

Data management requirements from the RCN

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“National Strategy on access to and sharing of research data” 19/12/2017



Publicly funded research data refers to:

- (i) **data collected or generated** for use for or as a result of publicly funded research, and
- (ii) **data underpinning publications** that are the result of publicly funded research, regardless of the source of the data.

“National Strategy on access to and sharing of research data” 19/12/2017



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Basic principles:

1. Research data must be as open as possible, as closed as necessary.
2. Research data should be managed and curated to take full advantage of their potential.
3. Decisions concerning archiving and management of research data must be taken within the research community.

“National Strategy on access to and sharing of research data” 19/12/2017



Stipulations to draw up data management plans

*Researchers are facing **stricter requirements and greater expectations** concerning research data management from scientific journals, research funders and their own institutions.*

The Government expects:

the research institutions to develop procedures for (i) approving data management plans...

FAIR-principles

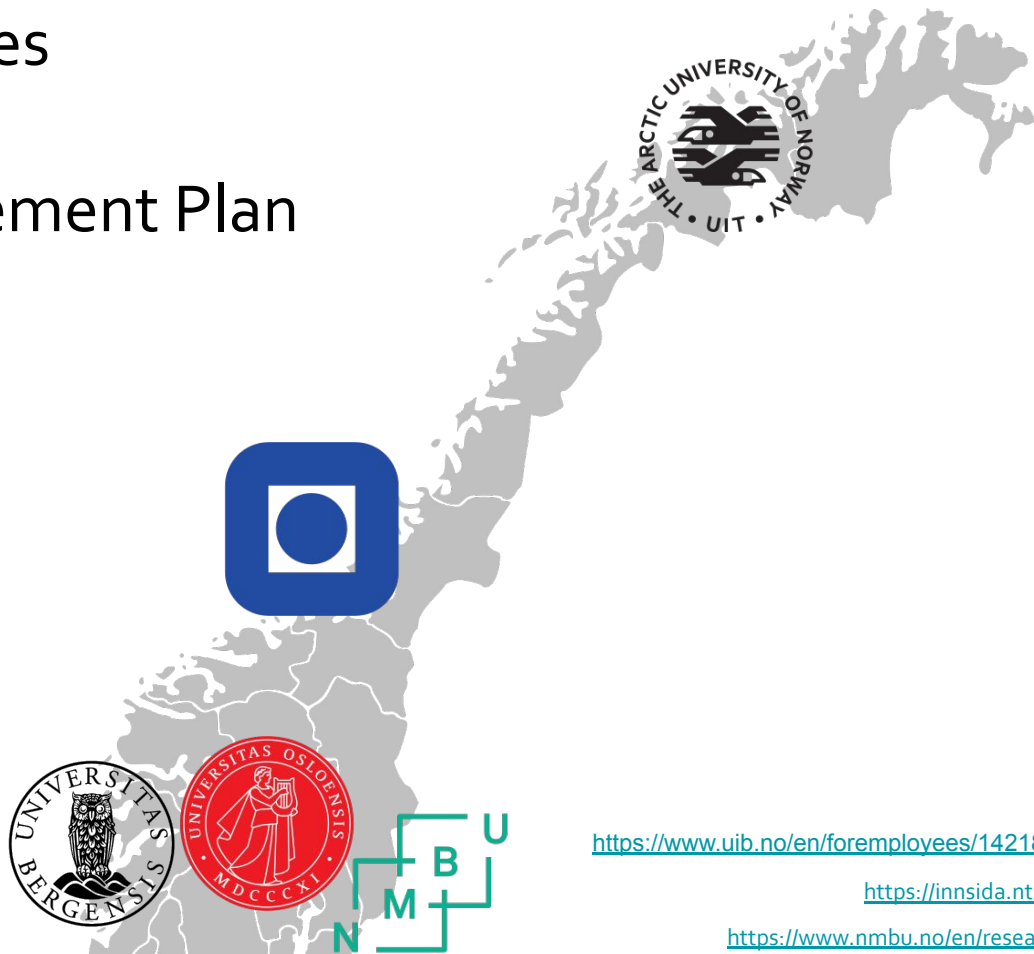
Data Management Plan

Storage

Archival

Ethics

Deposition



<https://www.uib.no/en/foremployees/142184/university-bergen-policy-open-science>

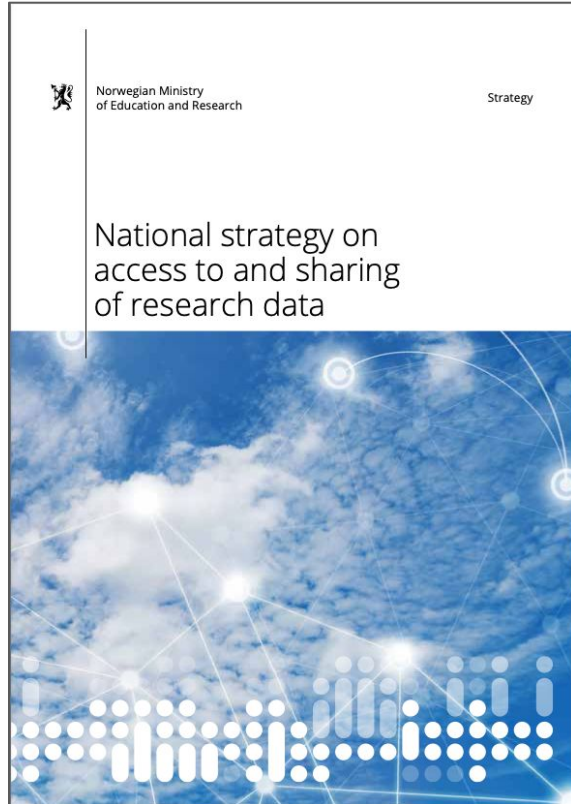
<https://innsida.ntnu.no/wiki/-/wiki/English/NTNU+Open+Data>

https://www.nmbu.no/en/research/for_researchers/researchdata/node/34680

<https://www.uio.no/english/for-employees/support/research/research-data-management/policies-and-guidelines/index.html>

https://intranett.uit.no/Content/532111/cache=20170109133727/Principles%20and%20guidelines%20for%20research%20management%20at%20UiT_010917.pdf

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The strategy applies from 2018 to 2021

- an evaluation planned for summer 2021.

The Research Council of Norway's Policy for Open Access to Research Data

Originally 2014, updated Dec/2017



New:

“... requiring that R&D-performing institutions or companies should assess whether projects receiving funding from the Research Council must develop a **data management plan**.”

and

“The **FAIR Guiding Principles** for scientific data management and stewardship are included as a main principle in the Research Council's policy”

RCNs guidelines for storage, dissemination and sharing of research data



Research data...



Research data...



...must be stored/archived in a safe and secure manner.



Research data...



...must be stored/archived in a safe and secure manner.



...must be made accessible for reuse.



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...must be made accessible for reuse.



...should be made accessible at an early stage [latest at publication]



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...must be accompanied by standardised metadata.



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...must be accompanied by standardised metadata.



...must be provided with a license for access, reuse and redistribution.



Research data...



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...should preferably be made accessible at no charge.



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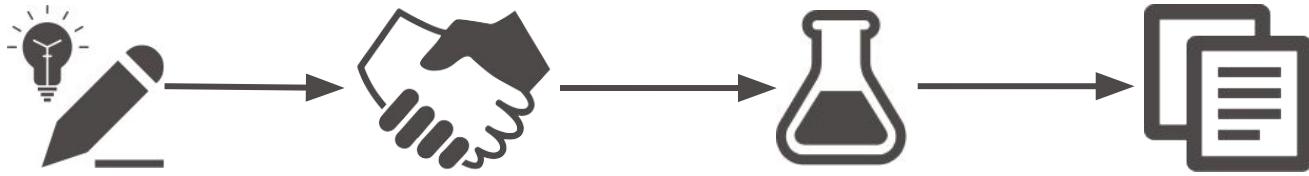


...should preferably be made accessible at no charge.



... must be described in a data management plan.

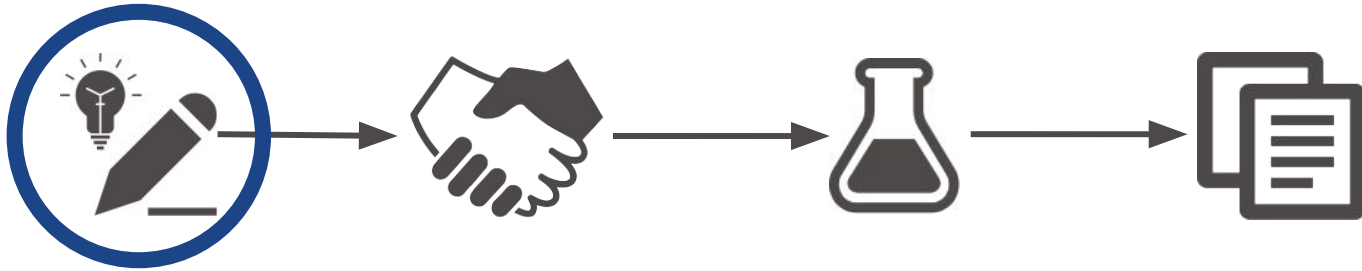
DMP requirements in an RCN project



DMP requirements in an RCN project

Project planning and proposal:

No DMP required

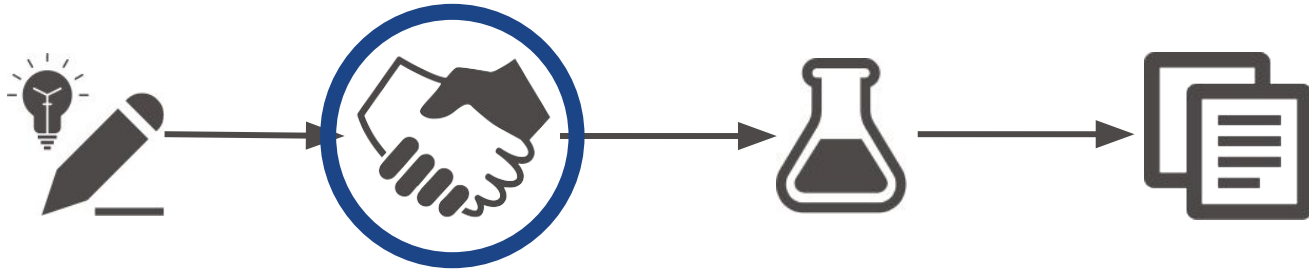


But, you should consider:

- Ethical and legal aspects
- Storage and computing (budgeting?)
- DM personnel and time (budgeting?)

DMP requirements in an RCN project

When awarded funding from RCN:
Full DMP required



“This plan must be delivered in connection with the revised grant application.”

“If you decide that a data management plan is not needed, you must provide an explanation.”

Core requirements to data management plan

Published 2019





Core requirements to data management plan

6 core requirements:

Data description & Collection/re-use

Documentation & Data quality

Storage & Backup

Legal & Ethical requirements

Data sharing & Preservation

Responsibilities & Resources



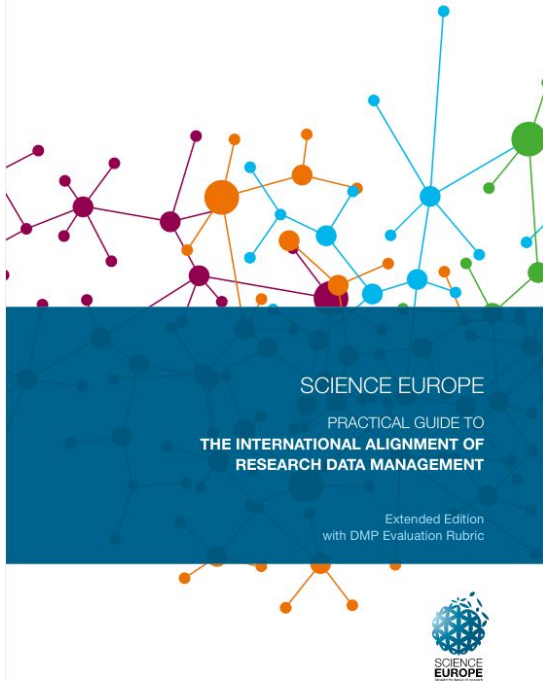


Core requirements to data management plan

Updated Jan 2021

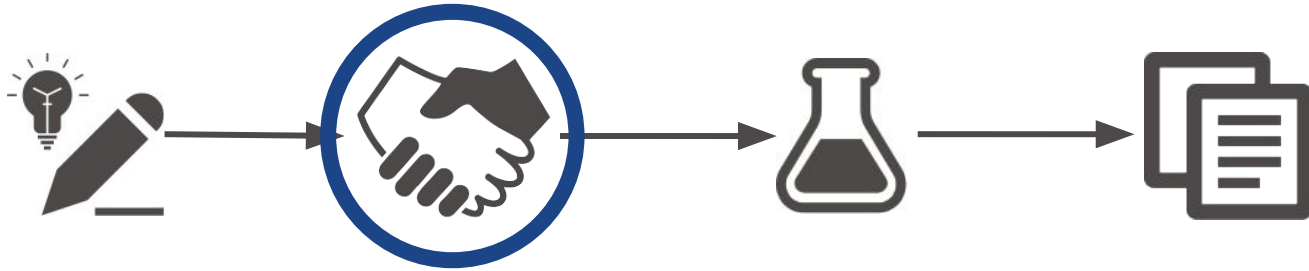
- Including guidance for reviewers (evaluation rubric)

RCN does not [yet?] refer to the updated guide



DMP requirements in an RCN project

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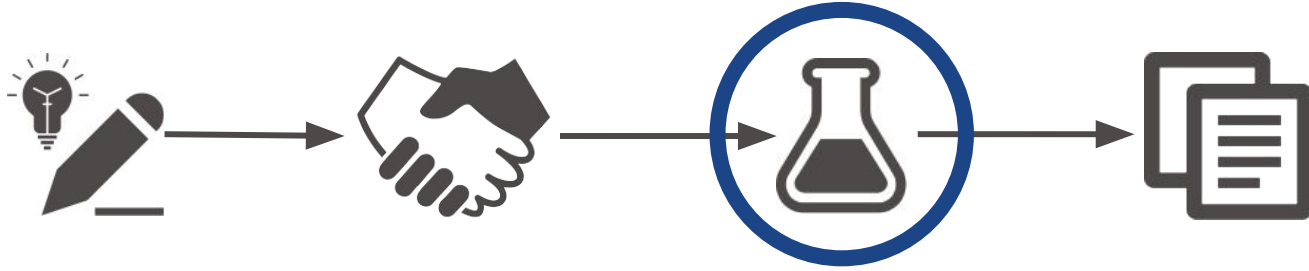


Public and openly accessible!

One possibility is **zenodo**

DMP requirements in an RCN project

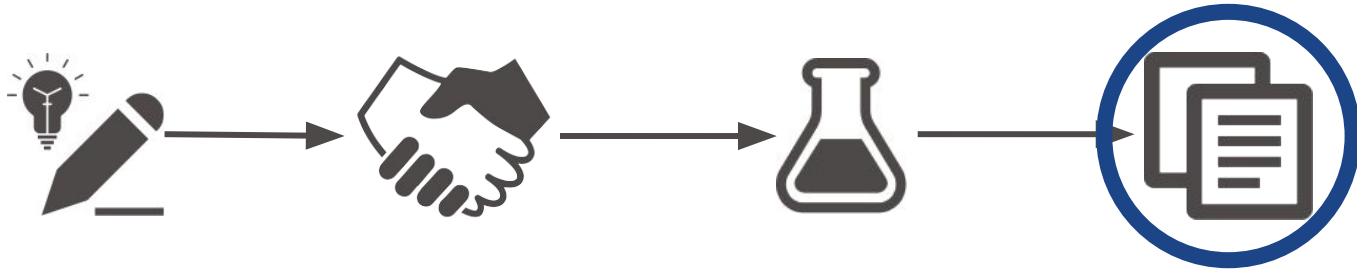
During your project:
Update the DMP



“You will not be asked to report on changes to the plan during the project period.”

DMP requirements in an RCN project

Final report of project:
Final version of DMP

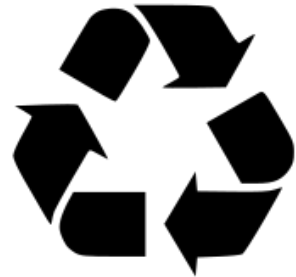


“We will request a final version of the data management plan in connection with the final report of the project.”

Data quality

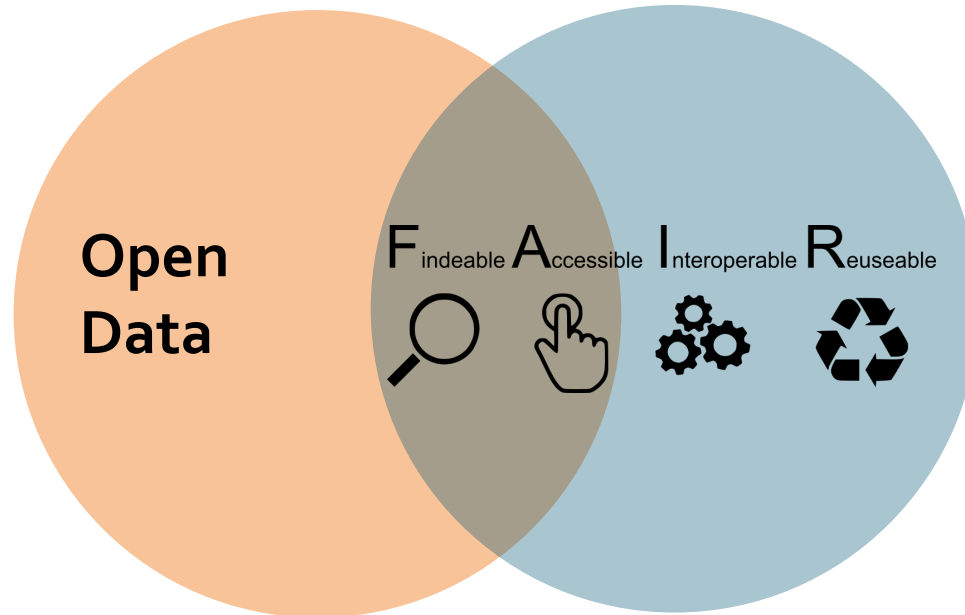
RCN recommends following the international FAIR principles

Findeable **A**ccessible **I**nteroperable **R**euseable



Data quality

RCN recommends following the international FAIR principles







Horizon 2020

"as open as possible, as closed as necessary"

“Beneficiaries **must develop and update a data management plan (DMP)** and manage responsibly all digital research data generated in the action in line with the **FAIR principles.**”

Open Research Data Pilot (ORD pilot):

“...takes into account the need to balance openness and protection of scientific information, commercialisation and Intellectual Property Rights (IPR), privacy concerns, security as well as data management and preservation questions.”

Evaluation of the INFRASTRUKTUR initiative as a funding instrument

May 2021



RESEARCH FOR INNOVATION AND SUSTAINABILITY

- **All types of research funding should require a proper data stewardship plan that includes data management during the project.** The data stewardship plans must also ensure that research data be available for access and reuse where appropriate and subject to **appropriate safeguards**, also after completion of the project (suggested time frame: 10 years) and also cover provisions for appropriate long-term preservation. These aspects should be based on compliance with the FAIR guiding principles and **include budget plans.**

- **RCN should develop a proper and effective policy for data stewardship** so that the data generated through their investments do not go to waste and science is properly served. Such a data stewardship policy should be implemented in the **applications scheme** with relevant criteria for receiving RI funds. The policy should be developed in close dialogue with the RPOs to ensure that the institutions implement it together with their data strategies to create a **data-responsible Norwegian research system**. This policy should particularly ensure that all new undertakings include a data stewardship plan or protocols that explicitly address data capture, management, integrity, confidentiality, retention, sharing and publication.

Thank you!

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