



# OpenAIRE: a pillar for Open Science in the EU

*Horizon2020 GRACIOUS Live Webinar*



**gracious**

[www.h2020gracious.eu](http://www.h2020gracious.eu)

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## About the Webinar

### Speaker

**Elli  
Papadopoulou**

OpenAIRE National Open  
Access Desk for Greece  
ATHENA Research &  
Innovation Center

### Moderator

**Stella  
Stoycheva**

Stakeholder Engagement and  
Dissemination Manager for  
GRACIOUS  
Yordas Group

### What and Why?

- ✓ Reporting obligations under Horizon2020
  - ✓ GRACIOUS Data Management Plan and Reporting Policy
  - ✓ Links with other Horizon2020 Projects
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## Housekeeping



- **Live webinar**
- **Attendees are muted**
- **Q&As: you can ask questions via the Chat field**
- **Follow up activities:**
  - ✓ **Webinar recording will be published on <https://www.h2020gracious.eu/library/webinars>**
  - ✓ **Follow up email**
  - ✓ **Contact us at:**

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*For all other or general enquiries about OpenAIRE*

**Elli Papadopoulou (for all enquiries) | [elli.p@imis.athena-innovation.gr](mailto:elli.p@imis.athena-innovation.gr)**

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[www.openaire.eu](http://www.openaire.eu)



Stella Stoycheva, Yordas  
Elli Papadopoulou, ATHENA RC, OpenAIRE NOAD for Greece

# OpenAIRE: a pillar for Open Science in the EU



@openaire\_eu



# Contents



## Open Science in the EU

What are the elements of OS, why choosing OS/ importance for OA and RDM



## OA publications, data and DMPs – what you need to know

How to perform research following open practices; comply with EU requirements for OA and what to include in DMPs



## OpenAIRE Services and the National Open Access Desks (NOADs)

OpenAIRE scope and mission; OpenAIRE services for researchers; who are the NOADs, what is their responsibility, where are they positioned in the national ecosystem



## Learn how to comply

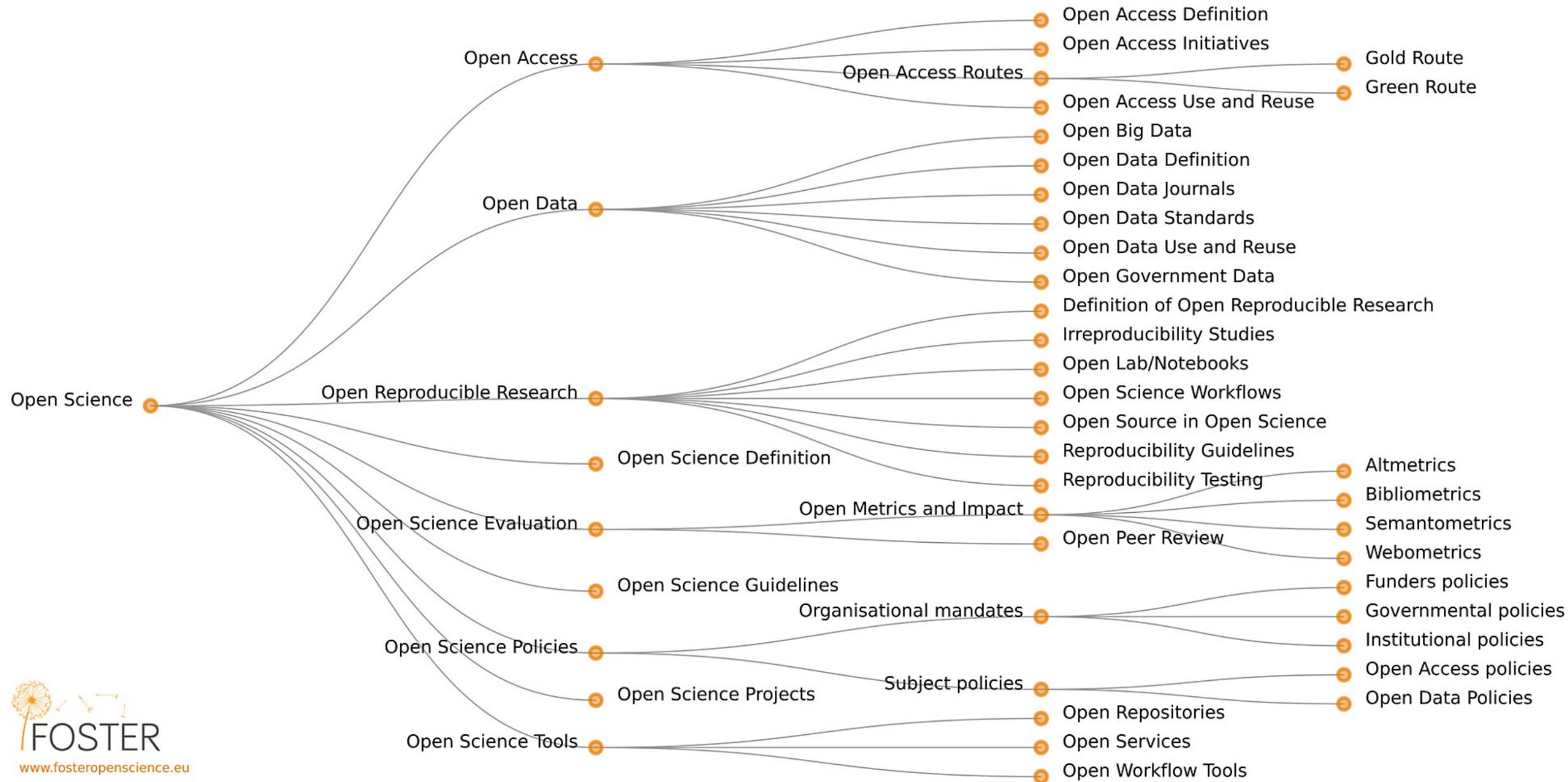
How to perform reporting to the EU via OpenAIRE



# Open Science in the EU

# What is Open Science?

## Open Science Taxonomy



# Why choosing Open Science?

## Research

- Reach wider audience
- Re-use research outputs
  - Validate research
  - Avoid mistakes
- Prevent information and data loss

## Economy

- Stimulate innovation
- Strengthen regional and national markets
  - New job openings

## Researchers

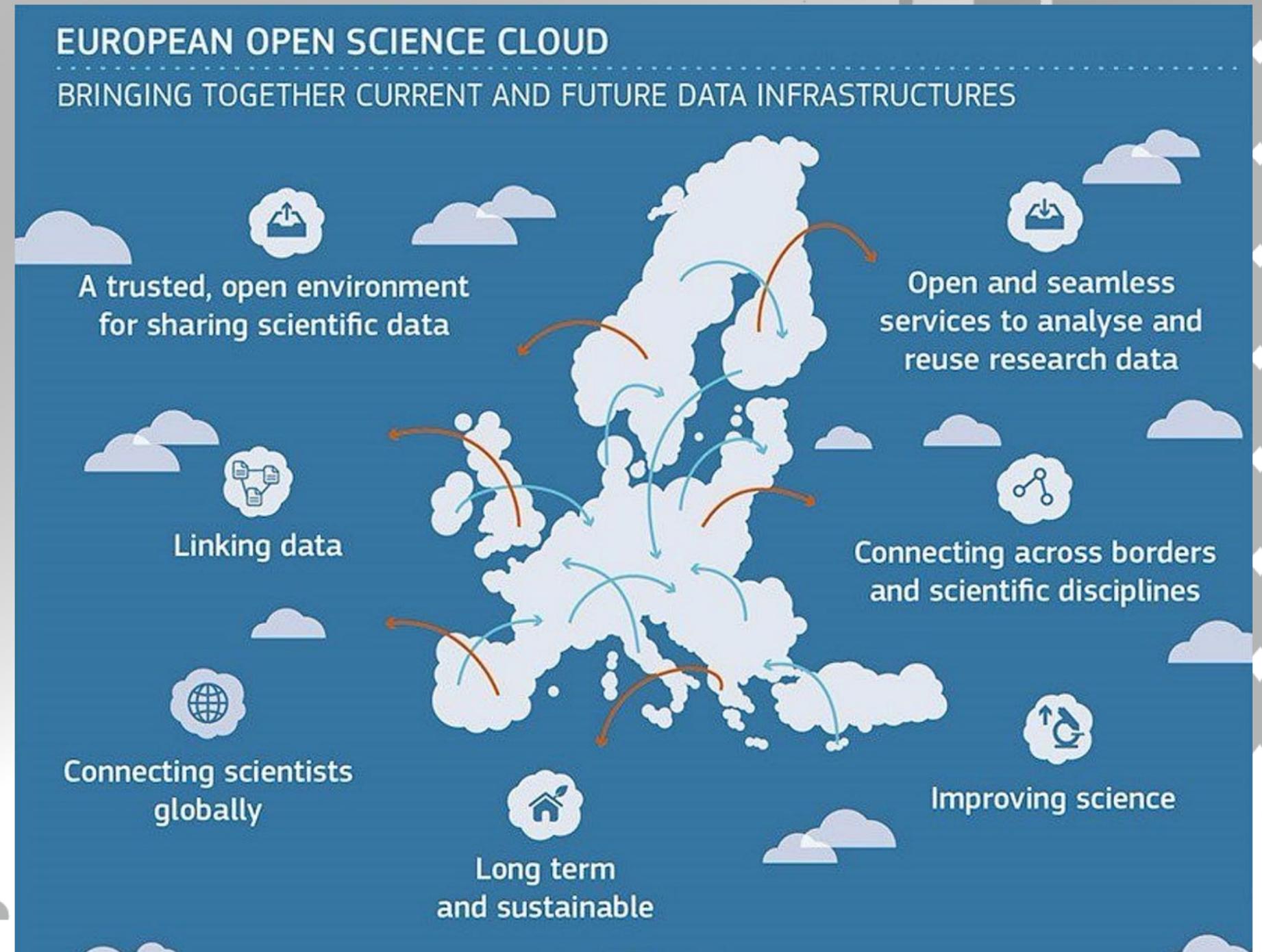
- Promote integrity
- Increase use of citations and get more credits
- Rewards in the EOSC

## Society

- Transparency
- Build trust
- Collaboration on national and EU level
- Citizen Science

# What is the European Open Science Cloud (EOSC)?

- European Cloud Initiative (ECI) - Part of the Digital Single Market and the European Research Area (ERA) strategies
- An **ethical, open, secure** and **cost-effective** environment to support Open Science practices and research communication in the EU
- Upcoming! EOSC launch on 23 November



# EU requirements for OA to publications and data

## *The Mandate*

Article 29.2 Horizon2020 Grant Agreement  
– Publish in OA, deposit data and submit a DMP (check embargo periods- around 24 months for material science)

“As open as possible, as closed as necessary”, following the FAIR principles and well-documented processes of data handling and re-use

## *The Motto*

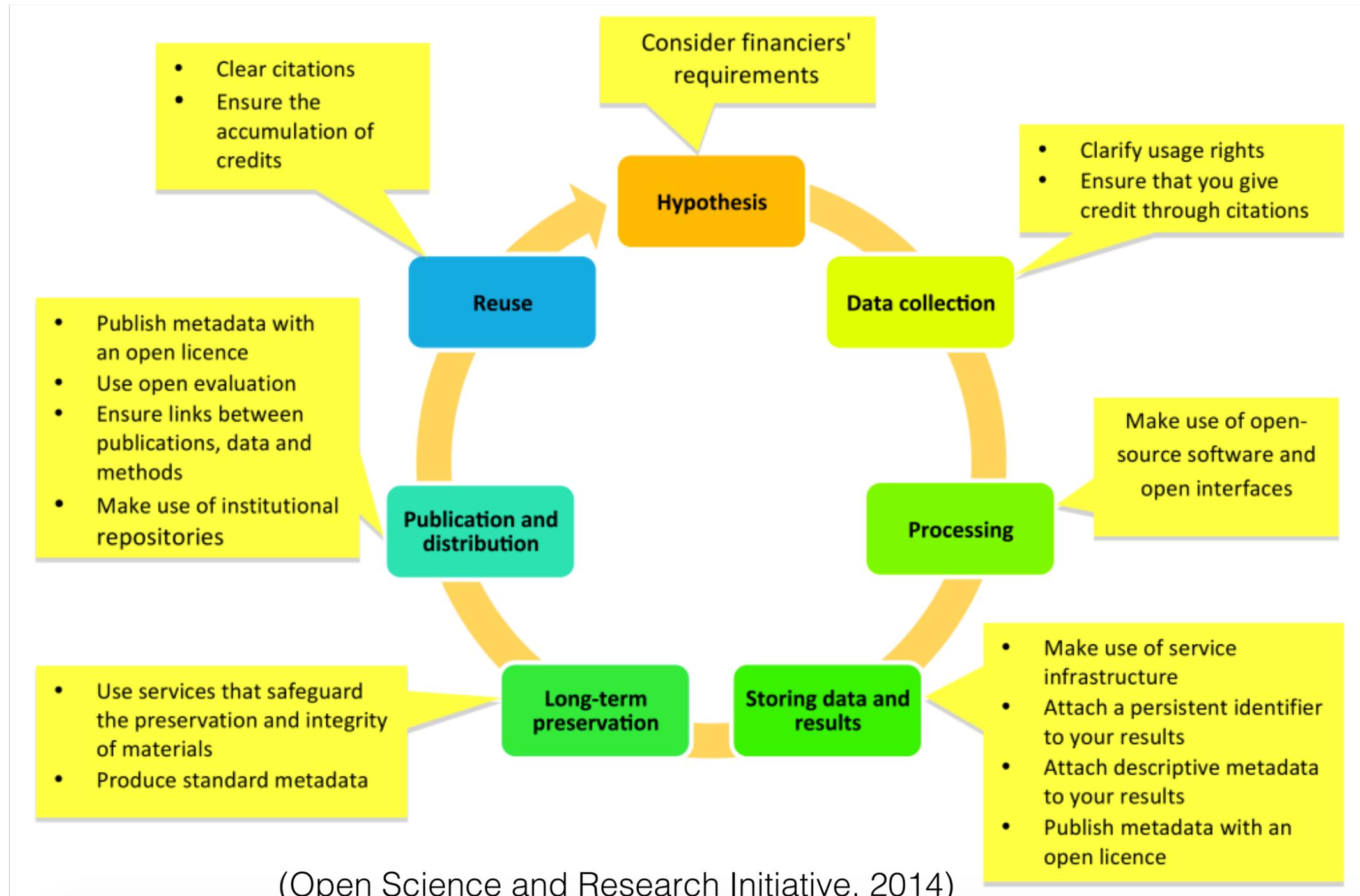


**Next funding framework - HorizonEurope ->  
Open Science the modus operandi**



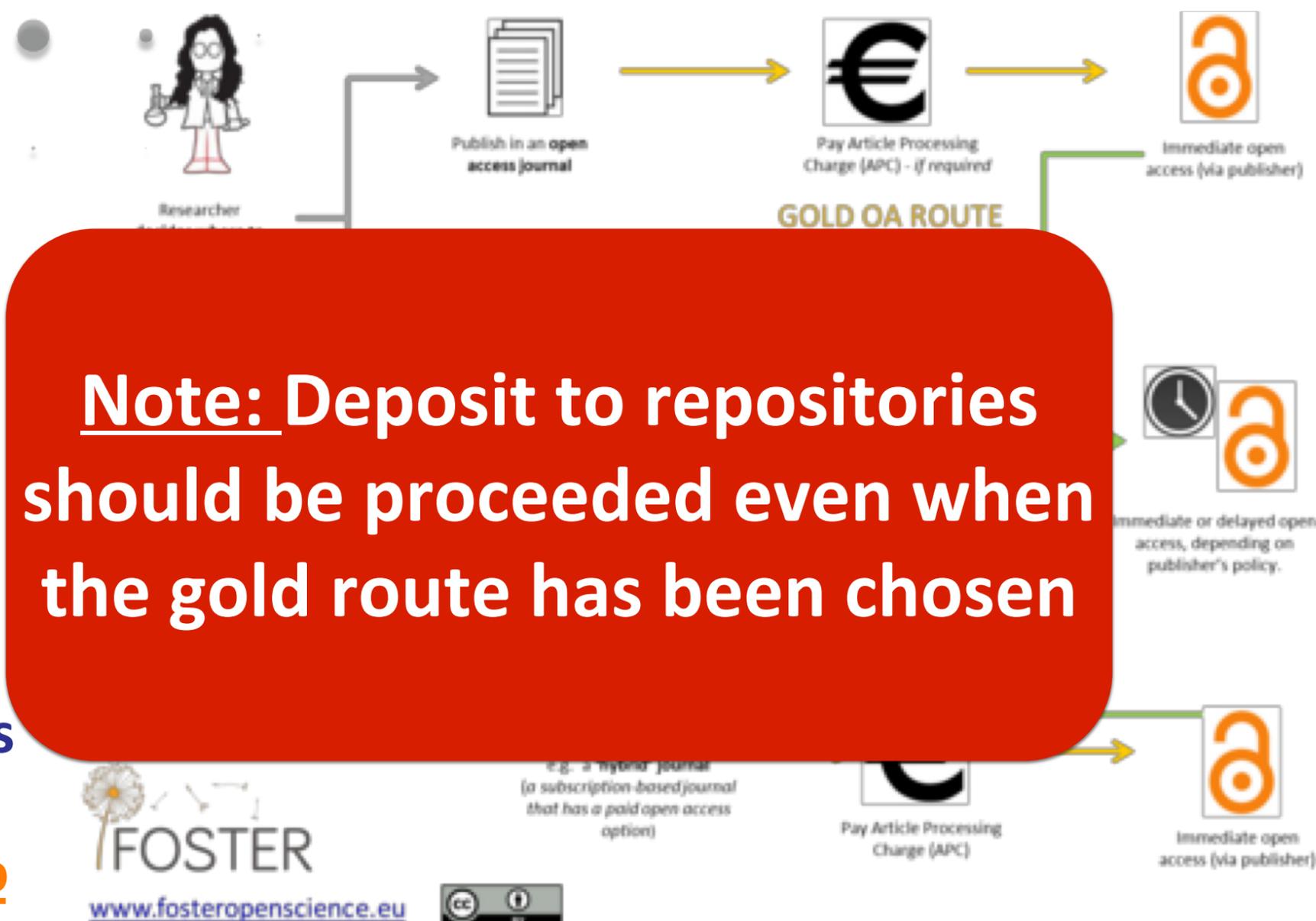
# OA publications, data & DMPs – what you need to know

# Open Science practices in the research lifecycle

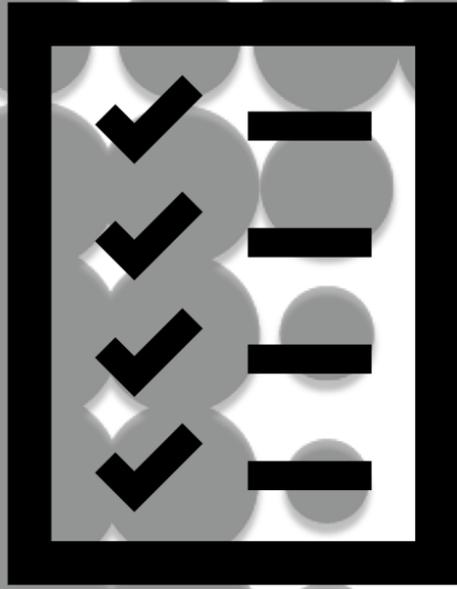


# Open Access to publications and research data

- Publish in OA
  - **Gold route** ([DOAJ](#), subscription-based journal)
  - **Green route** (self-archiving)
- Deposit research outcomes in an institutional repository
  - Find literature repositories – [openDOAR](#)
  - Find data repositories – [re3data](#)
  - Find OpenAIRE compliant repositories <https://explore.openaire.eu/>
  - Deposit all research outputs - [Zenodo](#)



# What to deposit - things to consider



- The final peer-reviewed manuscript, accepted for publication, including all modifications from the peer review process  
OR
- A machine-readable copy of the published version (usually a .pdf document)
- Find information on APCs per journal on the [Open APC project](#)
- Check the [publisher's OA policy](#) for conflicts and for embargoes in depositing
- What to do in case of journal policies conflicts
  - Contact the publisher
  - Sign the petition?
- Assign open licenses through <https://creativecommons.org/> ; license selector: <https://www.eudat.eu/services/userdoc/license-selector>
- Acknowledge funders

# Data Management Planning – things to consider

## Additional concepts to cover

- Type of data: what has been used or generated (e.g. software) during research process and support/validate its outcomes
- Format of data: one format for analysis and then convert to a standard format (more sustainable: .rtf, .xml, .tif, .wav; proprietary: .doc, .jpg, .mp3)
- Metadata: use metadata standards – for material science [CIF](#), [CSMD-CCLRC](#), [NeXus](#)
- Persistent Identifiers (PIDs): a long lasting reference to a document, file or other object - many repositories will assign them in deposit

# Achieving FAIR compliance

Information and data is

**Findable** by both humans and machines: PIDs, rich metadata, included in a searchable resource

**Accessible** through repositories and access conditions: retrievable by their ID using standard protocol, metadata remain accessible even if data don't

**Interoperable** with other systems and technologies: standard vocabularies, qualified references

**Re-usable** by others: metadata, licenses, provenance



# The OpenAIRE mission, services for Open Science & National Open Access Desks (NOADs)

# What is OpenAIRE?

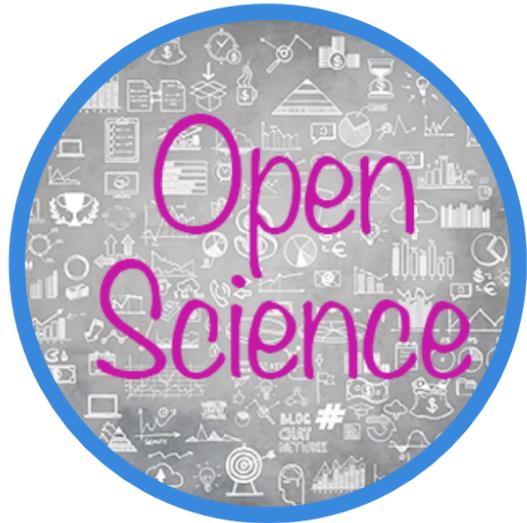
*The pan European infrastructure for open knowledge in the EU*

- *How does OpenAIRE help comply with the EU requirements?*
- **Tools** for Open Science
- **Repository Network**
- **Dashboards** for repository managers, funders and research communities **to manage and monitor processes**

*OpenAIRE is about opening-sharing-re-using research outcomes*

- **Human network**

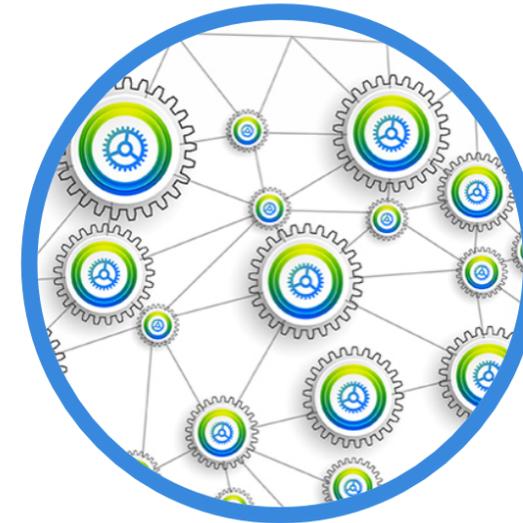
# Key to Open Science uptake: **services for all**



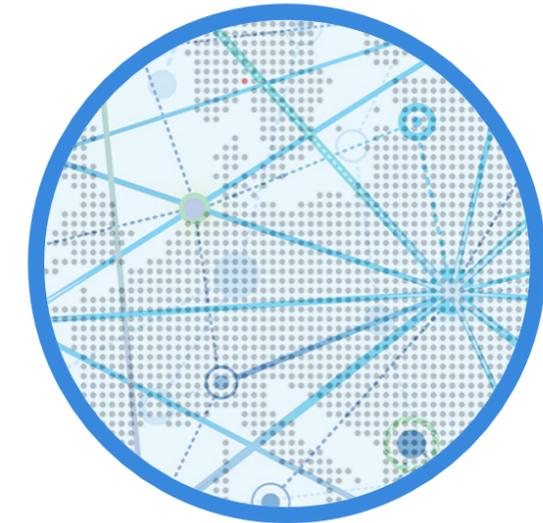
**RESEARCHERS &  
RESEARCH  
COMMUNITIES**



**CONTENT  
PROVIDERS  
MANAGERS**



**FUNDERS &  
RESEARCH  
ADMINISTRATORS**



**3rd party  
SERVICE  
PROVIDERS**

Services at all levels of e-Infrastructure.  
Services that cover all research life-cycle.

Dashboards for funders, content providers,  
research communities and institutions.

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# Services for researchers

# Zenodo

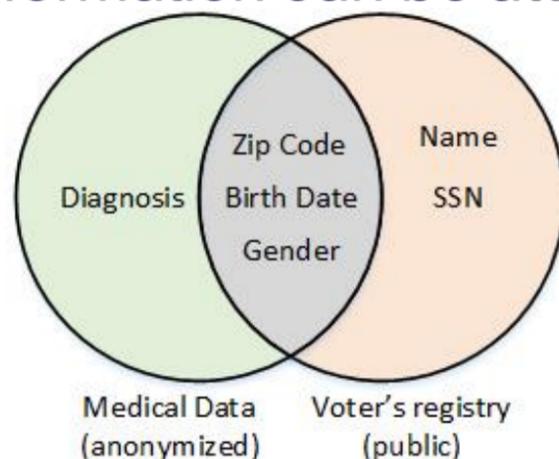
- Catch-all repository for EU-funded research
- Up to 50 GB per upload
- Data stored in the CERN Data Center
- Persistent identifiers (DOIs) for every upload, with DOI versioning
- Includes article-level metrics
- Free for the long tail of science
- Open to all research outputs from all disciplines
-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



Browse the repository here: <https://zenodo.org/>

# Amnesia: making personal data shareable

- Micro data often reveal important private information, e.g., medical condition of a person
  - Individuals are afraid to provide their data
  - Companies are afraid to share data with experts
  - GDPR makes a strict protection scheme obligatory
- The key idea in anonymization is that identifying information is removed from the published data, so no sensitive information can be attributed to a person – not even after data linking



- The aim of anonymization methods is to allow sharing such data, without compromising the privacy of the users.

# Data Management Plan (DMP) Tool

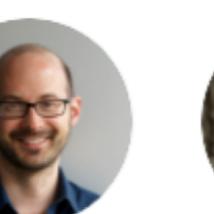
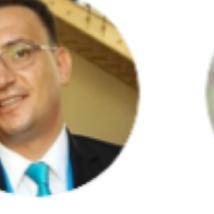
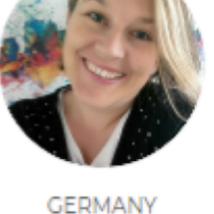
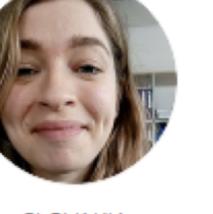
- EC Horizon2020 template
- Machine-actionable DMPs
- Versioning of DMPs
- Collaborate with others (invite)



... coming soon!



# National Open Access Desks (NOADs)

 AUSTRIA GERDA MCNEILL <a href="#">MORE</a>	 BELGIUM INGE VAN NIEUWERBURGH <a href="#">MORE</a>	 BULGARIA PETER STANCHEV <a href="#">MORE</a>	 BULGARIA GEORGI SIMEONOV <a href="#">MORE</a>	 ICELAND ANNA SIGRÍÐUR GUÐNADÓTTIR <a href="#">MORE</a>	 IRELAND NIAMH BRENNAN <a href="#">MORE</a>	 IRELAND ASHLING HAYES <a href="#">MORE</a>	 ITALY PAOLA GARGIULO <a href="#">MORE</a>	 SPAIN PILAR RICO CASTRO <a href="#">MORE</a>	 SWEDEN BEATE EELLEND <a href="#">MORE</a>	 SWITZERLAND ANDRE HOFFMANN <a href="#">MORE</a>	 THE NETHERLANDS JUST DE LEEUWE <a href="#">MORE</a>
 CROATIA JADRANKA STOJANOVSKI <a href="#">MORE</a>	 CYPRUS SYLVIA KOUKOUNIDOU <a href="#">MORE</a>	 CZECH REPUBLIC DANIELA TKACIKOVA <a href="#">MORE</a>	 DENMARK ASGER VAERING LARSEN <a href="#">MORE</a>	 LATVIA GITA ROZENBERGA <a href="#">MORE</a>	 LITHUANIA GINTARE TAUTKEVICIENE <a href="#">MORE</a>	 LUXEMBURG JONATHAN ENGLAND <a href="#">MORE</a>	 FYR OF MACEDONIA TAMARA RESAVSKA <a href="#">MORE</a>	 THE NETHERLANDS ELLY DIJK <a href="#">MORE</a>	 TURKEY GULTEKIN GURDAL <a href="#">MORE</a>	 UNITED KINGDOM FRANK MANISTA <a href="#">MORE</a>	
 DENMARK ANNE THORST MELBYE <a href="#">MORE</a>	 ESTONIA ANNELI SEPP <a href="#">MORE</a>	 FINLAND PAULI ASSINEN <a href="#">MORE</a>	 FRANCE ANDRE DAZY <a href="#">MORE</a>	 MALTA KEVIN ELLUL <a href="#">MORE</a>	 NORWAY JENS AASHEIM <a href="#">MORE</a>	 POLAND MARTA HOFFMAN-SOMMER <a href="#">MORE</a>	 PORTUGAL PEDRO PRINCIPE <a href="#">MORE</a>				
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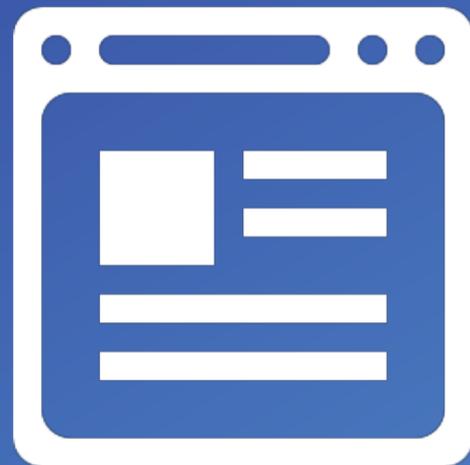
# 34 National Open Access Desks



**OUTREACH**  
 Project Coordinators  
 Researchers  
 National Funders  
 Administrators



**ALIGNMENT**  
 Infrastructure  
 Repositories  
 Policies



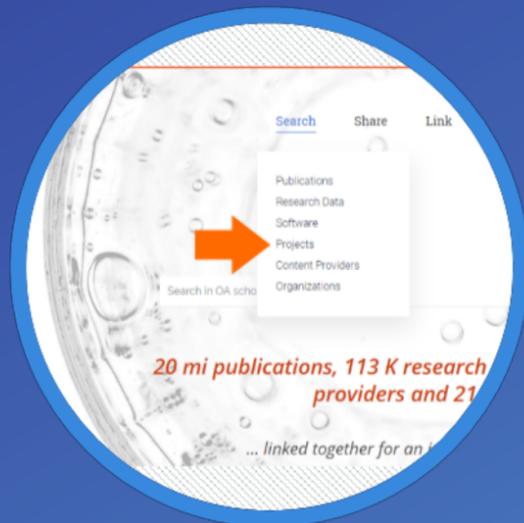
**PROMOTION**  
 Open Science  
 Open Access  
 FAIR Research Data  
 OpenAIRE Services

**NOADs**

National  
 Workshops



**SUPPORT**  
 Workshops  
 Training  
 Facilitators

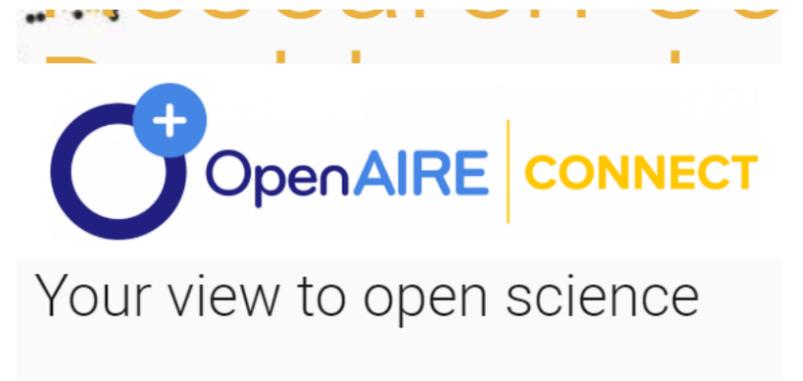


# Learn how to comply

# Report and link your research outputs through OpenAIRE

## Reporting in OpenAIRE:

- a. Immediately through Zenodo
- b. After few days through all other OpenAIRE compliant repositories -> check the [OpenAIRE Explore](#)
- c. Manually through the [OpenAIRE connect](#)



# Useful Links

- OpenAIRE Helpdesk: <https://www.openaire.eu/support/helpdesk>
- OpenAIRE NOADs: <https://www.openaire.eu/contact-noads>
  
- OpenAIRE Factsheets: <https://www.openaire.eu/openaire-h2020-factsheets>
- OpenAIRE Research Community Dashboard: <https://connect.openaire.eu/>
- OpenAIRE webinars:  
[https://dl119.madgik.di.uoa.gr/index.php?option=com\\_zoo&view=frontpage&layout=frontpage&Itemid=1888](https://dl119.madgik.di.uoa.gr/index.php?option=com_zoo&view=frontpage&layout=frontpage&Itemid=1888)

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Questions?

# Thank you!



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