

# Establishing and formalizing Research Data Management

Anja Mertinkat, Austrian Institute of  
Economic Research



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# Steps

1. Identifying the need for RDM
2. Research
3. Gap analysis → Roadmap
4. Formalizing existing measures and establishing new policies and procedures where necessary
5. Building awareness, spreading information and training
6. Review, adjust, improve

# Research Data Management (RDM)

- Our definition of RDM includes the entirety of policies and practices that help our researchers and us as institution:
  - to ensure that we meet obligations towards funders, data providers and applicable laws;
  - to improve the efficiency of research and grant applications;
  - to make data FAIR (findable, reusable, accessible, interoperable) and thereby upholding research integrity.

# Resources (English)

- [www.dcc.ac.uk](http://www.dcc.ac.uk) (Digital Curation Centre)
- [www.jisc.ac.uk](http://www.jisc.ac.uk) (Provider of digital solutions for UK education and research)
- [www.ands.org.au](http://www.ands.org.au) (Australian National Data Service)
- [www.zenodo.org](http://www.zenodo.org) (use keywords data management or Forschungsdatenmanagement)
- [www.datacarpentry.org](http://www.datacarpentry.org) (workshops on the fundamental data skills needed to conduct research)
- [www.youtube.com/watch?v=66oNv\\_DJuPc](http://www.youtube.com/watch?v=66oNv_DJuPc) (Short animation about a data management horror story )
- <http://acrl.ala.org/techconnect/?p=2607> (An Elevator Pitch for File Naming Conventions)
- <https://rdmtoolkit.jisc.ac.uk/> (toolkit - signposting resources from a wide range of websites and organisations, sorted by topic and audience)
- <https://dmponline.dcc.ac.uk/> (data management plans)
- **Free online courses**
  - <https://mantra.edina.ac.uk/> (research data Management Training for different groups [Researchers, Students, admin staff] from the university of Edinburgh)
  - [www.futurelearn.com/courses/delivering-research-data-management-services](http://www.futurelearn.com/courses/delivering-research-data-management-services) (joint course by The University of Edinburg, DCC and research data Netherlands)

# Resources (German)

- [www.forschungsdaten.org](http://www.forschungsdaten.org) (RDM Wiki, including FDMentor resources)
- [www.e-infrastructures.at](http://www.e-infrastructures.at) (also available in English)
- Compendiums
  - [https://escience.aip.de/ak-forschungsdaten/wp-content/uploads/2013/09/Leitfaden\\_Data-Management-WissGrid.pdf](https://escience.aip.de/ak-forschungsdaten/wp-content/uploads/2013/09/Leitfaden_Data-Management-WissGrid.pdf)
  - [https://www.researchgate.net/publication/221657547\\_Handbuch\\_Forschungsdatenmanagement](https://www.researchgate.net/publication/221657547_Handbuch_Forschungsdatenmanagement)
- <https://campus.hesge.ch/researchdatamanagement/> (Swiss E-learning platform in German and French)
- [www.konsortswd.de](http://www.konsortswd.de) (provides services around research data in the social, educational, behavioral and economic sciences)
- [www.bausteine-fdm.de/](http://www.bausteine-fdm.de/) (tips and best practices)

# Gap Analysis

- There are a number of models/frameworks out there e.g.:
  - Collaborative Assessment of Research Data Infrastructure and Objectives (CARDIO) by the DCC
  - Research Data Management Framework: Capability Maturity Model (CMM) by the ANDS
  - Research Infrastructure Self-Evaluation (RISE) Framework by the DCC and the German version **RISE-DE by FDMentor**

# Challenges and lessons learned

- Lessons learned
  - Start with a general introduction course
  - Don't get lost, take one step at a time
  - Curb your enthusiasm
- General difficulties and stumbling blocks
  - Right balance between needs of researchers and admin staff
  - Trying to do everything at once
  - Convincing researchers that it helps them (stick vs. carrot)
  - Getting support from management
  - Take into account the resources you have (are you small or big, which services can you realistically provide)

Thank you for your attention!

Please feel free to contact me with questions,  
but especially to **exchange experiences and  
lessons learned!**

[Anja.Mertinkat@wifo.ac.at](mailto:Anja.Mertinkat@wifo.ac.at)



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