

Get to know 4TU.ResearchData

Schedule

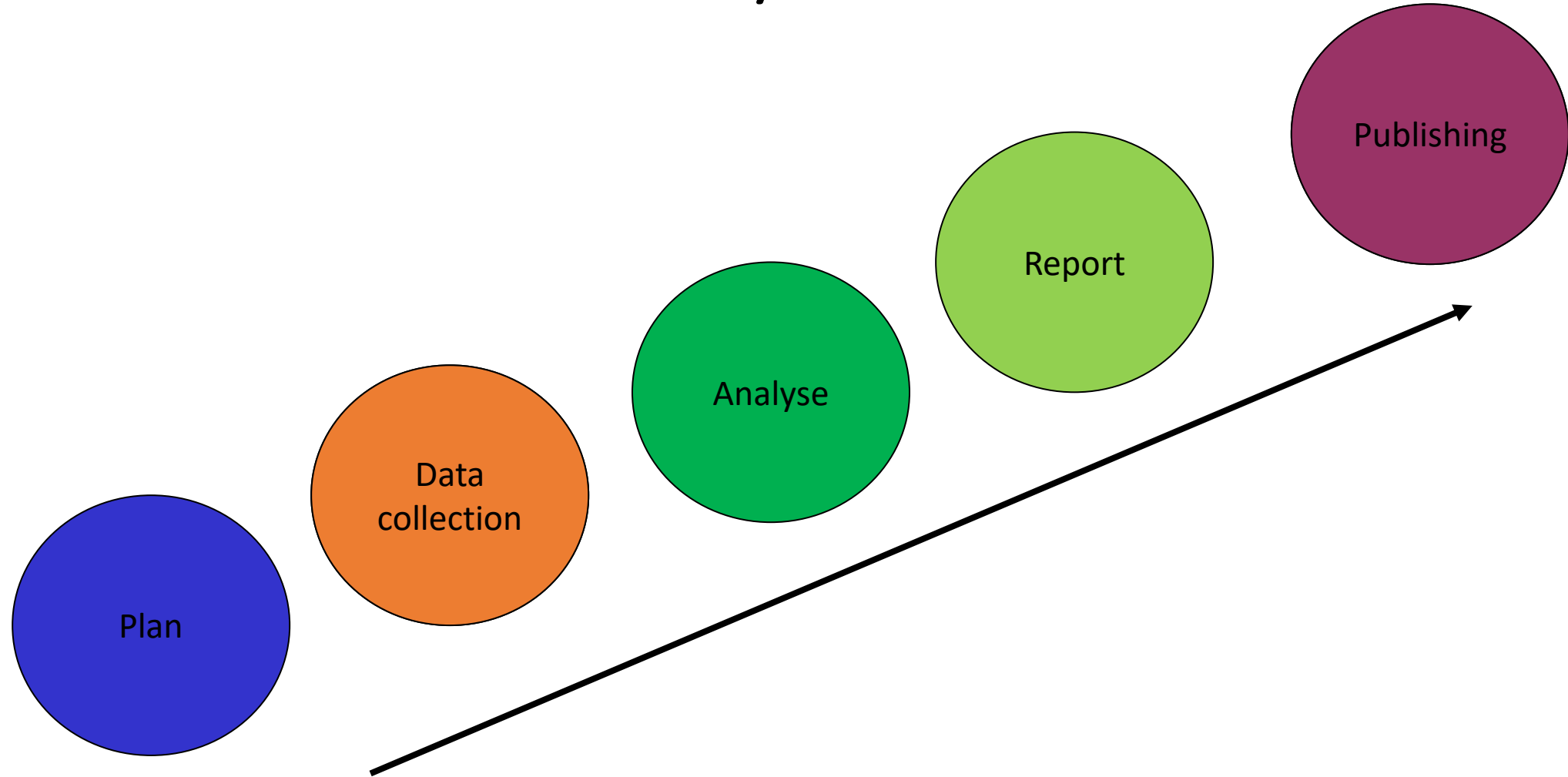
1. What is **4TU.Research Data**?
2. **Why** would you archive your data and use 4TU for that?
3. **Procedure to upload** a software/dataset to 4TU
4. **Git integration in 4TU**. How does it work?



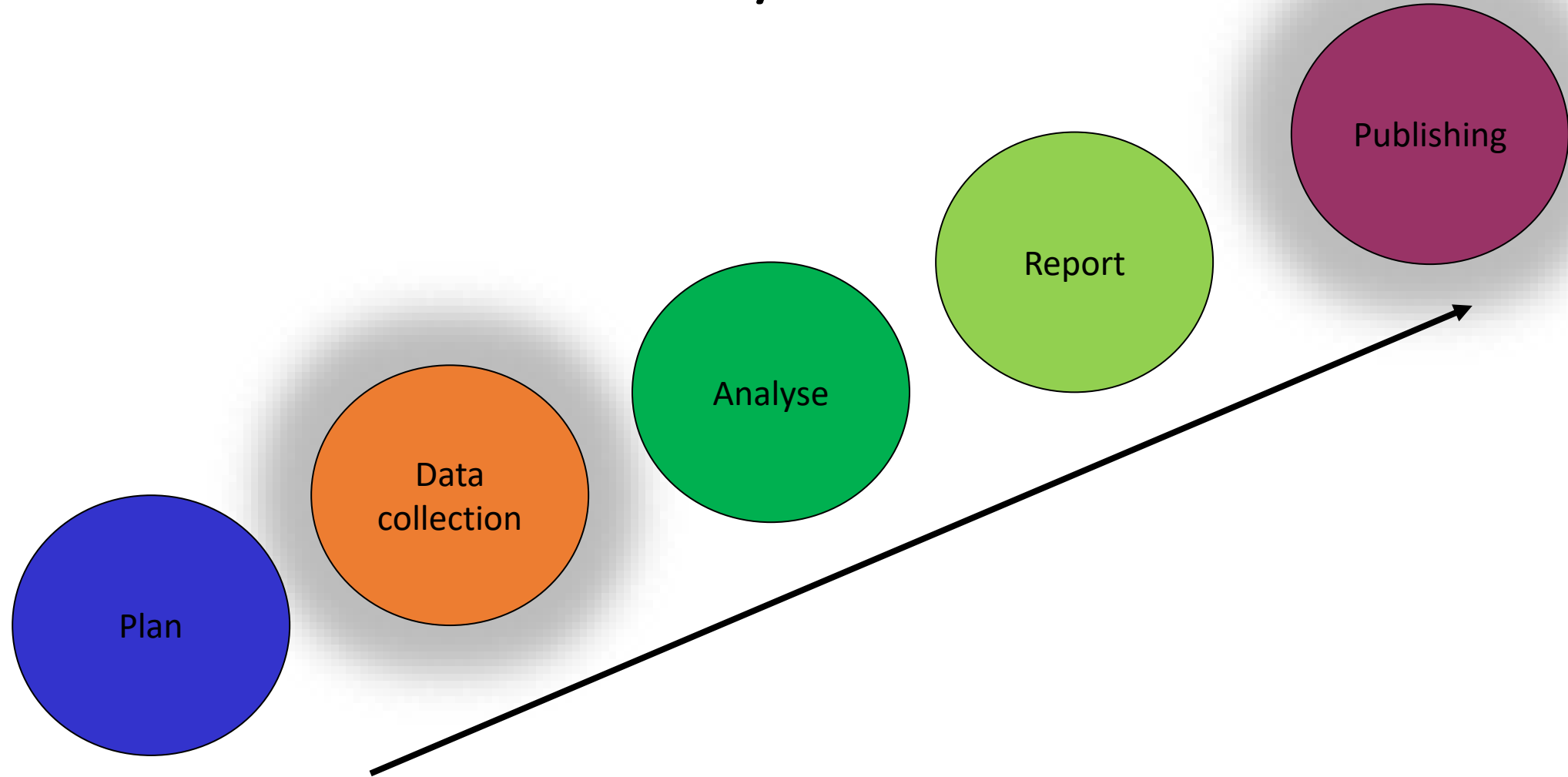
What is 4TU.Research Data?

- **Curated** data and software depository for science, engineering and design.
- Supports publishing and “**long-term**” preservation.
- Expands the ability to re-use (collaborate) your data
 - Link the data metadata to [Datacite](#) which ensures your data is findable across other website services like Google scholar for papers.
- The philosophy is not to store large datasets comprising petabytes of data, but to manage multiple data objects in a way that facilitates their reuse.
 - Serving netcdf files through the opendap protocol
 - Serving images files through the iiif framework (in-development)
- Unique repository within the Netherlands that provide support for sharing and long-term preservation of both research data and software from the entire NES domain.

4TU.Research Data role within the research life cycle



4TU.Research Data role within the research life cycle



In the context of FAIR data

- **Findable:** DOIs, landing page, curated metadata export to aggregators
- **Accesible:** Access control, format specific optimizations (like Git and OpenDAP protocol)
- **Interoperable:** Git, NetCDF, IIIF, recommended file formats
- **Reusable:** File download, licensing options, [webAPI](#)

Why would you archive your data?

- Your data is safe and readable in the long term
- You can comply with funder requirements
- It raises the impact of your research
- It raises your research profile

Why would you use 4TU.ResearchData?

- Up to 100 GB storage for TU/e
- The data is stored redundantly at three different locations in The Netherlands
- Receive a persistent identifier for a published dataset
- Find your dataset in aggregation services like Datacite
- Statistics on the re-use of your published data
- Free and open-source backend (no vendor lock-in, community driven development)

main 8 Branches 20 Tags

Go to file

t

Add file

<> Code

About

The 4TU.ResearchData and Nikhef repository system

[data.4tu.nl](#)

Readme

View license

Activity

Custom properties

32 stars

8 watching

10 forks

Report repository

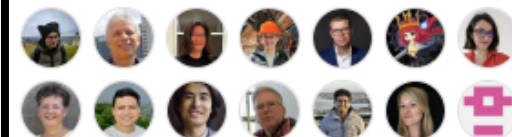
Releases 8

Version 25.2 Latest

1 hour ago

[+ 7 releases](#)

Contributors 17

[+ 3 contributors](#)

roelj web: Allow superscript and subscript HTML tags. ...

d3667ed · 53 minutes ago 2,988 Commits

doc	Release version v25.2.	2 hours ago
docker	docker: Reduce intermediate layer sizes of the Docker contain...	7 months ago
etc	Avoid setting known-to-be-wrong values in the example co...	2 months ago
rpmbuild/SPECS	doc: Include figure for collaborators to the knowledge graph.	3 weeks ago
src	web: Allow superscript and subscript HTML tags.	53 minutes ago
tests	web: validator: Implement 'url_value'.	2 years ago
.gitignore	Add files generated by the build system to the gitignore.	3 months ago
LICENSE	Add license file.	4 years ago
MANIFEST.in	build system: Include all files in the Python source dist.	2 years ago
Makefile.am	web: Apply various miscellaneous clean-ups.	last month
README.md	readme: Make the instructions for Windows more robust.	last month
configure.ac	build system: Bump version to 25.2-dev.	1 hour ago
guix.scm.in	web: Remove urllib3 as explicit dependency.	3 weeks ago
pyproject.toml.in	web: Apply various miscellaneous clean-ups.	last month
requirements.txt	web: Remove urllib3 as explicit dependency.	3 weeks ago

Walk through the 4TU repository



About your Data ▼ About 4TU.ResearchData ▼ About our Community ▼ About Training ▼ News & Resources ▼ Log in & Upload Data ▼

If you find a bug, a missing functionality, or if you are having difficulty with the website, please [let us know](#).

SUMMARY

10,329	datasets
16,786	authors
241	collections
118,268	files
71,985,116,249,434	bytes

INSTITUTIONS



UNIVERSITY
OF TWENTE.

TU/e EINDHOVEN
UNIVERSITY OF
TECHNOLOGY



Other
Institutions


Go to <https://next.data.4tu.nl/>


Step1 : Log in


Login via SURFconext


Select an account to login to 4TU.ResearchData repository [New]


Search...


 If your institution is not listed, [eduID \(NL\)](#) is available as an alternative.

 Delft University of Technology

 eduID (NL)


 Eindhoven University of Technology

 Leiden University


 Radboud University

Go to data.4tu.nl

Step2 : Create a dataset



Search...

LOG OUT 

ABOUT YOUR DATA ▾ ABOUT 4TU.RESEARCHDATA ▾ ABOUT OUR COMMUNITY ▾ NEWS & RESOURCES ▾ LOG IN & UPLOAD DATA ▾

DASHBOARD

CREATE API TOKEN

MY DATASETS

MY COLLECTIONS

DASHBOARD

Quick actions


ADD NEW DATASET

CREATE NEW COLLECTION

Storage usage

Using 105.28MB of 10.00GB (1.05%). [Request more storage.](#)


Sessions and API tokens

Name	Created at	Actions
Website login <div>CURRENT SESSION</div>	2024-02-09T09:33:04	
Website login	2024-02-09T09:17:17	


API documentation

Go to data.4tu.nl

Step3 : The metadata form(1/3)



Search...

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← GO BACK

EDIT DATASET

SAVE DRAFT

SUBMIT FOR REVIEW

DELETE

PREVIEW

PRIVATE ACCESS LINKS

ADD NEW DATASET

Dataset details


Fields marked with * are required.

Title ? *





Untitled item

Authors ? *

Roel Janssen (0000-0003-4324-5350)



Description ? *

B *I* U    

Go to data.4tu.nl

Step4 : The metadata form(2/3)

[← GO BACK](#) [EDIT DATASET](#) [SAVE DRAFT](#) [SUBMIT FOR REVIEW](#) [DELETE](#) [PREVIEW](#) [PRIVATE ACCESS LINKS](#)

Licence & Access

Open access

Embargoed access

Restricted access

Open access is the default setting in 4TU.ResearchData by which your dataset will be directly accessible to others.

Licence ? *

Select a licence

Categories ? *

Select categories

Group *

Delft University of Technology

☒ Delft University of Technology

Publisher

4TU.ResearchData

Funding ?

Go to data.4tu.nl

Step4 : The metadata form(3/3)

[← GO BACK](#)[EDIT DATASET](#)[SAVE DRAFT](#)[SUBMIT FOR REVIEW](#)[DELETE](#)[PREVIEW](#)[PRIVATE ACCESS LINKS](#)

Linked resource & references

If the dataset is published as part of a scientific paper, add its title and DOI here.

Resource title ?

Resource DOI ?

Add any other relevant URLs or DOIs below.

References ?

[ADD REFERENCE](#)

DOI reservation ?

The DOI of your dataset will be: 10.4121/a19b5bbf-eb22-4a02-816a-39edfb536a0e

Findability

Language ? *

English

[Go to data.4tu.nl](#)

Step5 : Software deposit (Git 1/2)

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Files

Type

[Metadata-only record](#)[External link](#)[File deposit](#)[Software deposit](#)

Publish source code through Git

To publish from a Git repository, push a branch to the 4tu remote.

First, add the 4tu remote:

```
git remote add 4tu https://data.4tu.nl/v3/datasets/445c935e-2d80-4768-92ae-001a8085a6ea.git
```

Then, push the repository to it:

```
git push 4tu --all
git push 4tu --tags
```

Git repository files and branches

Git default branch ?

Git file list

Go to data.4tu.nl


Step5 : Software deposit (Git 1/2) if using Github

Quick setup — if you've done this kind of thing before

HTTPS

SSH


https://github.com/roelj/demo.git



Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).


...or create a new repository on the command line

```
echo "# demo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/roelj/demo.git
git push -u origin main
```



...or push an existing repository from the command line

```
git remote add origin https://github.com/roelj/demo.git
git branch -M main
git push -u origin main
```



...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

Go to data.4tu.nl

Step6 : Software deposit (Git 2/2)

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Git repository files and branches [↗](#)

Git default branch [?](#)

main

Git file list

.gitignore

LICENSE

MANIFEST.in

Makefile.am

README.md

configure.ac

doc

docker

etc

guix.scm

main.py

pyproject.toml.in

requirements.txt

Go to data.4tu.nl

Useful links

[Data collection policy](#)

[Deposit guidelines](#)

[Preservation policy](#)

[Restricted access](#)

Questions?