

Get to know 4TU.ResearchData

Schedule

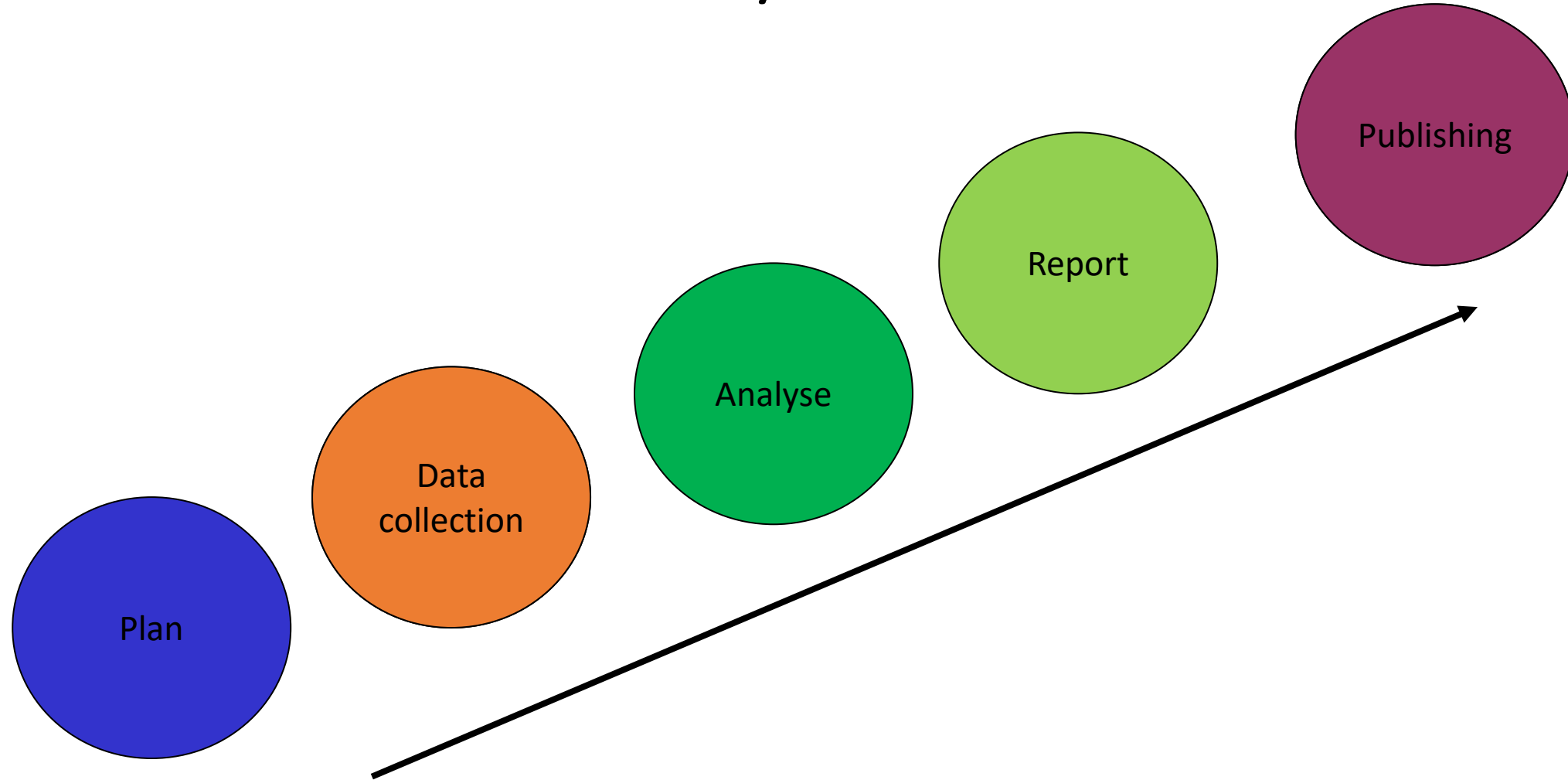
1. What is **4TU.Research Data**?
2. **Why** would you archive your data and use 4TU for that?
3. **Procedure to upload** a software/dataset to 4TU
4. **Git integration in 4TU**. How does it work?



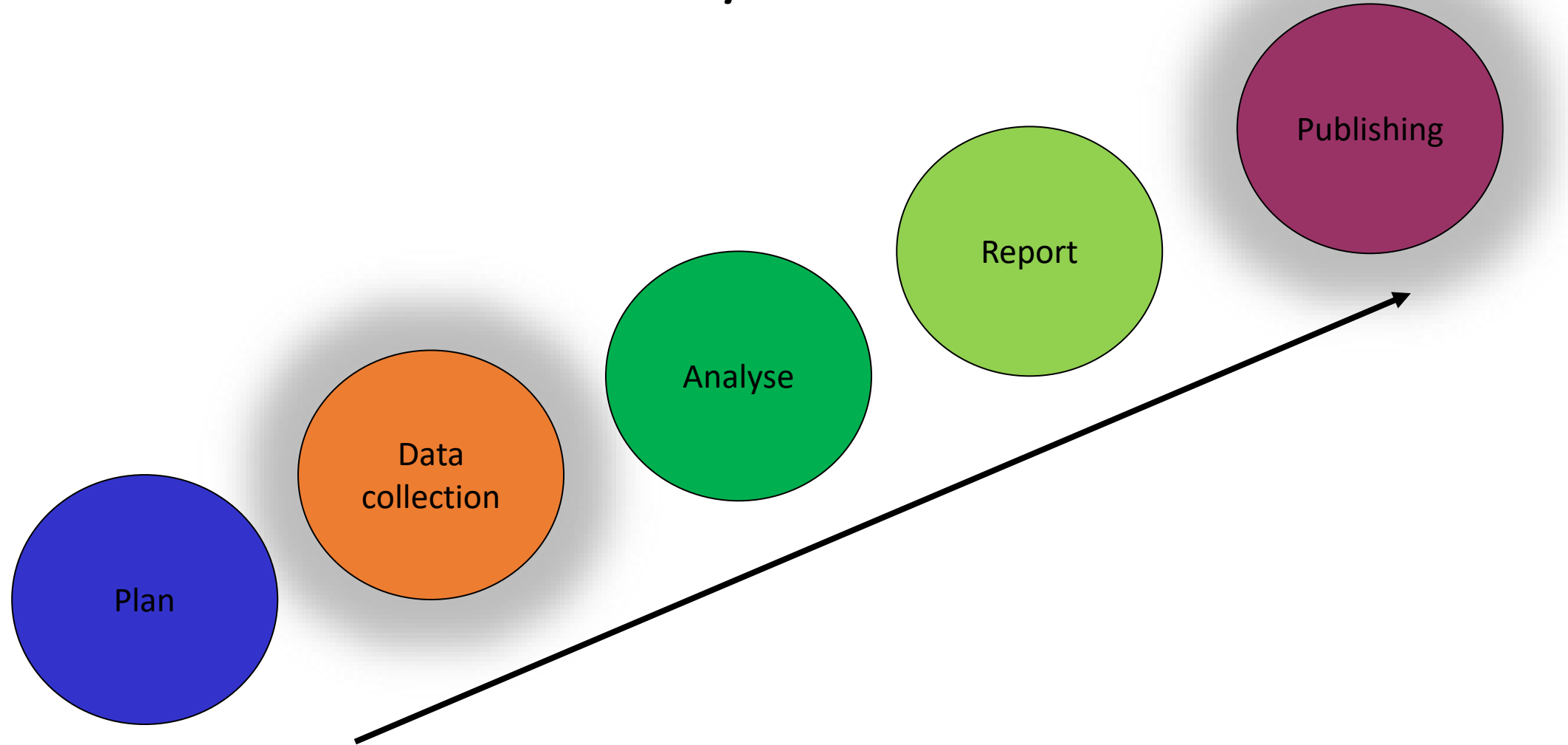
What is 4TU.Research Data?

- **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.

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
- **Accessible:** Access control, format specific optimizations (like Git and [NetCDF-network common data form](#))
- **Interoperable:** Git, NetCDF, recommended file formats
- **Reusable:** File download, licensing options

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 1TB storage per year for TUD and UT
- Up to 100 GB storage for TU/e and WUR
- 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 (Djehuty)



4TUResearchData / djehuty

<> Code

Issues 3

Pull requests

4TU djehuty

Public

main

7 Branches

5 Tags

Go to file

t

+

<> Code

About



The 4TU.ResearchData repository system

16 stars

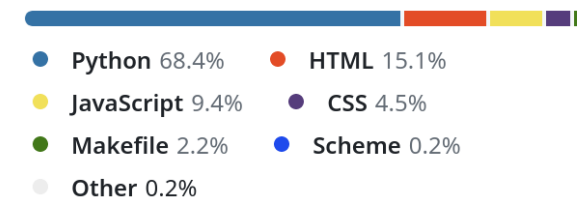
8 watching

5 forks

Contributors 12



Languages



roelj web: wsgi: Simplify 'token_from_cookie'.

8ba9681 · 18 hours ago 2,413 Commits



doc

build system: Change to monthly versioning...

last month



docker

docker: Tighten the run-time environment ...

2 weeks ago



etc

web: Implement "may-run-sparql-query" pri...

3 months ago



rpmbuild/SPECS

rpmbuild: Update the dependencies of the R...

2 months ago



src

web: wsgi: Simplify 'token_from_cookie'.

18 hours ago



tests

web: validator: Implement 'url_value'.

last year



.gitignore

build system: Bump versions and reorganize.

last year



LICENSE

Add license file.

3 years ago



MANIFEST.in

build system: Include all files in the Python s...

last month



Makefile.am

build system: Add targets to publish to PyPi.

last month





README.md

Update running instruction.

4 months ago

Walk through the 4TU repository



Search...

LOG IN


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

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


SUMMARY

9,034	datasets
9,654	authors
167	collections
138,062	files
61,591,306,225,443	bytes

INSTITUTIONS



UNIVERSITY OF TWENTE.



WAGeningen
UNIVERSITY & RESEARCH

Other
Institutions


Go to 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...

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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)

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

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

Questions?