FAIRsFAIR webinar on Persistence and interoperability in FAIR research data management
11 February 11:00 AM CET
Sara Pittonet, Trust-IT Services s.pittonet@trust-itservices.com
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.

Specifically we aim to identify overlaps, divergences and challenges related to FAIR within the EOSC framework, with a special focus being given to the interaction between FAIRsFAIR and the FAIR related initiatives, including the EOSC Cluster projects.

FAIRsFAIR Key facts

- Starting date: March 1, 2019
- Duration: 36 months
- 22 partners from 8 Member States (MS)
- 6 core partners: DANS (project coordinator), CSC, DCC, Trust-IT, STFC, EUA
WP2: FAIR Practices: Semantics, Interoperability, and Services

• Create the bases for continued work on sustainable technical implementation of the FAIR principles on a broad level and improve the understanding of the current variety in FAIR data standards

• Improve the semantic interoperability of research resources by specifying FAIR metadata schemas, vocabularies, protocols, and ontologies

• Provide solutions for interoperability requirements and machine accessibility for FAIR repositories

• Define the extent to which the FAIR concept can be applied to data services (including software)

• Identify gaps regarding semantic interoperability, metadata and PIDs
D2.1 Report on FAIR requirements for persistence and interoperability 2019

http://doi.org/10.5281/zenodo.3557381

This document is the first iteration of three annual reports on the state of FAIR in European scientific data by the FAIRsFAIR project. The interpretation of the FAIR data principles and their implications for services are now under intense scrutiny across Europe with multiple possible outcomes. The report is based on studies of public information, especially EOSC infrastructure efforts, and on limited surveying and interviews. The focus has been on understanding the usage of persistent identifiers and semantic interoperability. This study highlights the rapidity of change in technical solutions and wide variation across scientific domains in the uptake. More efforts are needed to guide researchers in best practices.

Request for comments:

► We are seeking wide feedback on this draft which will inform other areas of work within the FAIRsFAIR project. Comments and suggestions can be added at

https://docs.google.com/document/d/1LPMpuDSylhzYT6S3bG2KPecdDXn-af4bJxzX2r_xLIs/edit
WP3: FAIR Data Policy and Practice

WP3 aims to increase the production and use of FAIR data by guiding necessary changes in policy and practice at funder, repository and organisational levels.

Under community review:

D3.1 FAIR Policy Landscape Analysis http://doi.org/10.5281/zenodo.3558173

Request for comments:

► We are seeking wide feedback on this draft which will inform other areas of work within the FAIRsFAIR project. Comments and suggestions can be added at https://docs.google.com/document/d/1EaPCF_9ir9bNg9MPBe3heT1wNuDuS8tJ/edit?dls=true

D3.2 FAIR Data Practice Analysis
https://zenodo.org/record/3581353#.XkJtNFJKhTY
WP4: FAIR Certification

- **FAIR Objects** → FAIRness evaluations of individual datasets
  - use case based iterative approach building on existing work: researchers and data repositories

- **FAIR-enabling repositories** → to support the co-development and implementation of certification schemes for data repositories, building on existing frameworks

- Through [two Open Calls](https://doi.org/10.2777/54599) run between July and August 2019, FAIRsFAIR selected **22 Data Repositories** - out of 73 applications - which will get specific support for achieving CoreTrustSeal certification ([www.coretrustseal.org](http://www.coretrustseal.org)) & improving the FAIRness and interoperability of data
The first FAIRsFAIR training workshop for data repositories selected to receive assistance in achieving CoreTrustSeal certification took place in The Hague on Thursday 6 February 2020.
WP6: FAIR Competence Centre

Competence Centre Support

➔ Provide overview of research communities’ needs for a competence centre.
➔ Establish a core competence centre for developing FAIR skills incl a help centre and a “FAIR forum” to provide online help
➔ Develop a knowledge base of training materials in FAIR skills for the above competence centre.

Training Programme

➔ Build on CODATA-RDA Research Data Science schools to run annual series of schools in FAIR skills.
➔ Run five train the trainer events (run in parallel with CODATA-RDA schools).
➔ Franchise the schools to specific research communities.
➔ Provide materials for competence centre.

Under community review:

D6.1 Overview of needs for competence centres http://doi.org/10.5281/zenodo.3549791

Request for comments:

► Comments and suggestions can be added until 17 April 2020 at: https://drive.google.com/file/d/1c-KFgFWXr3d9f93IzAlMsH0W7-g547X/view?usp=sharing
WP7: FAIR Data Science and Professionalisation

- Realisation of EOSC requires more data scientists/data stewards and researchers with FAIR competences
- RDM mandates (e.g. in H2020 and other European funding programmes) will mainstream FAIR even further and increase competence needs
- Data-sharing and re-use needs also a cultural change among researchers

WP7 overview/objectives

- Develop a Competence Framework for FAIR to support professionalisation, recognition and uptake of FAIR data science and data stewardship
- Develop model courses, curricula, training documents to support uptake in university curricula
- Train universities in using the Framework and model curricula to speed up adoption
The High Level Advisory Committee

Janna Baláž
Affiliation: University of Helsinki
Country: Finland

Janna Baláž, University of Helsinki’s Institute for Atmospheric and Earth Research, focuses on the interactions between the atmosphere and the Earth. Her research has contributed to understanding atmospheric processes, such as biogeochemical cycles, trace gas exchange, and feedbacks, and by environmental factors. In particular, her research has been interested in how ecosystems act as sinks and sources of atmospheric aerosols and how these processes vary spatially and temporally. She has been involved in several national and international projects focusing on the role of ecosystems in carbon and climate regulation.

Désirée Cottrell
Affiliation: Welcoming Trust
Country: United Kingdom

Désirée Cottrell is Programme Manager for Open Research at the UK and helps drive the UK’s efforts to maximize the availability and use of research outputs. Her work includes developing and implementing policies to improve the accessibility and reusability of research outputs, including research data sharing, open access publishing, open access policies, and digital preservation.

Brito Petroskiūnas
Affiliation: Vytautas Magnus University
Country: Lithuania

Brito Petroskiūnas is a professor at Vytautas Magnus University and a proponent of data-driven research. He has initiated and supervised the implementation of the first big corpus of the Lithuanian language and performed corpus-based research in most fields of linguistics.

Conhagga Smith
Affiliation: Organisation for Economic Co-operation & Development (OECD)
Country: United Kingdom

Dr. Smith joined the Organisation for Economic Co-operation and Development (OECD) in 2014 as the Organisation for Economic Co-operation and Development (OECD) Secretary-General. His work with national members to define the overall strategy and priorities for the OECD, including defining policy on research, innovation, science, and technology processes.

Shelley Stall
Affiliation: American Geophysical Union
Country: United States

Shelley Stall is the Senior Director for the American Geophysical Union’s Data Leadership Program. She works with AGU’s members, member organizations, and the broader research community to improve data and digital object practices with the ultimate goal of improving how research data is managed and valued. Better data management results in better science.
Establishing a dialogue among the various projects and actors in the EOSC Ecosystem whose work touches on FAIR in order to:

- Maximise coordination & minimise unnecessary overlap or duplication;
- Encourage the dovetailing of projects’ and actors’ activities with EOSC governance;
- Promote mechanisms to collaborate on turning FAIR into reality.
- 1st meeting organised in Budapest on 25 November 2019, during the EOSC Symposium, second meeting scheduled on 29-30 April 2020, Den Haag
European Group of FAIR Champions

Current Members

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

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

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

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

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

New Champions to be announced by the end of February 2020
Call for feedback open!

- D3.2 FAIR Data Practice Analysis [https://doi.org/10.5281/zenodo.3581353](https://doi.org/10.5281/zenodo.3581353)

Ten things you can do to support the FAIR data culture

FAIRsFAIR is organising a half-day workshop at IDCC2020 on how to support FAIR data culture.

Topics for discussion:

- Improving the interoperability of FAIR objects
- Increasing the production and use of FAIR data
- Building networks of Trusted Digital Repositories and supporting their certification
- Fostering data stewardship skills development
- Embedding FAIR data education into university programmes
FAIRsFAIR 2020

28-20 April, Den Haag, The Netherlands

- 28 April - parallel WP meetings
- 29 April - WP2 workshop + 2nd Synchronisation Force Workshop
- 30 April - All-hands meeting

Stay tuned!
Thank you and enjoy the webinar!

Sara Pittonet s.pittonet@trust-itservices.com

Twitter: FAIRsFAIR_eu
Linkedin: company/fairsfair/
Website & Newsletter www.fairsfair.eu
Annex - Ongoing work and initial deliverables (Until Q2 2020)
WP2: Ongoing work and initial deliverables (Until Q2 2020)

• D2.1 Report on FAIR requirements for persistence and interoperability
  • Report https://doi.org/10.5281/zenodo.3557381
  • Data https://doi.org/10.5281/zenodo.3518922
• Reviews the landscape and stakeholders
• Diversity in maturity within domains
• Need for context sensitive solutions based on researchers’ needs
• Semantic interoperability needs attention
• Intense work in WP on FAIR regarding semantics and services, we need engagement and community input
• Upcoming:
  • D2.2 1st set of Recommendations for FAIR Semantics
  • D2.3 Set of FAIR data repositories features
WP3: Upcoming milestones and deliverables (Until Q2 2020)

T3.2 - Work with stakeholders to enhance and/or develop data policies
- M3.3 Draft recommendations on policy enhancement [M11]
- M3.4 Workshop with policy makers [M11]
- D3.3 Recommendations on policy to support FAIR practice [M12]

T3.3 - Embedding FAIR data practice in research culture
- D3.4 Recommendations on practice [M15]

T3.4 - Support transition to FAIRer data providers, stewards and repositories
- M3.5 Draft of D3.5 for consultation with repositories [M15]
- M3.6 Identification of initial group of repositories [M16]
- D3.5 Description of transition support for repositories [M18]
WP4: Ongoing work, Deliverables and Milestones until the end of Q2 2020

- **WP4 delivered** outputs:
  - **Open Call for repository involvement**
    - 10 repositories selected for in-depth FAIR-aligned repository certification support (WP4)
    - 19 repositories selected for technical FAIRification/interoperability support (WP2)
  - **Generic evaluation reference model**, for considering different, standard, evaluation and certification solutions

- **WP4 upcoming** output:
  - **Feb 2020** - M4.1: initial set of proposals for repository evaluation including assessment of maturity towards enabling long-term FAIR objects
  - **Feb 2020** - D4.1: **draft recommendations on requirements for FAIR datasets in trustworthy repositories**
  - **May 2020** - D4.2: **initial version of a repository certification mechanism**. Open to iterations afterwards.
WP6: Ongoing work and initial deliverables (Until Q2 2020)

WP6 - Competence centre

- Delivery of first school in August 2019. Development of additional curriculum with focus on FAIR.
- Workshop at RDA Helsinki on school to improve curriculum.
- Discussions initiated on franchising.
- Paper accepted for IDCC 2020 in Dublin on schools.
- Landscape Survey and interviews on Competence centre requirements (Aug-Nov 2019)
- Defining structures for Competence Centre

MS38: Research communities surveyed and prioritised for competence centres (Nov 2019)

Upcoming

- D6.2 : Report : Initial core competence centre structures (Feb 2020)
WP7: Ongoing work and initial deliverables (Until Q2 2020)

- Focus Groups: ~55 participants
  - Universities, Research Data Management and the FAIR Principles (UC3M, 30 October) - together with WP3
  - Teaching (FAIR) Data Management and Stewardship (UvA, 19 November)
- Survey on FAIR data aspects in Higher Education Institutions (Sep-Nov 2019): 90 responses including partial ones
- Results are being analysed, report due in February 2020 (Deliverable 7.1, M12)
- Work on FAIR Competence Framework is in progress (Deliverable 7.3, M24, but with iterations)