ROSKILDE UNIVERSITY

RE:ERUA - OPEN SCIENCE MEET-UP
SACHA ZURCHER – SPECIAL ADVISOR
APRIL 2023
WHERE ARE WE LOCATED

RUC, Just outside Roskilde, 30 km from Copenhagen

Copenhagen
ABOUT US

• Founded in 1972
• 7,500 students and 950 employees (FTE)
• 819 million DKK in annual turnover
• PPL – Problem-oriented Project-based Learning
• Interdisciplinary approach

Read more at https://ruc.dk/en
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

EC eight pillars of Open Science

- Open Data / FAIR
- European Open Science Cloud (EOSC)
- New Generation Metrics
- Future of scholarly communication
- Rewards
- Research integrity
- Education and skills
- Citizen science


Source: https://www.fosteropenscience.eu/learning/open-science-at-the-core-of-libraries/#/id/5a01e2d1c2af651d1e3b1b3c
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
- Open Access only
- New generation metrics
- Citizen Science
- 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

Scientific staff - mandatory

And scientific staff

ECTS point given

Mandatory

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](https://doi.org/10.48715/ea59-tp35)


• **FOSTER (2018):** [https://www.fosteropenscience.eu/taxonomy/term/7](https://www.fosteropenscience.eu/taxonomy/term/7)

• **OECD (2015):** [https://doi.org/10.1787/5jrs2f963zs1-en](https://doi.org/10.1787/5jrs2f963zs1-en)

• **UNESCO (2021):** [https://unesdoc.unesco.org/ark:/48223/pf0000378841](https://unesdoc.unesco.org/ark:/48223/pf0000378841)