

EOSC Symposium: Open Science Education  
October 23<sup>rd</sup>, 2024

**Towards Effective Open Science Education**

Prof. Dr. Julia Priess-Buchheit  
[buchheit@paedagogik.uni-kiel.de](mailto:buchheit@paedagogik.uni-kiel.de)



Christian-Albrechts-Universität zu Kiel



# Open Science Education in General

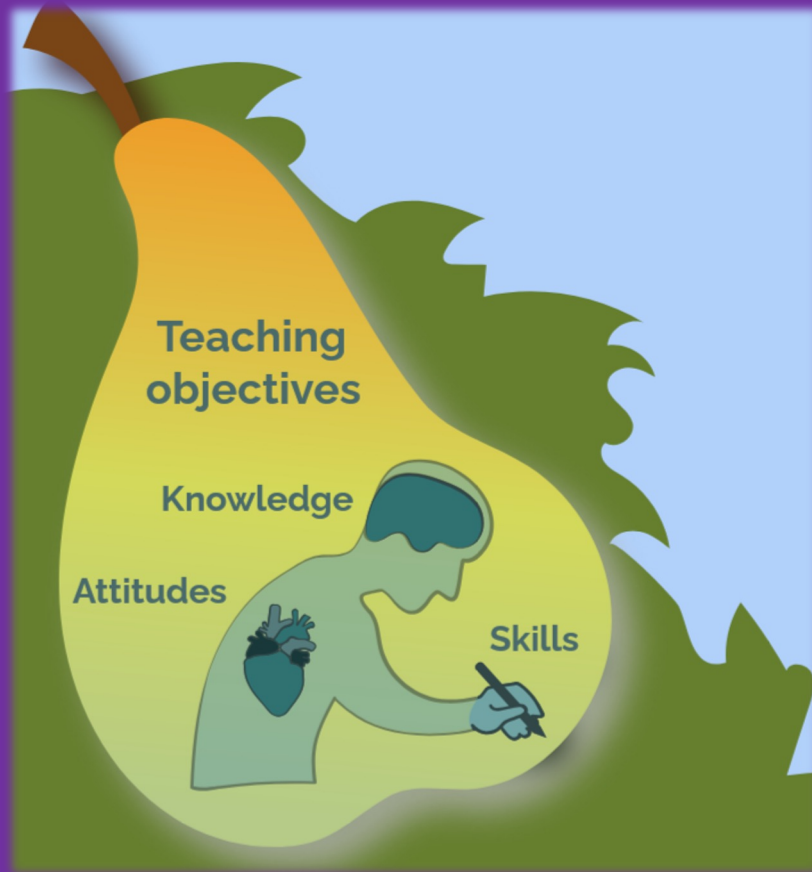
‘It is estimated that up to 500,000 data stewards will be needed for the European Open Science Cloud alone in the next few years - in other words, people who will take over research data management in institutions, research networks and projects.’ (2023)

[Forschung unterstützen - Empfehlungen für Data Stewardship an akademischen Forschungsinstitutionen : 10.4126/FRL01-006441397 |](#)

“Before FAIR training, 81.1% of students suggested scientific actions that are not in line with the FAIR guiding principles.” (2024)

[Priess-Buchheit, J., Hermeking, N. & Möbius, T. Training to Act FAIR: https://doi.org/10.1007/s10805-024-09547-2](https://doi.org/10.1007/s10805-024-09547-2)

# Open Science Education in General



About:

1. What (OS practices) we **know**,
2. what we **can** do and
3. what we **want to do** in research.

# Open Science Education in General



Figure:  
Adapted from  
EOSC's definition  
of Actors in the  
EOSC Ecosystem (1)

Target specific and tailored training

# Open Science Education in General

Target specific and tailored training

TRAINING

ACTIVITY PLAN, LESSON PLAN, ASSESSMENT

License: <https://creativecommons.org/licenses/by/4.0/> | Language: English

## Open Science Policy Checklist for Research Funding Organisations (RFOs)

This is a checklist to enable research funding organisations (RFOs) to assess their readiness in adopting an Open Science policy. It covers main elements that should be taken into account in designing a policy that is aligned with the Horizon2020 requirements on Open Access and the key developments at EU level related to Open Science/ Open Access.

**Author** Marina Angelaki | Elli Papadopoulou

**Organisation** OpenAIRE

**Scientific Domain** Generic

**Content type** Text

**Keywords** Open Science • Open Access • Policies • Research Funding Organisations

*EOSC Ecosystem (1)*

# Open Science Education in General

## Target specific and tailored training

TRAINING

UNIT PLAN

License: <https://creativecommons.org/licenses/by/4.0/> | Language: English

### Sensitive Data in the Humanities and Social Sciences

This course will introduce you to concepts of Sensitive Data, the different ways in which data is used in Social Science and Humanities subjects, what constitutes sensitive data in these subjects, and how to manage Sensitive Data in the context of Open Research Practices, and specifically the European Open Science Cloud. Content in this course is also applicable to other research disciplines and for a general understanding of the concepts...

**Author** Louise Bezuidenhout | Elisabeth Königshofer | Julia Geistberger | Lisa Hirsch | Vicky Garnett

**Organisation** OpenAIRE

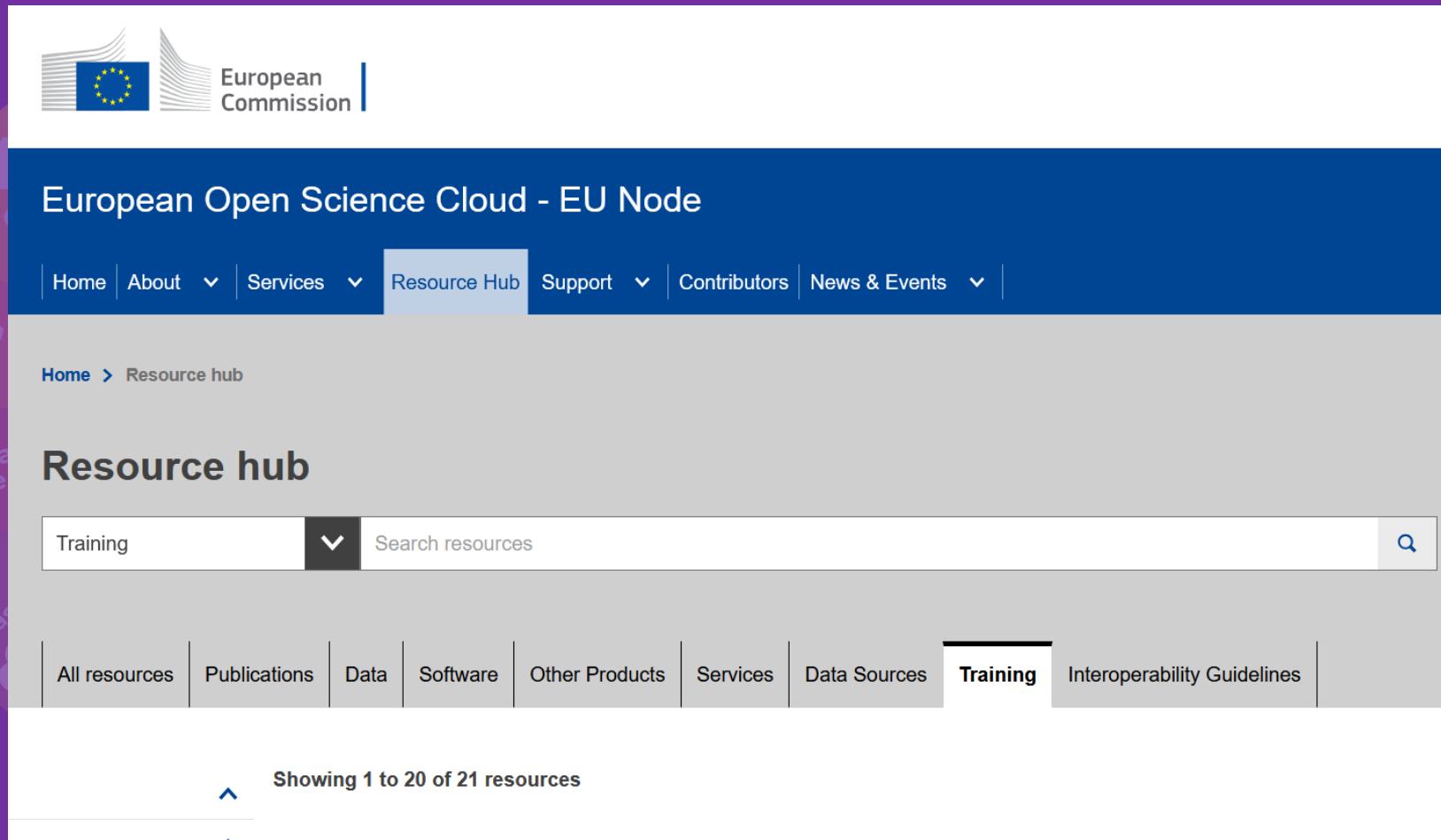
**Scientific Domain** Humanities | Social Sciences

**Content type** Text | Diagram | Video | Image

**Keywords** Data Preservation • Research Data Management • Data Protection • ELSI • Ethics • GDPR • Legal Issues • Open Science • Sensitive Data

**Prof. Dr. Julia Priess-Buchheit**  
buchheit@paedagogik.uni-kiel.de

# Open Science Education in General



The screenshot displays the European Open Science Cloud - EU Node website. At the top, the European Commission logo is visible. Below it, the title "European Open Science Cloud - EU Node" is shown. A navigation bar includes links for Home, About, Services, Resource Hub (highlighted), Support, Contributors, and News & Events. The main content area is titled "Resource hub" and features a search bar with "Training" selected. A sidebar on the left lists categories: Data, Researchware, and Infrastructure. The main content area also includes a list of resources with "Training" highlighted. At the bottom, it states "Showing 1 to 20 of 21 resources".

**Prof. Dr. Julia Priess-Buchheit**  
buchheit@paedagogik.uni-kiel.de

# Open Science Education in General

**EOSC as an Enabler of Research Assessment Reform: Position Paper from Task Force on Research Careers, Recognition, and Credit**



**Recommendations for Data Stewardship Skills, Training and Curricula with Implementation Examples from European Countries and Universities**



**Progress towards engagement in EOSC: a report on the activities and impact of the EOSC Association Task Force "Upskilling Countries to Engage in EOSC"**

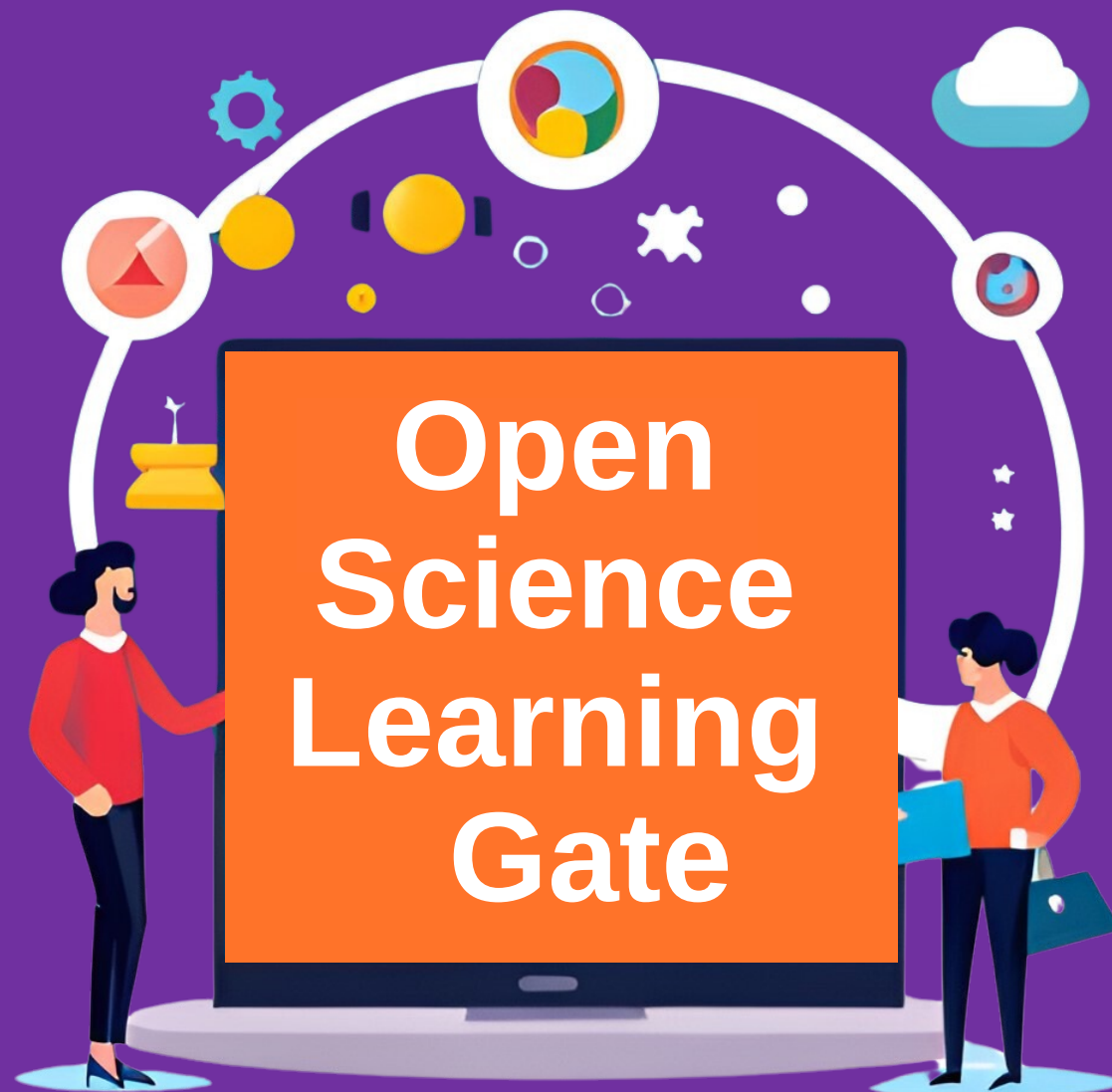


**Fostering Open Science in Europe: Engagement Strategies from EOSC's Task Forces on Research Careers and Curricula**



**Prof. Dr. Julia Priess-Buchheit**  
buchheit@paedagogik.uni-kiel.de





## A joint endeavour by NERQ OS

Julia Priess-Buchheit, Marie Alavi, Joeri K. Tjeldink, Katharina Miller, Ruth Moran, Varga Orsolya, Maruxa Martinez, Ulf Tölch, Sean Lacey, Peter Eduard, Anita Lunić (and more from [NERQ OS Group](#))

Contact:

**Prof. Dr. Julia Priess-Buchheit**  
buchheit@paedagogik.uni-kiel.de

**Marie Alavi**  
alavi@zke-kiel.de

# The GATE - Starting point

? *What are the standards of OS and OS training?*



Need for **tailored OS training resources** for various stakeholders of the scientific community.



OS training should address

- **Research Integrity**
- **Research Ethics** and
- **Ethics of AI** operating with OS as an **overarching umbrella**.

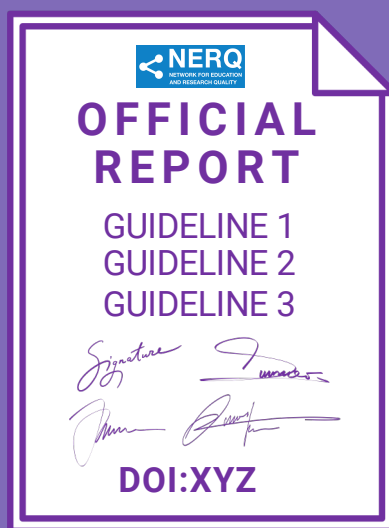


Figure:  
Adapted from  
EOSC's definition  
of Actors in the  
EOSC Ecosystem (1)

# The GATE

Community legitimacy

- **Collects & disseminates** OS guidelines from/to community
- **Annual report** (majority nominations and expert review)



Continuous harmonization of OS standards

## ► Updating trainers

@TRAINER

GUIDELINE 1  
GUIDELINE 2  
GUIDELINE 3  
GUIDELINE 4

Ongoing evaluation of the GATE service & status quo of OS guidelines based on community consensus

- high quality for learners
- trainers keep up to date



Brand recognition

Guide to high quality OS resources

**Badged** by complying with 80% of recommended OS guidelines

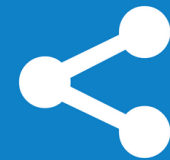


THANK YOU!

Prof. Dr. Julia Priess-Buchheit  
[buchheit@paedagogik.uni-kiel.de](mailto:buchheit@paedagogik.uni-kiel.de)

C | A | U

Christian-Albrechts-Universität zu Kiel



**NERQ**

NETWORK FOR EDUCATION  
AND RESEARCH QUALITY



**eosc**



**MILLER**  
INTERNATIONAL