FAIR + Software: decoding the principles

Introducing FAIRsFAIR

FAIRsFAIR partners

FAIRsFAIR in a nutshell

Call: H2020-INFRAEOSC-5c

Budget: 10 million euro

Length: 36 months
Starting date: March 1 2019

22 partners from 8 MS
6 core partners

Our objective

Help **survey the landscape of FAIR activities** in relation to EOSC and identify where dialogue and collaboration can be encouraged.

Create a **basis for harmonisation** efforts to bring together the various actors working in the **FAIR ecosystem** and build a **functioning EOSC** and **active community** around EOSC.

HLAC
High Level Advisory Committee

The High Level Advisory Committee (HLAC) is a group of international experts appointed by the Executive Committee of FAIRsFAIR to deliver independent expert advice on the strategy and implementation of the project.

FAIRsFAIR
Fostering Fair Data Practices in Europe

Carthage Smith
Organisation for Economic Co-operation & Development (OECD)

Shelley Stall
American Geophysical Union

Stan Gielen
Dutch Research Council: NWO

Francoise Genova
Strasbourg Astronomical Data Centre

David Carr
Wellcome Trust

Patricia Clarke
Health Research Board (HRB)

Thomas Hahn
Siemens

Rūta Petrauskaitė
Vytautas Magnus University

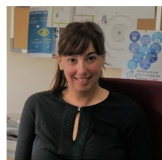**Jaana Bäck**
University of Helsinki

European Group of FAIR Champions

Mark Allen
- **Affiliation:** Strasbourg Astronomical Data Centre
- **Country:** France

Isabel Bernal
- **Affiliation:** DIGITAL.CSIC
- **Country:** Spain

Alastair Dunning
- **Affiliation:** Delft University of Technology
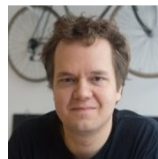- **Country:** Netherlands

Odile Hologne
- **Affiliation:** French Institute for Agricultural Research
- **Country:** France

Maria Johnsson
- **Affiliation:** Lund University
- **Country:** Sweden

Eetu Mäkelä
- **Affiliation:** University of Helsinki
- **Country:** Finland

Andreas Rauber
- **Affiliation:** Tech Uni Vienna
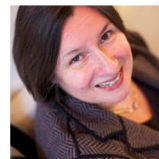- **Country:** Austria

Susanna-Assunta Sansone
- **Affiliation:** University of Oxford
- **Country:** United Kingdom

Barbara Sierman
- **Affiliation:** Digital Preservation
- **Country:** Netherlands

Eefke Smit
- **Affiliation:** International Association of STM Publishers
- **Country:** Netherlands

Tobias Weigel
- **Affiliation:** German Climate Computing Center
- **Country:** Germany

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**
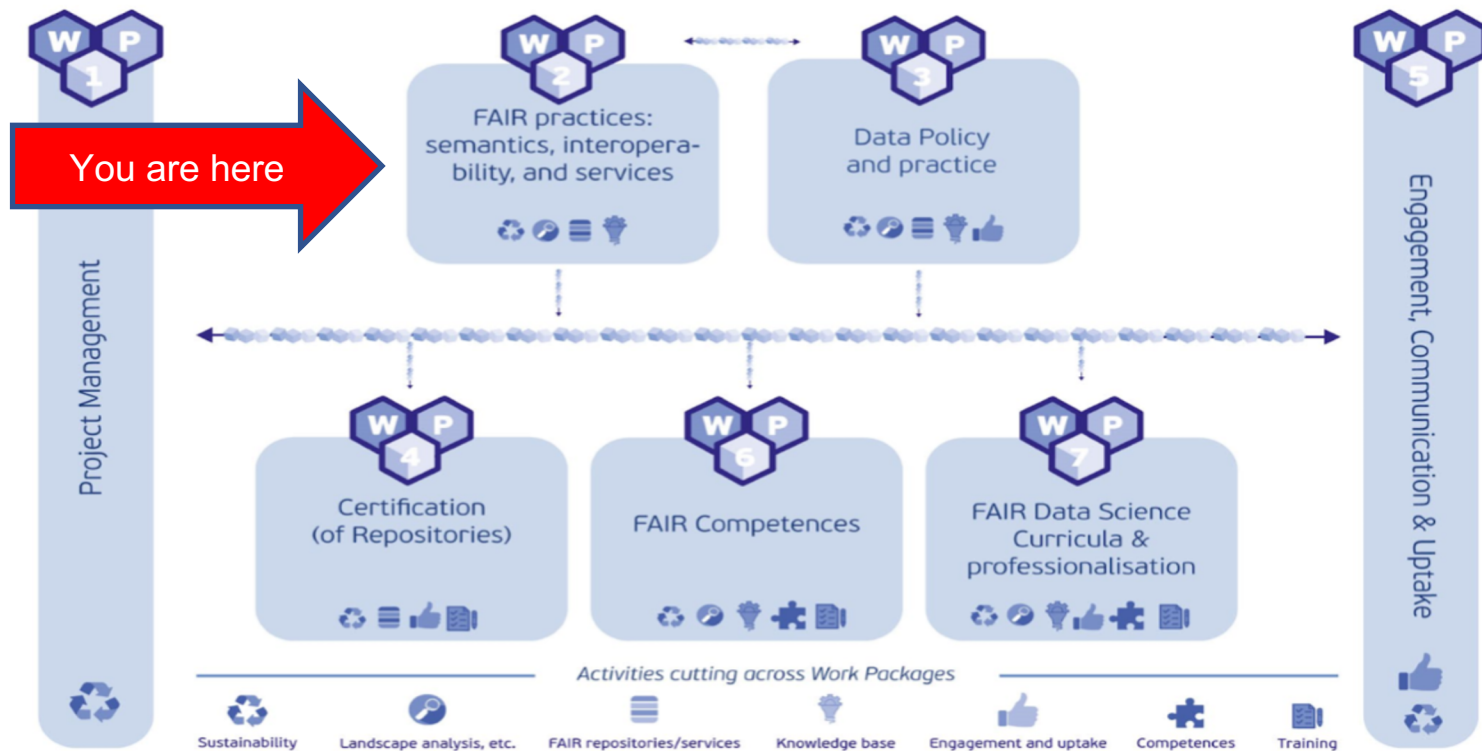
TRAINING, EDUCATION AND SUPPORT

- ◆ 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

FAIRsFAIR
Fostering Fair Data Practices in Europe

◆ **MAIN OUTPUTS**
March 2019 - February 2022

Work Packages

Work Packages

You are here

WP1 — Project Management

WP2 — FAIR practices: semantics, interoperability, and services

WP3 — Data Policy and practice

WP4 — Certification (of Repositories)

WP6 — FAIR Competences

WP7 — FAIR Data Science Curricula & professionalisation

WP5 — Engagement, Communication & Uptake

Activities cutting across Work Packages

Sustainability — Landscape analysis, etc. — FAIR repositories/services — Knowledge base — Engagement and uptake — Competences — Training

WP2 FAIR Practices: Semantics, Interoperability and Services

➔ **February 2020:** *Assessment report on FAIRness of services*
(https://doi.org/10.5281/zenodo.3688762)

➔ **March 2020:** *FAIR Semantics: First recommendations*
(https://doi.org/10.5281/zenodo.3707985)

➔ **August 2020:** *2nd Report on FAIR requirements for persistence and interoperability describes the use of PIDs and metadata to enable FAIR data*
(https://doi.org/10.5281/zenodo.4001631)

➔ **October 2020:** *M2.15 Assessment report on 'FAIRness of software'*
(https://doi.org/10.5281/zenodo.4095092)

➔ **November 2020 (forthcoming):** *"Report on basic framework on FAIRness of services"*

Contact: Jessica Parland jessica.parland-vonessen@csc.fi

WP2 FAIR Practices: Semantics, Interoperability and Services
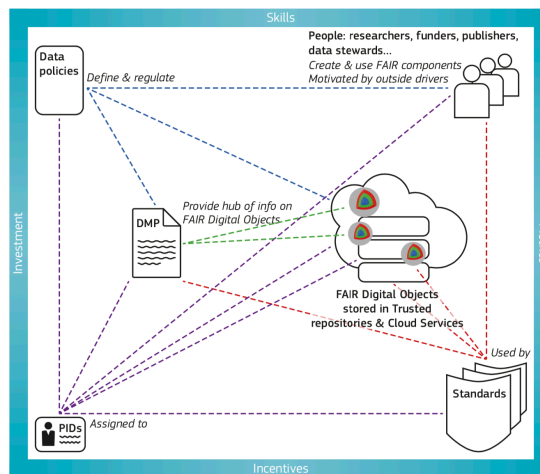

The FAIR data ecosystem

Figure 9. The interactions between components in the FAIR data ecosystem. Notes on this figure:

Karel Luyben, chairman of the Executive Board of the European Open ScienceCloud (EOSC):

"A web of scientific insight"

- ❖ Web of FAIR research data (and services)
- ❖ Federation of existing services
- ❖ Virtual space where science producers and consumers come together
- ❖ An open-ended range of content and services
- ❖ Quality mark « Data made in Europe »

You can be a FAIRsFAIR ambassador

FAIRsFAIR in a Nutshell https://www.fairsfair.eu/fairsfair-nutshell
Useful materials for sharing & distribution

About FAIRsFAIR

- FAIRsFAIR, Fostering FAIR Data Culture & Practices in Europe Flyer, March 2019
- FAIRsFAIR main outputs. Infographics, September 2019
- Embracing a FAIR Culture. FAIRsFAIR poster at the EOSC-Hub week. May 2020
- FAIRsFAIR & EOSC infographic

For dissemination & social media share

- FAIRsFAIR videos
- FAIRsFAIR podcasts
- Twitter channel
- LinkedIn page
- Youtube account
- FAIRsFAIR standard logo (png)
- FAIRsFAIR square logo (png)

FAIRsFAIR deposited outputs are periodically added to the **FAIRsFAIR community on Zenodo**

FAIRsFAIR Readings

- FAIRsFAIR documents for community review
- Deliverables and milestones
- Presentations
- Articles and blogposts
- Newsletters
- Other Outputs

FAIRsFAIR Software & Tools

- FAIR Aware
- FAIR Data Object Assessment Metrics
- F-UJI