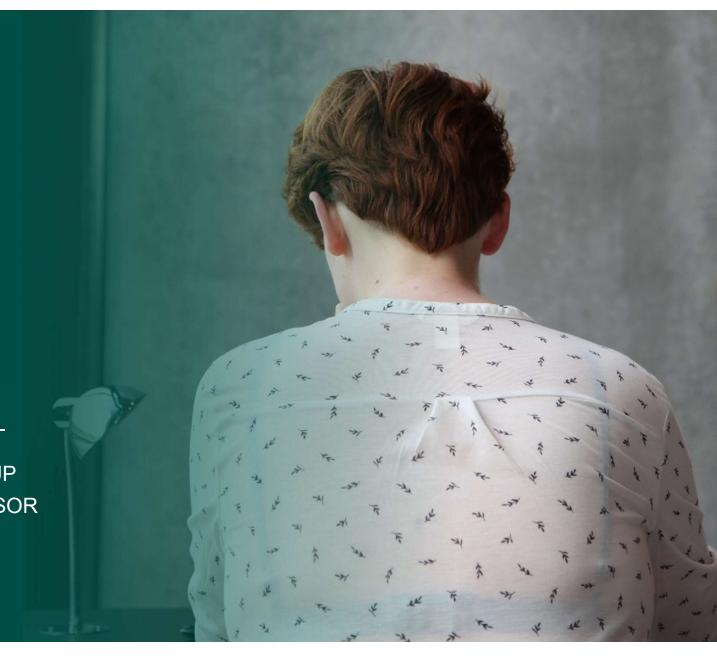
ROSKILDE UNIVERSITY

RE:ERUA - OPEN SCIENCE MEET-UP SACHA ZURCHER – SPECIAL ADVISOR APRIL 2023







OPEN SCIENCE - DEFINITIONS

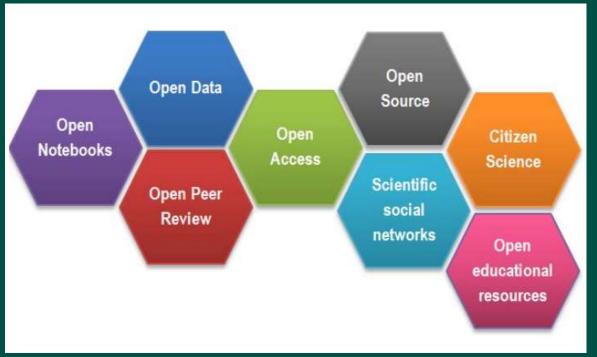
- OECD (2015): Open science refers to **efforts** to make the **output of publicly funded research more widely accessible** in digital format to the scientific community, the business sector, or society more generally.
- FOSTER (2018): Open Science is a movement which aims to make scientific research, data and dissemination accessible to all levels of an inquiring society.
- EC (Strategy 2020-2024): Open Science is an **approach** to the scientific process that focuses on **spreading knowledge as soon as it is available** using digital and collaborative technology.
- UNESCO (2021): Open Science is defined as an inclusive construct that combines various movements and practices aiming to make multilingual scientific knowledge openly available, accessible and reusable for everyone. It comprises all scientific disciplines and aspects of scholarly practices.

OPEN SCIENCE - CHARACTERISTICS

- Applies to all disciplines
- Implies public open access to scientific information
 - ✓ For other researchers as well as corporate and private users
 - ✓ Free of charge
- Includes principles and practices
 - ✓ Transparency, reuse, participation, cooperation, accountability and reproducibility for research
 - ✓ Data sharing, open notebooks, transparency in research evaluation, open source code, software and infrastructure, citizen science and open educational resources



OPEN SCIENCE FACETS



Source: https://www.fosteropenscience.eu/learning/open-science-at-the-core-of-libraries/#/id/5a01e2d1c2af651d1e3b1b3c

Source: https://research-and-innovation.ec.europa.eu/system/files/2019-

12/ec rtd factsheet-open-science 2019.pdf



New Generation Metrics

Future of scholarly communication

Rewards

Research integrity

Education and skills

Citizen science



OPEN SCIENCE AT UNIVERSITIES IN DENMARK

 All Danish universities focus on: Open Access to publications and FAIR data / RDM

Other Open Science facets more diverse at Danish universities

















Citizen Science



Citizen Science New generation metrics **Open Educational Resources** Research integrity

TEACHING OPEN SCIENCE AT UNIVERSITIES IN DK

FAIR data/RDM (can be as part of RCR/GDPR course)















Target group Ph.d. students













IT UNIVERSITY OF CPH

Scientific staff - mandatory

Open Access only

ECTS point given











Open Access only



TEACHING FAIR DATA AT RUC

- Course: Research data management and the FAIR principles in Open Science
- Mandatory: Ph.d. students
- When: each semester
- **ECTS**: 0,5
- Cooperation: RUC Unit for Academic Development (UAD) and RUC Library / The Royal Danish Library
- **Duration:** 9:00-13:30 including lunch
- Form: presentations, group work, exercises
- Link: https://events.ruc.dk/eae-research-data-management-20-apr-2023



TEACHING FAIR DATA AT RUC

Learning objectives



Assess the challenges in managing your research data (RDM)



Plan your research project in regards to research data (DMP)



Increase the visibility of your research data (FAIR)

Place the FAIR principles within the broader Open Science agenda



TEACHING FAIR DATA AT RUC

Challenges

✓ SSH and STEM

- · Quantitative vs. qualitative research data
- DMPs in research data life cycle
- 'A' in FAIR GDPR
- Misuse of research data (e.g. dual-use)

✓ Incentives

- Career possibilities
- Merits / metrics (e.g. citations)
- Demand from funders/ journals



THANK YOU – QUESTIONS?



RESOURCES AND LINKS

- **DeiC (2021):** National strategy for data management based on the FAIR principles https://doi.org/10.48715/ea59-tp35
- **Denmark's National Strategy for Open Access (2018):** https://ufm.dk/en/research-and-innovation/cooperation-between-research-and-innovation/open-access/Publications/denmarks-national-strategy-for-open-access
- **EC (Strategy 2020-2024):** https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/open-science_en
- FOSTER (2018): https://www.fosteropenscience.eu/taxonomy/term/7
- OECD (2015): https://doi.org/10.1787/5jrs2f963zs1-en
- UNESCO (2021): https://unesdoc.unesco.org/ark:/48223/pf0000378841

