eosc | FAIR-IMPACT
Expanding FAIR solutions across EOSC

FAIR-IMPACT Synchronisation Force workshop 2022

Introduction session, 8 November 2022

Ingrid Dillo, Vasso Kalaitzi, Sara Pittonet, Marjan Grootveld

Funded by the European Union

Welcome message

Sara Pittonet, Trust-IT, and Ingrid Dillo, DANS

Synchronisation Force

ONLINE WORKSHOP

2022 Edition

8 November - 12 December

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Expanding FAIR solutions across EOSC

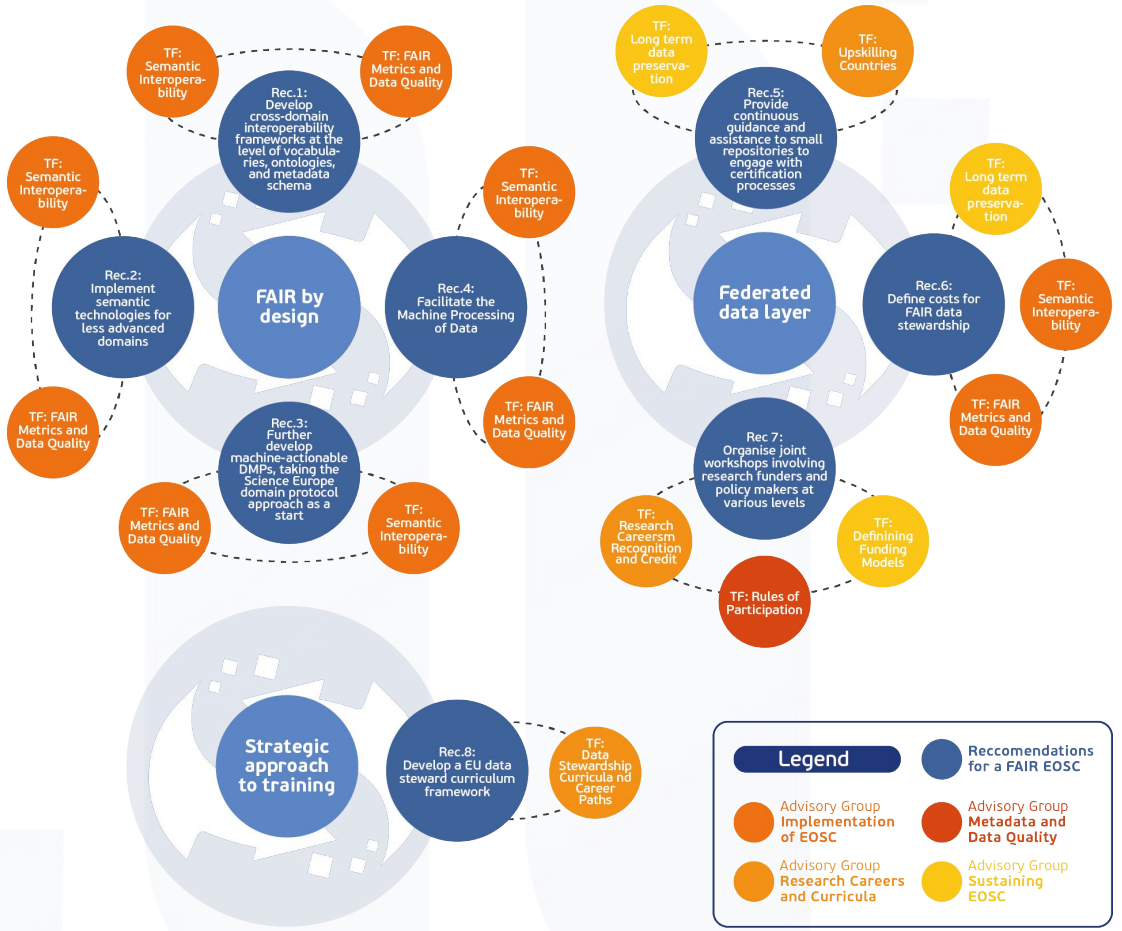
Welcome!

10.5281/zenodo.6378823

The workshop aims to discuss common challenges and priorities related to turning the FAIR principles into practice.

Four online collaborative sessions between the 21st and 24th of November 2022 will assess the implementation of **selected recommendations** and ambitions from the Turning FAIR into Reality Report (2018), the FAIRsFAIR White Paper (2021), the SRIA (version June 2021) and EOSC Multi-Annual Roadmap (2023-2024).

They will be opened by today's **introductory session** and will conclude with a **discussion session on December the 12th.**



Plan for today

- Introduction to FAIR-IMPACT and the Synchronisation Force
- Looking back on the Synchronisation Force workshop in FAIRsFAIR
- Goal of this workshop and intended output
- Stakeholders in this workshop
- What do we expect from you?
- Q&A

FAIR-IMPACT in a Nutshell

Vasso Kalaitzi, DANS

FAIR-IMPACT overall objective

WHAT:
to realise a FAIR EOSC by supporting the implementation of FAIR-enabling practices ***across scientific communities and research outputs at a European, national, and institutional level***;

How:

- ★ Engaging a wide range of stakeholders early and using a matrix of coordination and support mechanisms => Optimising cross-collaboration and alignment
- ★ Identifying current/emerging FAIR-enabling components (practices, policies, tools, technical specs)
- ★ Translating viable solutions, guidelines and frameworks that have been developed for one domain or research output and supporting their application in others
- ★ taking the next step in implementation by defining the support, governance, and coordination mechanisms required to ensure the continuous function of FAIR-enabling practices in the EOSC

Expanding FAIR Solutions across Europe

Call HORIZON-INFRA-2021-EOSC-01-05

Enabling discovery and interoperability of federated research objects across scientific communities

36Month EU funded project started in June 2022

28 partners involved in the project

Coordination and Support Action

4 project management and governance bodies

3 coordination mechanisms

4 Support Tiers to enable adoption and implementation

WP1 PROJECT MANAGEMENT, SYNCHRONISATION AND SUSTAINABILITY
WP3 PERSISTENT IDENTIFIERS
WP6 INTEROPERABILITY
WP2 ENGAGEMENT, ADOPTION & IMPLEMENTATION
WP4 METADATA AND ONTOLOGIES
WP5 METRICS, CERTIFICATION AND GUIDELINES
WP7 DISSEMINATION, EXPLOITATION AND COMMUNICATION

Coordination mechanisms

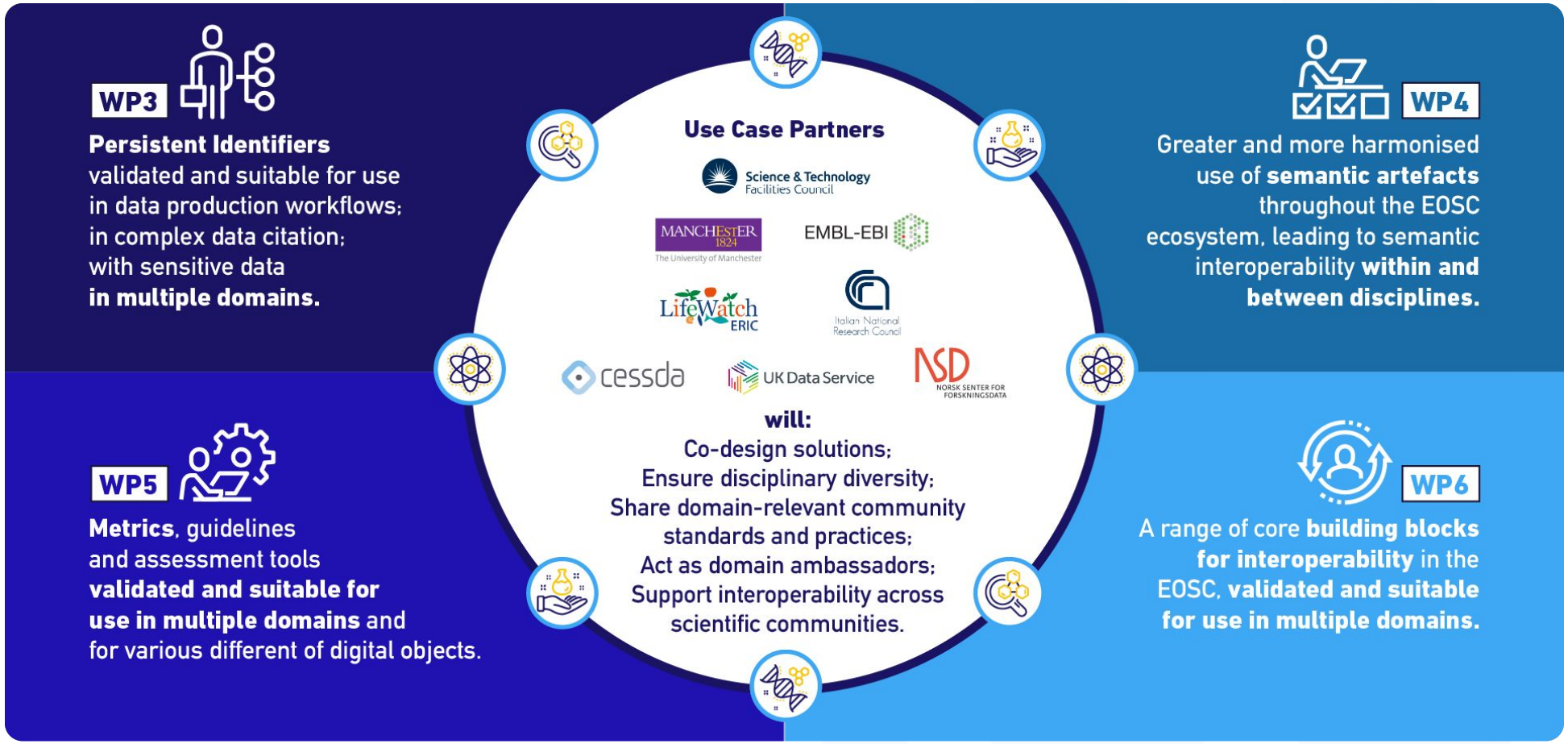
To build a web of FAIR data and related services, FAIR-IMPACT is supported by three coordination mechanisms:

a **Technical Bridging Team**, leading and ensuring the technical alignment between FAIR-IMPACT and other strategic initiatives in the framework of the European Open Science Cloud

a **FAIR Implementation Team**, supporting adoption and implementation of FAIR-enabling practices, policies, tools or technical specifications

the **Synchronisation Force**, in charge of establishing a dialogue among the various projects, initiatives and actors in both EOSC and FAIR ecosystems to reduce redundancy and ensure that solutions are more widely promoted, sustainable and can be transferred to the relevant EOSC Partnership and current and future EOSC stakeholders.

FAIR-IMPACT integrated use cases supporting practical implementation of the FAIR principles



Integrated use cases => Added value

- ★ The “bridge” to four scientific domains
- ★ Provide expertise in defining requirements, identifying gaps and implementation opportunities across the FAIR-IMPACT focus areas
- ★ Being involved in translating what works for them and support adoption beyond their original domains, stakeholder groups and output types

Examples of integrated use cases in FAIR-IMPACT:

Social Sciences and Humanities: The F-UJI tool will be adapted to fit SSH relevant community standards for FAIR

Photon & Neutron science: A range of components for cross-domain research data description will be tested

Life science: Data provenance will be better documented by extending RO-Crate to practices on PID usage

Agri-food: Metadata providers will implement a common API for federating access to semantic artefacts

Adoption & implementation support

★ **Support programme** to boost uptake of FAIR data principles and practices by research performing organisations, data service providers and repositories:

- **Cascading grants**
- **In-kind support**
- **Harmonisation for EOSC-readiness** => Contributing to EOSC TFs on Long-term data preservation ✔ PID policy and implementation ✔ Semantic Interoperability ✔ FAIR metrics and data quality ✔ Infrastructure for quality research software ✔

5+1 Expected key results to look forward to:

1. A range of governance, coordination and collaboration mechanisms necessary for a functioning FAIR research ecosystem;

2. Adoption of FAIR-enabling components and mechanisms at multiple levels among a diverse group of stakeholders using a wide range of tools and Support Tiers

3. A persistent identifier support programme and guidance for the provision of PID services in EOSC, incl. mechanisms for adoption and implementation;

4. A semantic framework for the governance, creation, mapping, sharing, reuse, FAIRness assessment and interoperability of semantic artefacts for EOSC;

5. Guidelines and prototypes to support both enabling FAIR and assessing the FAIRness and trustworthiness of different types of digital objects in multiple domains.

6. Components and services for increased legal, organisation, semantic and technical interoperability within and across disciplines.

The Consortium

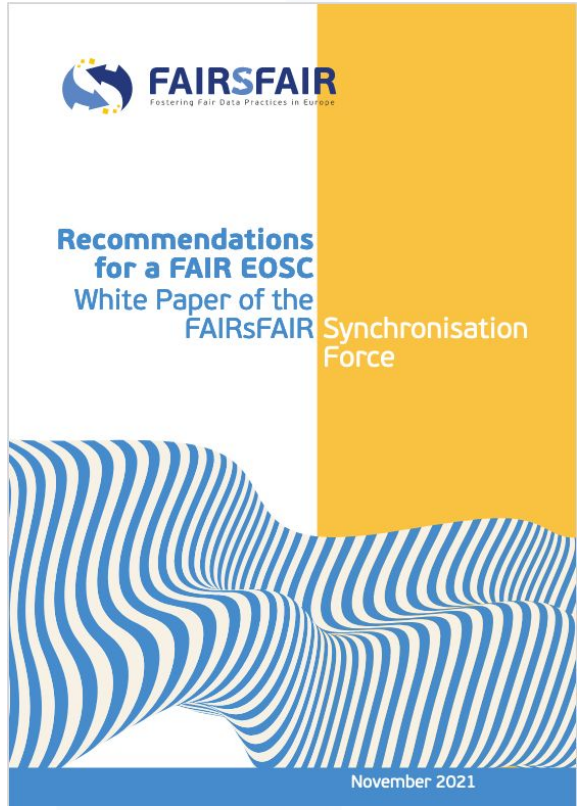
Introduction to the Synchronisation Force 2022 edition

Marjan Grootveld, DANS

The Synchronisation Force is back!

Building on the successful Synchronisation Force approach from the FAIRsFAIR project (2019-2021), FAIR-IMPACT establishes dialogue for collaboration and harmonisation of efforts between FAIR-IMPACT and other EOSC and FAIR-related initiatives. We do this to

1. reduce redundancy;
2. ensure that solutions are more widely promoted, sustainable and can be transferred to the relevant EOSC Partnership and current and future EOSC stakeholders;
3. take the next step in implementing FAIR-enabling practices.



https://fair-impact.eu/fairsfair-legacy

Synchronisation Force — Target Stakeholders

EOSC Partnership

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EOSC Tripartite collaboration
(European Commission, the EOSC Association, and the Member States and Associated Countries)

- PID policy and implementation
- Researcher engagement and adoption
- FAIR metrics and data quality
- Semantic interoperability
- Technical interoperability of data & services
- Long-term data preservation

Open Science initiatives

COAR Confederation of Open Access Repositories
OpenAIRE
RDA Research Data Alliance
FAIRsharing.org standards, databases, policies

Building an EOSC in practice - engaging with solution providers

HORIZON-INFRA-2021-EOSC-01 Projects

eosc Focus
FAIR-EASE
eosc FAIRCORE4EOSC Core Components Supporting a FAIR EOSC
BY-COVID
WorldFAIR Skills4EOSC EOSC4Cancer
EuroScienceGateway RAISE AI4EOSC

ESFRI Cluster Projects

panosc photon and neutron open science cloud
ExPaNDS
ESCAPE
SSHOpenCluster Social Sciences & Humanities Resources
EOSC-Life
ENVRI FAIR

EOSC Technical Core

DICE
EOSC Future

EOSC Providers

EGI
EUDAT
GÉANT Networks • Services • People
OpenAIRE

November 2022

Goal of the workshop and intended output

2022 Workshop

8 November - 12 December

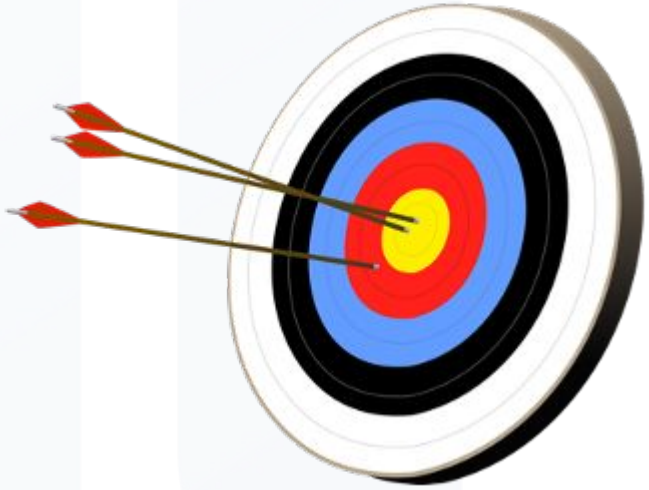
2023 Workshop

I want to stay tuned!

2024 Workshop

I want to stay tuned!

- Goal: chart developments in four areas from the represented projects and initiatives.
- Output of this workshop:
  - Spreadsheet with your input
  - Concise workshop report, to be finalised by February 2023
- Output of the *three* workshops: White Paper with recommendations for how to encourage impact, alignment and synchronisation around FAIR and EOSC



Structure of the workshop 2022

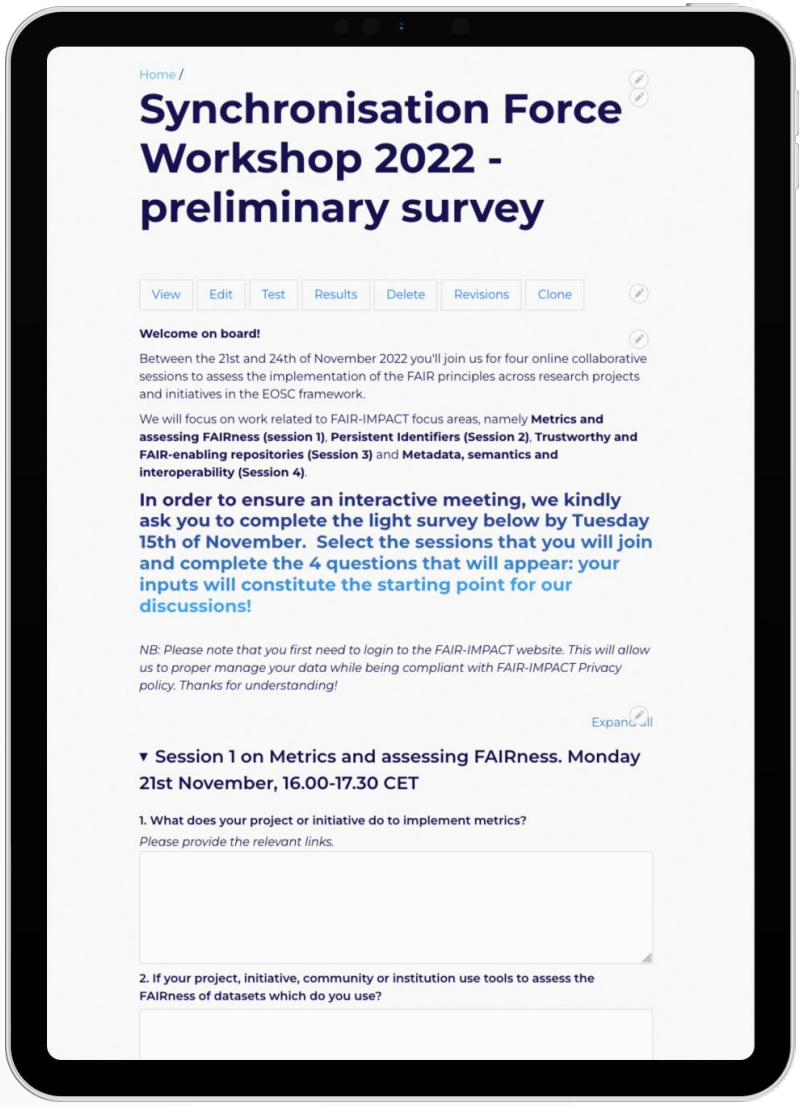
Date	Session Topic	Chair & Rapporteur
21st November 16.00-17.30 CET	Metrics and assessing FAIRness	Chair: Mike Priddy, DANS Rapporteur: Maaike Verburg, DANS
22nd November 11.00-12.30 CET	Persistent Identifiers	Chair: Jessica Parland-von Essen, CSC Rapporteur: Liisi Marjamaa-Mankinen, CSC
22nd November 13.00-14.30 CET	Trustworthy and FAIR-enabling repositories	Chair: Maaike Verburg, DANS Rapporteur: Ryan O'Connor, DCC
24th November 14.00-15.30 CET	Metadata, semantics and interoperability	Chair: Clément Jonquet, INRAE Rapporteur: Oscar Corcho, UPM
12th December 13.00-14.30 CET	Plenary discussion session	

Same link to join the FAIR-IMPACT Synchronisation Workshop series:
https://us02web.zoom.us/j/82453074366?pwd=b2Flc25Rd3pVRWhGNW9BNlVTTisxUT09
Reminders will be sent prior to each session, including details about its structure, chairs and rapporteurs.

What we expect from you

Provide information about topic-related developments and plans in your project, initiative or domain:

1. fill in the **online survey** here by **15 November:** your inputs will constitute the starting point for our discussions;
2. during the topic sessions, use a shared **Google spreadsheet** to complete the information provided;
3. help in reporting on workshop findings and recommendations in the concluding plenary session.

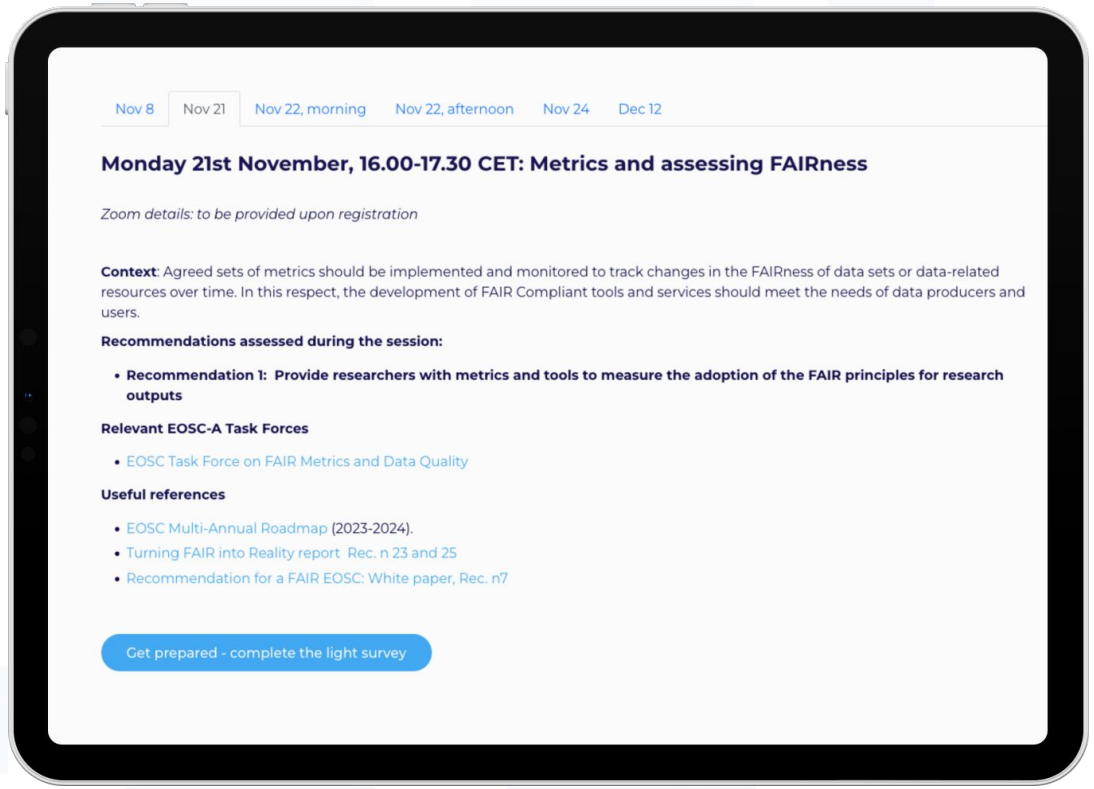


Metrics and assessing FAIRness
21 November 16.00-17.30 CET

Key questions, to be answered in the survey:

1. What does your project or initiative do to implement metrics?
2. If your project, initiative, community or institution uses tools to assess the FAIRness of **datasets:** which do you use?
3. Are you aware of tools and metrics that are used to assess **software** FAIRness and are you utilising them in your project or initiative? Which tool(s) and metrics?
4. Are you aware of tools and metrics that are used to assess **semantic artefacts** FAIRness and are you utilising them in your project or initiative? Which tool(s) and metrics?

Chair: Mike Priddy (DANS)
Rapporteur: Maaike Verburg (DANS)

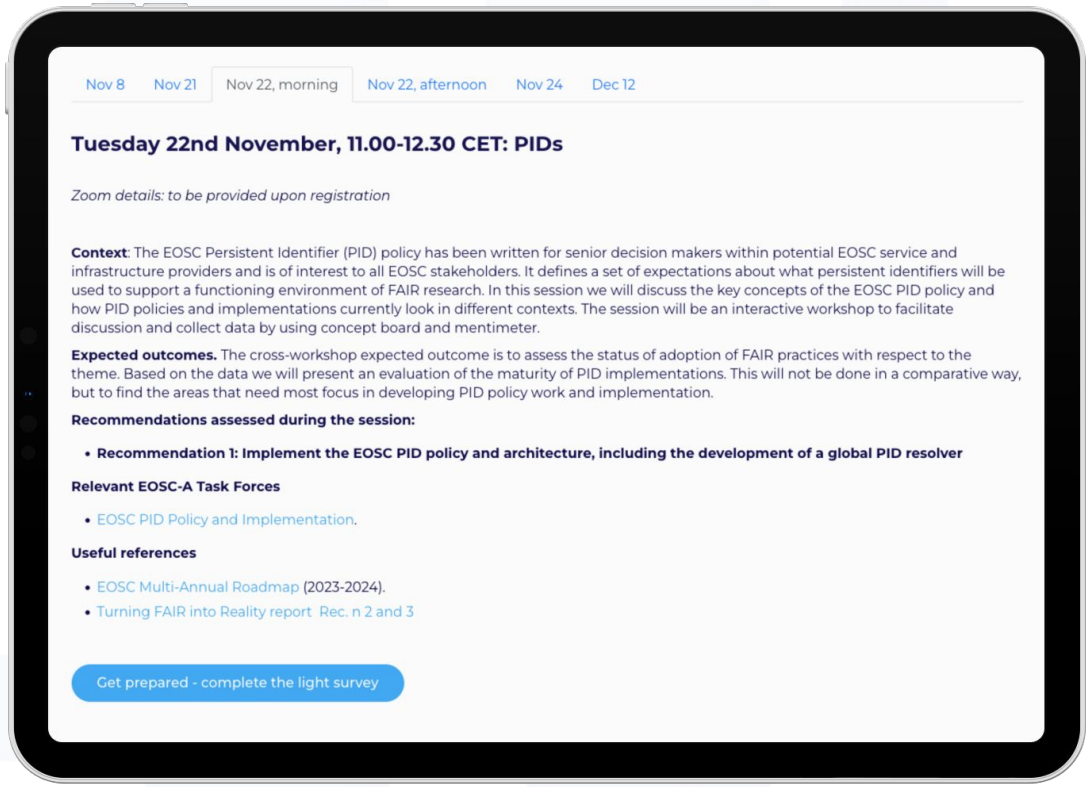


Persistent Identifiers
22 November 11.00-12.30 CET

Key questions, to be answered in the survey:

1. What does your project or initiative do to implement PIDs? Please provide any relevant links.
2. Do you use persistent identifiers in your project / community?
3. Which are the roles and responsibilities in your organisation regarding PID management?
4. Do you have a PID policy in your organisation?

Chair: Jessica Parland-von Essen (CSC)
Rapporteur: Liisi Marjamaa-Mankinen (CSC)

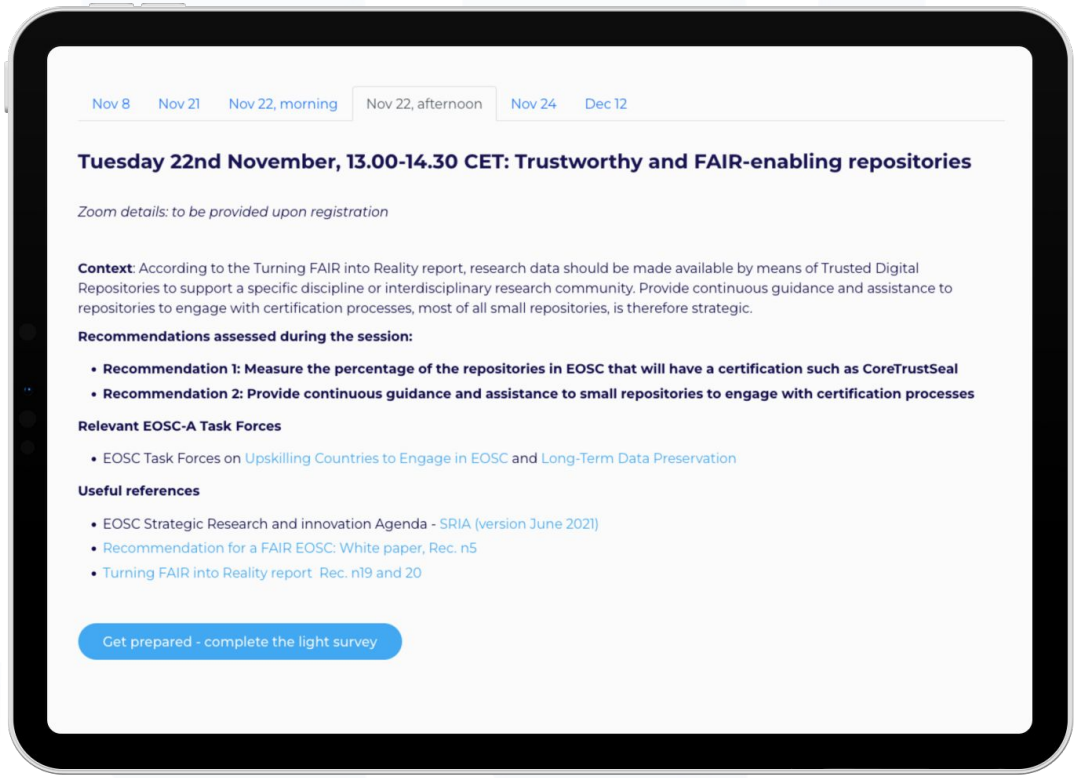


Trustworthy and FAIR-enabling repositories
22 November 13.00-14.30 CET

Key questions, to be answered in the survey:

1. What is your project or initiative doing to increase the number of trustworthy, FAIR-enabling and/or certified repositories? Please provide any relevant links.
2. In your project, initiative, or community, do you work with repositories that have a certification such as CoreTrustSeal?
3. What guidance and assistance is needed to enable repositories to engage with certification processes or to become more FAIR-enabling? Think most of all of small repositories.
4. What challenges do Trustworthy Digital Repositories face in maintaining certification and becoming more FAIR-enabling?

Chair: Maaike Verburg (DANS)
Rapporteur: Ryan O'Connor (DCC)

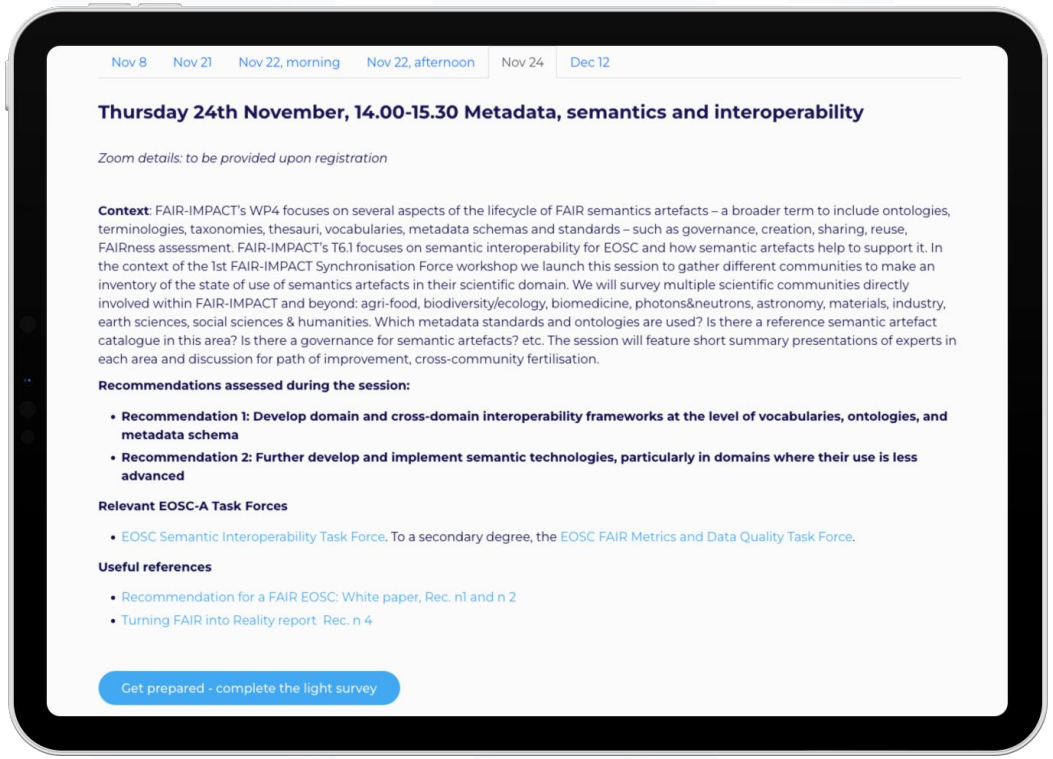


Metadata, semantics and interoperability - 24 November 14.00-15.30 CET

Key questions, to be answered in the survey:

1. Which are the semantic artefacts that you develop or use in your scientific domain and how are they governed (developed and maintained)?
2. What limitations do you see in your scientific domain with respect to the use of semantic artefacts to describe and/or search/find research datasets?
3. Is there any type of semantic artefact catalogue (vocabulary or terminology service, ontology library or repositories, etc.) in your scientific domain, where some (or all) of these semantic artefacts are catalogued?
4. Is there a strategy to deal with crosswalk and mappings between semantic artefacts in your scientific domain?

Chair: Clément Jonquet (INRAE)
Rapporteur: Oscar Corcho (UPM)



Virtual, interactive sessions and a collaborative spreadsheet

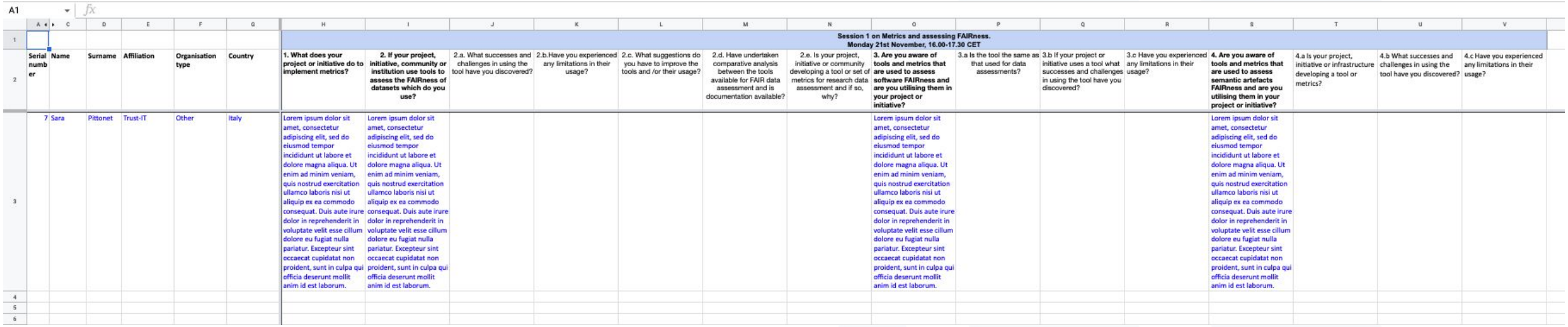
From **FAIRsFAIR Pan-European Uptake FinalReport:**

The interactive approach turned out to be effective. The active engagement or participants before and during the event was really high, and several attendees kept up with this during the six consecutive sessions

Asking attendees to provide information about their projects' deliverables in a joint spreadsheet works well

Asking the project representatives to summarise the most important outcomes and reports facilitated the analysis and was a good way to survey any relevant work

doi.org/10.5281/zenodo.5786729



							Session 1 on Metrics and assessing FAIRness. Monday 21st November, 16.00-17.30 CET													
Serial number	Name	Surname	Affiliation	Organisation type	Country	1. What does your project or initiative do to implement metrics?	2. If your project, initiative, community or institution use tools to assess the FAIRness of datasets which do you use?	2.a. What successes and challenges in using the tool have you discovered?	2.b.Have you experienced any limitations in their usage?	2.c. What suggestions do you have to improve the tools and /or their usage?	2.d. Have undertaken comparative analysis between the tools available for FAIR data assessment and is documentation available?	2.e. Is your project, initiative or community developing a tool or set of metrics for research data assessment and if so, why?	3. Are you aware of tools and metrics that are used to assess software FAIRness and are you utilising them in your project or initiative?	3.a Is the tool the same as that used for data assessments?	3.b If your project or initiative uses a tool what successes and challenges in using the tool have you discovered?	3.c Have you experienced any limitations in their usage?	4. Are you aware of tools and metrics that are used to assess semantic artefacts FAIRness and are you utilising them in your project or initiative?	4.a Is your project, initiative or infrastructure developing a tool or metrics?	4.b What successes and challenges in using the tool have you discovered?	4.c Have you experienced any limitations in their usage?
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Questions for you! Questions for us?

Thank you for filling out the survey

and see you in the topic sessions!

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