



# FAIRSFair

Fostering Fair Data Practices in Europe

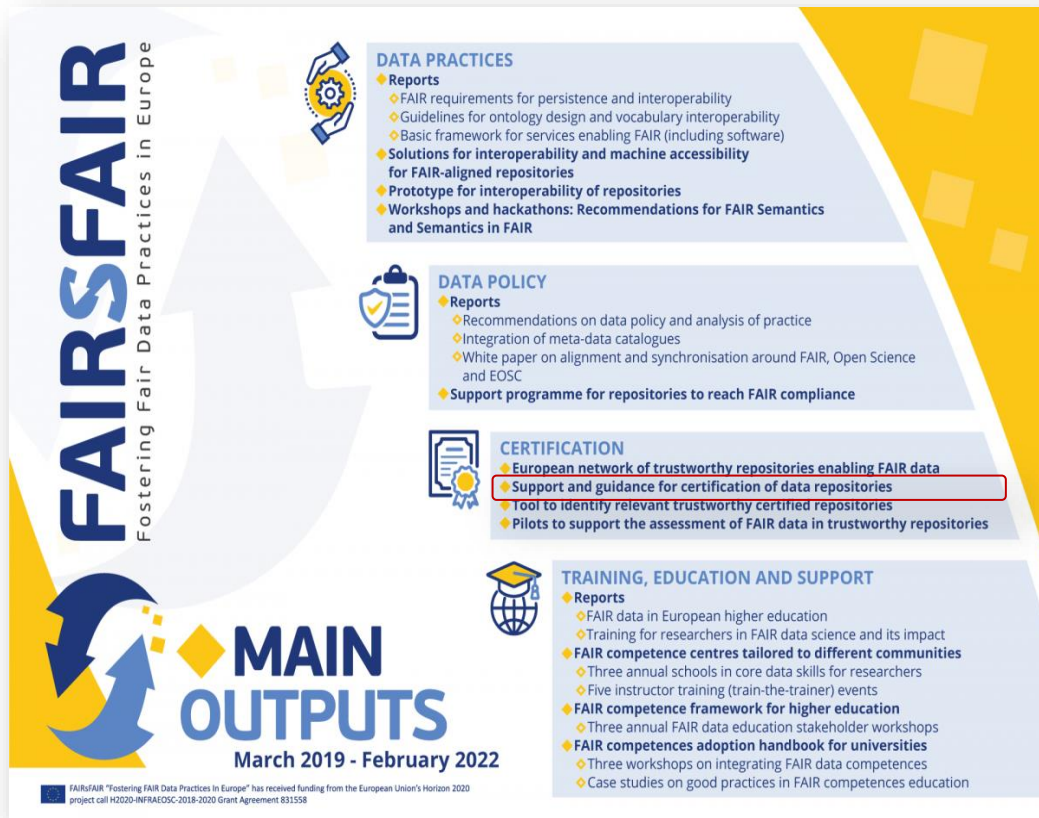
## Towards making your repository more trustworthy and FAIR-enabling

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4 November 2021

# FAIRsFAIR - Fostering FAIR data practices in Europe

- Goal: Practical solutions for the use of FAIR principles throughout the research data life cycle
- Budget: €10 million
- Duration: 2019-2022
- 22 partners from 8 EU member states
- Project coordinator: DANS



**FAIRSFAR**  
Fostering Fair Data Practices in Europe

**DATA PRACTICES**

- ◆ Reports
  - ◆ FAIR requirements for persistence and interoperability
  - ◆ Guidelines for ontology design and vocabulary interoperability
  - ◆ Basic framework for services enabling FAIR (including software)
- ◆ Solutions for interoperability and machine accessibility for FAIR-aligned repositories
- ◆ Prototype for interoperability of repositories
- ◆ Workshops and hackathons: Recommendations for FAIR Semantics and Semantics in FAIR

**DATA POLICY**

- ◆ Reports
  - ◆ Recommendations on data policy and analysis of practice
  - ◆ Integration of meta-data catalogues
  - ◆ White paper on alignment and synchronisation around FAIR, Open Science and EOSC
- ◆ Support programme for repositories to reach FAIR compliance

**CERTIFICATION**

- ◆ European network of trustworthy repositories enabling FAIR data
- ◆ Support and guidance for certification of data repositories
- ◆ Tool to identify relevant trustworthy certified repositories
- ◆ Pilots to support the assessment of FAIR data in trustworthy repositories

**TRAINING, EDUCATION AND SUPPORT**

- ◆ Reports
  - ◆ FAIR data in European higher education
  - ◆ Training for researchers in FAIR data science and its impact
- ◆ FAIR competence centres tailored to different communities
  - ◆ Three annual schools in core data skills for researchers
  - ◆ Five instructor training (train-the-trainer) events
- ◆ FAIR competence framework for higher education
  - ◆ Three annual FAIR data education stakeholder workshops
- ◆ FAIR competences adoption handbook for universities
  - ◆ Three workshops on integrating FAIR data competences
  - ◆ Case studies on good practices in FAIR competences education

**MAIN OUTPUTS**  
March 2019 - February 2022

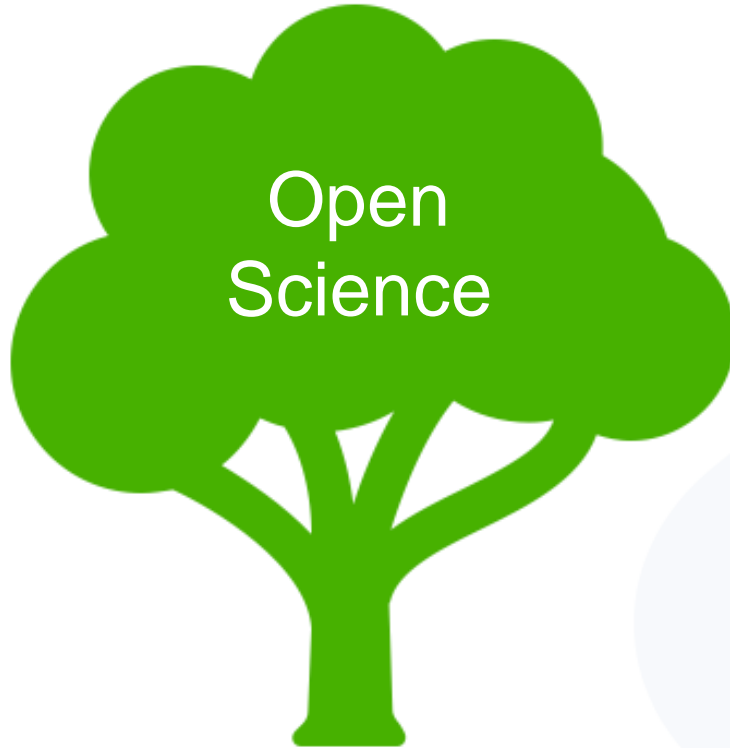
FAIRsFAIR "Fostering FAIR Data Practices in Europe" has received funding from the European Union's Horizon 2020 project call H2020-INFRAEOSC-2018-2020 Grant Agreement 831558

Image source: <https://www.fairsfair.eu>

# Trustworthy repository practices and FAIR data

Open data &  
data  
management  
policies

Trustworthy  
data  
repositories



FAIR data  
access &  
long-term  
preservation

Policies that  
support (or  
hinder) data  
FAIRness

# A journey towards becoming trustworthy and FAIR-enabling



Research data repositories

Support with CoreTrustSeal certification



Trustworthy repository practices and lessons learnt

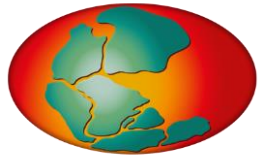


CoreTrustSeal repository certification programme

# Our support team



**UK • DATA  
ARCHIVE**




**PANGAEA.**



# Who we work with



 → a country with a selected repository



# Repository support: services

Test reviews



4 support workshops

## Preservation Policy Planning - Worksheet

This exercise has been developed to support selected repositories in the FAIRFAIR repository support programme in getting CoreTrustSeal certified. It is part of a variety of resources prepared by FAIRFAIR to support services and individuals in their FAIR data practices. Depending on your situation, it may take around 60 minutes to complete the exercise. The worksheet has been partially adapted from the Digital Preservation Coalition's (DPC) [policy toolkit](#) and the [Conceptual CoreTrustSeal working paper](#). This worksheet is not endorsed by the CoreTrustSeal Board and will not guarantee repository certification.

**Objectives**

- To identify the status of relevant policy components to have a preservation policy in place
- To structure and plan the writing process of

Keep in mind that the construction of a preserva content, format and style of your policy accordin

**Instructions**

- To start, indicate the status of each policy or (defined and forms part of an integrated ma the below mentioned components are rate some of the most challenging. You may also workshop)
- Identify the people within your organisation not need to share this information with us), an answer.

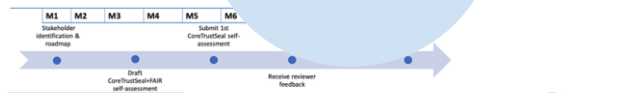
Component	Guiding question	Status	Comment/question	Expert	Responsible person for text writing	Duration	Deadline
1. Summary	Is the summary of your policy concise and easily digestible for the reader?						
2. Purpose (RQ)	Why has the policy been developed and what does it aim to achieve?						
3. Organisational Strategy Alignment (RQ)	How does the policy support the overarching purpose and objectives of your organisation?						
4. Mandate (RQ)	What are the drivers for the policy and why do they necessitate digital preservation?						
5. Scope (RQ)	What is the scope of the policy in terms of the organisational context and the digital content to be preserved?						
6. Policy Principles	What is the agreed framework and directions for how your organisation approaches digital preservation in a consistent way?						

Practical tools



1:1 support and advice

### Roadmap



Activity/task 1: \_\_\_\_\_


Activity/task 2: \_\_\_\_\_

Activity/task 3: \_\_\_\_\_

Activity/task 4: \_\_\_\_\_

Activity/task 5: \_\_\_\_\_

**Roadmap**



**Risk**

	Risk level

# Other relevant tools

## Data publication

Before



**FAIRSFAR**  
Fostering Fair Data Practices in Europe

**FAIR-Aware**

Let's assume you have research data almost ready for you to make the data as findable, accessible, interoperable. Aware tool can help you to better understand the FAIR data.

FAIR-Aware is an online tool developed by the FAIRSFAR. You should, however, have a target dataset in mind. The assessment starts with 4 questions about goals and guidance will be displayed. The majority of the questions make data FAIR. At the end, your feedback will help us to enhance to complete the assessment depending on the FAIRSFAR Terms (DANL, DCC, I4D) etc.

Find out more about FAIRSFAR on the project website.

**About you**

Which research domain do you work in?  Domain -- work in it

Which of the following describes your role? Please select all that apply.

- Researcher
- Policy maker
- Researcher in a contractor, data information
- Research info. (e.g. data repository)
- University or Organization
- Research funder (Government)
- Infrastructure scientific data

Which of the following types of organizations best describe your employer? Please select all that apply.

Are you aware that a dataset should be assigned a globally unique and persistent identifier when deposited with a data repository?

Are you aware that when you deposit a dataset, you will need to provide some dataset metadata (findable, accessible and reusable)?

Are you aware that the repository providing your dataset should make the metadata of your dataset available to human and machine readers as well as humans?

Are you aware that access to your dataset is controlled and that metadata should expose information under which the data is shared?

Are you aware that metadata should be reviewed over time, even if the data is no longer in use?

Are you aware that the metadata describing datasets should use controlled vocabularies?

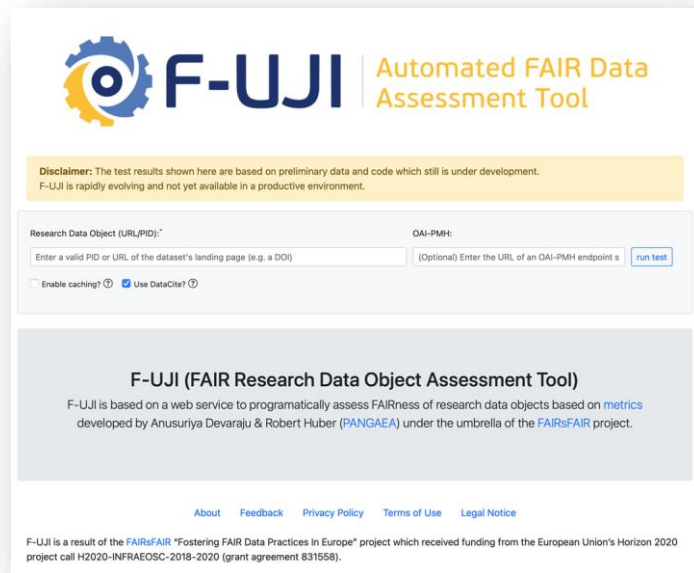
Are you aware that provenance information (collection and/or generation) of data files should follow the specifications of a standard?

Are you aware that data should be deposited preferably in a trusted data repository - and supported by the repository?

Are you aware that maintaining your data time requires professional data curation practices?

→ <https://fairware.dans.knaw.nl>

After



**F-UJI** Automated FAIR Data Assessment Tool

**Disclaimer:** The test results shown here are based on preliminary data and code which still is under development. F-UJI is rapidly evolving and not yet available in a productive environment.

Research Data Object (URL/PID):\*  OAI-PMH:

Enter a valid PID or URL of the dataset's landing page (e.g. a DOI) (Optional) Enter the URL of an OAI-PMH endpoint

Enable caching?  Use DataCite?

**F-UJI (FAIR Research Data Object Assessment Tool)**

F-UJI is based on a web service to programmatically assess FAIRness of research data objects based on metrics developed by Anusuriya Devaraju & Robert Huber (PANGAEA) under the umbrella of the FAIRSFAR project.

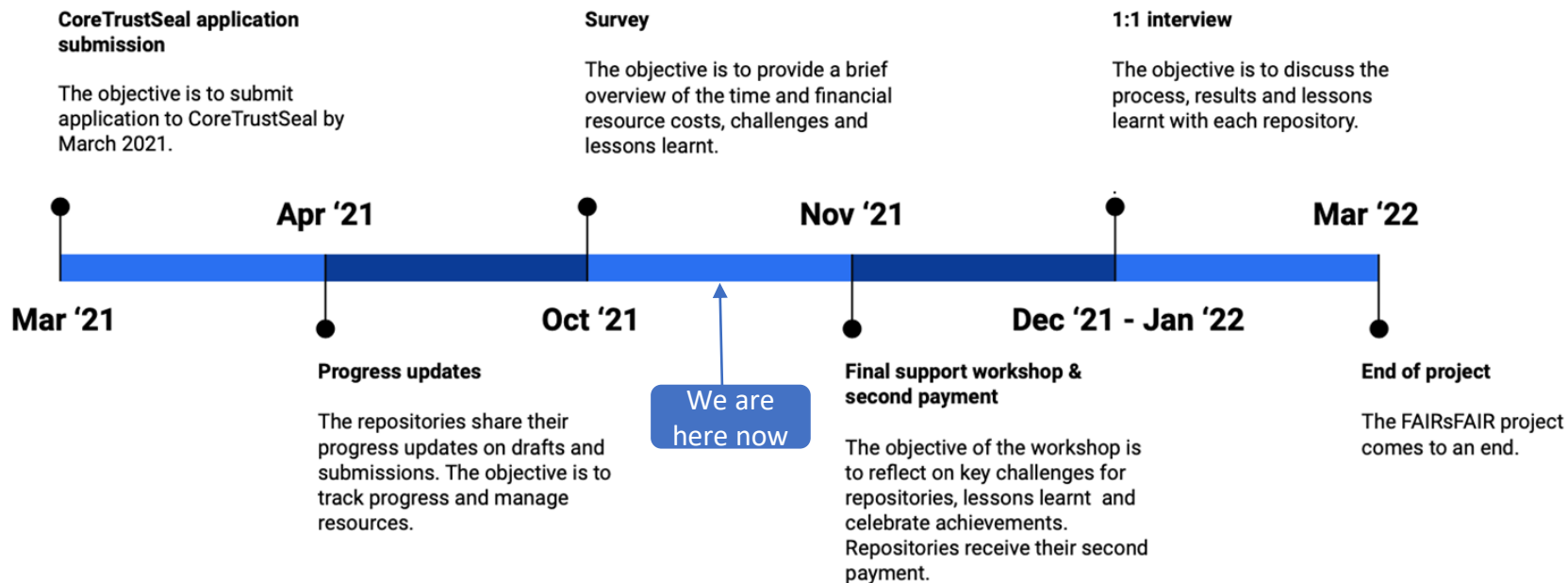
[About](#) [Feedback](#) [Privacy Policy](#) [Terms of Use](#) [Legal Notice](#)

F-UJI is a result of the FAIRSFAR "Fostering FAIR Data Practices in Europe" project which received funding from the European Union's Horizon 2020 project call H2020-INFRAEOSC-2018-2020 (grant agreement 831558).

→ <https://www.f-uji.net>



# Certification support: next steps



# Growing together

Global repository support initiatives, e.g.

- 'Enabling FAIR Data CoreTrustSeal cohort'
- ARDC, Australia
- Portage Network, Canada

Share  
experiences  
and lessons  
learned

Explore  
collaboration

Trust  
and  
FAIR



# Further information

## Practical tools

- Ilona von Stein, Linas Cepinskas, Hervé L'Hours, Kevin Ashley, Tina Dohna, Patricia Herterich, ... Joy Davidson. (2021, February). Certification Support Workshop: Preservation Planning and Preservation Policy Planning Worksheet (Version 1). Zenodo. <http://doi.org/10.5281/zenodo.4541415>
- Herterich, Patricia. (2020, April 6). FAIRsFAIR support towards achieving CoreTrustSeal certification - roadmapping exercise. Zenodo. <http://doi.org/10.5281/zenodo.3741693>
- [FAIR-Aware tool](#) to assess knowledge of FAIR ([en français](#) aussi)
- [F-UJI tool to assess FAIRness of datasets](#)
- [FAIR Data Forum](#). A gateway to FAIR data practices

## Certification support programme

- Ilona von Stein, Olivier Rouchon, Maaïke Verburg, Serenella Muradore Gallas, Sara Pittonet Gaiarin, & Andrea Greco. (2021). Making your repository more trustworthy and FAIR-enabling a support programme. Zenodo. <https://doi.org/10.5281/zenodo.5106165>
- Hervé L'Hours, Ilona von Stein, Jerry deVries, Linas Cepinskas, Joy Davidson, Patricia Herterich, Robert Huber, & Benjamin Jacob Mathers. (2021). M4.3 CoreTrustSeal+FAIRenabling, Capability and Maturity (1.0). Zenodo. <https://doi.org/10.5281/zenodo.5346822>
- FAIRsFAIR support programme for repositories <https://www.fairsfair.eu/application-results-open-call-data-repositories>
- Frans Huigen and Ilona von Stein (8 October 2020). How is FAIRsFAIR supporting the repositories selected for CoreTrustSeal Certification? <https://www.fairsfair.eu/articles-publications/how-fairsfair-supporting-repositories-selected-coretrustseal-certification>

# Thank you

For further questions:

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