



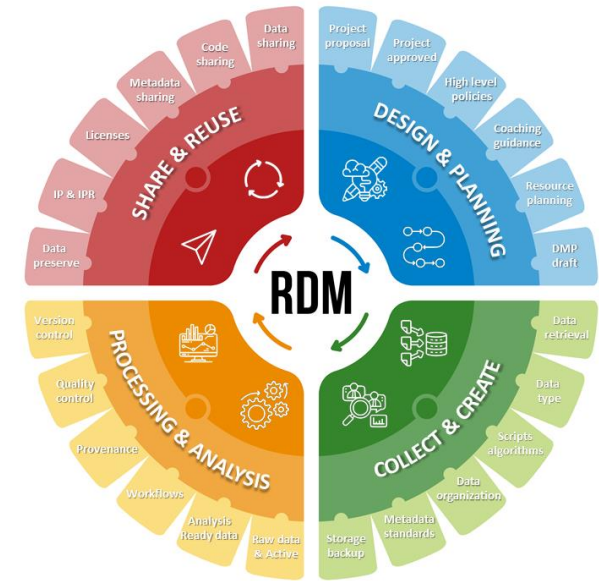
Leibniz Institute of
Ecological Urban and
Regional Development



Module 4 Data Management Plans (DMPs)

Data Managements Plan (DMP)

- DMP Rationale
- DMP Examples
- DMP Templates
- DMP Web-Tools
- DMP & SWOT analysis
- DMP/RMD Guidance



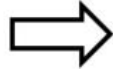
<https://doi.org/10.5281/zenodo.6602006>

DMP as a trigger

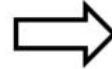
Trigger → Routine → Good Habits



THE TRIGGER



THE ROUTINE



& THE GOOD HABITS



RDM support community is growing

Service Center Research Data
is currently open to all DRESDEN-concept
partners *(Planned until 2025)*



<https://tu-dresden.de/forschung-transfer/services-fuer-forschende/kontaktstelle-forschungsdaten/kontakt>



RDM vs DMP

RDM is knowledge management. It encompasses all the **knowledge bricks** to properly manage all the research outputs.

DMP is an **operative formal deliverable, project and funding specific**. It addresses all the specific data management requirements for your project.



pixabay.com



Data Management Planning It Matters

“For data to be effectively managed it is necessary to consider **how the data will be managed long before** any data has been collected”.

“One **formal and effective way** to do this is the preparation of a Data Management Plan (DMP)”.

“DMPs **as projects deliverable** is often required by funders and institutions, especially for publicly funded research”.

“Living document” update regularly (6 months)



The screenshot shows a digital article page from Digital Discovery, a journal of the Royal Society of Chemistry. The article is titled "Data management matters" and is a review. The authors are Cerys Willoughby and Jeremy Graham Frey. The article discusses issues that inhibit the replication and reproduction of research, such as poor data management, competing standards, and a disconnect between publication and data management. It emphasizes the importance of documenting data and making it usable by both humans and machines. The article was received on 3rd December 2021 and accepted on 3rd March 2022. The DOI is 10.1039/d1dd00046b. The page includes a "Check for updates" button and a "View Article Online" link.

<https://doi.org/10.1039/D1DD00046B>



DMPs involve/get support - Stakeholders!

DMP is about collaboration and teamwork!

- Organization Data Governance
- RDM Support Service
- Funder Policy (DFG, BMBF, Horizon,...)
- Researchers (all roles), Data Managers
- IT infrastructure



Funders DMP Templates



[European Research Council \(E.g. Horizon Europe\)](#)



[Deutsche Forschungsgemeinschaft \(DFG\)](#)



[Bundesministerium für Bildung und Forschung \(BMBF\)](#)



[Science Europe DMP Guidance](#)



DMP Web-tools

 **DMPTool**
Build your Data Management Plan

UQ RDM

 **DMP ONLINE**

RDMO

easy.DMP
Create data management plans

argos

 **DSW**

DataWiz

 **ezDMP**
Data Management Plans Made Easy



DMP, Backward thinking

Think to those users not familiar with your data

- What the community would expect?
- Formats?
- Naming convention?
- Documentation?
- License?
- Etc...



DMP as SWOT analysis for SMART research outputs

Specific
Measurable
Achievable
Relevant
Time-Bound

To develop **strategic**
and
SMART goals



DMP as SWOT analysis for your research outputs



- DMP as research Quality Assurance tool (prevent/avoid/adapt)
- Maximize FAIRness research outputs
- Setting SMART goals
- Policy alignment



DMP as SWOT analysis for your research outputs



- Lack resources, Infrastructure
- Lack skills data producers
- Missing incentives
- More work load (at the beginning)



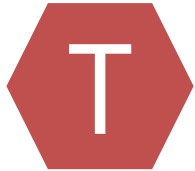
DMP as SWOT analysis for your research outputs



- Build Open Science skills
- Data culture change
- Impact, Research outreach and dissemination
- Capacity planning, service network
- Apply for eligible costs

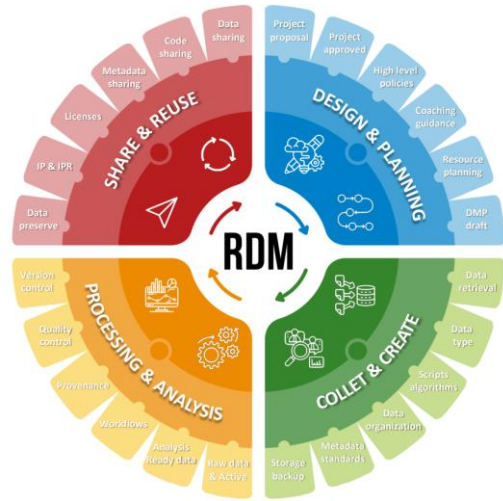


DMP as SWOT analysis for your research outputs



- Burden - DMP for the funders (not for you)
- Heterogeneous policies, Templates, funder requirements
- Data privacy





<https://doi.org/10.5281/zenodo.6482340>

DMP → Guidance



<https://doi.org/10.5281/zenodo.6504928>

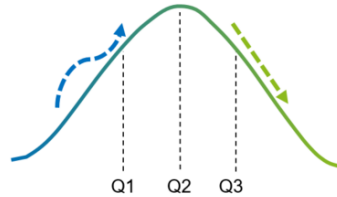
Raw data



Published data



RDM
Best Practices



Machine learning



Leibniz Institute of
Ecological Urban and
Regional Development

**Thank you
for your attention**

www.ioer.de