

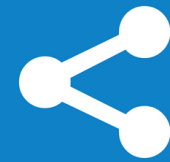
EOSC Symposium: Open Science Education
October 23rd, 2024

Towards Effective Open Science Education

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

C | A | U

Christian-Albrechts-Universität zu Kiel



NERQ

NETWORK FOR EDUCATION
AND RESEARCH QUALITY



eosc



MILLER
INTERNATIONAL

Open Science Education in General

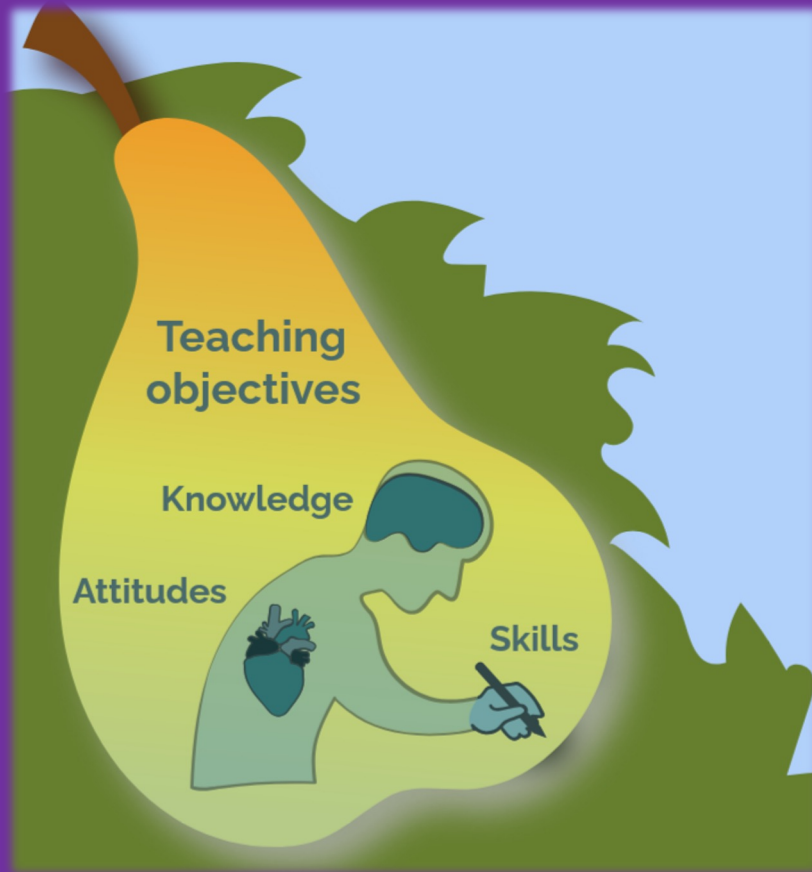
‘It is estimated that up to **500,000 data stewards will be needed** for the European Open Science Cloud alone in the next few years - in other words, people who will take over research data management in institutions, research networks and projects.’ (2023)

[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



Target specific and tailored training

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

Open Science Education in General

1 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 website for the European Open Science Cloud - EU Node. At the top left is the European Commission logo. The main header reads "European Open Science Cloud - EU Node". Below this is a navigation menu with items: Home, About, Services, Resource Hub (highlighted), Support, Contributors, and News & Events. A breadcrumb trail shows "Home > Resource hub". The main heading is "Resource hub". A search bar contains the text "Training" and "Search resources". Below the search bar is a horizontal menu with categories: All resources, Publications, Data, Software, Other Products, Services, Data Sources, Training (highlighted), and Interoperability Guidelines. At the bottom of the visible content, it says "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



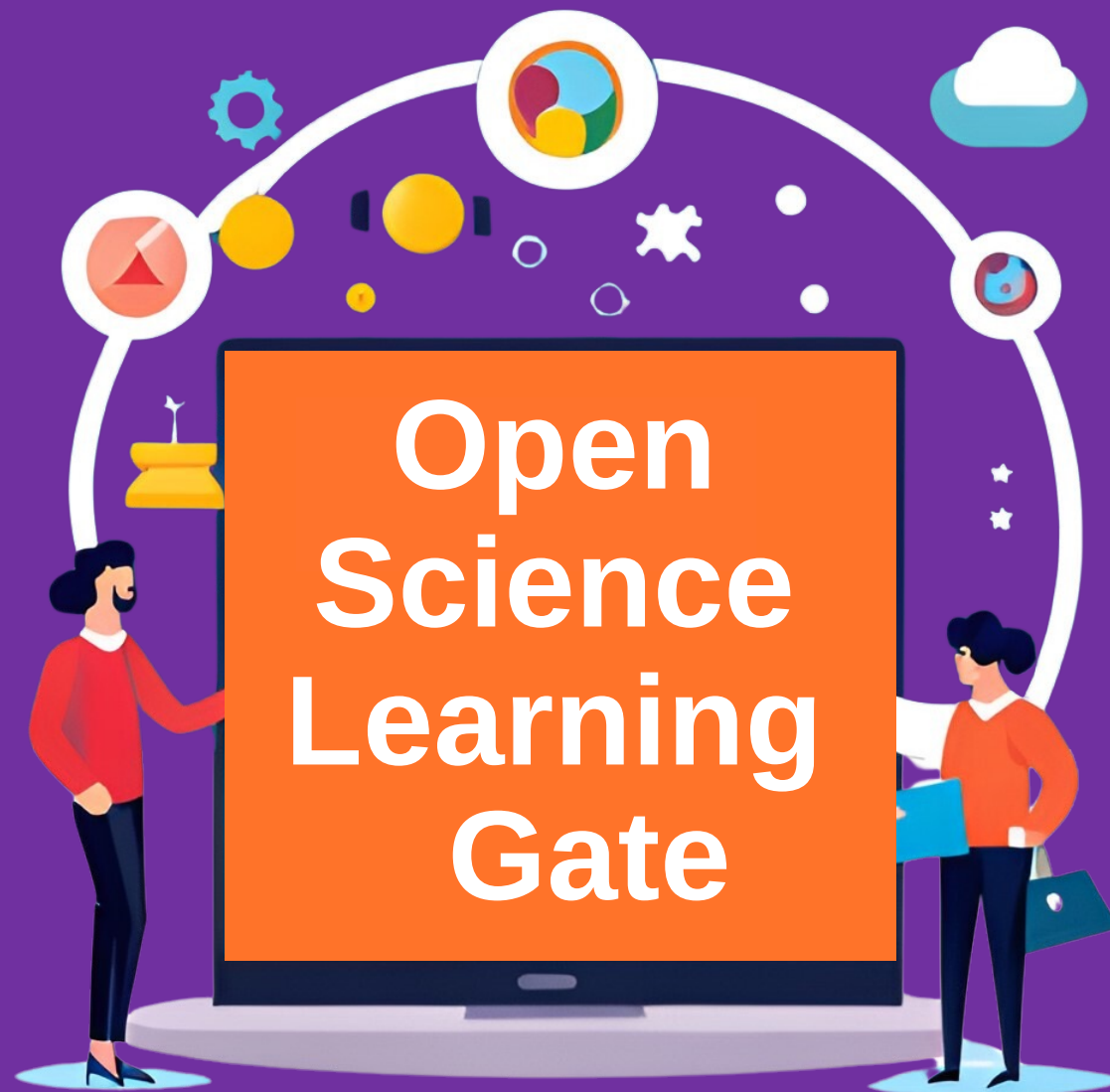
Progress towards engagement in EOSC: a report on the activities and impact of the EOSC Association Task Force "Upskilling Countries to Engage in EOSC"



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. Tjldink, 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**.



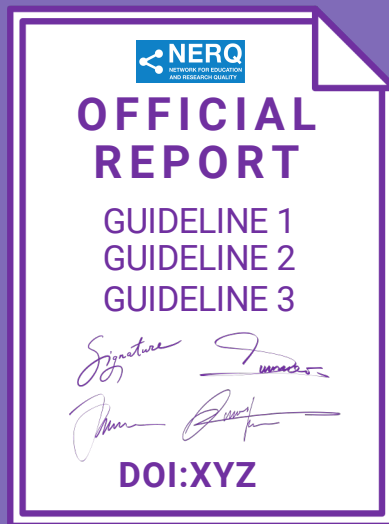
Figure:
Adapted from
EOSC's definition
of Actors in the
EOSC Ecosystem (1)

(1) European Commission, Directorate-General for Research and Innovation, Manola, N., Lazzeri, E., Barker, M. et al., Digital skills for FAIR and Open Science – Report from the EOSC Executive Board Skills and Training Working Group, Manola, N.(editor), Lazzeri, E.(editor), Barker, M.(editor), Kuchma, I.(editor), Gaillard, V.(editor), Stoy, L.(editor), Publications Office, 2021, <https://data.europa.eu/doi/10.2777/59065>, p.17;

The GATE

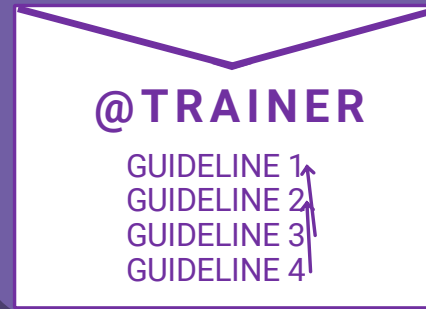
Community legitimacy

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



Continuous harmonization of OS standards

▶ Updating trainers



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

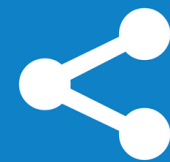


THANK YOU!

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

C | A | U

Christian-Albrechts-Universität zu Kiel



NERQ

NETWORK FOR EDUCATION
AND RESEARCH QUALITY



eosc



MILLER
INTERNATIONAL