

Towards Open Science: Developing Workflows for Archiving & Publishing Data

How to achieve: “as openly as possible, as closed as necessary”?



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New: Policy on Research Data Management

Most research projects need a Data Management Plan (DMP)

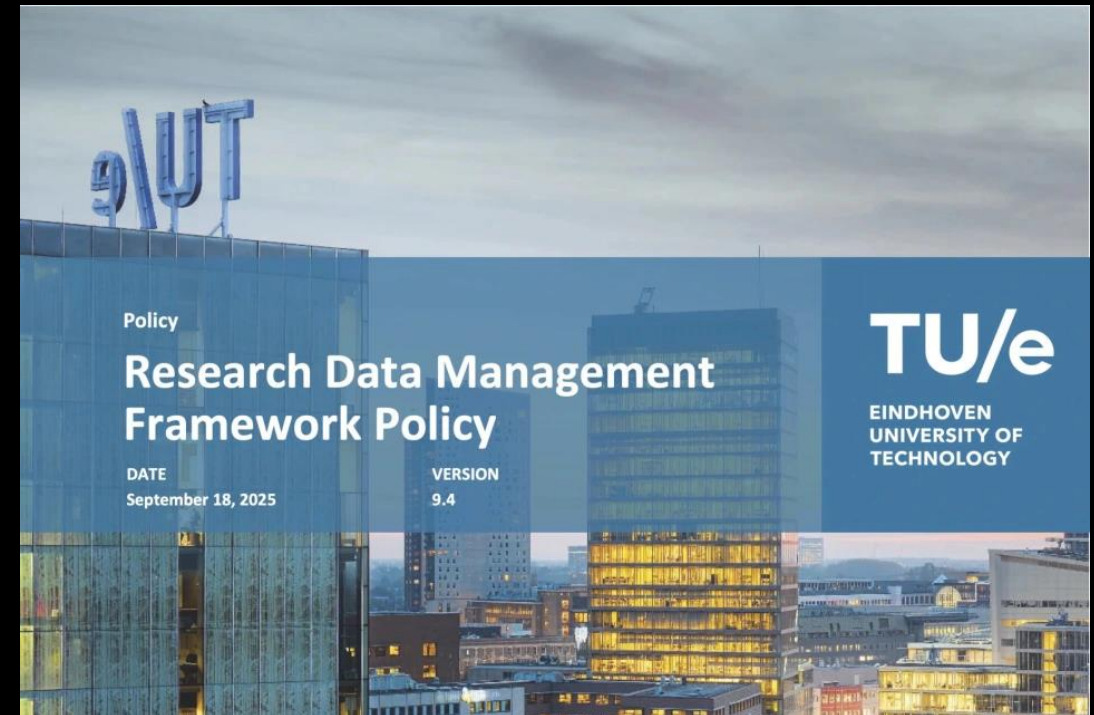
PhD candidates need to submit their DMP to Hora finita

More info:

[TU/e Intranet: Research Data Management Framework Policy](#)

The data stewards team offer presentations.

Contact: rdmsupport@tue.nl



Policy PDF: <https://zenodo.org/records/15309047>

**My story as a Data Steward does not
make sense, except in the light of**

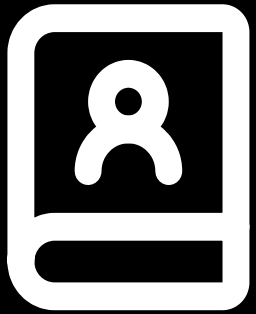
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**My story as a Data Steward does not
make sense, except in the light of
Open Science.**

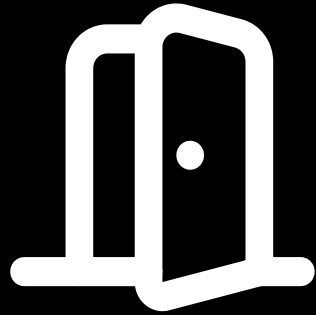
Open Science is not only about publications. It's also about data—making data **FAIR.**

What is FAIR data?

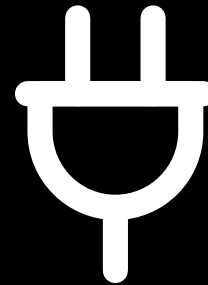
Findable



Accessible



Interoperable



Reusable



Open Data

FAIR Data

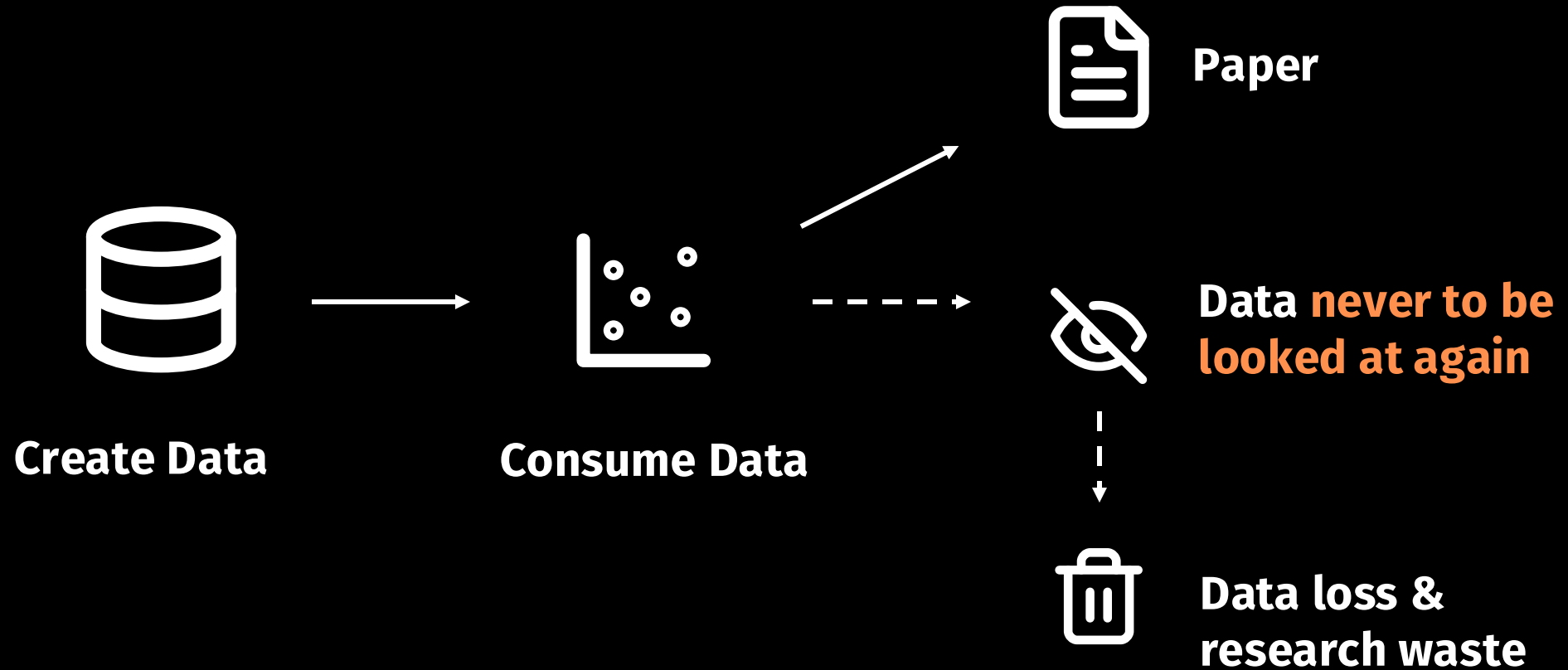
A photograph of a grand, historic library interior. The space is characterized by high, vaulted ceilings with a large, arched skylight at the far end. The walls are lined with floor-to-ceiling bookshelves, densely packed with books. The architecture features ornate details, including arched windows and decorative moldings. The lighting is warm and focused, highlighting the vastness and historical significance of the space.

Research Data as a Public Good

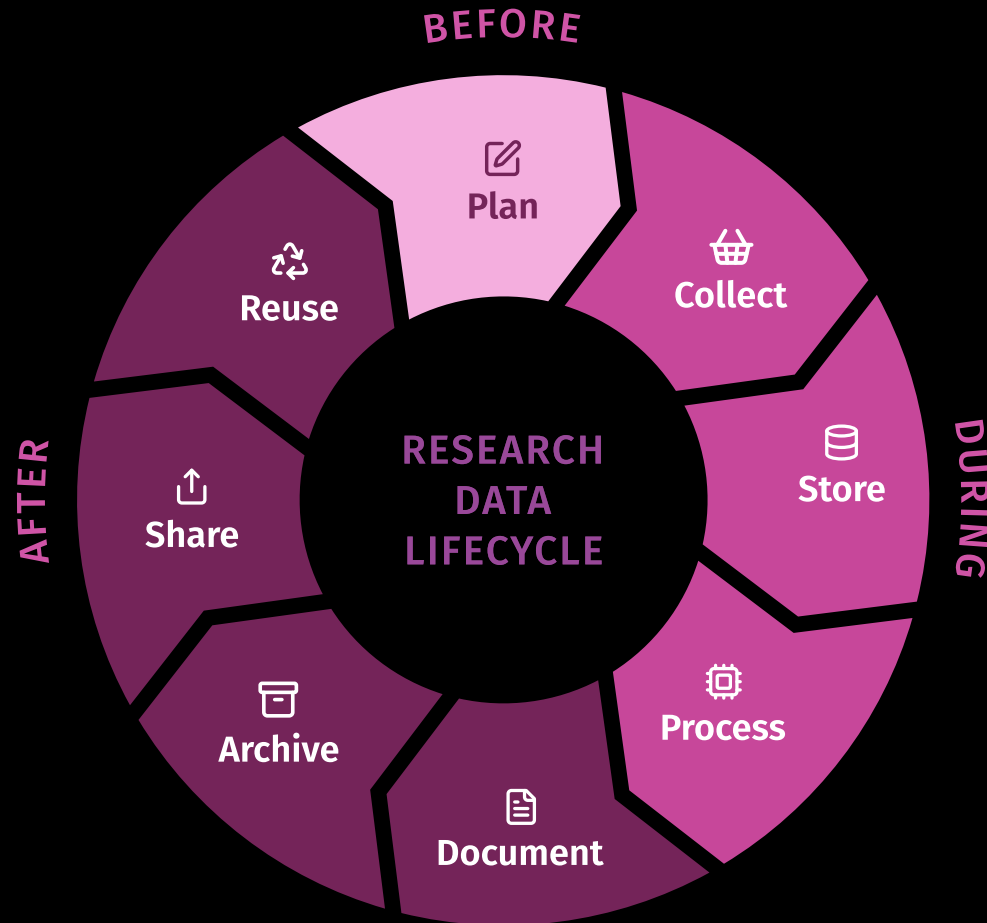
OECD Principles and Guidelines for Access to Research Data from Public Funding (2007)

**Data stewardship:
Taking care of data well**

We used to mistreat research data



We can take care of data better in a lifecycle



Plan ahead to avoid hassle at the end

Effort

**“No time to spend
for planning now.”**

**“What did I do
again?”**

**“Where’s my
data?”**

Project Start

Project End



Ideal:

Start with the end in mind

Effort

**Completing a Data
Management Plan**

**Archiving &
publishing data
as planned**

Project Start

Project End



What is archiving and publishing data?

Archiving: To demonstrate the **integrity of research**

Each publication requires an
archival package

Archival package is usually kept
internal

TU/e Archival Solution is under
development ([RAPS](#))



Photo by [Jason Dent](#) on [Unsplash](#)

Publication package: To **share your data**

The goal is to share data with future data users (including you in the future)



Publication

Archival

Goal

To share



To demonstrate
integrity



Access

Public



By default

Can be restricted



How can we archive and publish?

My suggestions for the workflow

(Note: Please chime in if they don't work for you!)

Suggestion 1

Use **Research Cockpit** to register projects as soon as possible

<https://cockpit.research.tue.nl>

Getting an ID for
your project

Completing a Data
Management Plan

Suggestion 2

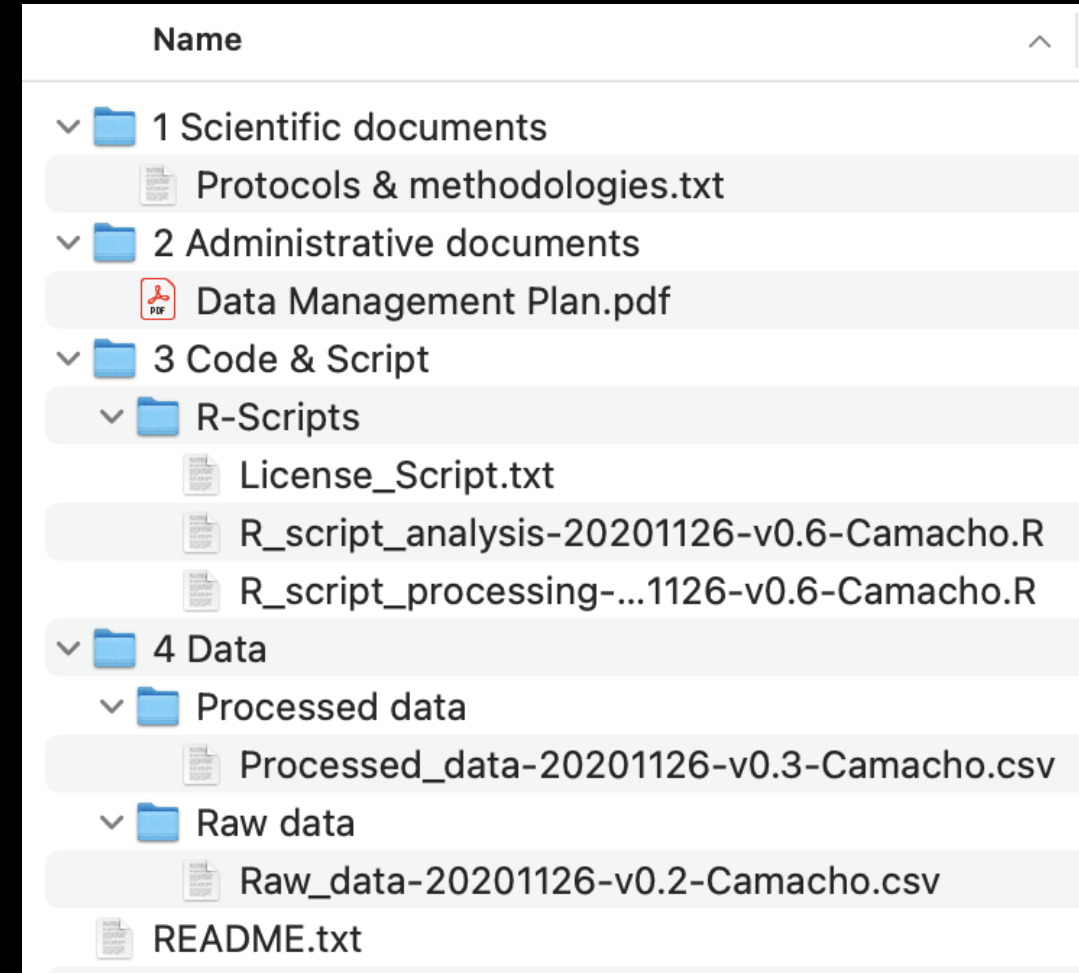
Reserve a DOI for the project beforehand

You can put the DOI when creating a Data Management Plan



Suggestion 3

Store data in a
packaged way during
research



Suggestion 4

Decide on a default license for data that can be shared publicly

Data stewards' suggestion: **CC BY 4.0** for data & **MIT** for code

Suggestion 5

Share early with **metadata-only
record** without uploading data

(especially relevant for data that cannot be shared publicly)

Timeline	To Do	Resource
Project Start	Project Registered & DMP Created	Research Cockpit
	DOI Reserved	4TU.ResearchData / Zenodo
	Data Stored in a Packaged way	Data packaging guideline
Publication submitted	Metadata-only record published	4TU.ResearchData / Zenodo
Publication accepted	Data published	4TU.ResearchData / Zenodo
Project End	Data archived	TU/e RAPS (coming soon)

Suggestion 6

**Reach out to the data
stewards team for
questions**

rdmsupport@tue.nl

rdm.tue.nl



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We all already do data stewardship

Further resources

More info on RDM

[Data Stewards | Intranet](#)

[TU/e Research Data Management Handbook](#)

[Search Storage | Storage Searcher](#)

Create a DMP/ ERB

[Research Cockpit](#)

Contact Data Steward

[**rdmsupport@tue.nl**](mailto:rdmsupport@tue.nl)

TU/e RDM Policy

[Policy PDF:](#)

<https://zenodo.org/records/15309047>