publications

29.3 Open access to research data



Grant Agreement: § 29.2 Open access to scientific publications



Each beneficiary *must ensure open access* (free of charge, online access for any user) to *all peer-reviewed scientific publications relating to its results*.

In particular, it must:

(a) *as soon as possible and at the latest on publication, deposit* a machine-readable electronic copy of the *published version or final peer-reviewed manuscript* accepted for publication in a *repository* for scientific publications;

Moreover, the beneficiary must *aim to deposit at the same time the research data* needed to validate the results presented in the deposited scientific publications.

(b) *ensure open access* to the deposited publication – via the repository – at the latest:

(i) *on publication, if an electronic version is available for free via the publisher, or*

(ii) *within six months of publication (twelve months for publications in the social sciences and humanities) in any other case.*

(c) ensure open access – via the repository – to the *bibliographic metadata* that identify the deposited publication.

The bibliographic metadata must be in a *standard format and must include all of the following*:

- the terms ["European Union (EU)" and "Horizon 2020"] ["Euratom" and Euratom research and training programme 2014-2018];
- the name of the action, acronym and grant number;
- the publication date, and length of embargo period if applicable, and
- a persistent identifier.

Open Access requirements and who is covered by them?

All beneficiaries of H2020 funding must provide open access (free of charge, online access for any user) to all peer-reviewed publications by **depositing them into a repository**



http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf
www.openaire.eu/h2020openaccess

In other words...

Authors are free to choose between the two main and non-exclusive routes toward Open Access



Self-archiving (,green' open access): the published article or the final peer reviewed manuscript is uploaded in an online repository - access is often delayed (,embargo period')



Open access publishing (,gold' open access): the article is immediately in open access mode, through the publisher. The associated costs are covered by the author/institution/funder.

**The article must always be deposited in a repository,
even if the gold route has been chosen.**



How to make your publication OA?

1. Publish in any journal of your choice



Subscription based



Deposit in a repository and provide access



Open Access Journal



Deposit in a repository and provide access

→ **ALWAYS** deposit a version in a repository

+ Add metadata: funder, grant ID number, acronym, publication date....

Which way to choose?

PROS

+

CONS

-

Self-archive
in repository



- Any subscription based journal
- No fees

- Possibility of an embargo period

Open Access Journal



- Direct Open Access
- Retain copyright (sometimes)

- Possible costs (APC)

Where to deposit?



- Institutional repository
- Disciplinary (arXiv, Europe PubMed Central...)
- Or use Zenodo.org: EC-cofounded, multidisciplinary, free repository
- The Directories of Open Access Repositories:
 - <http://v2.sherpa.ac.uk/opensoar/>
 - roar.eprints.org
 - Explore.openaire.eu

where

what

when

What to deposit?



- Final peer-reviewed manuscript
OR
- Published version

+ metadata: funder, grant ID number, acronym, publication date...

→ Apply to all kind of publication, but emphasis on peer-reviewed journal articles

where

what

when

What can I deposit?

Check publishers policies



- SHERPA/ROMEO: www.sherpa.ac.uk/romeo
- Overview of copyright policies and self-archiving permissions

where

what

when

What can I deposit?



Pre-print
Before peer review



Post- Print
After peer review



Publisher's version
With lay-out



Embargo
Period during which
access to the article
is limited

When should I deposit?

Check publishers policies



Each beneficiary must deposit as soon as possible and **at the latest on publication.**

where

what

when

When should open access be provided?

Check publishers policies



Each beneficiary must deposit as soon as possible and **at the latest on publication**.

Open access must be ensured immediately or after an embargo period:

GREEN – 6-12 months depending on the research area and the choice of journal

GOLD – immediately

Some journals demand longer embargo periods

(see SHERPA/RoMEO database and journal's homepages)

where

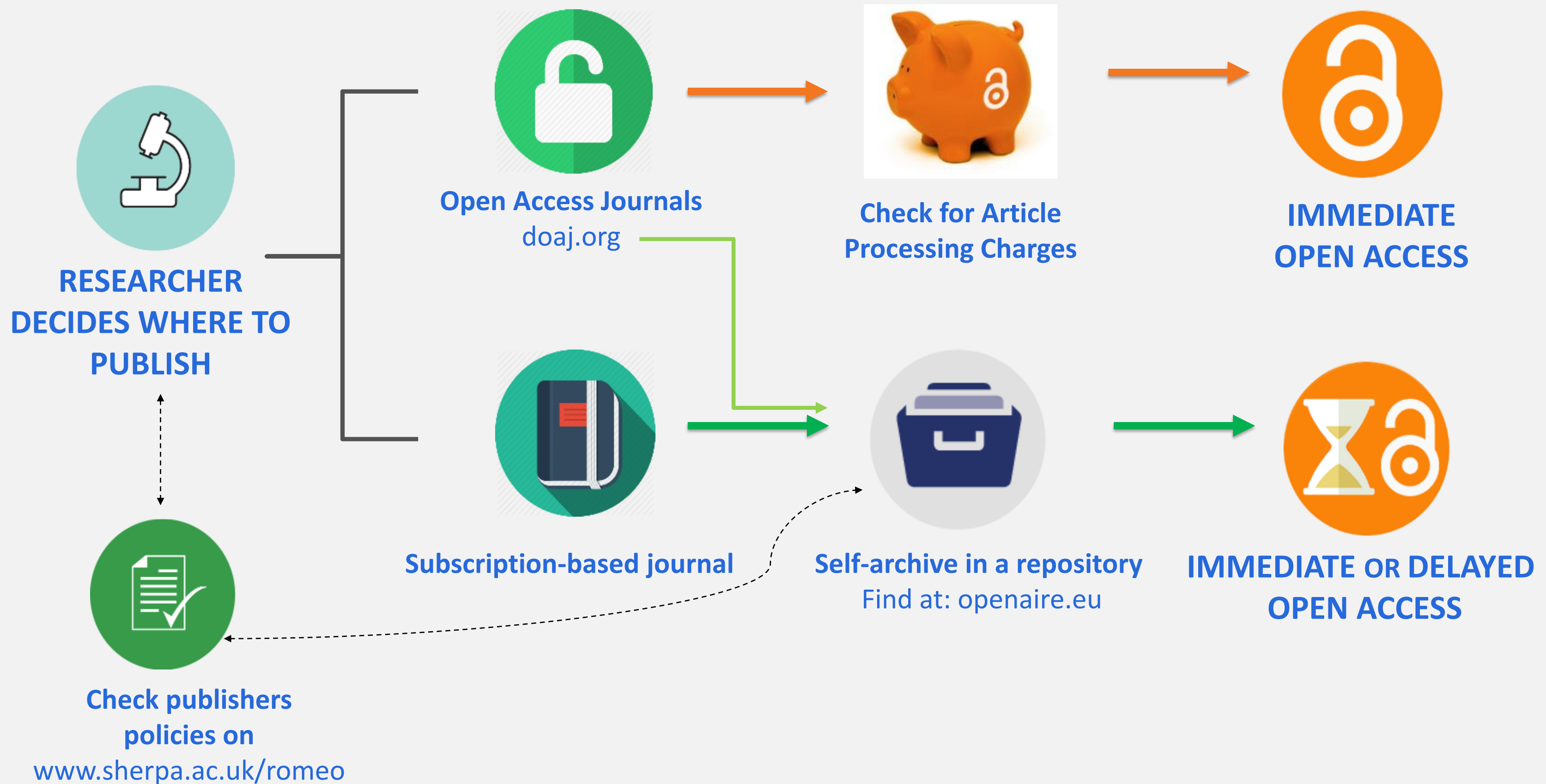
what

when

2

Open Access in H2020: PRACTICAL IMPLEMENTATION





Not sure if your publisher allows self-archiving?



- 1) Check the journal self-archiving policy on the publisher's web-site.
- 2) If in doubt, check the self-archiving policy of your journal using publisher copyright policies & self-archiving tool [SHERPA RoMEO](#) (colours taxonomy).



ROMEO colour	Archiving policy
green	can archive pre-print <i>and</i> post-print or publisher's version/PDF
blue	can archive post-print (ie final draft post-refereeing) or publisher's version/PDF
yellow	can archive pre-print (ie pre-refereeing)
white	archiving not formally supported

- Try also [DULCINEA](#) which summarises self-archiving policies of Spanish journals,
- and [Héloïse](#) which summarises self-archiving policies of French journals.

Are Article Processing Charges (APCs) supported?

Yes



For open access publishing, researchers can publish in open access journals, or in journals that sell subscriptions and also offer the possibility of making individual articles openly accessible (hybrid journals).



But be aware... the Article Processing Charges (APCs) incurred by beneficiaries are eligible for reimbursement only during the duration of the action (project).

What budget to consider in proposal?

Dissemination costs, e.g. for publishing in open access journals/books, are eligible costs if incurred during the project period.



Budget for Publications = Average APC x number of publications

How?



Method 1: Average APC based on list of journals used by the consortium (look up prices at publisher website and/or ask a librarian).

Method 2: Average APC based on general market figures.

Average APCs

Average:

- 1378 €¹ - 1 978 €²
- 1186 / 1 754 € (OA journal) - 2 280 € (hybrid journal)³
- 1 479 € (OA journal) – 2 493 € (hybrid journal)⁴

Information on APCs per publisher and journal

→ [openAPC project](#)

APCs vary widely



Both types of OA publication cost can be reimbursed in H2020 projects. Currently, there is no price-cap for APCs.

1. [Open access central funds in UK universities. Learned Publishing, \[online\] 25\(2\).](#) Pinfield, S., and Middleton, C., 2012
2. Figure 1: APC pricing distribution. Article processing charges (APCs) and subscriptions. Shamash, K., 2016
3. A study of open access journals using article processing charges. Journal of the American Society for Information Science and Technology, 63(8), pp.1485–1495. Solomon, D.J., and Björk, B.-C., 2012
4. <https://treemaps.intact-project.org/page/about.html>

Publication costs – issues to consider



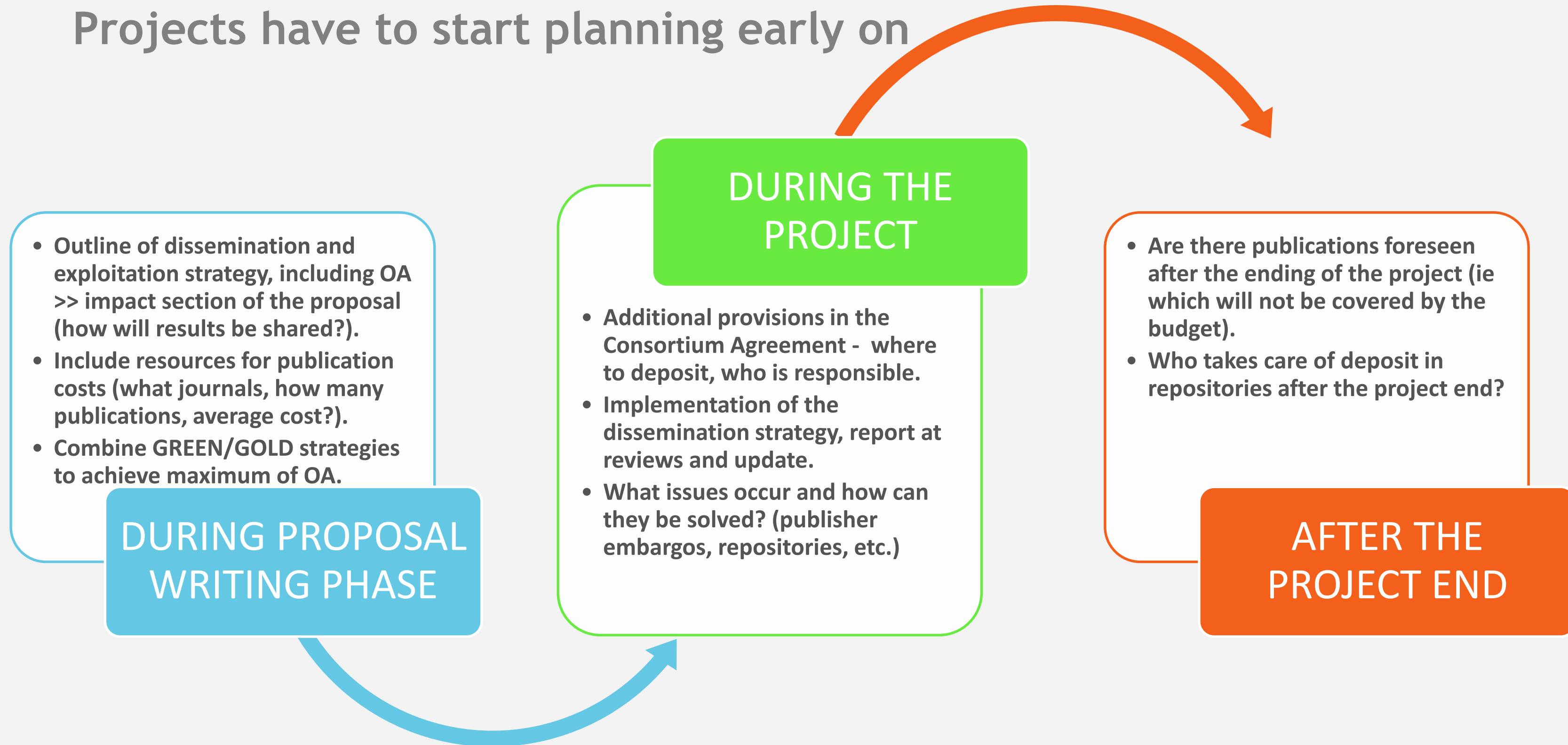
1. Publishing ALL articles in APC based OA journals is probably not the right solution as it can lead to a substantial amount of the project budget.
→ a mix of depositing articles and publishing in OA journals is highly recommended (mixed strategy of GREEN/GOLD open access).



2. The growing OA market comes with some challenges. Some caution is needed. → lots of new publishers/journals some of questionable quality. Consult white list such as <https://doaj.org/>

What are projects expected to do?

Projects have to start planning early on



What are the consequences for non-compliance with OA requirements?

If a beneficiary breaches any of its obligations, the grant may be reduced (Article 43) and it may also lead to any of the other measures described in Chapter 6 of the General Model Grant Agreement.



Many challenges ahead

Open access to publications

- Increasing uptake to 100%
- Reinforcing monitoring and incentives/'sanctions'
- Hybrid journals & other financial issues (caps, post-grant etc.)

3

Supporting the compliance:
OpenAIRE services and tools



Support and information?

OpenAIRE - An Open Knowledge & Research Information Infrastructure



**OPENAIRE FOSTERS THE SOCIAL AND TECHNICAL LINKS
THAT ENABLE OPEN SCIENCE IN EUROPE AND BEYOND.**

www.openaire.eu

Key to Open Science uptake: **services for all**



Provide standards, **tools** and **services** for Open Science implementation and ensure their uptake on a global level.

OpenAIRE

Services and tools:

- ✓ Open Access depositing
- ✓ Storing research data in Zenodo
- ✓ Claiming publications & datasets
- ✓ Reporting research outputs
- ✓ Discover, analyse and access
- ✓ Support material and helpdesk
- ✓ Training and support material



Discover linked Open Research

Search for research results,
projects, content providers
and organizations

**EXPLORE. OpenAIRE
DISCOVERY SERVICE**

[EXPLORE](#)[PROVIDE](#)[CONNECT](#)[MONITOR](#)[DEVELOP](#)

EXPLORE

[SEARCH](#)[SHARE](#)[LINK](#)[CONTENT PROVIDERS](#)[Sign in](#)

Advanced search for publications

Search for research results, projects, content providers & organizations in OpenAIRE

[Publications](#)[Research Data](#)[Software](#)[Other Research
Products](#)[Projects](#)[Content Providers](#)[Organizations](#)

Funder

[European Commission \(278,058\)](#)
[National Institutes of H... \(193,963\)](#)
[National Science Foun... \(174,572\)](#)
[Wellcome Trust \(60,948\)](#)
[Research Council UK \(49,069\)](#)

[View more](#)

Project

[Programs on Critical Pr... \(1,751\)](#)
[COLLMOT \(1,128\)](#)
[HIPEAC \(1,035\)](#)
[XSEDE: eXtreme Scien... \(1,014\)](#)
[EUROfusion \(955\)](#)

[View more](#)

Publication Date

[2014 \(1,561,616\)](#)
[2015 \(1,560,802\)](#)
[2016 \(1,493,292\)](#)
[2013 \(1,416,163\)](#)
[2012 \(1,315,445\)](#)

[View more](#)

Access Mode

[Open Access \(20,538,683\)](#)
[Restricted \(259,559\)](#)
[Closed Access \(131,459\)](#)

Type

[Article \(9,780,413\)](#)
[0038 \(3,662,002\)](#)
[Preprint \(1,885,753\)](#)

Language

[English \(10,291,040\)](#)
[Undetermined \(1,836,499\)](#)
[Russian \(1,499,246\)](#)

feedback

Researcher?

Explore all OA research results.
Link all your research. Build
your profile

[OpenAIRE.EXPLORE](#)



Explore

Discover linked open
research



Share

Deposit in a repository
of your choice



Link

Connect all your
research



Share, deposit and publish in OA

How to comply. What services to use.

Find where to deposit

EXPLORE

PROVIDE

CONNECT

MONITOR

DEVELOP

OpenAIRE

EXPLORE

SEARCH

SHARE

LINK

CONTENT PROVIDERS

Sign in

Deposit Publications

See if your institution has a repository

cantabria

Locate

Universidad de Cantabria

Or locate repository on map

Datasource type

Journal

Publication Repository Aggregator

Thematic Repository

Institutional Repository

Publication Repository

Journal Aggregator/Publisher

Software Repository

Compatibility

OpenAIRE Basic (DRIVER OA)

under validation

OpenAIRE 3.0 (OA, funding)

OpenAIRE 2.0+ (DRIVER OA, EC funding)

OpenAIRE 2.0 (EC funding)

proprietary

collected from a compatible aggregator

Country

[select all|none]

all countries selected

AR

AT

BE

BG

BR

CA

Iceland

feedback

EXPLORE

SEARCH

SHARE

Deposit Research Data

See if your institution has a repository

Organization name

Locate

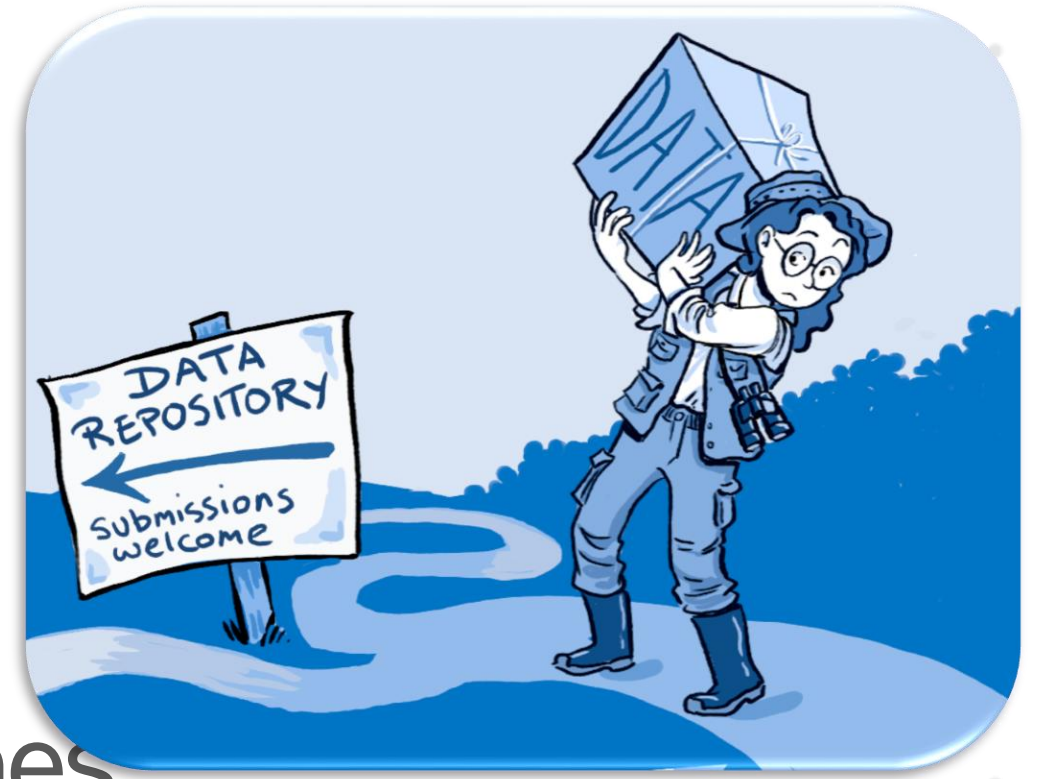
Or search for domain specific repositories

Type keywords (e.g Biology, Natural sciences, Social Sciences, Engineering Sciences...)

Search

Zenodo – Catch-all repository

- Catch-all repository for EU funded research
- Up to 50 GB per upload
- Data stored in the CERN Data Center
- Persistent identifiers (DOIs) for every upload
- Includes article level metrics
- Free for the long tail of Science
- Open to all research outputs from all disciplines
- Easily add EC funding information and report via OpenAIRE



Upload



zenodo

Search

Upload

Communities

pedroprincipe@sdum.uminho.pt

Delete

Save

Publish

New upload

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files

Choose files

Start upload

Drag and drop files here

— or —

Choose files

(minimum 1 file required, max 50 GB per dataset - [contact us](#) for larger datasets)

Upload type

required

zenodo

Search

Upload

Communities

pedroprincipe@sdum.uminho.pt

Delete

Save

Publish

New upload

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files

Choose files

Start upload

Drag and drop files here

— or —

Choose files

(minimum 1 file required, max 50 GB per dataset - [contact us](#) for larger datasets)

Upload type

required

Publication type

Journal article

Basic information

required

Digital Object Identifier

e.g. 10.1234/xyz.bar

Optional: Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload.

Publication date

2016-11-16

Required. Format: YYYY-MM-DD. In case your upload was already published elsewhere, please use the date of first publication.

Title

Required.

Authors

Family Name, Given names

Affiliation

+ Add another author

Description

Required.

Keywords

+ Add another keyword

Additional notes

Optional.

License

required

Access right

☒ Open Access

☐ Embargoed Access

☐ Restricted Access

☐ Closed Access

Required. Open access uploads have considerably higher visibility on Zenodo.

License

Creative Commons Attribution 4.0

Required: The selected license applies to all of your files displayed in the top of the form. If you want to upload some files under a different license, please do so in two separate uploads. If you think a license is missing from the list, please inform us at info@zenodo.org.

Communities

recommended

Any user can create a community collection on Zenodo ([browse communities](#)). Specify communities which you wish your upload to appear in. The owner of the community will be notified, and can either accept or reject your request.

Communities

Start typing a community name.

+ Add another community

Funding

recommended

Zenodo is integrated into reporting lines for research funded by the European Commission via OpenAIRE (<http://www.openaire.eu>). Specify grants which have funded your research, and we will let your funding agency know!

Grants

Start typing a grant number, name or abbreviation.

+ Add another grant

Related/alternate identifiers

recommended

Contributors

optional

References

optional

Journal

optional

Conference

optional

Book/Report/Chapter

optional

Thesis

optional

Subjects

optional

Save

Publish

About

Resources

Developers

Contribute

Funded by

About

Features

REST API

Contribute

OpenAIRE

Privacy policy

Contact

FAQ

GitHub

OpenAIRE

Terms of Use

Privacy policy

Terms of Use

Support

Publish

DOI:

DOI 10.5281/zenodo.165760

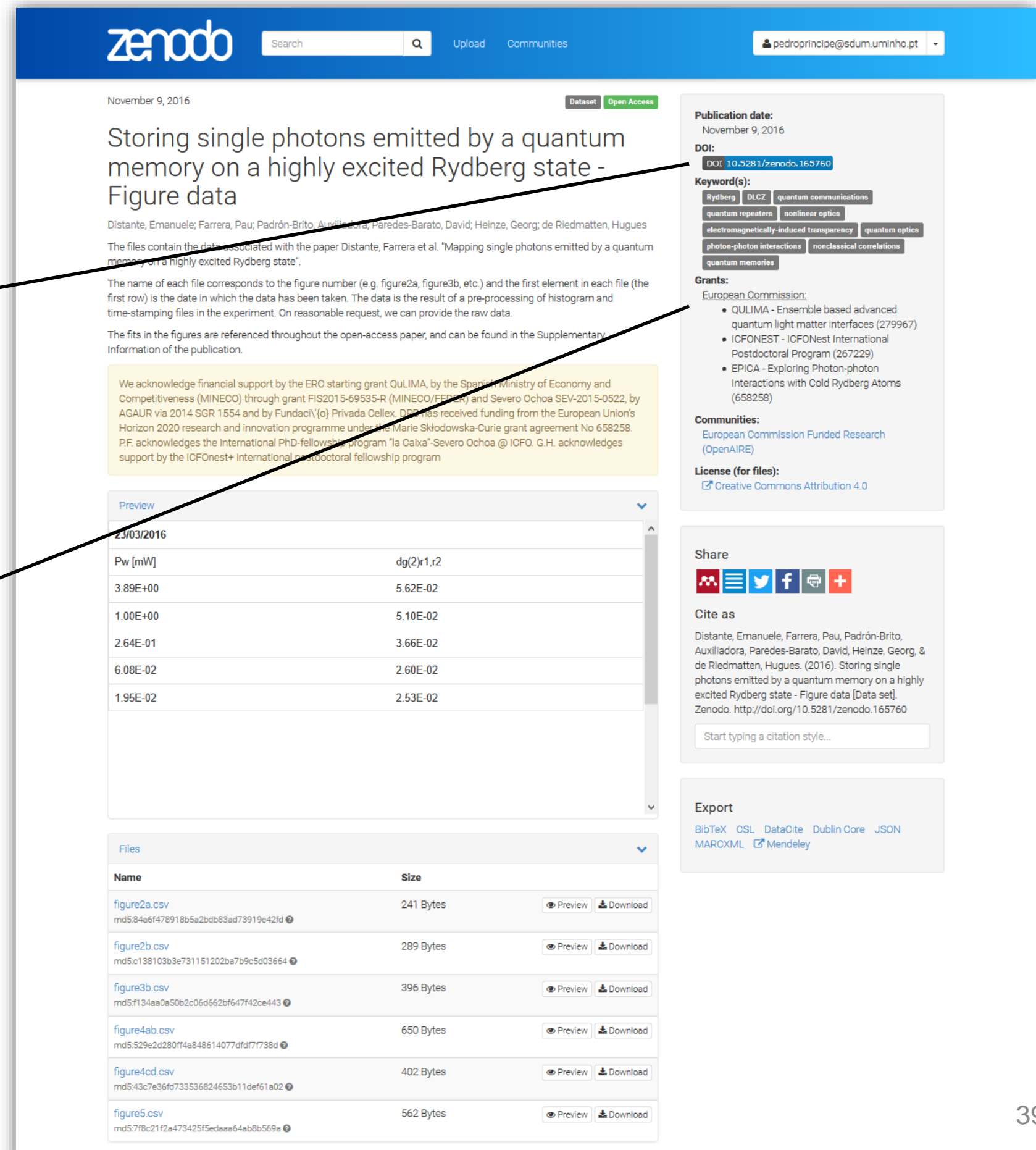
<http://www.datacite.org>

Grants:

European Commission:

- QULIMA - Ensemble based advanced quantum light matter interfaces (279967)
- ICFONEST - ICFONest International Postdoctoral Program (267229)
- EPICA - Exploring Photon-photon Interactions with Cold Rydberg Atoms (658258)

www.openaire.eu



The screenshot shows a Zenodo dataset page. The title is "Storing single photons emitted by a quantum memory on a highly excited Rydberg state - Figure data". The publication date is November 9, 2016. The DOI is 10.5281/zenodo.165760. The keywords are Rydberg, DLCZ, quantum communications, quantum repeaters, nonlinear optics, electromagnetically-induced transparency, quantum optics, photon-photon interactions, nonclassical correlations, and quantum memories. The grants listed are European Commission: QULIMA - Ensemble based advanced quantum light matter interfaces (279967), ICFONEST - ICFONest International Postdoctoral Program (267229), and EPICA - Exploring Photon-photon Interactions with Cold Rydberg Atoms (658258). The communities are European Commission Funded Research (OpenAIRE). The license is Creative Commons Attribution 4.0. The share section includes icons for various social media and citation styles. The export section lists BibTeX, CSL, DataCite, Dublin Core, JSON, MARCXML, and Mendeley. The files section lists five CSV files: figure2a.csv (241 Bytes), figure2b.csv (289 Bytes), figure3b.csv (396 Bytes), figure4ab.csv (650 Bytes), and figure4cd.csv (402 Bytes), each with a preview and download button.

zenodo Search Upload Communities pedroprincipe@sdu.uminho.pt

November 9, 2016 Dataset Open Access

Storing single photons emitted by a quantum memory on a highly excited Rydberg state - Figure data

Distante, Emanuele; Farrera, Pau; Padrón-Brito, Auxiliadora; Paredes-Barato, David; Heinze, Georg; de Riedmatten, Hugues

The files contain the data associated with the paper Distante, Farrera et al. "Mapping single photons emitted by a quantum memory on a highly excited Rydberg state".

The name of each file corresponds to the figure number (e.g. figure2a, figure3b, etc.) and the first element in each file (the first row) is the date in which the data has been taken. The data is the result of a pre-processing of histogram and time-stamping files in the experiment. On reasonable request, we can provide the raw data.

The fits in the figures are referenced throughout the open-access paper, and can be found in the Supplementary Information of the publication.

We acknowledge financial support by the ERC starting grant QULIMA, by the Spanish Ministry of Economy and Competitiveness (MINECO) through grant FIS2015-69535-R (MINECO/FEDER) and Severo Ochoa SEV-2015-0522, by AGAUR via 2014 SGR 1554 and by Fundació Privada Cellex. DFB has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 658258. P.F. acknowledges the International PhD-fellowship program "la Caixa"-Severo Ochoa @ ICFO. G.H. acknowledges support by the ICFONest+ international postdoctoral fellowship program

Publication date:
November 9, 2016

DOI:
DOI 10.5281/zenodo.165760


Keyword(s):
Rydberg DLCZ quantum communications
quantum repeaters nonlinear optics
electromagnetically-induced transparency quantum optics
photon-photon interactions nonclassical correlations
quantum memories

Grants:
European Commission:

- QULIMA - Ensemble based advanced quantum light matter interfaces (279967)
- ICFONEST - ICFONest International Postdoctoral Program (267229)
- EPICA - Exploring Photon-photon Interactions with Cold Rydberg Atoms (658258)

Communities:
European Commission Funded Research (OpenAIRE)

License (for files):
Creative Commons Attribution 4.0

Share


Cite as
Distante, Emanuele, Farrera, Pau, Padrón-Brito, Auxiliadora, Paredes-Barato, David, Heinze, Georg, & de Riedmatten, Hugues. (2016). Storing single photons emitted by a quantum memory on a highly excited Rydberg state - Figure data [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.165760>

Start typing a citation style...

Export
BibTeX CSL DataCite Dublin Core JSON
MARCXML Mendeley

Files

Name	Size	Preview	Download
figure2a.csv md5:84e6f478918b5a2bdb83ad73919e42fd	241 Bytes		
figure2b.csv md5:c138103b3e731151202ba7b9c5d03664	289 Bytes		
figure3b.csv md5:f134aa0a50b2c06d662bf647f42ce443	396 Bytes		
figure4ab.csv md5:529e2d280ff4a848614077dfdf7738d	650 Bytes		
figure4cd.csv md5:43c7e36fd733536824653b11def61a02	402 Bytes		
figure5.csv md5:7f8c21f2a473425f5edaaa64ab8b569a	562 Bytes		

Deposit once!

- Locate an appropriated **repository** via OpenAIRE.
 - If no repository is available: use **Zenodo** (OpenAIRE/CERN repository).
- **Acknowledge** project funding in the publication or dataset metadata record.
- Use a fully OpenAIRE compatible repository. If don't... use the OpenAIRE linking services afterwards and associate your research results (**Link/Claim** publication or datasets to projects).
- We apply cleaning, transformation, disambiguation processes, and **identify relationships** among all research entities: publications, data, funding...
- All publications accessible via OpenAIRE and linked to a project will be displayed automatically in the reporting section of the EC Participant Portal for the project.

We did it!

ACKNOWLEDGE

PROJECT FUNDING IN THE PUBLICATION OR DATASET METADATA RECORD

New upload

Instructions: (i) Upload minimum one file or fill in required fields (marked with a red asterisk). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files

Drag and drop files here

— or —

Choose files

(minimum 1 file required, max 50 GB per dataset - [contact us](#) for larger datasets)

Upload type

Publication Poster Presentation Dataset Image Video/Audio Software

Publication Type: Journal article

Basic Information

Digital Object Identifier: e.g. 10.1234/foo.bar

Optional. Did your publisher already assign a DOI to your upload, or others to easily and unambiguously cite your upload?

Preassigned DOI

Publication Date: 2016-09-29

Required. Format: YYYY-MM-DD. In case your upload was a preprint, use the date of first public availability.

Title

Required.

Authors: Family Name, Given names

Affiliation

Funding

recommended

Zenodo is integrated into reporting lines for research funded by the European Commission via OpenAIRE (<http://www.openaire.eu>). Specify grants which have funded your research, and we will let your funding agency know!

Grants

Open Access Infrastructure for Research in Europe 2020

Optional. Note, a human Zenodo curator will validate your upload before reporting it to OpenAIRE, and you may thus experience a delay before your upload is available in OpenAIRE.

+ Add another grant

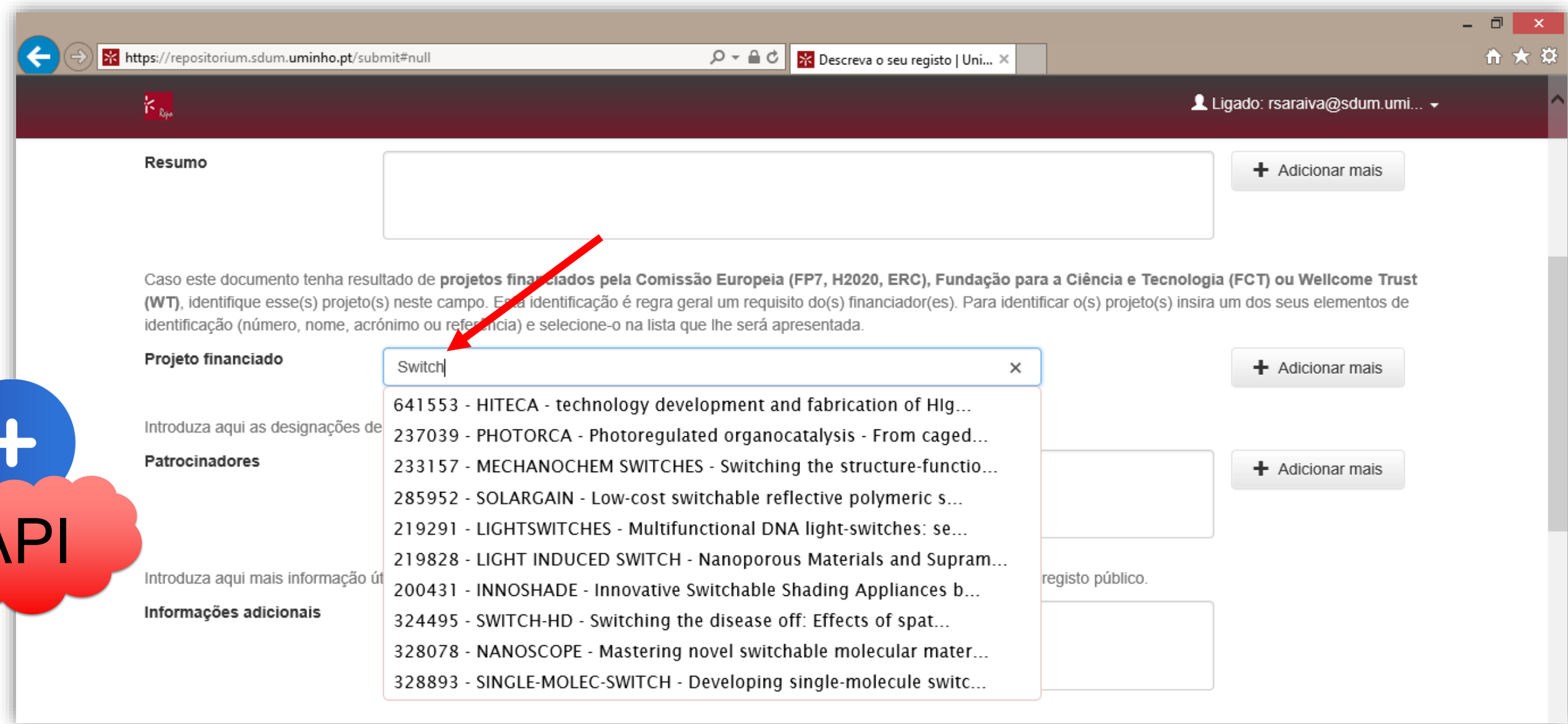
API

e.g. ZENODO

OpenAIRE Funders Projects List

REPOSITORIES DEPOSIT WORKFLOW:

Searching by the name, acronym or the project id number... Select the project and accept



Resumo

Caso este documento tenha resultado de **projetos financiados pela Comissão Europeia (FP7, H2020, ERC), Fundação para a Ciência e Tecnologia (FCT) ou Wellcome Trust (WT)**, identifique esse(s) projeto(s) neste campo. Esta identificação é regra geral um requisito do(s) financiador(es). Para identificar o(s) projeto(s) insira um dos seus elementos de identificação (número, nome, acrónimo ou referência) e selecione-o na lista que lhe será apresentada.

Projeto financiado

Introduza aqui as designações de

Patrocinadores

Introduza aqui mais informação útil

Informações adicionais

Switch

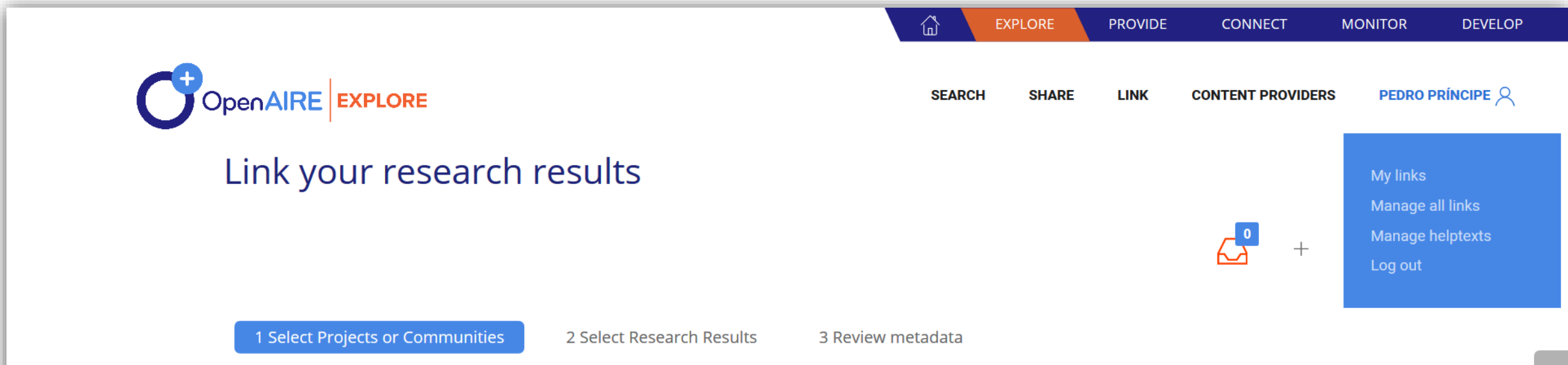
- 641553 - HITECA - technology development and fabrication of Hlg...
- 237039 - PHOTORCA - Photoregulated organocatalysis - From caged...
- 233157 - MECHANOCHEM SWITCHES - Switching the structure-functio...
- 285952 - SOLARGAIN - Low-cost switchable reflective polymeric s...
- 219291 - LIGHTSWITCHES - Multifunctional DNA light-switches: se...
- 219828 - LIGHT INDUCED SWITCH - Nanoporous Materials and Supram...
- 200431 - INNOSHADE - Innovative Switchable Shading Appliances b...
- 324495 - SWITCH-HD - Switching the disease off: Effects of spat...
- 328078 - NANOSCOPE - Mastering novel switchable molecular mater...
- 328893 - SINGLE-MOLEC-SWITCH - Developing single-molecule switc...



Link your research results

*Services for researchers, project
coordinators and research managers*

LINK RESEARCH RESULTS TOOL



Projects (0) Communities (0)

Search for projects


Select funder: Project name or ID

Next >

This screenshot shows the '2 Select Research Results' step. The progress bar now highlights '2 Select Research Results'. The main heading remains 'Link your research results'. The navigation bar at the top is simplified to 'SEARCH', 'SHARE', and 'LINK'. The search section includes a heading 'Search for research results ⓘ' and two input fields: 'in OpenAIRE' and 'Title, doi, author, orcid...'. An orange 'Search' button is to the right. Below this, there is an 'Or' section with a link 'Upload a DOI csv file ⓘ'. Navigation links '< Previous' and 'Next >' are present.

This screenshot shows the '3 Review metadata' step. The progress bar highlights '3 Review metadata'. The main heading is 'Link your research results'. The navigation bar at the top is 'SEARCH', 'SHARE', and 'LINK'. The search section has a heading 'Search for research results ⓘ' and a single input field 'Title, doi, author, orcid...'. An orange 'Search' button is to the right. Below this, there is an 'Or' section with a link 'Upload a DOI csv file ⓘ'. Navigation links '< Previous' and 'Next >' are present. At the bottom, a dashed box contains the text 'You have not selected any research results'.

LINK RESEARCH RESULTS TOOL



SEARCH

Link your research results

1 Select Projects or Communities

2 Select Research Results

3 Review metadata

Next >


Projects (0)

Communities (0)

Search for projects

Select funder: Project name or ID

Next >



SEARCH SHARE LINK CONTENT PROVIDERS

My links

Claim more links?

















! Newly added links for OpenAIRE research results will be available on the next run of our algorithms.
Links to external results (Crossref, Datacite, Orcid) are automatically added in OpenAIRE information space.

Filter By:

Search for keywords in titles ...

☐ Project ☐ Publication ☐ Research Data ☐ Software ☐ Other product ☐ Community

Show Showing 1 to 8 of 8 claims

<input type="checkbox"/>	RESEARCH RESULT	LINK TO	CLAIMED DATE
<input type="checkbox"/>	 Antenna Mutual Coupling Suppression Over Wideband Using Embedded Periphery Slot for Antenna Arrays	 SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:21:53 PM
<input type="checkbox"/>	 Meta-Surface Wall Suppression of Mutual Coupling Between Microstrip Patch Antenna Arrays for THz-Band Applications	 SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:20:17 PM
<input type="checkbox"/>	 A New Low Complexity Angle of Arrival Algorithm for 1D and 2D Direction Estimation in MIMO Smart Antenna Systems	 SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:16:01 PM
<input type="checkbox"/>	 Energy efficiency of network-coding enabled mobile small cells	 SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:05:10 PM
<input type="checkbox"/>	 Wideband Printed Monopole Antenna for Application in Wireless Communication Systems	 SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 11:48:46 AM
<input type="checkbox"/>	 ICSU-WDS & RDA Publishing Data Services WG Interoperability Framework Recommendations	 Open Access Infrastructure for Research in Europe 2020 (European Commission)	Mar 30, 2018 12:03:17 AM
<input type="checkbox"/>	 OpenAIRE2020 - Usage Statistics Services - D8.5	 OpenAIRE - CONNECTing scientific results in support of Open Science (European Commission)	Mar 12, 2018 6:22:49 PM
<input type="checkbox"/>	 The gravitationally consistent sea-level fingerprint of future terrestrial ice loss	 Ice2sea - estimating the future contribution of continental ice to sea-level rise (European Commission)	Apr 14, 2014 12:00:00 AM

Check out this guide!

Guides for OpenAIRE Services

Explore - How to link a publication to your funding

MORE
INFORMATION

WHAT IT DOES

WHAT IT IS

HOW CAN I USE
IT?

What it is

*Linking is a functionality provided by OpenAIRE, in order to **link research results with a project, a research community or other research results** and make the new information available in OpenAIRE information Space.*

When you publish or deposit in **Open Access** you should use a fully [OpenAIRE compatible repository](#). If you don't, use [OpenAIRE Link service](#) afterwards and associate your research results.

The [Link research results service](#) aims to facilitate the creation of proper relations between publications, research data, software and projects in one single place.

You need to be a registered user to perform these tasks and to specifically link a publication to your funded project.



Gather outputs.
View progress and
report. Monitor.

*Services for researchers, project
coordinators and research managers*

Projects: publications and data



FITOPTIVIS

From the cloud to the edge - smart IntegraTion and OPTimization Technologies for highly efficient Image and VIdeo processing Systems (783162)

Project EC Open Access mandate

Funding: H2020 | ECSEL-RIA

Start Date: 2018-06-01

End Date: 2021-05-31

Organization: FUT ABI CAM UTU TAS 7SOLS REX TUT NOKIA HIB UTIA ISR CUNI UWB Universidad de Granada RGB SAT TU Delft UNICA ITI AITEK PHILIPS MEDICAL SYSTEMS NEDERLAND UNIVAQ VISI UNISS UC HURJA BUT TU/e TLV

Detailed project information (CORDIS) →

Publications (0)	+
Research Data (0)	+
Software (0)	+
Other Research Products (0)	+
Statistics	+
Metrics	+

SEARCH SHARE LINK CONTENT PROVIDER

Share - Bookmark



Application Box

Publications Research Data

< > Include in your site (HTML)

≡ Get EC report (HTML)

↓ Get EC report (CSV)

↑ Deposit

Link this project to...



MedAID

Mediterranean Aquaculture Integrated Development (727315)

Project EC Open Access mandate

Funding: H2020 | RIA

Start Date: 2017-05-01

End Date: 2021-04-30

Organization: NVI NIOF CCMAR UBO WU DTU INIA FAO UNIVERSIDAD DE MURCI UCPH IFREMER HVI UEDIN INSTM UC AVDELAS L NISEA PDS IZSve AZTI WUR Azienda Ittica VETEAU IRTA DIBAQ CIR EGE SNF NOFIMA UNIBO HCMR GMF AU IAMZ - CIHEAM

Detailed project information (CORDIS) →

Publications (0)	+
Research Data (0)	+
Software (0)	+
Other Research Products (0)	+
Statistics	+
Metrics	+

Projects: publications and data



EMF-aware cell selection in heterogeneous cellular networks

Article English OPEN

De Domenico, Antonio ; Díez Fernández, Luis Francisco ; Agüero Calvo, Ramón ; Kténas, Dimitri ; Savin, Valentin (2015)

Publisher: Institute of Electrical and Electronics Engineers Inc.

Related identifiers: [doi: 10.1109/LCOMM.2014.2385094](https://doi.org/10.1109/LCOMM.2014.2385094)

Subject: HetNets | EMF | Load balancing | Cell selection

The growing concern on the exposure of users to the electromagnetic field (EMF) has recently brought new challenges to the mobile research community. In this letter, we propose a novel cell association framework for heterogeneous cellular networks (HetNets), which aims to balance the load amongst heterogeneous cells so as to improve the resource usage and to increase the user satisfaction in terms of both data rate and EMF exposure. We model the cell selection problem as a General Assignment Problem (GAP) and we present two heuristic algorithms, which solve it with limited complexity. Our analysis shows that the proposed solutions lead to notable improvements with respect to legacy association schemes. This papers reports work undertaken in the context of the project LEXNET. LEXNET is a project supported by the European Commission in the 7th Framework Programme (Grant Agreement n. 318273).

[Similar Research Results \(2\)](#)



SEARCH SHARE LINK CONTENT PROVIDERS

Share - Bookmark



Download from

[UCrea via UCrea](#) (Article, 2015)

[Institute of Electrical and Electronics Engineers Inc.](#) ?

Funded by

[EC | LEXNET](#)

Cite this publication

select a citation style

[Link this publication to...](#)



CONTREX: Design of embedded mixed-criticality CONTROL systems under consideration of EXtra-functional properties

Article English EMBARGO

Grüttner, Kim ; Görgen, Ralph ; Schreiner, Sören ; Herrera Casanueva, Fernando ; Peñil del Campo, Pablo ; Medina Pasaje, Julio Luis ; Villar Bonet, Eugenio ; Palermo, Gianluca ; Fornaciari, William ; Brandolese, Carlo ; Gadioli, Davide ; Vitali, Emanuele ; Zoni, Davide ; Bocchio, Sara ; Ceva, Luca ; Azzoni, Paolo ; Poncino, Massimo ; Vinco, Sara ; Macii, Enrico ; Cusenza, Salvatore (2017)

Publisher: Elsevier

Related identifiers: [doi: 10.1016/j.micpro.2017.03.012](https://doi.org/10.1016/j.micpro.2017.03.012)

The increasing processing power of today's HW/SW platforms leads to the integration of more and more functions in a single device. Additional design challenges arise when these functions share computing resources and belong to different criticality levels. CONTREX complements current activities in the area of predictable computing platforms and segregation mechanisms with techniques to consider the extra-functional properties, i.e., timing constraints, power, and temperature. CONTREX enables energy efficient and cost aware design through analysis and optimization of these properties with regard to application demands at different criticality levels. This article presents an overview of the CONTREX European project, its main innovative technology (extension of a model based design approach, functional and extra-functional analysis with executable models and

SEARCH SHARE LINK CONTENT PROVIDERS

Share - Bookmark



Download from

[UCrea via UCrea](#) (Article, 2017)

[Elsevier](#) ?

Funded by

[EC | CONTREX](#)

Cite this publication

select a citation style

[Link this publication to...](#)




**PROJECT
PUBLICATIONS
AND DATASETS**



Automatically




EC's participant portal

**Grant Management**

Project Continuous Report

643410 (OpenAIRE2020) RIA

**HORIZON 2020**

Call: H2020-EINFRA-2014-2015
Topic: EINFRA-2-2014 Unit: CNECT/C/01

Publishable Summary

Deliverables

Milestones

Critical Risks

Publications

Patents (IPR)

Gender

Publications ⓘ

☐ This project does not currently have any scientific publication

Suggested publications from OpenAIRE (9 publications) ⓘ

No.	Type	Title	Authors	Title of the Journal/Proc./Book	Date of Acceptance	DOI
1	Other	Establishing of a Slovenian open access infrastructure	Hrovat, Goran; Kotar, Mojca; Ferme,		24/12/2015	10.1108/PROG-02-2014-000
2	Article	Semantic Publishing Challenge - Assessing the Quality of Scier	Dimou, Anastasia; Vahdati, Sahar; Di		25/08/2015	
3	Article	Mapping Large Scale Research Metadata to Linked Data: A Pe	Vahdati, Sahar; Huang, Jyun-Yao; Ka		12/06/2015	
4	Article	Structured Affiliations Extraction from Scientific Literature	Bolikowski, Łukasz; Tarnawski,		01/01/2015	
5	Article	CERMINE: automatic extraction of structured metadata fron	Dendek, Piotr Jan; Szostek, Pawe&#		01/01/2015	

Project publications (12 publications) ⓘ

No.	Type	Title	Authors	Title of the Journal/Proc./Book	Number, date or freq. of the Journal/Proc./Book	DOI
1	Article in Joi	OpenAIRE: Supporting a European open access mandate	Najla Rettberg and Birgit Schmidt	College & Research Libraries News	Vol.76 No.6	
2	Publication i	Aligning Repository Networks and the Confederation of Open	Kathleen Shearer	INFLIBNET's Convention Proceedings		
3	Article in Joi	Reaching Out to Global Interoperability through Aligning Repi	Kathleen Shearer, Katharina Mueller,	New Avenues for Electronic Publishing in the Age		10.3233/978-1-61499-562-3-
4	Article in Joi	The OpenAIRE2020 FP7 Post-Grant Open Access Pilot: Implem	Pablo de Castro	Information Services & Use		
5	Article in Joi	CERMINE: automatic extraction of structured metadata fron	Dominika Tkaczyk, Paweł Szostek, M	International Journal on Document Analysis and I	18/4	10.1007/s10032-015-0249-8
6	Article in Joi	Structured Affiliations Extraction from Scientific Literature	Dominika Tkaczyk, Bartosz Tarnawsl	D-Lib Magazine	21/11/12	10.1045/november2015-tkacz
7	Publication i	On bridging data centers and publishers: the data-literature	Burton Adrian	MTSR 2015 - 9th Metadata and Semantics Resear		
8		Mapping Large Scale Research Metadata to Linked Data: A Pe	SaharVahdati	Communications in Computer and Information Sc	544	
9	Publication i	OpenCourseWare observatory - does the quality of OpenCou	Sahar Vahdati, Christoph Lange, Sör	Proceedings of the Fifth International Conferenc		10.1145/2723576.2723605
10	Article in Joi	Semantic Publishing Challenge - Assessing the Quality of Scier	Christoph Lange	Communications in Computer and Information Sc		

**RESEARCH & INNOVATION**
Participant Portal - Grant Management Services

MY PROJECT
**HORIZON 2020**
Call: H2020-EINFRA-2014-1
Type of Action: RIA
Acronym: OpenAIRE2020
Current Phase: Grant Management
Number: 643410
Duration: 42 months
Start Date: 01 Jan 2015
Estimated Project Cost: €13,132,500.00
Requested EU Contribution: €13,000,000.00
Contact: [Pilar OCON GARCES](#)

[Latest Legal Data](#)
[Process List](#)
[Document Library](#)
[Communication Center](#)

[H2020 ONLINE MANUAL](#)
[HOW TO](#)

Continuous or Final Reporting

Check out this guide!



Guides for OpenAIRE services

Explore - How to report your publication and data to the EC

WHAT IT IS

What it is

HOW CAN I USE IT?

*Linking is a functionality provided by OpenAIRE, in order to **link research results with a project, a research community or other research results** and make the new information available in OpenAIRE information Space.*

WHAT IT DOES

NEED MORE INFORMATION?

OpenAIRE is the authoritative source to the European Commission for H2020 projects, so deposit once and OpenAIRE will facilitate the posting of your publications and they will automatically appear in the [EC Research Participant Portal](#) (SylMa).

OpenAIRE services support guides









www.openaire.eu/zenodo-guide

www.openaire.eu/reporting-to-the-ec

www.openaire.eu/claim-publication

Support Resources

www.openaire.eu/support

 Primers Getting started on Open Science good practices www.openaire.eu/os-primers	 Guides Howto's on practicing Open Science and on using OpenAIRE services www.openaire.eu/guides
 Factsheets Quick references on Open Science in H2020 topics www.openaire.eu/openaire-h2020-factsheets	 FAQs Quick answers to Open Science practices and OpenAIRE services issues www.openaire.eu/faqs
 Use cases of OpenAIRE services for different stakeholders www.openaire.eu/use-cases	 Webinars Training on Open Science topics www.openaire.eu/frontpage/webinars

How to practice open science

Open Access Basics

An Open Access primer to get you started

An RDM Handbook

A primer on managing your research data

Guides on policies and services

Howto's on practicing open science and using OpenAIRE services

Factsheets

Quick references on open science topics for researchers, administrators, funders, etc.

Helpdesk

FAQs

Find your answers

Ask a question

Let us help you in all issues concerning open science

Training

Webinars

View our pending webinars and past recordings

Workshops

on various Open Access and Open Science topics



Open Access to Publications in Horizon 2020

Questions?

antoniacorreia@sdum.uminho.pt; pedroprincipe@sdum.uminho.pt

