

Tervetuloa!

This is FAIRsFAIR

Jessica Parland-von Essen, CSC



Why FAIRsFAIR? Discussion with *Eetu Mäkelä & Ari Asmi*, University of Helsinki



Good practices of data steward and research software engineer collaboration

Angus Whyte & Patricia Herterich,
University of Edinburgh

Implementing the FAIR principles

Mari Kleemola, FSD



FAIRsFAIR support for repositories

Josefine Nordling, CSC



FAIRsFAIR tools assessing FAIR

Hanna Koivula, CSC



Video: <https://youtu.be/K-kEvfaUJdA>

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FAIRsFAIR

Fostering Fair Data Practices in Europe

Introducing FAIRsFAIR

Jessica Parland-von Essen
WP 2 lead

FAIRSF AIR in a nutshell

FAIRSF AIR - *Fostering Fair Data Practices in Europe* - aims to supply **practical solutions** for the use of the FAIR data principles throughout the research data life cycle with an emphasis on **fostering FAIR data culture and the uptake of good practices** in making data FAIR.

FAIRSF AIR key facts

- Starting date: March 1 2019
- Duration: 36 months
- Budget: 10 million euro
- 22 partners from 8 Member States
- 6 core partners: DANS (project coordinator), CSC, DCC, TrustIT, STFC, EUA



FAIRsFAIR partners

Data Archiving and Networked Services



UNIVERSITEIT VAN AMSTERDAM



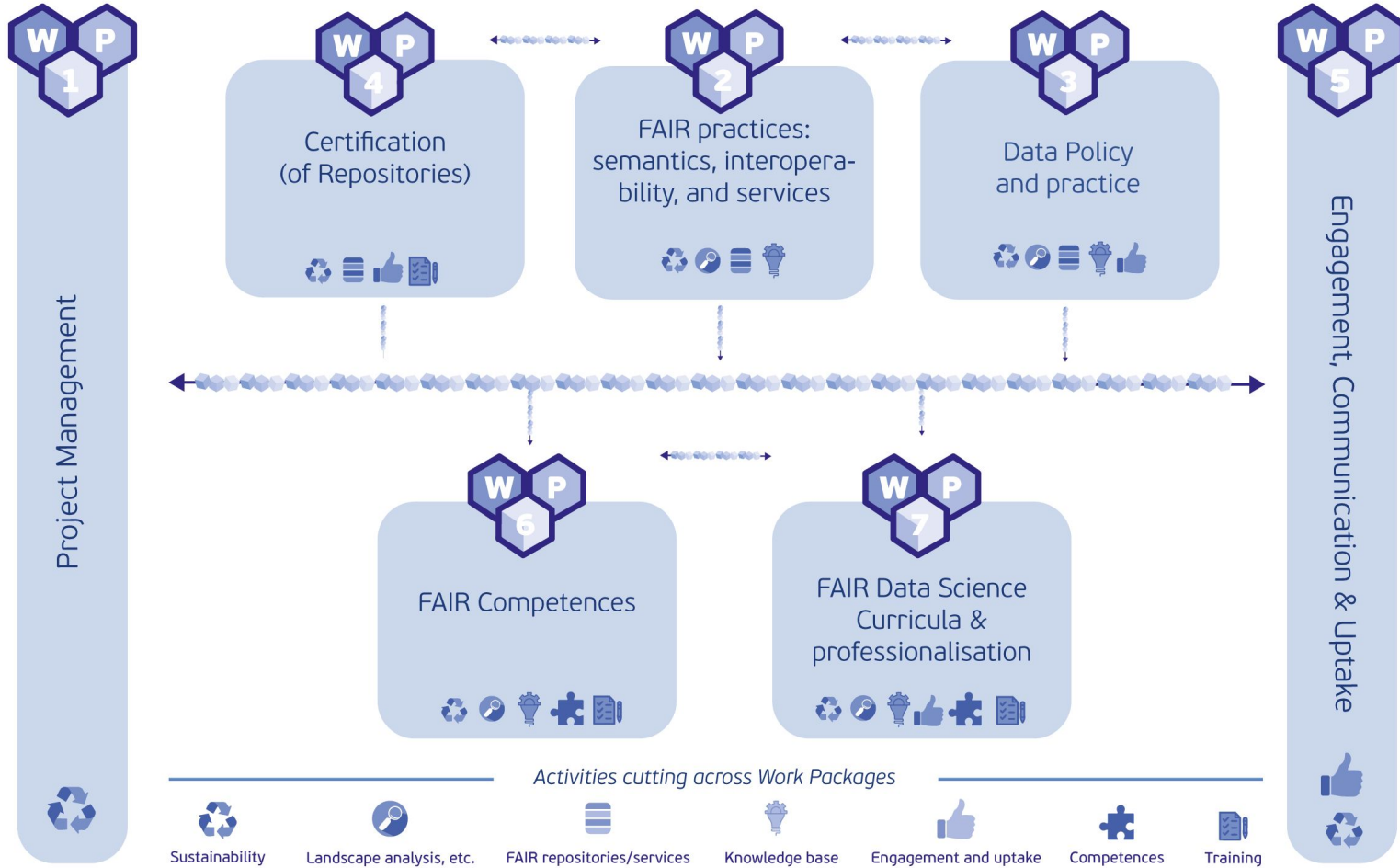
Universidade do Minho



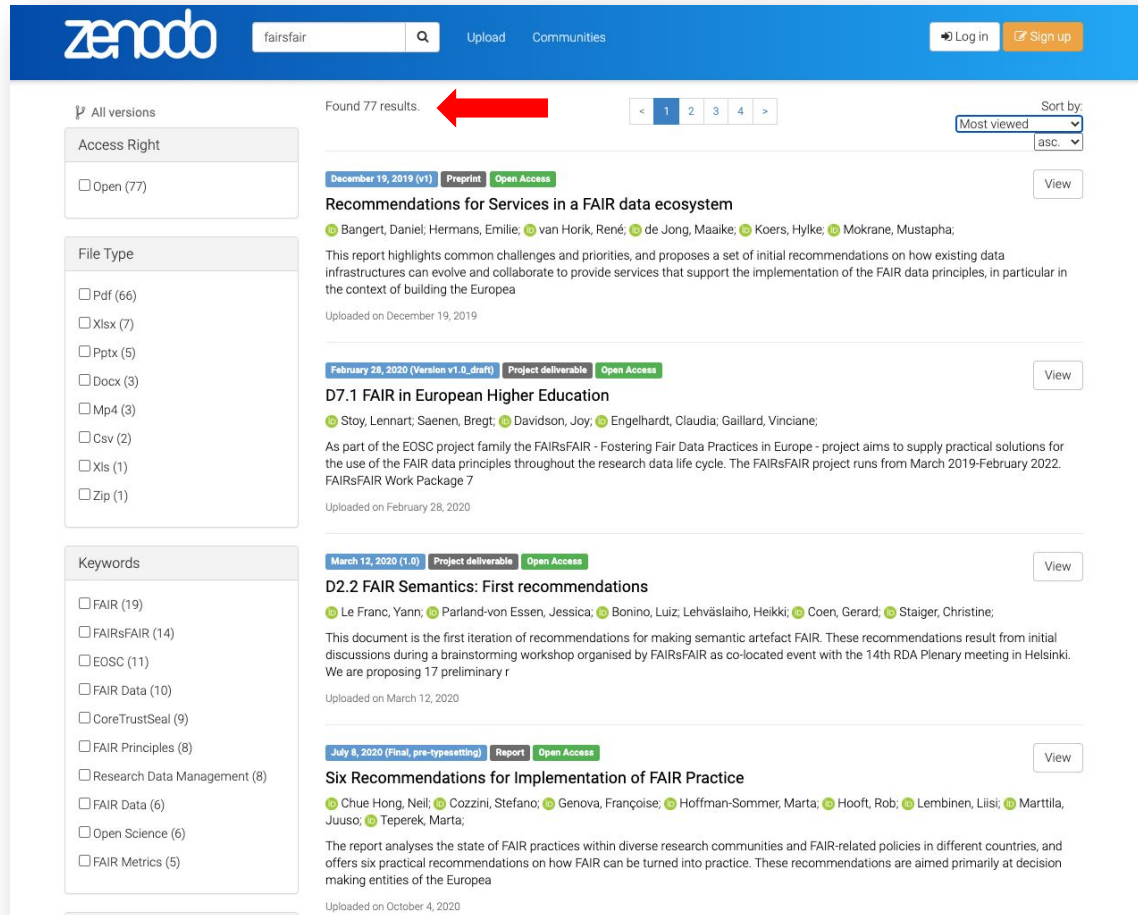
UK Research
and Innovation



FAIRsFAIR workplan



FAIRsFAIR results



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December 19, 2019 (v1) Preprint Open Access View

Recommendations for Services in a FAIR data ecosystem

Bangert, Daniel; Hermans, Emilie; van Horik, René; de Jong, Maaikje; Koers, Hylke; Mokrane, Mustapha;

This report highlights common challenges and priorities, and proposes a set of initial recommendations on how existing data infrastructures can evolve and collaborate to provide services that support the implementation of the FAIR data principles, in particular in the context of building the Europea

Uploaded on December 19, 2019

February 28, 2020 (Version v1.0_draft) Project deliverable Open Access View

D7.1 FAIR in European Higher Education

Stoy, Lennart; Saenen, Bregt; Davidson, Joy; Engelhardt, Claudia; Gaillard, Vinciane;

As part of the EOSC project family the FAIRsFAIR - Fostering Fair Data Practices in Europe - project aims to supply practical solutions for the use of the FAIR data principles throughout the research data life cycle. The FAIRsFAIR project runs from March 2019-February 2022. FAIRsFAIR Work Package 7

Uploaded on February 28, 2020

March 12, 2020 (1.0) Project deliverable Open Access View

D2.2 FAIR Semantics: First recommendations

Le Franc, Yann; Parland-von Essen, Jessica; Bonino, Luiz; Lehväläilho, Heikki; Coen, Gerard; Staiger, Christine;

This document is the first iteration of recommendations for making semantic artefact FAIR. These recommendations result from initial discussions during a brainstorming workshop organised by FAIRsFAIR as co-located event with the 14th RDA Plenary meeting in Helsinki. We are proposing 17 preliminary r

Uploaded on March 12, 2020

July 8, 2020 (Final, pre-typesetting) Report Open Access View

Six Recommendations for Implementation of FAIR Practice

Chue Hong, Neil; Cozzini, Stefano; Genova, Françoise; Hoffman-Sommer, Marta; Hooft, Rob; Lembinen, Liisi; Marttila, Juuso; Teperek, Marta;

The report analyses the state of FAIR practices within diverse research communities and FAIR-related policies in different countries, and offers six practical recommendations on how FAIR can be turned into practice. These recommendations are aimed primarily at decision making entities of the Europea

Uploaded on October 4, 2020

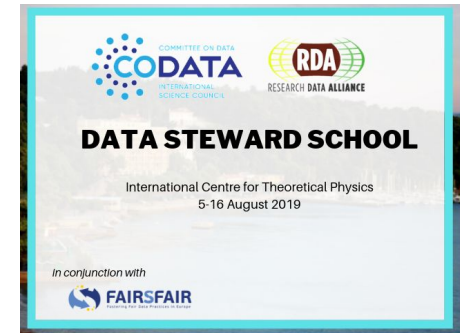
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Keywords: FAIR (19), FAIRsFAIR (14), EOSC (11), FAIR Data (10), CoreTrustSeal (9), FAIR Principles (8), Research Data Management (8), FAIR Data (6), Open Science (6), FAIR Metrics (5)

<https://zenodo.org/search?page=1&size=20&q=fairsfair>

Results in many shapes and forms



Recommendations to increase FAIR practices in academia



ADDRESSING FAIR IN HIGHER EDUCATION

1. Include more specific research data-related skills and competencies throughout the universities' educational portfolio
2. Establish minimum level of awareness of RDM and FAIR
3. Practical guidance on the application of the FAIR principles in different domains and disciplines, and related skills and competences
4. Define training programmes on research data skills and services for researchers and professional staff,

RESEARCH DATA POLICIES & SUPPORT SERVICES

1. Define institutional research data policies together with all relevant units
2. Offer research data support services to researchers and staff
3. Include FAIR data in research data policies
4. Align FAIR policies with funders' requirements
5. Enable time and/or financial resources to train staff

UNIVERSITIES AND THE EUROPEAN OPEN SCIENCE CLOUD

1. Increase institutional capacity and awareness of EOSC
2. Develop use-cases for EOSC to facilitate collaborative research
3. Ensure that EOSC is a publicly-owned infrastructure that has open principles at its core



TURNING FAIR INTO REALITY

Implementation of the Turning FAIR into Reality recommendations in the EOSC framework - July 2020

DEFINE		IMPLEMENT			EMBED & SUSTAIN	
CONCEPTS FOR FAIR IMPLEMENTATION	FAIR CULTURE	FAIR ECOSYSTEM	SKILLS FOR FAIR	INCENTIVES AND METRICS FOR FAIR DATA & SERVICES	INVESTMENT IN FAIR	
1 DEFINE FAIR FOR IMPLEMENTATION	4 DEVELOP INTERDISCIPLINARY FRAMEWORKS	7 SUPPORT EDUCATIONAL TECHNOLOGIES	10 PROFESSIONALISE & STANDARDISE FAIR PRACTICES	12 DEVELOP METRICS FOR FAIR	14 PROVIDE SUSTAINABLE FUNDING	
2 IMPLEMENT A STRATEGY FOR FAIR DIGITAL OBJECTS	5 ENSURE DATA MANAGEMENT VIA DAMS	8 FACILITATE RESEARCH PROCESSING	11 IMPLEMENT FAIRFRAMEWORKS AND TRAINING	13 DEVELOP METRICS TO CERTIFY FAIR SERVICES	15 PROVIDE SUSTAINABLE FUNDING	
3 DEVELOP COMPONENTS OF A FAIR ECOSYSTEM	6 RECOGNISE & REWARD FAIR STEWARDSHIP	9 CERTIFY FAIR SERVICES				
PRIORITY RECOMMENDATIONS ARE ABOVE THIS LINE; SUPPORTING RECOMMENDATIONS ARE BELOW THIS LINE.						
16 APPLY FAIR BROADLY	18 CODE MANAGEMENT	22 USE RECOMMENDATION HELD IN DAMS		25 INFLUENCE AND REPORT METRICS	27 OPEN EDGE TO ALL PROVIDERS BUT RESERVE FAIR	
17 ALIGN AND IMPROVE FAIR AND OPEN DATA POLICY	19 SELECT AND PRIORITISE FAIR DIGITAL OBJECTS	23 DEVELOP COMMUNITIES TO MEET RESEARCH NEEDS		26 SUPPORT DATA LITERACY AND METRIC DEVELOPMENT METRICS		
	20 REPORT ON TRUSTED DIGITAL REPOSITORIES	24 INCENTIVISE RESEARCHERS TO SUPPORT FAIR DATA				
	21 INCENTIVISE REUSE OF FAIR OBJECTS					

LEGEND
 ◀ many activities support this recommendation
 ◀ some activities support this recommendation
 ◀ hardly any or no activities support this recommendation



FAIRsFAIR landscape activities 2019-2020



Semantics and
Interoperability

Policies and
Practices

HEIs and FAIR
Data

- **D3.1 FAIR Policy landscape analysis**
<https://zenodo.org/record/3558173>
- **D3.3 Policy Enhancement Recommendations**
<https://zenodo.org/record/3686901>
- **D7.1 FAIR in European Higher Education**
<https://zenodo.org/record/3629683>

FAIRsFAIR policy recommendations

Collectively agree on a **common set of FAIR policy elements** to describe policies.

FAIRsFAIR Policy Characterisation Data for D3.1
<https://zenodo.org/record/3550544>



SRIA: https://www.eoscsecretariat.eu/sites/default/files/open_consultation_booklet_sria-eosc_20-july-2020.pdf

AA9 Landscape Monitoring

Monitor **standardised** national Open Science and FAIR data strategies, including the description of these policies.

Collected recommendations and requirements for FAIR-enabling services

<https://doi.org/10.5281/zenodo.4293778>

Recommendations on practice to support FAIR data principles

<https://doi.org/10.5281/zenodo.3924132>

What does a data steward do?

<https://doi.org/10.5281/zenodo.4572719>

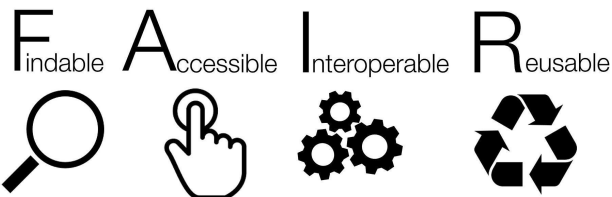
Report on Fair Data Assessment Mechanisms to Develop Pragmatic Concepts for Fairness Evaluation at the Dataset Level <https://doi.org/10.5281/zenodo.4118405>

FAIR Semantics Recommendations Second Iteration

<https://doi.org/10.5281/zenodo.4314321>

Assessment report on 'FAIRness of software'

<https://doi.org/10.5281/zenodo.4095092>



Learn more on our web site

<https://fairsfair.eu/>



Why FAIR, ESOC and FAIRsFAIR?

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