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FOR SUSTAINABLE
RESEARCH DATA MANAGEMENT

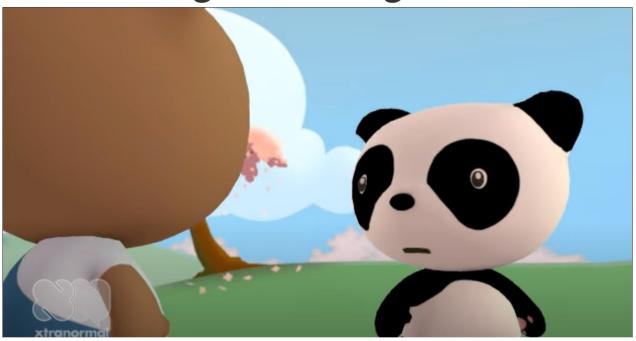


Research Data Management

Dr. Juliane Jacob 24.09.2024



Data Sharing and Management Video



https://www.youtube.com/watch?v=66oNv DJuPc



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Center for Sustainable Research Data Management

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- Central "operational unit" according to §93 HmbHG, assignment to VP 3
- Cooperation with RRZ and other data centers

Our services

- Consulting, training and information
- Research Data Repository (UHH-RDR)
- Research Information System (RIS)
- Providing of Digital Object Identifier (DOI)
- Tool and consulting for Data Management Plans (DMP)
- Curation of (web-) applications / Heurist database toolbox





Photo: Pauli-Pirat

Motivation

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Good Scientific Practice and Research Data Management

- Quality assurance of scientific work
- Guidelines for ensuring good scientific practice and behavior in case of scientific misconduct
- What are my tasks?
- What do I have to do personally?
- What am I responsible for?
- How do I do it?



What do we mean by research data?

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All data and materials used in research:

Measurement data, laboratory values, audio, video, texts, surveys, images, objects from collections, samples, algorithms, software, 3D data, scans, simulation data...

All data types, file formats, kilobyte to exabyte...

















What is Research Data Management?

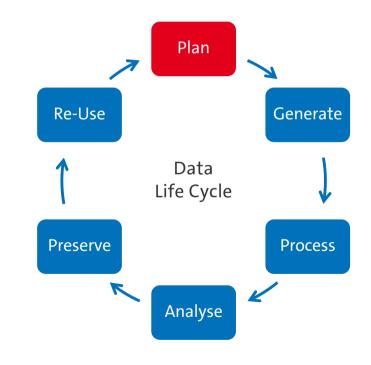
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"Process to ensure long-term usability of research data."

Longterm aspects

- Archive data, keep ready for at least 10 years
- Ensure data access in the case of closed access (data trustee, Treuhänder)
- Keep keys for encrypted data
- Keep software
- Maintenance of web applications



Daily Work

- Save work data
- Describe data
- Data exchange



Daily Work

- Save data
 - Naming Convention → Versioning: 20240924_GWP_Gasser_v1.ppt
 - File formats, software
 - 3-2-1-Backup Rule
- Describe data
 - Metadata (Schema)
 - Documentation, READme file
- Exchange data (B-identifier)
 - UHH Cloud
 - (UHH Share)





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READme



UHHCloud

Archiving, publishing Data

- Finishing thesis or leaving UHH: Handing over data properly, network drives, local data storage, etc. will be deleted!
- Legal aspects: Copyright, usage rights, sensitive data...
- Publish data, posters... in UHH research data repository www.fdr.uni-hamburg.de/ for testing https://staging.fdr.uni-hamburg.de/
- Publish articles open access https://www.oa.uni-hamburg.de/oaf



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Why is RDM important?

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- "Good Scientific Practice" reproducable results
- Research data is expensive
- Data publication data as a resource for new research
- RDM is very important for funders and applications
- DFG (checklist), EU, BMBF applications require Data Management Plans
- https://www.fdm.uni-hamburg.de/ueber-uns/a-nachrichten/fdm-dfgchecklist.html





What are best practices in RDM?

- Do it at all!!!
- Use established data formats and repositories, if available from your scientific community
- FAIR Findable, Accessible, Interoperable, Re-usable
- Use persistent identifiers (DOI)
- Use open licenses if possible (Creative Commons licenses)
- Observe data protection, legal situation, ethics
- Always make descriptive metadata freely available
- "As open as possible, as closed as necessary"



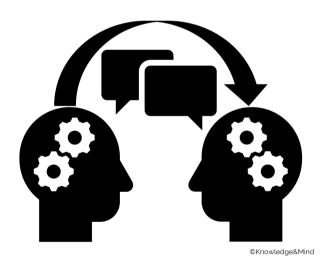
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Questions?





Kontakt



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