



Open Science Training Coordinators

Community of Practice

www.openaire.eu/cop-training

Horizon Europe train-the-trainer workshop

Open Science FAIR, 22 September 2021, 09.30-11.00 CEST

For introductions we will use menti later, you can already go to the correct location for it: www.menti.com for voting code: **8548 4402**

...sharing, collaborating, contributing, coordinating



Open Science Training Coordinators

Community of Practice

www.openaire.eu/cop-training

Owned and driven by members...

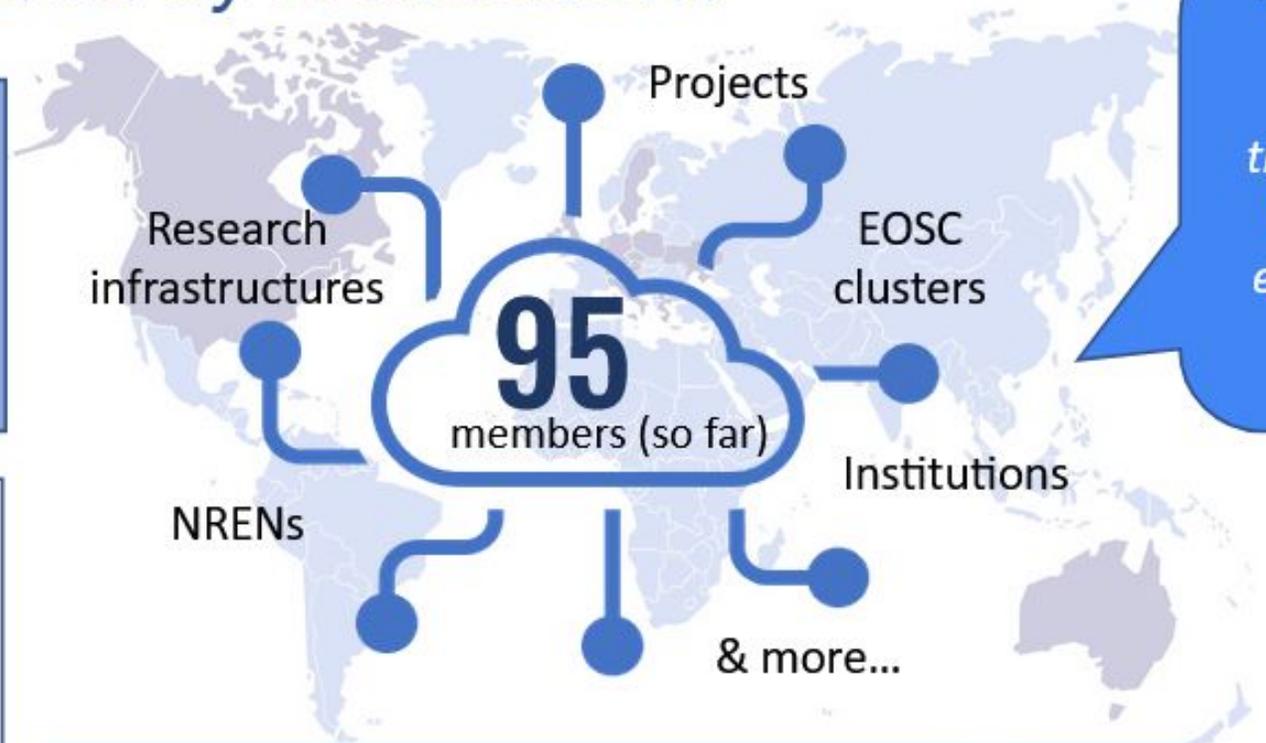
Set up in
2018



Slack channel



Google Group



"The CoP can be regarded as a discipline transcending network of trainers and training organisers. We have built a community. We are exchanging information and best practices."
CoP member, 2020



36 monthly meetings



77 pages of notes!



7 events





Open Science Training Coordinators Community of Practice

www.openaire.eu/cop-training

GDPR and training

How to organize GDPR compliant online events

★★★★★
0.0/5 rating (0 votes)

SHARE

Date(s): 28 October

The OpenAIRE Com
webinar and collab

Prodrmos Tsiavos
OpenAIRE) provide
Informationsmode
about the Consent
how to make sure t
protected. It cover
event (registration,
how to inform cor

zenodo

April 3, 2020

Workshop report "Training in the EOSC"

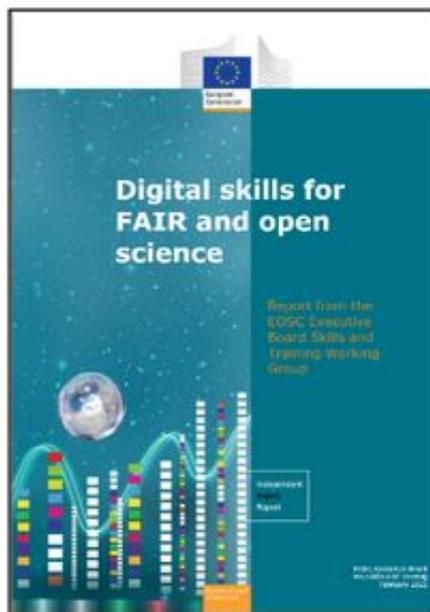
Marjan Grootveld, Ellen Leensart, Ilona von Steir, Cees Hof, Giuseppe La Rocca, Iryna Kuchnia, Pedro Principe, Alessi Belcotaerovsky, Rane Belsa, Thibaud Cayla, Helen Clare, Gerard Coen, Ingrid Dilto, Irelia Fava, Vincent Favre-Noolin, Sonja Filiposka, Gwen Franco, Celia van Gelder, Felix van Gelderen, Lowri Harris, Maggie Hellström, Frans Hulgers, Vessio Kallisto, Mateusz Kuzak, Frances Maddox, Ivan Martin Hernandez, Irina Mikhailova, Marcin Plocieniak, Páivi Rauste, Roy Rodriguez, Hugh Shanahan, Ferasatib Tóth-Czifra, Inna Vjivic, Brvar, Angus Whyne, Tatiana Yankelovich, Katerina Zouros

This document "TrainingInTheEOSC_WorkshopReport_01.00.pdf" is the output of a three-day workshop on Training in the EOSC, 26-28 February 2020, The Hague, The Netherlands. The workshop was organised by DANB in collaboration with EUDAT, EGI and OpenAIRE. It provides recommendations regarding Rules of Participation for training as well as recommendations regarding practical guidance for training service providers.

As an additional workshop output the file

Blog post

Workshop report & recommendations



EOSC Skills & Training
WG Report

EOSC Skills & Training WG Recommendations - Training Coordinators CoP mapping to existing activities			
Recommendation	Theme	Activity	Activity
1. Utilise the Framework of Actors in the EOSC Ecosystem in the development of initiatives, skills, training, reward and recognition frameworks and career paths necessary to support further development and mainstreaming of FAIR and open science.	Utilise Framework of Actors	EOSC Association - Task Force Data stewardship curricula and career paths	EOSC Association - Task Force Research careers, recognition and credit
2. Coordinate and align relevant skills curricula and training frameworks by generating a consensus on a core European higher education curriculum to deliver FAIR and open science skills at university level.	Coordination and alignment of curricula	EOSC Future - Task 9.1.2 Cross-domain EOSC Training alignment and EOSC wide training infrastructure (EOSC focus only)	FAIRsFAIR - WP6 FAIR competences
3. Encourage and support the competence centres approach as a framework for increasing coordinated provision of aligned training to support FAIR and open science.	Competence centres	FAIRsFAIR - WP6 Competence Centre and WP7 FAIR data science curricula and professionalisation	EOSC Association - Task Force Upskilling countries to engage in EOSC
4. Facilitate increased integration of FAIR and open science courses with university qualifications	Integration of FAIR & OS into curricula / qualifications	EOSC Synergy - WP6 Task 6.3 Embedding training resources in national education programmes	FAIRsFAIR - WP7 FAIR data science curricula and professionalisation

Mapping member activities
to EOSC report
recommendations

...sharing, collaborating, contributing, coordinating



Workshop programme

9.30 - 9.40 Welcome & introduction

www.menti.com : **8548 4402**

9.40 - 10.20 Lightning talks

Alea Lopez de San Roman – Open Science in Horizon Europe

Dagmar Meyer – Open Science in Horizon Europe: ERC

Emilie Hermans: practical guidelines in Ghent University

Ellen Leenarts: Open Science & RDM community building and support activities

10.20 - 10.50 Break-out session: exchange of approaches on 3 subjects

Open Access to publications

Research Data Management

Open Science in the evaluation of proposals

10:50 – 11:00 Wrap up

Shared notes: https://docs.google.com/document/d/15mtc6Q3Y6NK5rH8yZnXiEWd7pV0tuJ-EX6d_mTJh4F0/edit?usp=sharing



Open Science in Horizon Europe

Alea López de San Román
Open Science unit, DG R&I, European Commission

*Horizon Europe Train-the-Trainer Workshop
September 22, 2021*

Main novelties in Horizon Europe

- **Rationale and scope:** move from open access to open science with a broadened scope of policy; open science comprises open science practices
- **Evaluation:** open science under excellence (not impact); practices beyond mandatory incentivized through evaluation; publications evaluated on basis of qualitative assessment provided (not Journal Impact Factor)
- **Intellectual Property Rights:** requirement to maintain enough rights to meet open access requirements to publications
- **Publications:** Immediate open access (=no embargo); only publication fees in full open access venues are reimbursable (=no hybrids)
- **Research data:** research data management (including data management plans) mandatory for all projects generating and/or reusing data; open access 'as open as possible as closed as necessary'
- **Qualified open access to research outputs:** specific licenses and technical standards for digital objects to enable FAIR; trusted repositories
- **Reproducibility of research:** information for validation of publications and for validation and reuse of data required; access for validation of publications must be provided (while legitimate interests safeguarded)
- **Open science and public emergencies:** immediate open access to all research outputs (non-exclusive licenses under fair and reasonable conditions to the relevant legal entities if open access not possible)

Evaluation of proposals and Open Science

“Excellence” criterion (methodology)

- Evaluation of the quality of open science practices
- E.g. 1 page to describe Open Science practices + 1 page to describe research data/output management [RIA, IA]

“Quality and efficiency of implementation” criterion

(capacity of participants and consortium as a whole + list of achievements)

- Explain expertise on Open Science
- List publications, software, data, etc, relevant to the project with qualitative assessment and, where available, persistent identifiers

Publications are expected to be open access; datasets are expected to be FAIR and ‘as open as possible, as closed as necessary’. **Significance of publications to be evaluated on the basis of proposers’ qualitative assessment** and not per Journal Impact Factor

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

NB on evaluation !

- Evaluation concerns mandatory and recommended open science practices
- Mandatory open science practices: score will be lowered for not sufficiently addressing them unless duly justified they are not appropriate for the project (e.g. no publications or generation of research data)
- Recommended open science practices: no impact on score if not addressed but score will be increased if sufficiently addressed (they serve as an incentive)
- All Work Programmes, except for the ERC, evaluate open science practices as outlined above (exception with some EIC programmes that for now evaluate under impact, as of 2022 under excellence)

Model Grant Agreement requirements

1. Open access to scientific publications
2. Research Data Management
3. Additional open science practices

1. Open access to publications (1/2)

Beneficiaries must ensure **open access to peer-reviewed scientific publications** relating to their results. In particular, **they must ensure:**

- ❑ at the latest upon publication, **deposition** of the Author Accepted Manuscript or Version of Record in a trusted repository + **immediate open access via the repository** under a Creative Commons Attribution license (CC BY) or equivalent (Creative Commons Attribution Non Commercial/Non Derivatives licenses or equivalent are allowed for long-text formats)
- ❑ **information** via the repository about any research output/tools/instruments needed to **validate the conclusions of the scientific publication**

Metadata must be open under a Creative Commons Public Domain Dedication (CC 0) or equivalent, **in line with the FAIR principles** and provide information about the licensing terms and persistent identifiers, amongst others.

Open access to publications (2/2)

- Beneficiaries (or authors) **must retain sufficient intellectual property rights** to comply with the open access requirements
- Publication in venue of their choice but **publication fees are reimbursable only if publishing venue is full open access** (publication fees in hybrid venues are not reimbursed)
- Beneficiaries have the possibility to publish at no costs in **Open Research Europe**, the European Commission open access publishing platform

2. Research data management

Beneficiaries **must manage the digital research data** generated in the action responsibly, **in line with the FAIR** (“Findable”, “Accessible”, “Interoperable”, **Reusable**) principles and:

- establish + regularly update a **data management plan** (‘DMP’) for generated (and/or collected) data
- as soon as possible and within the deadlines set out in the DMP, **deposit** the data in a trusted repository (federated in the EOSC if required in the call conditions) + **ensure open access under CC BY, CC 0 or equivalent, following the principle ‘as open as possible as closed as necessary’**
- provide information via the repository about any research output/tools/instruments needed to **re-use or validate the data**

Metadata must be open under CC 0 or equivalent (to the extent legitimate interests or constraints are safeguarded), **in line with the FAIR principles** and provide information about the **licensing** terms and persistent identifiers, amongst others.

Trusted repositories under Horizon Europe

- **Trusted repositories** are either **certified repositories** (e.g. CoreTrustSeal, nestor Seal DIN31644, ISO16363) and/or **disciplinary/domain repositories** that are commonly used/endorsed by the research communities (e.g. ELIXIR deposition databases).
- **General-purpose repositories** and **institutional repositories** are, in general, also acceptable.
- **Trusted repositories** share essential properties:
 - Mechanisms to ensure **integrity** and **authenticity** of contents.
 - Offer clear **information** about their **policies/services**.
 - Provide broad, and ideally **open access** to content (consistent with legal and ethical constraints).
 - Assign **PIDs**, ask for detailed **metadata** in a standardized (e.g. Dublin Core) and machine-readable way.
 - Ensure mid- and long-term **preservation** of contents, **expert curation**, **quality assurance**.
 - Meet national and/or international **security** criteria

3. Additional Open Science practices

- Where the call conditions impose **additional obligations** regarding Open Science practices, the beneficiaries must also comply with those
- Where the call conditions impose **additional obligations regarding the validation of scientific publications**

beneficiaries must provide (digital or physical) access to data or other results needed for validation of the conclusions of scientific publications, to the extent that their legitimate interests or constraints are safeguarded (and unless they already provided the (open) access at publication)

- Where the call conditions impose **additional Open Science obligations in case of a public emergency,**

beneficiaries must (if requested by the granting authority) immediately deposit any research output in a repository + provide open access to it under CC BY, CC 0 or equivalent

As an exception, if the access would be against the beneficiaries' legitimate interests, the beneficiaries must grant nonexclusive licenses –under fair and reasonable conditions- to legal entities that need the research output to address the public emergency and commit to rapidly and broadly exploit the resulting products and services at fair and reasonable conditions. This provision applies up to 4 years after the end of the action

Guidance/resources on open science in Horizon Europe

- [Horizon Europe Annotated Model Grant Agreement](#) (p.154 ff.)
- [Horizon Europe Data Management Plan Template](#) (under [reference documents](#) of the Funding and Tenders portal).
- [Horizon Europe Programme Guide](#) (p. 38 ff. with extensive analysis of open science practices and the evaluation process)
- [Proposal Template](#) (instructions on parts A +B also including definition of open science practices and requirements)

Open Science in Horizon Europe explained

- Webinar: [How to prepare a successful proposal in Horizon Europe](#) (24 March 2021)
 - Open Science at 00:53:00
 - Q&A (including on Open Science) from 1:09:00
- Webinar: [A successful proposal for Horizon Europe: Scientific-technical excellence is key, but don't forget the other aspects](#) (21 April 2021)
 - Presentation: [Open Science](#)

Thank you!



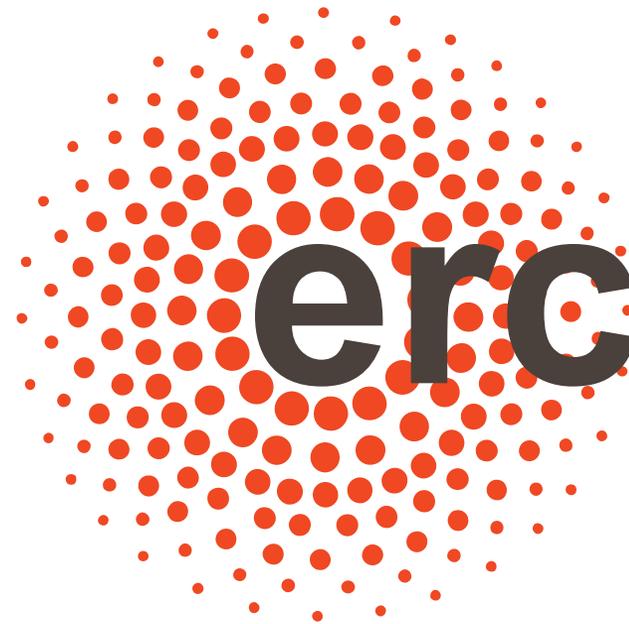
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The European Research Council

Dr Dagmar Meyer
ERC Executive Agency
Unit 'Support to the Scientific Council'

Open Science Fair
Horizon Europe
Train-the-Trainer Workshop
22 September 2021



Open science in the ERC proposal preparation & evaluation process



European Research Council
Established by the European Commission

- **No explicit evaluation** of open science practices;
- **no requirement to describe** open science practices explicitly / separately in the proposal.
- Where open science practices **improve the quality of the research design and methodology**, their use will (implicitly) positively affect assessment of ‘scientific excellence’.
- In July 2021, ERC formally endorsed the San Francisco Declaration on Research Assessment (DORA), in line with the ERC’s commitment to research assessment principles that **recognize the intrinsic quality of researchers’ work** and the **value and impact of all research outputs**.

ERC's endorsement of DORA – changes in the 2022 Work Programme



European Research Council
Established by the European Commission

Already **close alignment with DORA principles** – small changes to text for further clarification:

- applicants invited to include in track record **any scientific achievements they deem relevant** in relation to their research field and project;
- **Journal Impact Factor banned** (but properly referenced, field relevant bibliometric indicators may be included);
- reminder that applicants can include **short narrative** describing the scientific importance of the research outputs and the role played by the applicant in their production.

Preprints in track record already accepted since WP 2019.

MGA provisions on open science – how do they apply to ERC grants?



European Research Council
Established by the European Commission

Open science requirements in the Model Grant Agreement used for ERC grants:

- **identical provisions** as for the rest of Horizon Europe;
- **no differences in interpretation** compared to grants in the general Horizon Europe Work Programme;
- but: some **conditional provisions** (part on “Additional open science practices”) that apply “where the call conditions impose them” have **not been triggered** in the ERC Work Programmes 2021/2022:
 - additional obligations regarding the **validation of scientific publications**;
 - additional open science obligations in case of a **public emergency**.

ERC support to recommended repositories



European Research Council
Established by the European Commission

ERC recommends use of

- Europe PubMed Central for publications in the **life sciences** (financially supported since 2013);
- arXiv for publications in the **physical sciences and engineering** (grant in preparation under WP 2022);
- OAPEN library for **books and chapters** – particularly important for the social sciences and humanities (supported by ERC since 2015).

Europe PMC and OAPEN library metadata already closely aligned with Horizon Europe requirements; arXiv working on improvements.

ERC specific guidance/resources on open science in Horizon Europe



European Research Council
Established by the European Commission

In addition to relevant parts of the Horizon Europe MGA and the Horizon Europe Annotated Grant Agreement:

- recently updated pages on Open Science on the ERC website;
- ERC Scientific Council information document "[Open Research Data and Data Management Plans](#)" (v4.0 of August 2021);
- additional ERC specific guidance in preparation.

See also:

- entry on ERC in the [DORA resource library](#).

Any questions?



European Research Council
Established by the European Commission

Feel free to contact the
ERCEA Open Science team at:
erc-open-access@ec.europa.eu

FROM HORIZON EUROPE OPEN SCIENCE MANDATE TO PRACTICAL GUIDE

A case study of the Ghent University Open Science training material

CHALLENGES

- Translate a mandate into a practical guide
- Align internally about best practices and clarify possible ambiguities
- Move FAST – first calls already launched
- Be FLEXIBLE – adaptable to new or better information

COLLABORATION

Ghent University EU-team



Expertise on EU-grants. All around support for EU-funded projects: support and advice on project proposals, and after the granting of the project.



- Quick access to information and expertise
- Cross checking to align internally and check translation from theory to practice

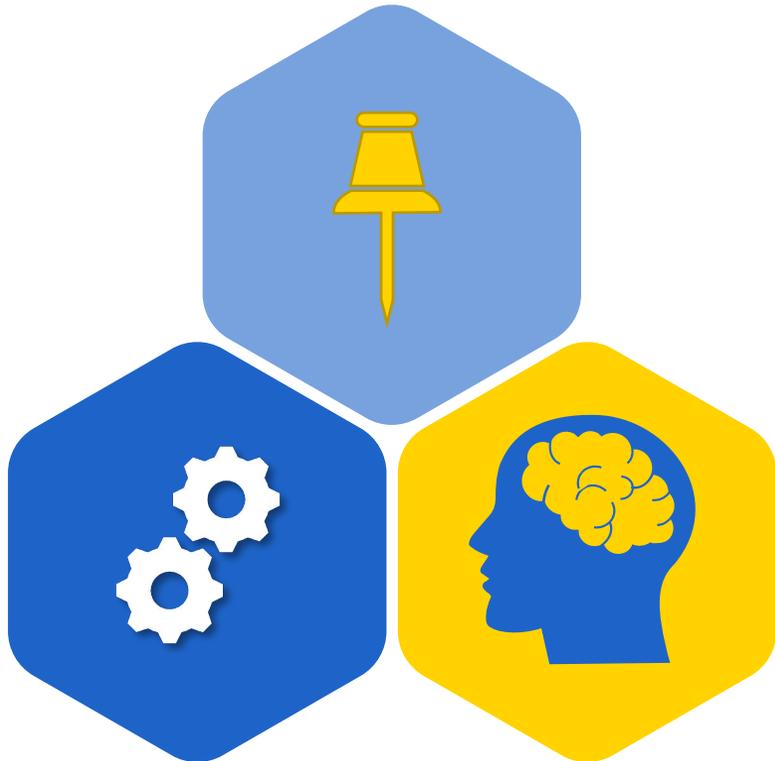


Open Science Team



Expertise on Open Science on institutional, national/regional and EU-level. Experienced in creating OS training material. Includes a **Data Steward Team**.

AGILITY



Pre-existing tools

To avoid the learning curve in learning a new tool.

Adaptable

...which we can adapt ourselves.
To include changes in policy or new insights.

Well-known

So all our energy can go to disseminate and support rather than introducing a new platform or tool.

EXAMPLES – RESEARCH TIPS



(RE)SEARCH TIPS

emiherma Log out

Practical tips for research, information management and scholarly communication

[SEARCH](#) [BY CATEGORY](#) [A-Z](#) [AGENDA](#)

horizon europe|



Search

Search / find

Critical reading

Write

Present

Publish

Scientific Integrity

Funding / GISMO

All tips

Aantal resultaten: 13

Horizon Europe: What are the recommended Open Science practices?

Recommended open science practices in Horizon Europe are those beyond the mandatory ones ([Open Access to publications](#) and [Research Data Management](#)). The use of this practices can result in a higher evaluation score and therefore be addressed in the [proposal](#). Early and open sharing ... → [Read more](#)

level: algemeen

tags: [Horizon Europe](#) [open science](#) [research data management](#)

Scientific Integrity

Funding / GISMO

Horizon Europe: What are the open science requirements?

Open science in Horizon Europe Open science has become a policy priority for the European Commission (EC). It is "an approach based on open cooperative work and systematic sharing of knowledge and tools as early and widely as possible in the

Agenda

SEP

30

Blits infosessie:
Statistische toetsen
(deel 1): concept en
selectietool
Library Lunches with a
taste of DH

OCT

05

OCT

05

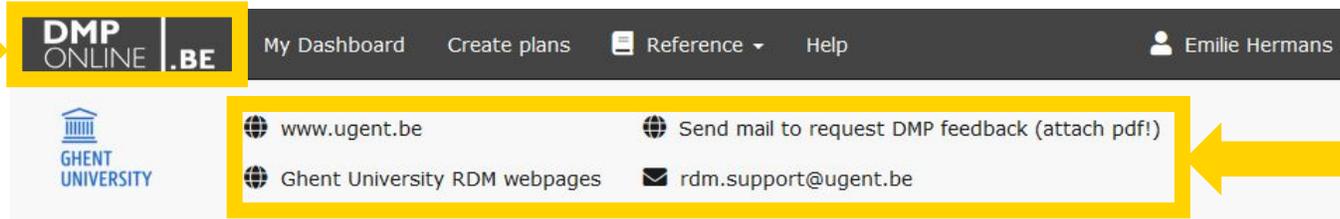
Blits infosessie:
EndNote

→ [More events](#)

- Platform with practical, concise research information
 - Works as a FAQ for researchers
 - Fine-grained search control with keywords or themes
 - Easy to adapt by staff
 - Well-known and referenced in presentations, emails....
 - At the moment tips on:
 - Horizon Europe - What are the open science requirements?
 - Horizon Europe - How do I address open science in my proposal?
 - Horizon Europe - Mandatory open science practices:
 - Open access to scientific publications
 - Research Data Management (incl. open access to data)
 - Horizon Europe - Recommended open science practices
- + links to tips on Open Research Europe, OA publishing, APCs, DMPs, FAIR data....

EXAMPLES – DMPONLINE.BE

Local instance of
DCCs DMPonline



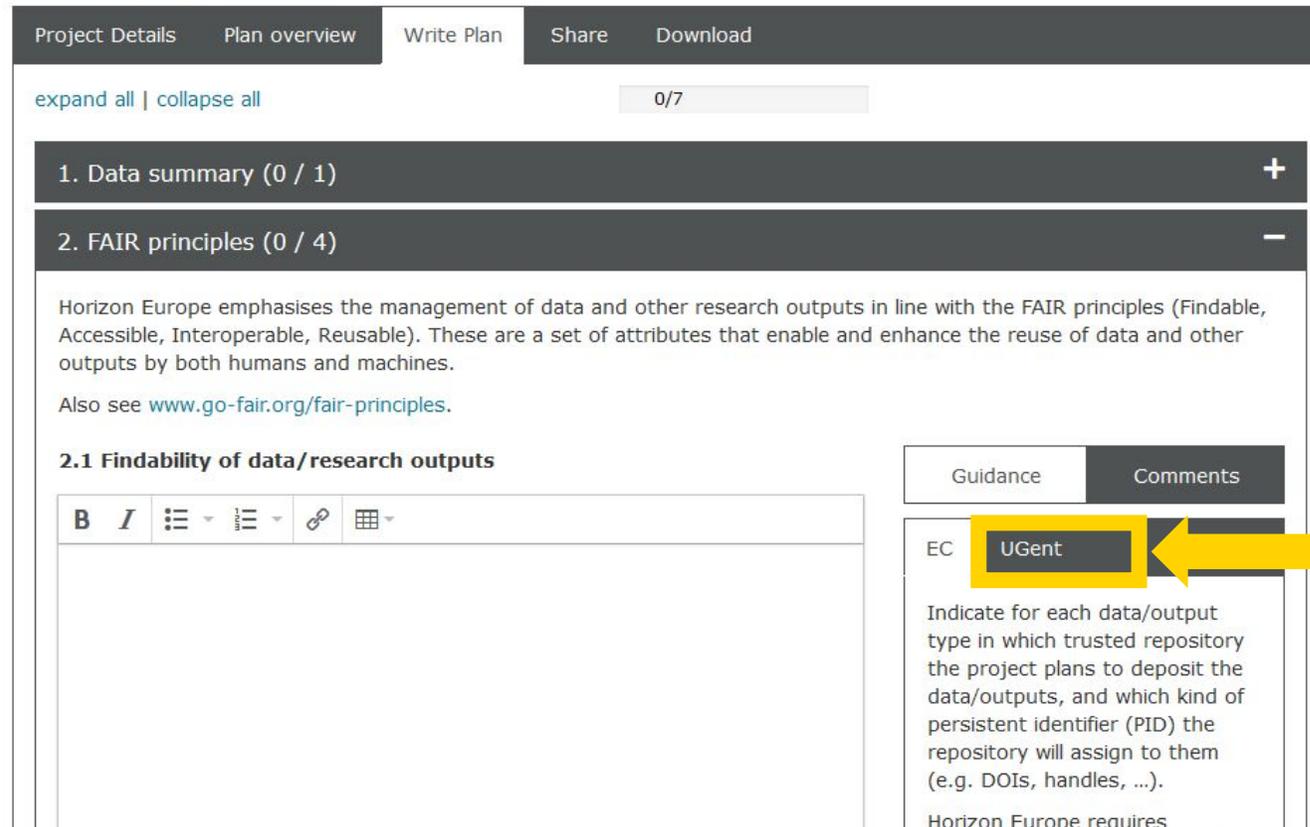
DMP ONLINE .BE My Dashboard Create plans Reference Help Emilie Hermans

GHENT UNIVERSITY

www.ugent.be Send mail to request DMP feedback (attach pdf!)
Ghent University RDM webpages rdm.support@ugent.be

Local support

Emilie's Plan



Project Details Plan overview Write Plan Share Download

expand all | collapse all 0/7

1. Data summary (0 / 1) +

2. FAIR principles (0 / 4) -

Horizon Europe emphasises the management of data and other research outputs in line with the FAIR principles (Findable, Accessible, Interoperable, Reusable). These are a set of attributes that enable and enhance the reuse of data and other outputs by both humans and machines.

Also see www.go-fair.org/fair-principles.

2.1 Findability of data/research outputs

B I [List] [Table] [Link] [Grid]

Guidance Comments

EC UGent

Indicate for each data/output type in which trusted repository the project plans to deposit the data/outputs, and which kind of persistent identifier (PID) the repository will assign to them (e.g. DOIs, handles, ...).

Horizon Europe requires

Institutional specific
guidelines

LESSONS LEARNED



No 'one size fits all'



Collaborate and pool expertise



Anticipate, use adaptable formats



**Don't re-invent the wheel:
use available tools, expertise and existing training material**

Emilie Hermans

GHENT UNIVERSITY LIBRARY
OPEN SCIENCE TEAM

Emilie.Hermans@ugent.be

 @emiherma

www.ugent.be

Open Science & RDM community building and support activities

Open Science FAIR Horizon Europe train-the-trainer workshop

Ellen Leenarts

[Orcid](#) @EllenLeen @DANS_knaw_nwo

22 September Open Science FAIR



Horizon Europe & research data

- Identifiable with a persistent identifier
- Discoverable with metadata
- Harvestable metadata
- Deposited in trusted repositories
- Freely available - Access restrictions
- Interoperable by using metadata vocabularies, standards, ontologies
- References to other data
- Reusable - provide documentation, provenance of data
- Ethics and legal issues, GDPR, informed consent
- Ensuring long term preservation
- Procedures for research data management



*Overview created with
input from the data
stewards team at
Ghent University*

RDM community building and support activities

DANS is a CoreTrustSeal certified trustworthy repository

- Research Data Netherlands
- CESSDA – Data Management Expert Guide
- OpenAIRE - RDM support materials
- SSHOC Training Discovery Toolkit, Training Community
- EOSC Synergy RDM & open science course
- FAIRsFAIR – handbook
- Science Europe – RDM report including DMP rubric
- Other (DANS not involved): Open Science communities



- ✓ Course Essentials 4 data support
Online content, blended course, 3 per year
- ✓ Course GDPR 4 data support
Similar, now in pilot, next year public, 3 per year
- ✓ MOOC Delivering RDM Services
Closed content, 3 per year

<https://researchdata.nl/en>



CESSDA Data Management Expert Guide

<https://www.cessda.eu/DMEG>

- Online RDM guide for researchers in social sciences
- 7 chapters following research data life cycle
- DMP checklist
- Regularly updated by CESSDA Training

Upcoming support events:

27 Sept: workshop RDM & data protection in the Social Sciences

<https://www.cessda.eu>



Data Management Expert Guide

This guide is designed by European experts to help social science researchers make their research data Findable, Accessible, Interoperable and Reusable (FAIR).

You will be guided by different European experts who are - on a daily basis - busy ensuring long-term access to valuable social science datasets, available for discovery and reuse at one of the [CESSDA social science data archives](#).

You can [download](#) the full DMEG for your personal study offline (DOI: [10.5281/zenodo.3820473](https://doi.org/10.5281/zenodo.3820473)). PDFs for every [single chapter](#) are also available for being printed as handouts for training.

Search this guide

Search

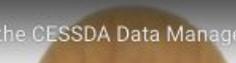
Data Management Expert Guide

1. Plan
2. Organise & Document
3. Process
4. Store
5. Protect
6. Archive & Publish
7. Discover
8. Contributors

Target audience and mission

This guide is written for social science researchers who are in an early stage of practising research data management. With this guide, CESSDA wants to contribute to professionalism in data management and increase the value of research data.

What is the CESSDA Data Management Expert Guide & how ...



<https://www.openaire.eu/rdm-noads-starter-kit>

OpenAIRE Advance

GOAL: Establish capacity and increase knowledge primarily among NOADs in order to support RDM activities, and support the Open Data Pilot/FAIR data/EOSC

Output: Online guides, webinars, blog posts, infographics et cetera

HOW: Establishing working groups to examine different elements of the data life cycle; Finding gaps; Developing new materials

Institutional RDM support
Data reuse examples
The importance of long-term preservation
Use cases DMPs of existing projects

OpenAIRE
Research Data Management
Briefing paper

Understanding Research Data Management

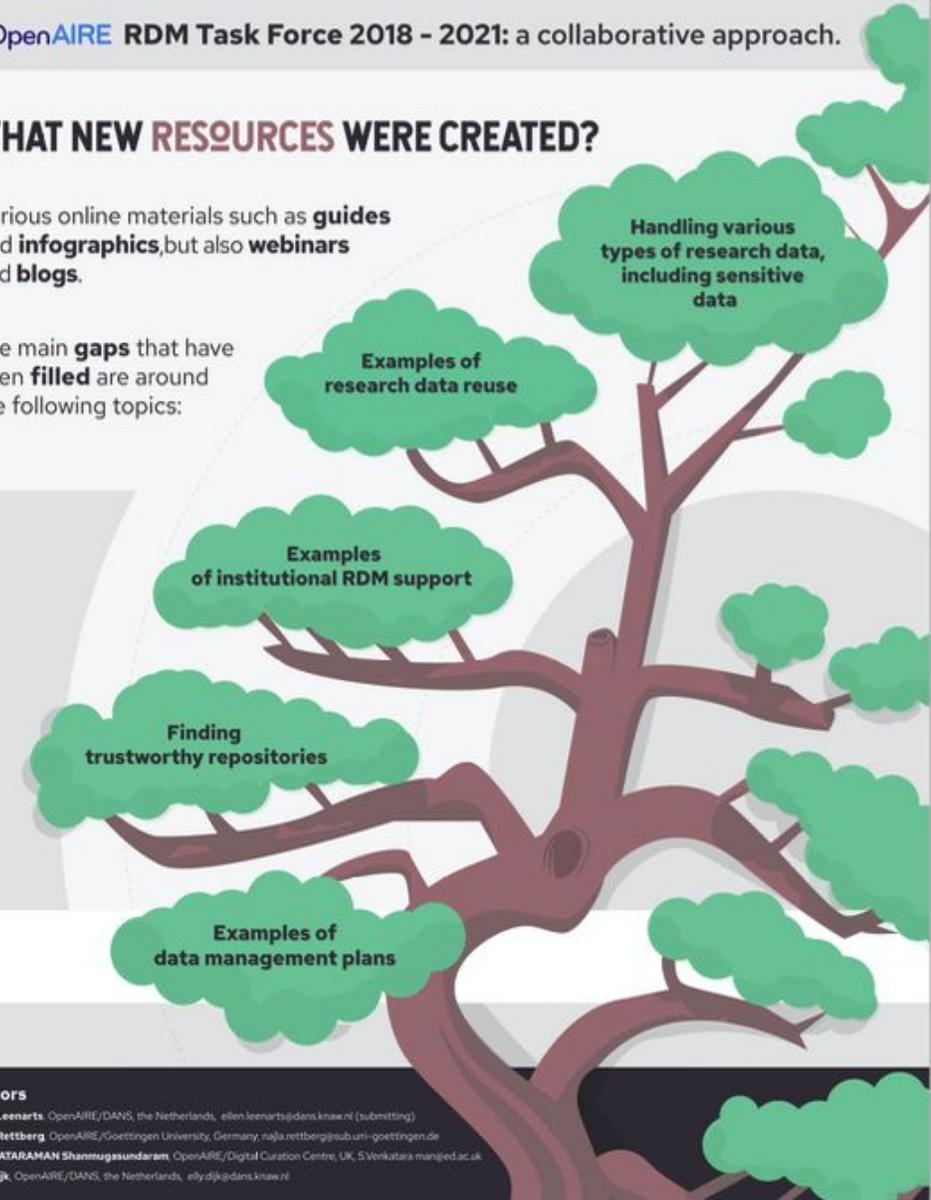
FROM SEED TO TREE LEVERAGING COLLECTIVE EXPERTISE TO CREATE RESOURCES ON RDM.

+ OpenAIRE RDM Task Force 2018 - 2021: a collaborative approach.

WHAT NEW RESOURCES WERE CREATED?

Various online materials such as **guides** and **infographics**, but also **webinars** and **blogs**.

The main **gaps** that have been **filled** are around the following topics:



Authors

- Ellen Leenarts, OpenAIRE/DANS, the Netherlands, ellen.leenarts@dans.knaw.nl (submitting)
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- VENKATARAMAN Shanmugasundaram, OpenAIRE/Digital Curator Centre, UK, S.Venkataraman@ed.ac.uk
- Ely Dijk, OpenAIRE/DANS, the Netherlands, elydijk@dans.knaw.nl

OpenAIRE Outputs

Blog series Institutional RDM support:

<https://www.openaire.eu/blogs/use-cases-of-institutional-rdm-support-openaire-blog-series>

Checklist RDM Service development: [10.5281/zenodo.4594022](https://doi.org/10.5281/zenodo.4594022)

Webinar on RDM and legal issues:

<https://www.openaire.eu/item/research-data-management-and-legal-issues-related-to-research-data>

Blog series on Data reuse and use cases:

<https://www.openaire.eu/data-reuse-use-cases>

Webinars on the reuse of data and legal aspects, 2020:

<https://www.openaire.eu/item/openaire-legal-policy-webinars>

Guides:

Identifiers to improve dissemination:

[10.5281/zenodo.1051028](https://doi.org/10.5281/zenodo.1051028)

Managing access to sensitive data:

[10.5281/zenodo.4048403](https://doi.org/10.5281/zenodo.4048403)

Webinar (with FREYA): [New developments in the field of Persistent Identifiers, 2019.](#)

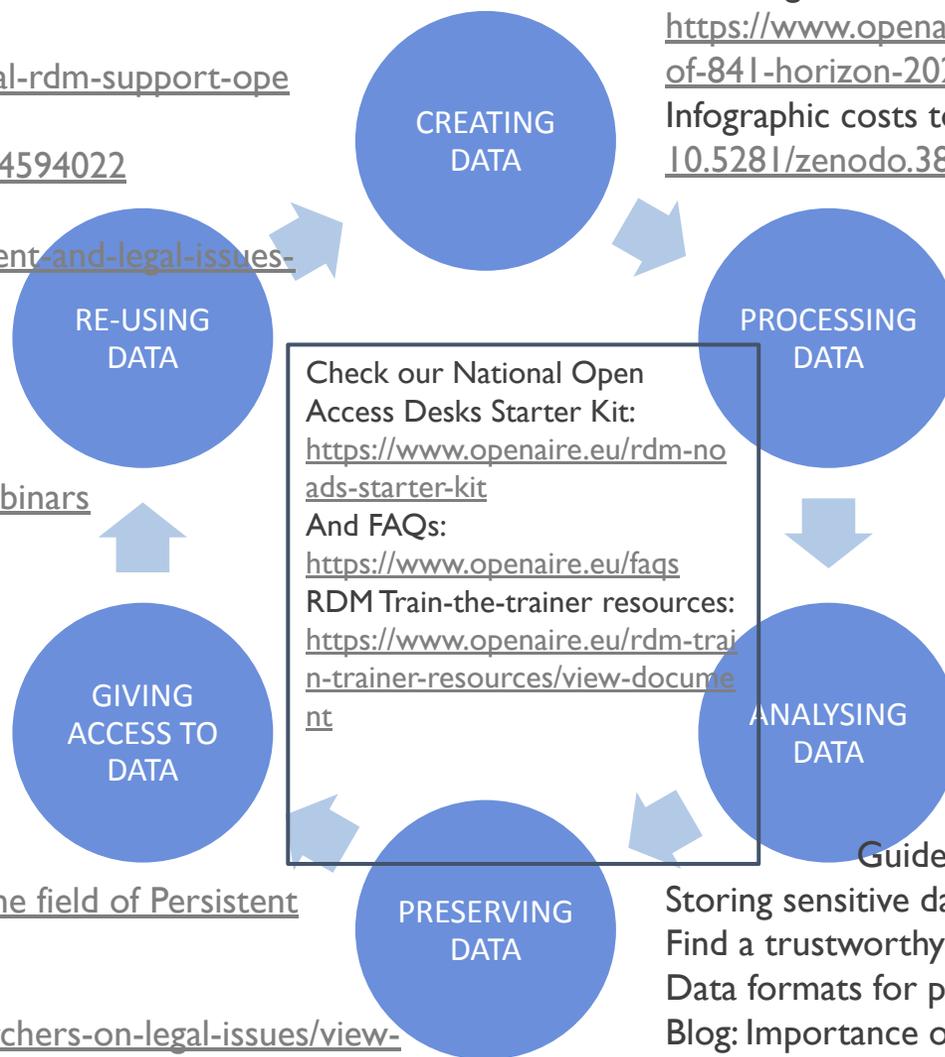
Toolkit for researchers on Legal Issues:

<https://www.openaire.eu/d3-2-toolkit-for-researchers-on-legal-issues/view-document>

Diagram: [Deposit your data in a long-term data repository](#)

Ref: UK Data Archive:

<http://www.data-archive.ac.uk/create-manage/life-cycle>



List of Horizon 2020 DMPs:

<https://phaidra.univie.ac.at/detail/o:1140797>

And blog:

<https://www.openaire.eu/blogs/establishing-a-collection-of-841-horizon-2020-data-management-plans>

Infographic costs to manage and share data:

[10.5281/zenodo.3837717](https://doi.org/10.5281/zenodo.3837717)

Guide: How to deal with non-digital data:

[10.5281/zenodo.4057878](https://doi.org/10.5281/zenodo.4057878)

Webinar (with EOSC-hub): [Data Privacy and Sensitive Data Services, 2018](#)

Blog: Electronic Lab Notebooks, should you go 'e': <https://www.openaire.eu/blogs/electronic-lab-notebooks-should-you-go-e-1/>

Guide: Raw data, backup and versioning:

[10.5281/zenodo.4041557](https://doi.org/10.5281/zenodo.4041557)

Webinar on Amnesia (data anonymisation):

<https://www.openaire.eu/item/amnesia>

Guides:

Storing sensitive data: [10.5281/zenodo.4048403](https://doi.org/10.5281/zenodo.4048403)

Find a trustworthy repository: [10.5281/zenodo.4020812](https://doi.org/10.5281/zenodo.4020812)

Data formats for preservation: [10.5281/zenodo.4041512](https://doi.org/10.5281/zenodo.4041512)

Blog: Importance of long-term data preservation:

<https://www.openaire.eu/blogs/importance-of-long-term-data-preservation>

SSHOC train-the-trainer bootcamps

Topics covered:

Discovery of training resources
CESSDA/UKDA Data curation tools
GDPR & social media data
RDM & Open Science games
CLARIN tools and integrated services
Costs of managing data
FAIR data tools
3rd party data
Didactics

Resources available:

<https://doi.org/10.5281/zenodo.3970799>
sshocdariahtrainerrdmbootcamp community
<https://doi.org/10.5281/zenodo.4813115>



international discussions and exchanging knowledge

you have saved me time in giving me ready materials.

The tools and teaching materials that we can easily repurpose for our instructions. Homework was very helpful to get my mind around the material and thinking about applications. Breakout discussion.

engaged participants!

Good to see real world uses

More workshops, webinars:
<https://www.sshopencloud.eu/training>

SSH Training Discovery Toolkit

The SSH Training Discovery Toolkit provides an inventory of training materials relevant for the Social Sciences and Humanities. Use the search bar to discover materials or browse through the collections. The filters will help you identify your area of interest.

Search for sources and items

Search entities

Displaying 1 - 35 of 35

Source of item	Title	Description
Copyright Guide at the University of Sussex	A copyright game of snakes and ladders	The aim of the game, as with the traditional snakes and ladders, is to be the first player to reach the finish square, 100, by moving across
UK Copyright Literacy	Copyright the Card Game Online	Introduction to copyright law and the relationship between licences and copyright exceptions. The four 'suits' in the game are: - Copyright works
DigCurV - Digital Curator Vocational Education Europe Project	CURATE! The Digital Curator Game	The CURATE game is designed to be used as an exercise that prompts players to put themselves into digital project scenarios in order to address issues and challenges that arise when institutions en
DANS Training	DANS Data Game	DANS has developed a game especially for researchers: the DANS Data Game. The game gives an impression of the research data landscape and was specially produced for the 15th anniversary of DANS.
IIIF - International Image Interoperability Framework	David Rumsey MapTab	A IIIF-powered, Chrome extension that displays a random map from the David Rumsey Map Collection everytime you open a new tab in your browser. Built using Leaflet-IIIF and ReactJS.
Erasmus University Rotterdam	Dilemma Game	Like in any profession, scientists are frequently faced with dilemmas: Can I exclude particular observations from my research?
Open Education Resources	Game jam	A Game Jam is an organised event where a group of people gather with the intention of creating a full game - from conception to completion - in a pre-determined, short period of time.
School of Simulation and Visualisation at The Glasgow School of Art	How to Fail Your PhD	How to Fail Your Research Degree was created to deliver knowledge and understanding of research processes and techniques, within the context of a postgraduate training programme at Glasgow School o

Entity type

- Item (20)
- Source (15)

Collections

- Training Discovery Toolkit (35)

Organisation

- Consejo Superior de Investigaciones Cientificas (1)
- Cranfield University Library Services (1)
- Danmarks Tekniske Universitet (1)
- DARIAH ERIC (1)
- Data Archiving and Networked Services (DANS) (1)
- Digital Preservation Coalition (1)
- Digital Renaissance Foundation (1)
- Erasmus University Rotterdam (1)
- Fundacio Centre de Regulacio Genomica (1)
- GESIS - Leibniz-Institute for the Social Sciences (1)

Show more

Intended audience

- Inventory reusable training materials
- Generic (RDM/Open Science) and discipline specific
- Faceted search
- Curation by team
- Input and feedback by the Training Community, Train-the-trainer bootcamps



A Training Discovery Toolkit for the Social Sciences and Humanities

A continuously updated toolkit of easy to find, effective, and (often) ready-to-go training materials sourced and carefully curated by SSH training experts for fellow trainers and the SSH community at large.

The Training Discovery Toolkit is a work in progress and currently offers more than 70 separate items from 40 recognised sources on a multitude of topics.

Resource Types



How you use it

STEP 1 Type in your search topic

STEP 2 Refine your search

STEP 3 Select the item

STEP 4 Access your Resource

Thanks to feedback from users and the SSH Training Community who quality test our resources at Train-the-Trainer Bootcamps, the Training Discovery Toolkit is constantly updated and improved. We also plan to align our metadata model with other training registries, and to integrate the Toolkit into the SSH and EOSC Marketplaces.

Get involved

Join our SSH Training Community to engage with other trainers, contribute your materials and build more together!

Contact us with your suggestions at <https://forms.gle/RKgwYtUcDMg5yhZ36>

Open Science Conference Online Conference 17-19 February 2021 #osc2021

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"Social Sciences and Humanities Open Cloud", has received funding from the European Union's Horizon 2020 project call H2020-INFRAEOSC-04-2018, grant agreement #823782.

<https://training-toolkit.sshopencloud.eu/>

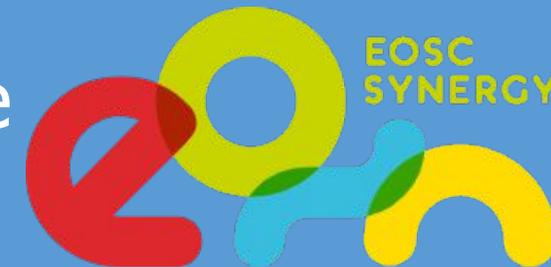
<https://doi.org/10.5281/zenodo.4534192>

SSH Training Community & Trainers Directory

- **SSH Training Community**: community of practice for SSH trainers
 - Online monthly meetings to network and link trainers active in SSH and EOSC; using playful tools (speed dating) to exchange knowledge on:
 - (new) tools e.g. for FAIR data and
 - Improving FAIRness training materials
 - (new) services in the SSH marketplace
 - Delivery of online training: virtual brainstorming, organising conferences, making events GDPR compliant
- **SSH Trainer Directory** :
 - **curated** inventory of SSH trainers inspired by FOSTER - preparing for EOSC directory of trainers



EOSC Synergy Online Open Science Training Handbook



[EOSC Synergy](#) - a regional European Open Science Cloud project

We have a [learning platform](#) to promote our service training and good practice in online training

We have a [fully reusable 8 module exemplar course](#) on RDM, FAIR data and open science

Our handbook aims to be a companion to the [FOSTER Open Science Training Handbook](#)

It's a work in progress - we would like to include your tips, experiences and examples from this session

- [View and comment on the handbook here](#)

The screenshot shows a web interface for the EOSC Synergy online training platform. On the left is a green sidebar menu with options: Home, Calendar, Course sections, Welcome!, What is Open Science?, What is European Open Science Cloud (EOSC)?, EOSC in practice: EOSC Synergy, EOSC in practice: Facilitating software quality across EOSC services, EOSC in practice: Integrating resources into EOSC, Research data management, and FAIR principles. The main content area has a header with the text 'Bringing synergy to better data management and research in Europe.' and a breadcrumb trail: Home > Courses > EOSC-Synergy > Synergy intro course > Welcome!. Below the header is a navigation bar with tabs: Welcome!, What is Open Science?, What is European Open Science Cloud (EOSC)?, Research data management, Completion, and Credits. The main content area displays 'Welcome to the course!' and a list of course sections: 1. What, 2. What, 3. EOSC, 4. EOSC, and 5. EOSC.

The cover of the 'Open Science Online Training Handbook' features the EOSC Synergy logo at the top. The title 'Open Science Online Training Handbook' is written in large blue letters. Below the title, it says 'DRAFT FOR OPEN CONTRIBUTION' in red. At the bottom, there is a section titled 'Notes for contributors:' followed by a bulleted list of instructions for contributors.

Notes for contributors:

- Please add comments and suggestions throughout this document
- Please add your contact details for future reference and providing credit
- We welcome comments and additions to our core text
- We are particularly interested in adding 'real-life' examples which show the guidance in practice
- The handbook will be made available openly for reuse

And some more:



Upcoming deliverable D7.4 in December: "How to be FAIR with your research data – a teaching and training handbook for higher education institutions"

And the FAIR Aware tool – How fair is your dataset
<https://fairaware.dans.knaw.nl/>



"A practical guide to the international alignment of Research Data Management"

GUIDANCE FOR RESEARCHERS:

Translating the Core Requirements into a DMP template
Guiding the Selection of Trustworthy Repositories

GUIDANCE FOR REVIEWERS:

Evaluation Rubric for Data Management Plans

Open Science Communities

- [Starter kit](#) to set up and foster a local open science community

Open Science Communities provide a place where **newcomers and experienced peers** interact, **inspire each other to adopt** Open Science practices and values, identify **opportunities and pitfalls**, and **provide feedback on policies, infrastructure, and support services**. By the same token, Open Science Communities are places where researchers and societal stakeholders can meet, inspire and co-create.

