ROSKILDE UNIVERSITY LIBRARY

RE:ERUA - OPEN SCIENCE MEET-UP RESEARCH DATA MANAGEMENT & OPEN SCIENCE SACHA ZURCHER – SPECIAL ADVISER FEBRUARY 2024



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

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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, open access to publications, transparency in research evaluation, open source code, software and infrastructure, citizen science, open educational resources

Strategy RUC 2030: Interconnected

Cutting-edge interdisciplinary research

- We conduct cutting-edge research at the highest international level, and our aim is to develop a distinct interdisciplinary profile based on the social sciences and humanities combined with key contributions from natural, technical and health science.
- Our research is excellent, challenge-driven, and contributes to sustainable development in close interaction with the surrounding community: locally,
- The societal impact of our research always builds on fundamental principles of freedom of research, research integrity and open science.
- We aim to be an international hub for critical interdisciplinary research.
- Our aim is to offer coherent time for research, well-functioning research organisation and robust administrative research support.

Environmental, economic and social sustainability

- We strive to be a pioneering university for sustainable institutional and campus operations: economic, social and environmental considerations are always part of the university's long-term priorities.
- Our campus is a vibrant research, study and work environment where students, employees, alumni and external partners thrive and can combine their academic strengths and interests.
- We are dedicated to equality and diversity, in recruitment and retention of both staff and students, and in interaction and cooperation.

Problem-oriented and problem-led programs

- Our programs provide students with broad interdisciplinary knowledge and methodological competencies within our main academic areas, with particular focus on digital, ethical and democratic citizenship.
- Our aim is that all programs stimulate intense interdisciplinary engagement; students and researchers work together to put the research and its methods into play.
- Our aim is to attract committed Danish and international students, motivated by developing af sustainable future. All supervisors master and develop RUC's pedagogical model, Problem-oriented Project Learning (PPL), so that students can apply this approach in their studies and professional academic work.
- Our aim is to offer continuing and further education in collaboration with labour market partners.

Co-creators of societal change

- Our researchers and research communities contribute to address current and future societal challenges. They develop the role of universities in society through research dissemination, open innovation and citizen science.
- Our graduates are academically sound agents of change and competent project managers who are capable of applying their knowledge and competences in their jobs, and as entrepreneurs and opinion leaders
- Our community of faculty and staff foster collaboration in research and education, international alliances and in local and regional partnerships.

Mission

Roskilde University moves society forward through cutting-edge interdisciplinary research, teaching and learning.

Vision

Roskilde University will be a European front-runner in interdisciplinary knowledge creation that is locally embedded and globally connected, and will be known for its contribution to research-based sustainable change.

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Roskilde University

Focus Areas:

Citizen Science

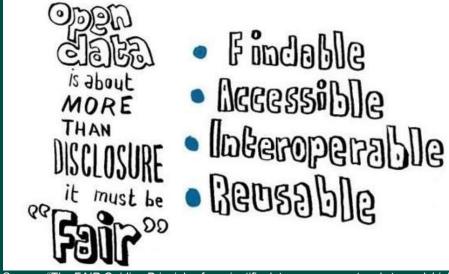
Open Access

Rewards & Incentives / Responsible Metrics

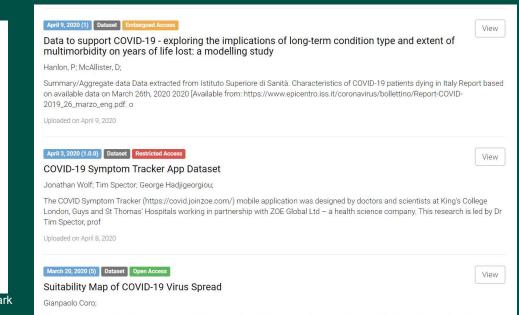
FAIR data



Open data vs. FAIR data



Source: *"The FAIR Guiding Principles for scientific data management and stewardship"*, Mark D. Wilkinson et al., Scientific Data 3, 160018 (2016) - http://doi.org/10.1038/sdata.2016.18



This image reports a Maximum Entropy model that estimates suitable locations for COVID-19 spread, i.e. places that could favour the

Source: zenodo.org

RUC

What can be defined as research data?



Qualitative Observational Irreproducible



4 out of every 10 people 5 out of every 10 people

ved in an urban area 6 out of every 10 people

7 out of every 10 people

vill live in an urban area

2050



Reference or canonical data Reproducible





Quantitative Observational/ simulations / experimental Irreproducible/ reproducible



Different data formats

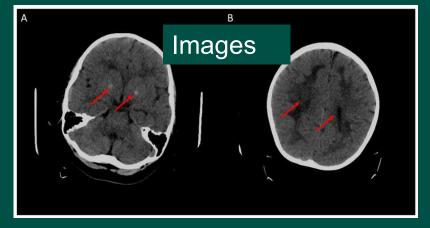
data/International medical cases

Location ^[a]	Cases ^[b]	Deaths	Recov.[c]	
152	215,565	8,893	84,402	
China (mainla	bul	ar	614	
Italy ^[e]		a	025	
Iran	17,361	1,135	5,710	
s Spain	14,746	638	1,081	
Germany	12,327	28	105	
France ^[f]	9,134	264	602	
: South Korea	8,413	84	1,540	
United States ^[g]	8,034	124	106	
Switzerland ^[h]	3,070	27	15	
United Kingdom ^[i]	2,630	104	65	(11)(
Netherlands ^{[j][k]}	2,059	58	-	[1][
Austria	1,646	4	9	
Norway ^[1]	1,557	6	1	
Belgium	1,486	14	31	
Sweden ^[m]	1,279	10	1	

Documentation[create]

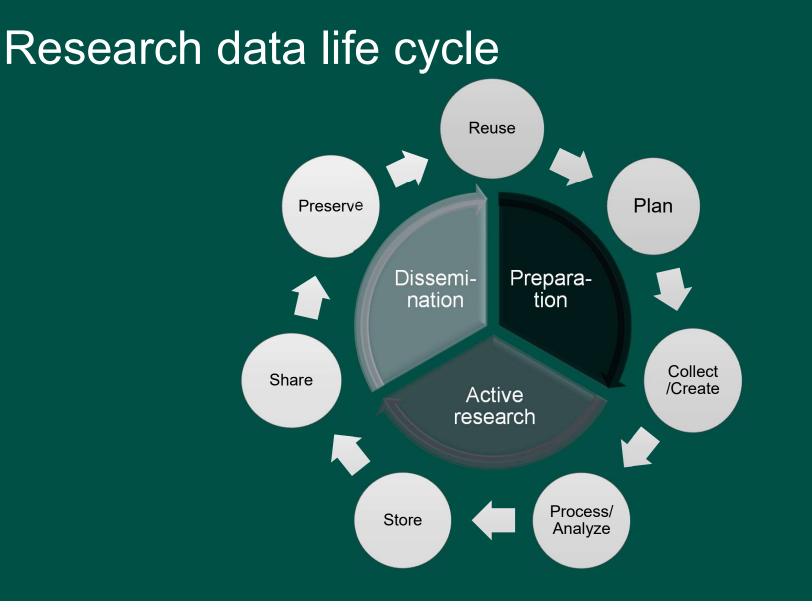
Editors can experiment in this template's sandbox (create | mirror) and testcases



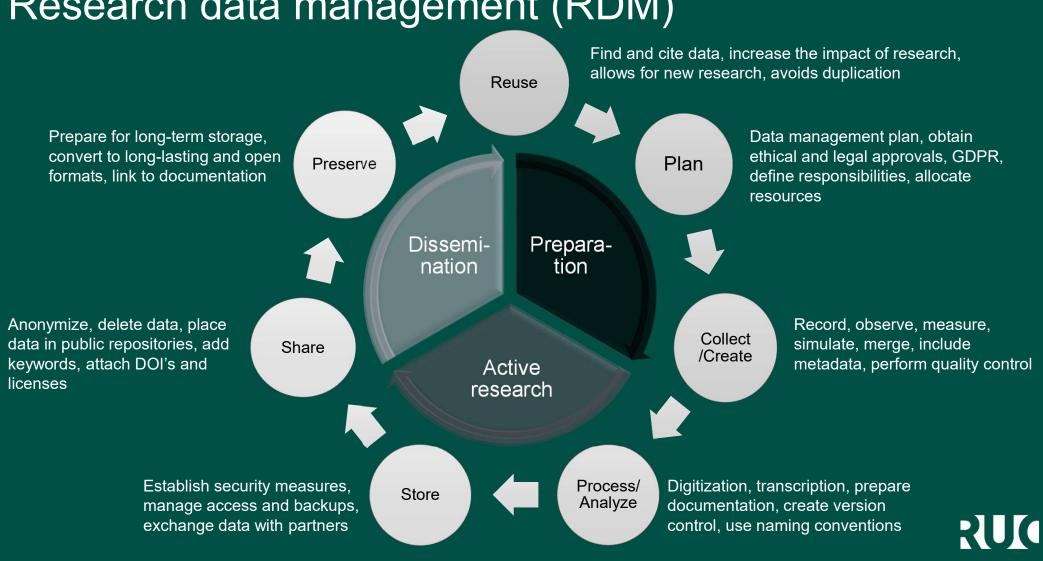




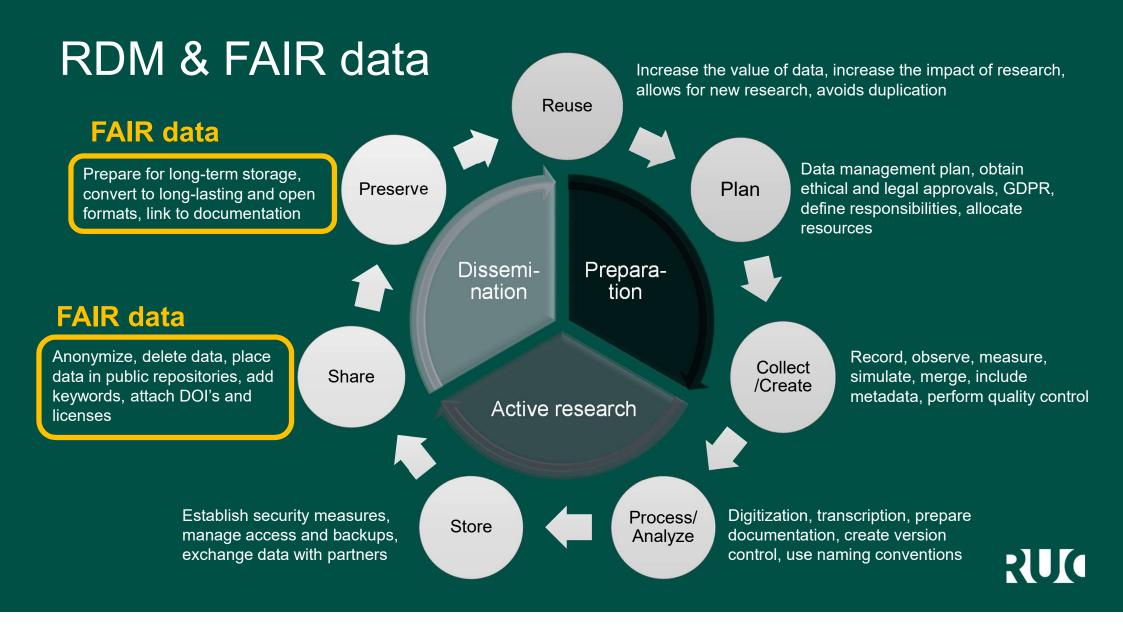
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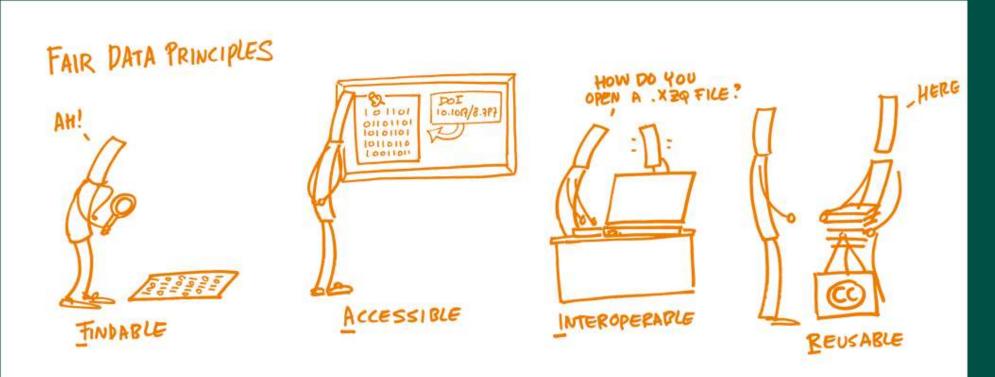


RUA



Research data management (RDM)





Source: https://book.fosteropenscience.eu/

- ✓ Publish searchable information online in a repository
- ✓ Link and cite published datasets
- ✓ Manage access to files in published datasets

- \checkmark Define rights for reuse of your data
- ✓ Describe your research data
- \checkmark Use open file formats

RUIO

FAIR – as open as possible, as closed as necessary



RUC

THANK YOU – QUESTIONS?

