

# 23 Things: Support for Research Data

### Updated Version for the Dutch Community.

An overview of practical, free, online resources and tools that you can begin using today to incorporate research data management into your support practices.

Research Data Sharing Without Barriers

### Learning Resources

Data supporters have different professional backgrounds and are learning to provide services related to research data.

- A "top ten" list of recommendations for libraries to get started with research data management from LIBER, edu.nl/gtaff
- Relevant concepts are presented in a glossary at the Essentials 4 Data Support training website, edu.nl/emgym
- Understand the life of research data with examples of data life cycles at JISC and at RDNL, edu.nl/p4nke & edu.nl/j8cr6
- Check out MANTRA for more training modules for data supporters, edu.nl/mq9ah
- Read the current literature on research data management and contribute to the list, <u>edu.nl/t8kd8</u>

#### Data Reference & Outreach

Data supporters are answering questions about data from researchers and are conducting outreach to assess the data needs of their researchers and students. Learning Resources Data Reference and Outreach Data Management Plans Metadata Citing Data Data Licensing and Privacy Digital Preservation Data Repositories and a Community of Practice

- ... to help data supporters engage in research data management!
- Facilitate a community of researchers who are interested in communicating to the larger community, like the Data Champion Initiative, or join the Open Science Communities, edu.nl/fw7ct & edu.nl/xrt9m
- Develop engagement materials, such as the Best Practices of Data Management by DataOne or RDM Starter Kit by GOFAIR, edu.nl/4tgtk & edu.nl/bffv4
- Learn which local infrastructures and policies are in place to support researchers by checking LCRDMs RDM Put into Practice, edu.nl/43pqf

#### **Data Management Plans**

Data supporters are becoming familiar with funder requirements and consulting with researchers to help them write and implement effective data management plans.

- One example is DMPonline, a tool that builds a plan to set up DMPs by asking the researcher to answer a series of questions. Institutional and funder templates are available, <u>edu.nl/qxtbt</u>
- Consult DCCs catalog of public DMPs, edu.nl/7abtb
- Use outreach materials like LCRDMs Ten Tips for Writing a DMP, <u>edu.nl/w7r8k</u>

#### Metadata

Data supporters are helping to organize and describe research data and developing standards for metadata to make data more easily discovered, understood and preserved.

 Determine what metadata standard is appropriate to recommend or apply, <u>edu.nl/ct8en</u>





 Learn about the FAIR principles to understand the importance of metadata, edu.nl/knb87

#### **Citing Data**

Data supporters are helping to promote the scholarship of data and code, by encouraging and enabling data and code citation, assigning identifiers to datasets.

14. Learn how to cite data in publications and learn to explain data citation principles, <u>edu.nl/jnvxv</u> & <u>edu.nl/tukgt</u>

## Data Licensing and Privacy

When collecting and sharing data and code, researchers need to deal properly with licenses and protect confidential and sensitive data.

15. Can I reuse someone else's research data? helps to decide if data can be (re)used, How do I licence my research data? helps to choose a data license, and Choosealicense helps to choose a software license,

> <u>edu.nl/3ujnt</u>& <u>edu.nl/gdyy9</u> & <u>edu.nl/6bn3d</u>

16. Don't hesitate to contact local and national experts on issues related to data protection. Use Health-RIs ELSI Service Desk for health data, and LCRDMs Guidelines on Privacy, edu.nl/nxprx & edu.nl/qaj6j

#### **Digital Preservation**

Data supporters are working with the archival community to improve

archival interoperability. Archives should use community-agreed metadata standards and vocabularies.

- 17. Understand vocabularies and standards for digital archives using the Open Archival Information System reference model and take a look at trustworthy digital repository certifications such as CoreTrustSeal, the NESTOR Seal and ISO 16363, edu.nl/ajk3e & edu.nl/nn9vx & edu.nl/bfhn7 & edu.nl/6v4c3
- 18. Find tools that are available to help with digital preservation using the Digital Preservation Handbook, edu.nl/vaxwg

## Data Repositories

Trustworthy data repositories provide an important step towards FAIR data. Data uploaded to a repository will usually be assigned a persistent identifier, will be described with metadata according to the standard chosen by the repository, will be released with a license and will be made available via a standard, open protocol.

- 19. Find an appropriate repository by searching the regdata.org registry of research data repositories. Select repositories on criteria such as certification, discipline or costs, edu.nl/nt7wx
- 20. Publish and share data using free, online data repositories such as Zenodo or follow the archiving tips by RDNL,
  edu.nl/4mkvu & edu.nl/99xug

## **Community of Practice**

Data supporters are connecting with each other and a larger community of stakeholders to develop solutions and share best practices for research data management.

- 21. Examples of support communities are the LCRDM Pool of Experts, the DTL Data Stewards Interest Group and the UKB Working Group on Research Data, edu.nl/dd8hj & edu.nl/jgccq & edu.nl/34rdb
- 22. Subscribe to a mailing list to keep in touch with colleagues and receive updates about developments, for instance via LCRDMs national or JISCs international mailing list, edu.nl/tkfpp & edu.nl/bcdt3
- **23. Join the Research Data Alliance!** Belong to an international community and help build social and technical bridges to enable data sharing.

# Join the RDA activities in the Netherlands!

edu.nl/tp39u & edu.nl/p4fvy

## **Contact Information**

This document is an updated version adapted for the Dutch community by LCRDMs task group "RDAs 23 Things".

The original `23' version can be found at <u>edu.nl/w7e34</u>





