



FAIR Assessment

Barbara Magagna, Gerhard Burger, Rick Overkleeft

11 December 2024

IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System
(D.D. n. 130/2022 - CUP B53C22002150006) Funded by EU - Next Generation EU PNRR-
Mission 4 "Education and Research" - Component 2: "From research to business" - Investment
3.1: "Fund for the realisation of an integrated system of research and innovation infrastructures"



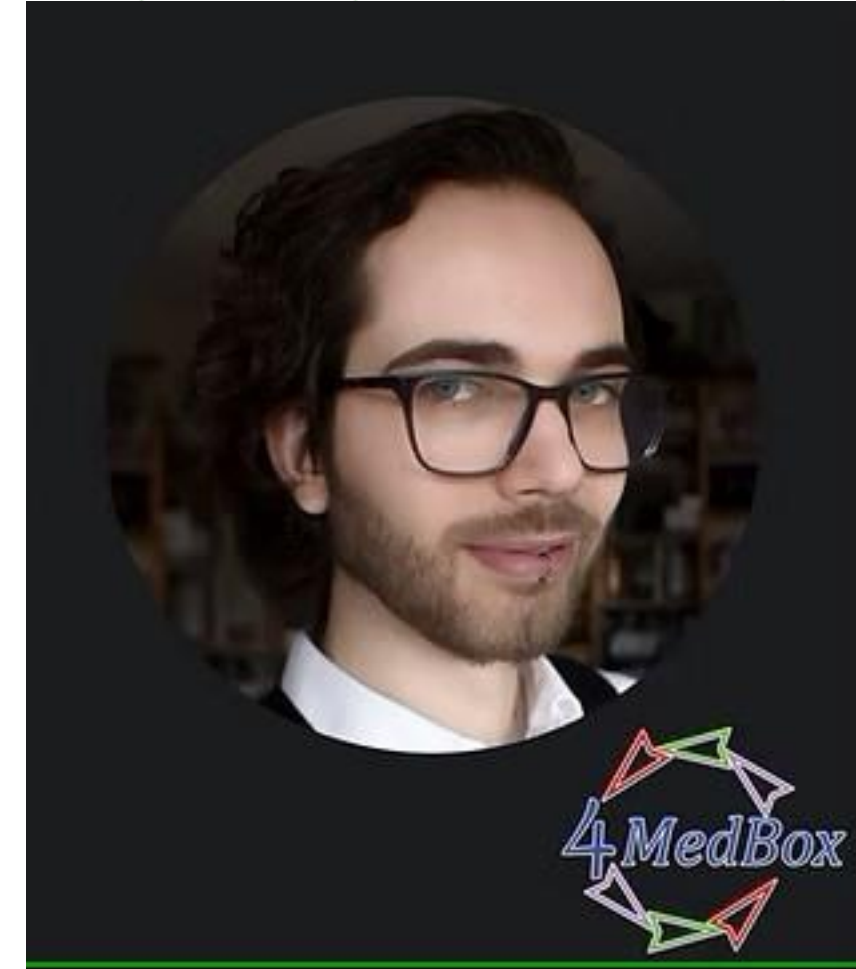
Welcome

13:00-13:10
(Barbara)

Introductions



Gerhard Burger
3PFF Facilitator
LACDR, Leiden University



Rick Overkleeft
GFF Fellow
4MedBox

Agenda

13:00-13.20 (20 min): Welcome and Recap (Barbara)

13:20-13:25 (5 min): FAIR assessment overview (Barbara)

13:25-13:40 (15 min): Qualitative FAIR Assessment Methods (Barbara)

13.40-14:00 (20 min): Try it yourself (questionnaires)

14:00-14:15 (15 min): FAIR Roadmapping (ENVRI) (Barbara)

14:15-14:35 (20 min): Break

14:35-14:55 (20 min): Quantitative FAIR Assessment Methods (Gerhard)

14:55-15:35 (40 min): Try it yourself (services)

15:35-16:00 (25 min): Discuss results

16:00-16:10 (10 min): Break

16:10-16:50 (40 min): FAIR initiatives: EU and beyond (Barbara)

16:50-17:00 (10 min): Review and Feedback

17:00: Adjourn

Recap

13:00-13:20
(Barbara)

Go to: [Figma](#)

FAIR Assessment Overview

13:20-13:25
(Barbara)




An overview of FAIR Assessment methods

 A good overview is the FAIRsharing resource: <https://fairassist.org/#/>

 Different methods to categorize these methods:

- Manual vs Automated
- The digital object type to be assessed (data vs vocabulary)
- Self-assessment vs assessments based on metrics
- The objective to be achieved

An overview of FAIR Assessment methods

-  Manual based self-assessment methods
-  Automated services based on metrics
-  Roadmapping services

Qualitative FAIR Assessment Methods

13:25-13:40
(Barbara)

Questionnaires for self-assessment

Objectives:

- Increase awareness of the FAIR principles
- Find out which FAIR aspect might still be missing
- Improve the FAIRness of digital objects

Examples:

- FAIR data assessment tool
- FAIR Aware
- FAIRdat

Try it yourself (questionnaires)

13:40-14:00

Go to: [FAIR assist](#)

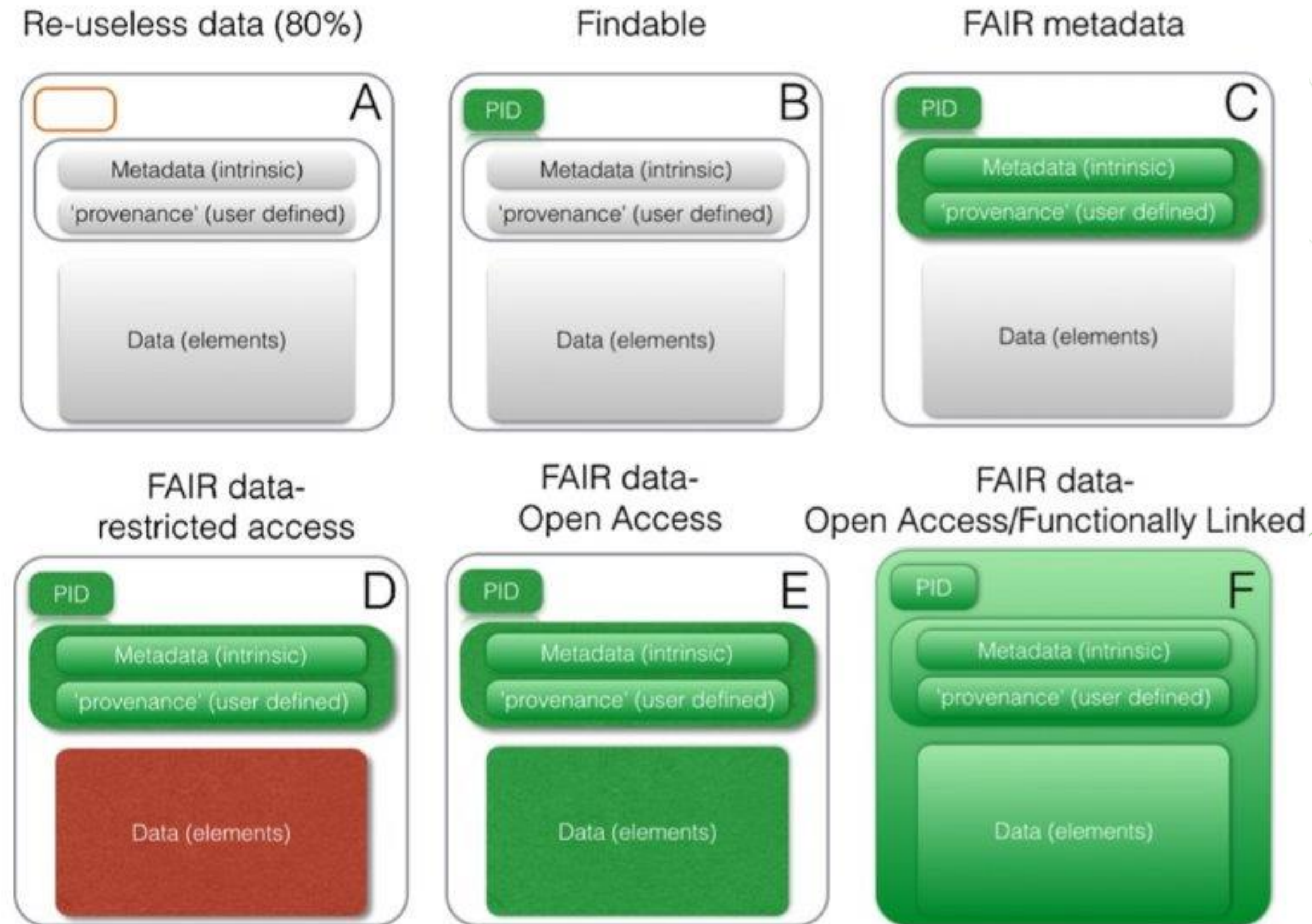
FAIR Roadmapping

14:00-14:15
(Barbara)

FAIR Roadmapping methods

Data as increasingly FAIR Digital Objects







Assist in prioritizing actions for FAIRifying data and metadata



DOI: 10.3233/ISU-170824

FAIR Maturity Matrix V1.0

Different organisations are at different stages of their FAIR implementation journeys and benchmarking the level of FAIRness in an organisation is challenging. This matrix gives a starting point.

Metaphor	 Junkyard	 Flea market	 Street Market	 Local Markets	 Hyper Market	 Digital Online Store
	0 Life is unFAIR	1 Started the FAIR journey	2 Getting FAIR	3 Pretty FAIR	4 Really FAIR	5 FAIRest of them all
FAIR data	data 0	data 1	data 2	data 3	data 4	data 5
FAIR leadership	leadership 0	leadership 1	leadership 2	leadership 3	leadership 4	leadership 5
FAIR strategy	strategy 0	strategy 1	strategy 2	strategy 3	strategy 4	strategy 5
FAIR roles	roles 0	roles 1	roles 2	roles 3	roles 4	roles 5
FAIR processes	process 0	process 1	process 2	process 3	process 4	process 5
FAIR knowledge	knowledge 0	knowledge 1	knowledge 2	knowledge 3	knowledge 4	knowledge 5
FAIR tools	tools 0	tools 1	tools 2	tools 3	tools 4	tools 5

[link](#)



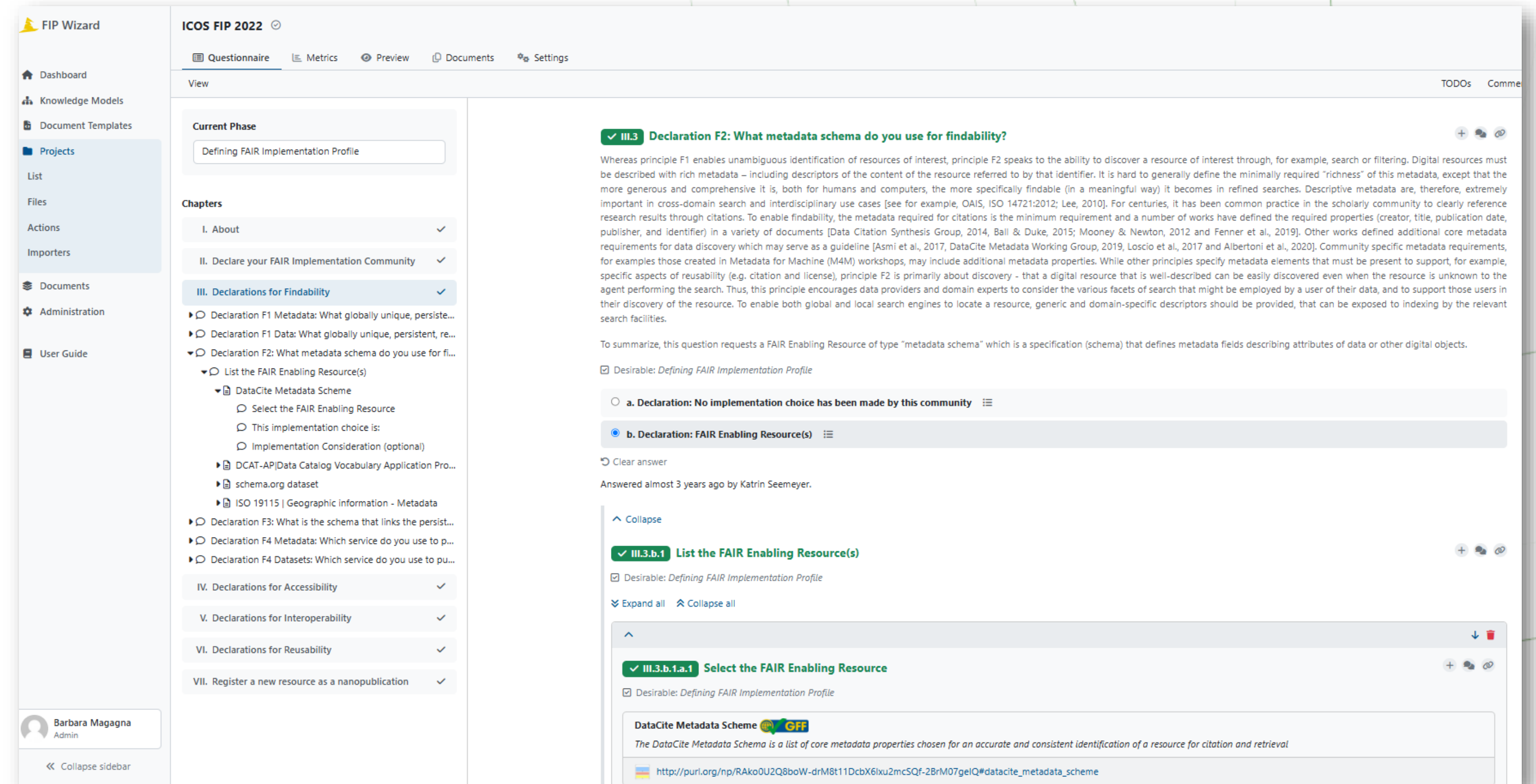
FAIR Implementation Profiles (FIP)

A FAIR Implementation Profile

(FIP) is a list of declared technology choices intended to implement each of the FAIR Guiding Principles, made as a collective decision by the members of a particular community of practice.

The [FIP Wizard](#) captures FIPs by means of a questionnaire.

Nanopublications are used to represent these choices and [FAIR Connect](#) is used as search engine.

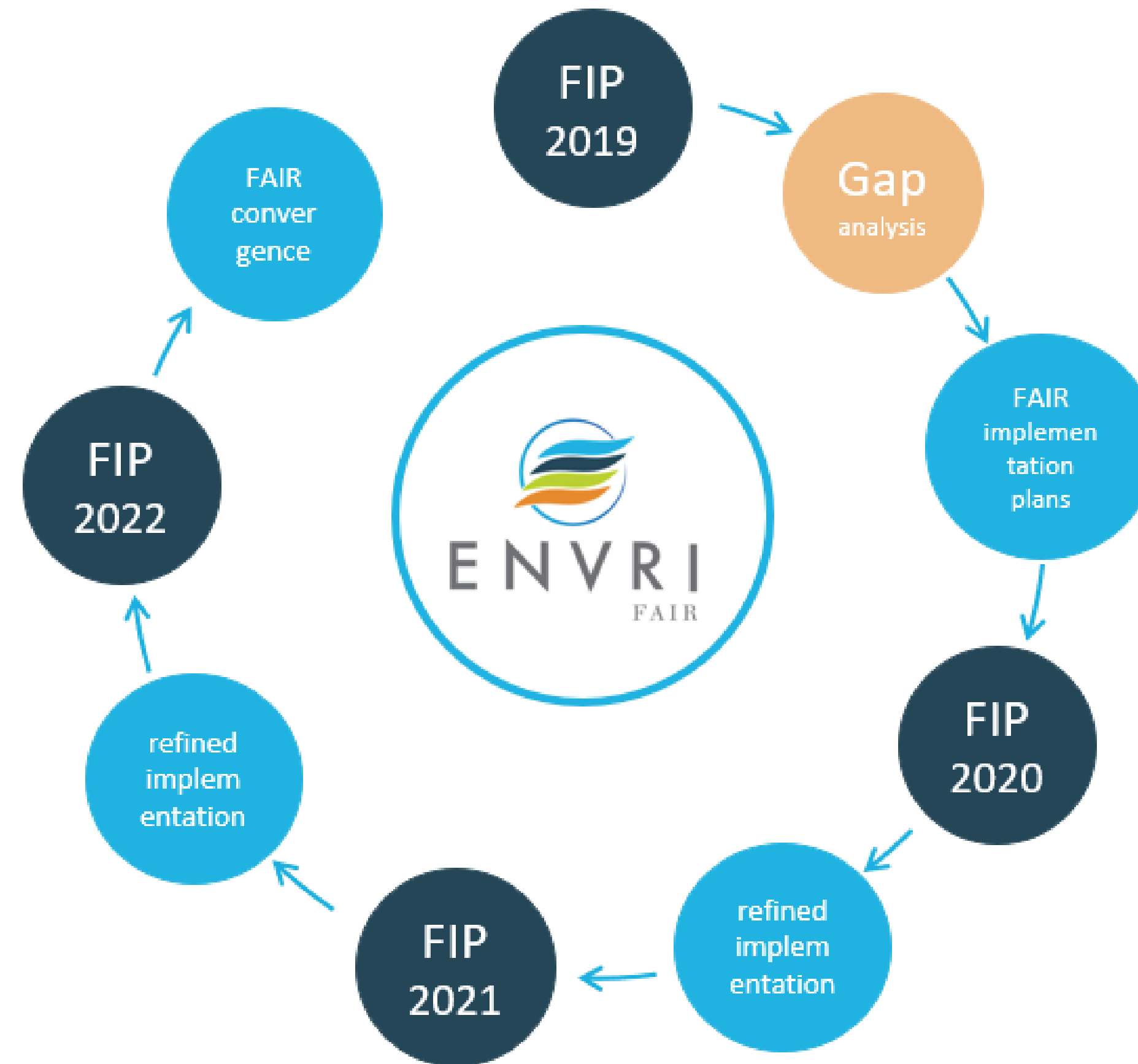


FIPs as roadmapping tools to achieve FAIR Convergence in ENVRI

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- FAIR Assessments updated manually using FIPs
- Gap analysis
- FAIR Implementation Plans
- Refined implementations

FAIR Convergence





Resume 14:30 CET

Quantitative FAIR Assessment Methods

14:35-14:55
(Gerhard)



Try it yourself (services)

14:55-15:35

Go to: [FAIR assist](#)

Discuss Results

15:35-16:00



Resume 16:10 CET

FAIR Initiatives: EU and beyond

16:10-16:50
(Barbara)



Different initiatives working on different levels

National Initiatives

EU-Projects (focused on a specific aspect, EU-wide)

EOSC – European Open Science Cloud (broad in scope, EU-wide)

FDO Forum – FAIR Digital Object Forum (focused on FDOs, worldwide)

RDA – Research Data Alliance (broad in scope – data related, worldwide)

[link](#)



EU Projects and beyond

FAIRsFAIR: <https://www.fairsfair.eu/> (2018-2022) – FAIR- Aware, F-UJI, Recommendations

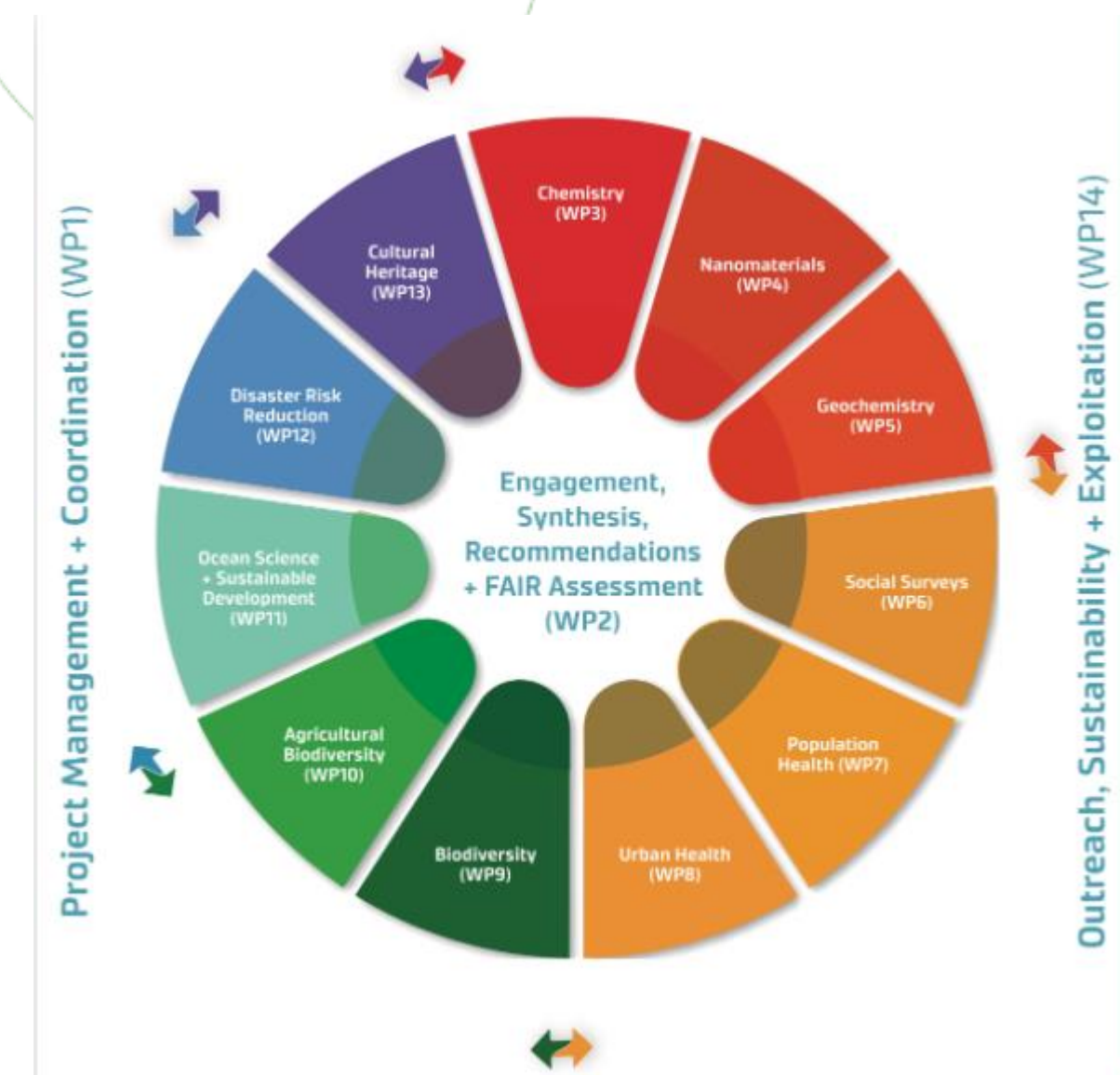
FAIR Impact: <https://fair-impact.eu/> (2022-2024) – strong in synchronizing efforts

FAIRCORE4EOSC: <https://faircore4eosc.eu/> (2022-2024) – build components (MSCR, PIDMR, DTR, PIDGraph, RAiD, CAT,...)

OSCARS: Open Science Clusters' Action for Research and Society (2024-2027) for ESFRI and RI organized in EOSC Science Clusters

ostrails: <https://ostrails.eu/> (2024-2027) focuses on advancing processes and instruments for planning, tracking, and assessing scientific knowledge production

WorldFAIR: (2023-24) <https://worldfair-project.eu/> - work towards FAIR Convergence



European Open Science Cloud



Goal: develop a Web of FAIR Data and Services for science in Europe

EOSC Tripartite Governance – coordination between EU (Commission), the EOSC Association, Member States

Focuses on five EOSC Science Clusters:

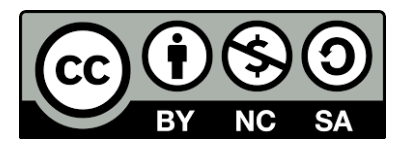
- ENVRI (environmental science)
 - EOSC-Life (life science)
 - ESCAPE (astronomy and particle physics)
 - PaNOSC (neutron and light source science)
 - SSHOC (social science and humanities)
-
- EOSC Opportunity Areas (become part of an expert group)
 - EOSC Task Forces
 - EOSC EU nodes: <https://open-science-cloud.ec.europa.eu/>

[link](https://open-science-cloud.ec.europa.eu/)



FAIR Digital Object Forum - <https://fairdo.org/>

- Organized in different working groups
- Published specifications:
<https://fairdo.org/specifications/>
- Webby FDOs (RO-Crate, nanopublications)
- DOA based FDOs using Handle PIDs



Research Data Alliance

 community-driven initiative launched in 2013

 build social and technical bridges

Organised in:

 Interest Groups (68): international participation, long-term initiatives within RDA

 Working Groups (60): active for 18 months, need to be recognized, should produce recommendations

 Recommendations: <https://www.rd-alliance.org/what-are-recommendations-and-outputs/>

 around 10 RDA WG dealing with FAIR, but many more with interoperability

Review and Feedback

16:50-17:00



FAIR
Well!

THANKS!

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