



FAIRsFAIR

Fostering Fair Data Practices in Europe

Introducing FAIRsFAIR

Presenting: Hanna Koivula (CSC)

Materials: Jessica Parland-von Essen (CSC)
and Gerard Coen (DANS)

FAIRsFAIR in a nutshell

FAIRsFAIR - *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.

FAIRsFAIR 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



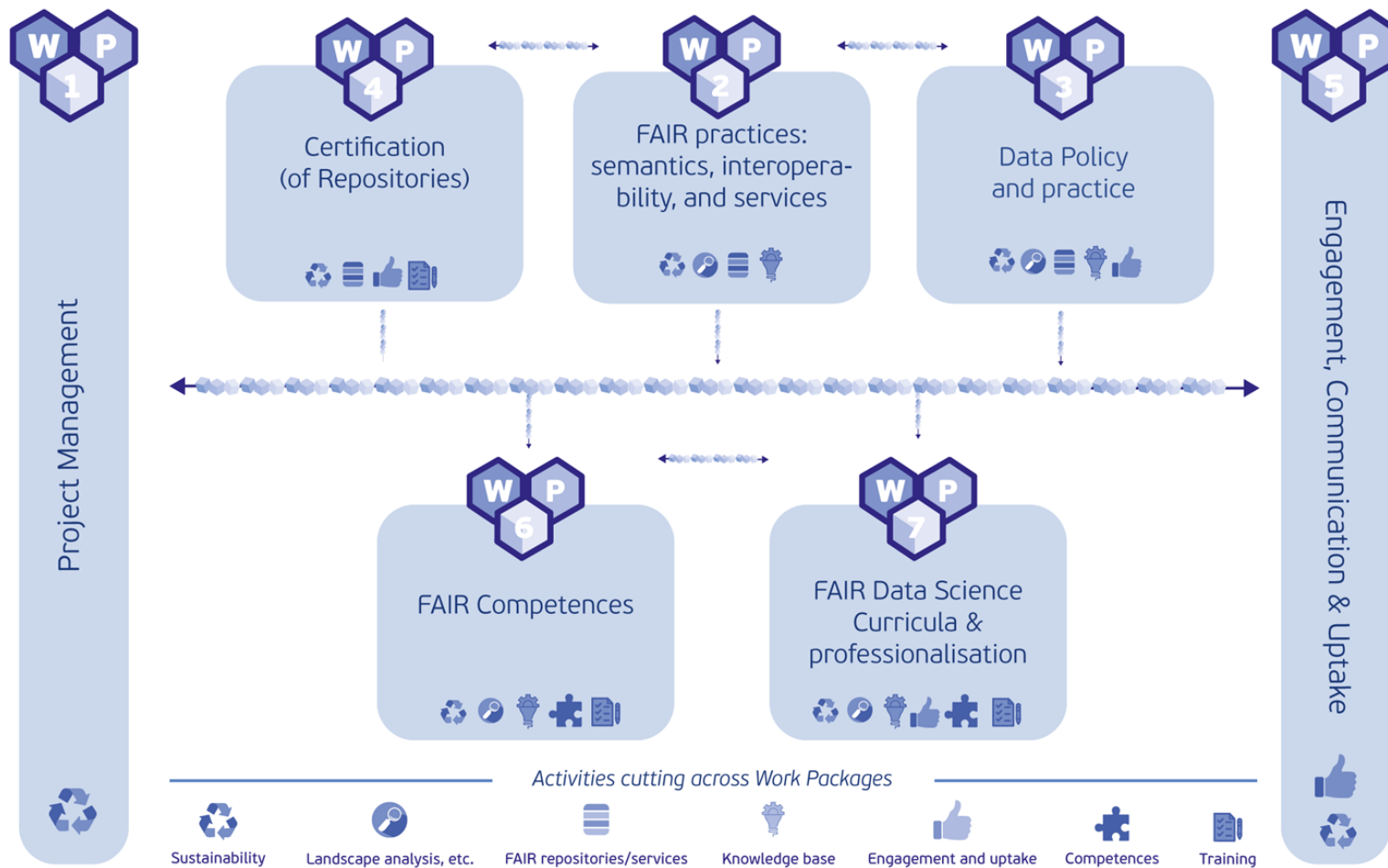
Universidade do Minho



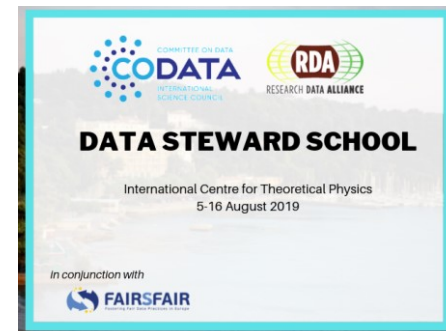
UK Research
and Innovation



FAIRsFAIR workplan



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 competences 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

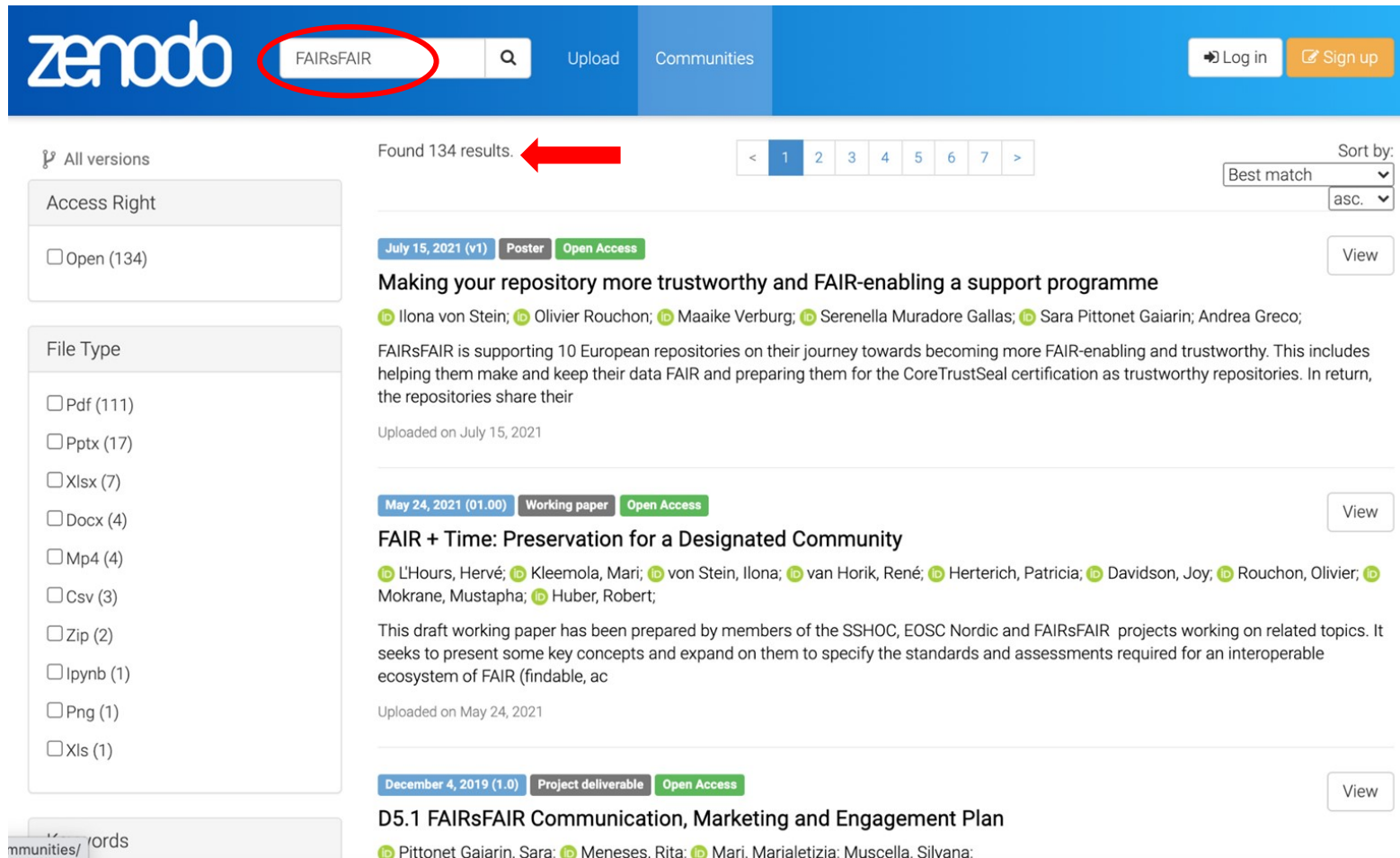
DEFINE		IMPLEMENT		EMBED & SUSTAIN	
CONCEPTS FOR FAIR IMPLEMENTATION	FAIR CULTURE	FAIR ECOSYSTEM	SKILLS FOR FAIR	INCENTIVES AND METRICS FOR FAIR DATA & SERVICES	INVESTMENT IN FAIR
1. DEFINE FAIR FOR IMPLEMENTATION	4. DEVELOP INTERDISCIPLINARY FRAMEWORKS	7. SUPPORT DOMAINS, TECHNOLOGIES	10. PROFESSIONALISE DATA ECOSYSTEM & STAKEHOLDER ROLES	12. DEVELOP INSTITUTIONAL OUTPUT	14. PROVIDE STABLE, SUSTAINABLE FUNDING
2. IMPLEMENT A MODEL FOR FAIR OBJECTS	5. ENSURE DATA MANAGEMENT (DAMP)	8. FACILITATE PROCESSES	11. IMPLEMENT CAPABILITY FRAMEWORKS AND TRAINING	13. DEVELOP METRICS TO CERTIFY FAIR SERVICES	15. PROVIDE FUNDING
3. DEVELOP SUPPORT SERVICES FOR FAIR ECOSYSTEM	6. RECOGNISE & REWARD FAIR DATA ECOSYSTEM	9. CERTIFY FAIR SERVICES			
PRIORITY RECOMMENDATIONS ARE ABOVE THIS LINE; SUPPORTING RECOMMENDATIONS ARE BELOW THIS LINE:					
16. APPLY FAIR BROADLY	18. COST MANAGEMENT	22. USE INFORMATION HELD IN DAMPS		25. HIGH ENLIGHTEN AND MONITOR METRICS	27. OPEN FAIR TO ALL PROVIDERS BUT ENSURE SERVICES ARE FAIR
17. ALIGN AND IMPROVE FAIR POLICY	19. SELECT AND PRIORITISE FAIR DATA OBJECTS	23. DEVELOP DATA ECOSYSTEMS WITH RESEARCH TO NEEDS		26. SUPPORT DATA ECOSYSTEM AND RESEARCH TO NEEDS	
	20. REPORT ON FAIR DATA ECOSYSTEMS	24. INCENTIVISE RESEARCH TO NEEDS			
	21. INCENTIVISE FAIR DATA ECOSYSTEMS				

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



FAIR Data Object Assessment Metrics

FAIRsFAIR results



The screenshot shows the Zenodo search results page for the query 'FAIRsFAIR'. The search bar at the top is highlighted with a red circle. Below the search bar, the results are displayed in a list format. The first result is titled 'Making your repository more trustworthy and FAIR-enabling a support programme' and is dated July 15, 2021. The second result is titled 'FAIR + Time: Preservation for a Designated Community' and is dated May 24, 2021. The third result is titled 'D5.1 FAIRsFAIR Communication, Marketing and Engagement Plan' and is dated December 4, 2019. The left sidebar shows filters for Access Right (Open) and File Type (Pdf, Pptx, Xlsx, Docx, Mp4, Csv, Zip, Ipynb, Png, Xls). The right sidebar shows sorting options (Best match, asc.) and pagination (1, 2, 3, 4, 5, 6, 7, >). A red arrow points to the 'Found 134 results.' text.

zenodo **FAIRsFAIR** Upload Communities Log in Sign up

All versions Found 134 results. < 1 2 3 4 5 6 7 > Sort by: Best match asc.

July 15, 2021 (v1) Poster Open Access View

Making your repository more trustworthy and FAIR-enabling a support programme

Ilona von Stein; Olivier Rouchon; Maaïke Verburg; Serenella Muradore Gallas; Sara Pittonet Gaiarin; Andrea Greco;

FAIRsFAIR is supporting 10 European repositories on their journey towards becoming more FAIR-enabling and trustworthy. This includes helping them make and keep their data FAIR and preparing them for the CoreTrustSeal certification as trustworthy repositories. In return, the repositories share their

Uploaded on July 15, 2021

May 24, 2021 (01.00) Working paper Open Access View

FAIR + Time: Preservation for a Designated Community

L'Hours, Hervé; Kleemola, Mari; von Stein, Ilona; van Horik, René; Herterich, Patricia; Davidson, Joy; Rouchon, Olivier; Mokrane, Mustapha; Huber, Robert;

This draft working paper has been prepared by members of the SSHOC, EOSC Nordic and FAIRsFAIR projects working on related topics. It seeks to present some key concepts and expand on them to specify the standards and assessments required for an interoperable ecosystem of FAIR (findable, ac

Uploaded on May 24, 2021

December 4, 2019 (1.0) Project deliverable Open Access View

D5.1 FAIRsFAIR Communication, Marketing and Engagement Plan

Pittonet Gaiarin, Sara; Meneses, Rita; Mari, Marialetizia; Muscella, Silvana;

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

What is meant by FAIR Semantics?

“Semantic artefact” is a broad term including research resources such as ontologies, terminologies, taxonomies, thesauri, vocabularies, metadata schemas, and standards.

They are key components to enabling FAIR but these *semantic artefacts themselves have to be FAIR*.

“FAIR Principle I2: (Meta)data use vocabularies that follow FAIR principles”

“FAIR Semantics” are semantic artefacts which adhere to the FAIR principles.

The end goal of the FAIR Semantics team...

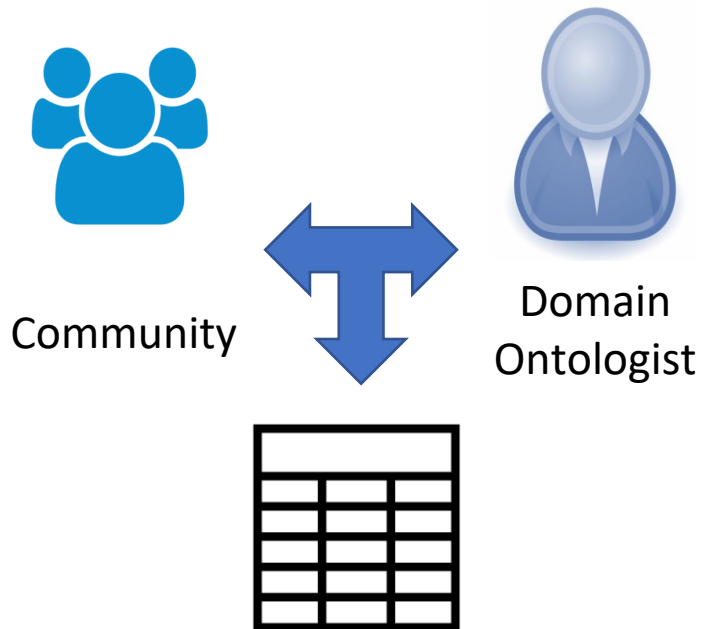
...is to co-create both recommendations for making semantic artefacts FAIR, and a set of agreed best practices to follow together with the semantics community at large

- Based on community input & feedback processes
- **First version** released in March 2020
 - DOI: [10.5281/zenodo.3707984](https://doi.org/10.5281/zenodo.3707984).
 - **Second version** released in January 2021
 - DOI: [10.5281/zenodo.4314320](https://doi.org/10.5281/zenodo.4314320)
 - **Third version** due to be released in February 2022
- 17 Priority Recommendations & 14 Best Practices Recommendations

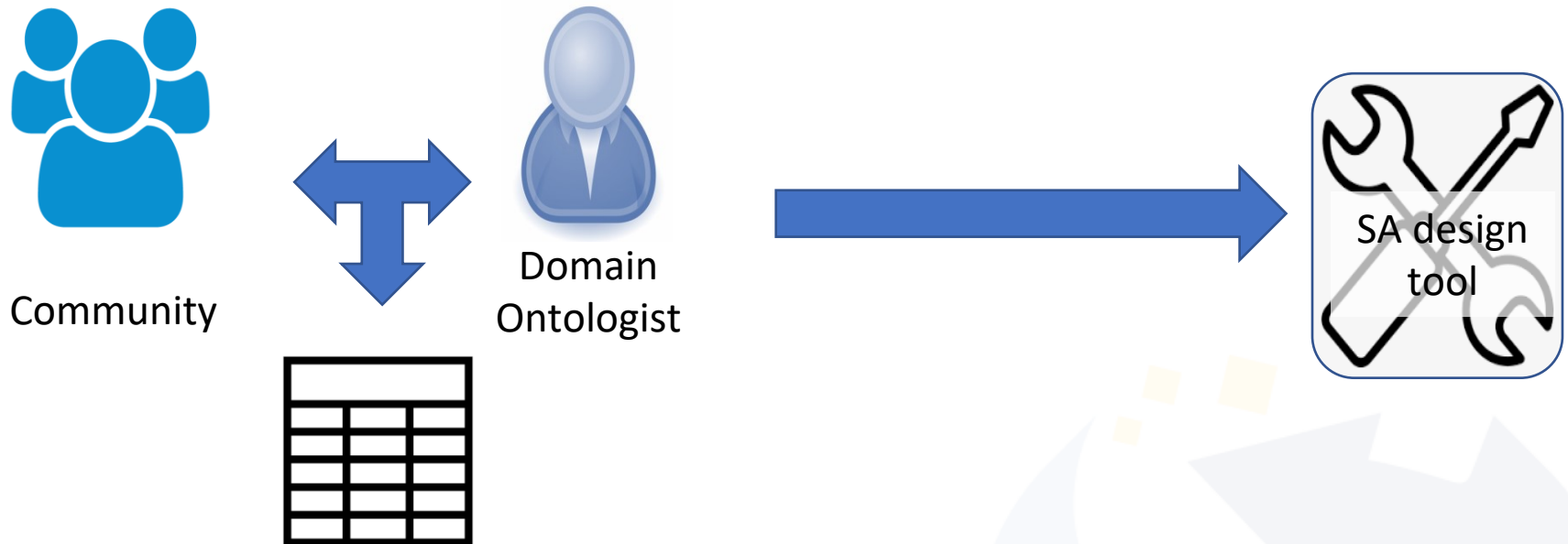
One Example - Priority Recommendation #3

P-Rec 3: « A common minimum metadata schema **must** be used to describe semantic artefacts and their content »

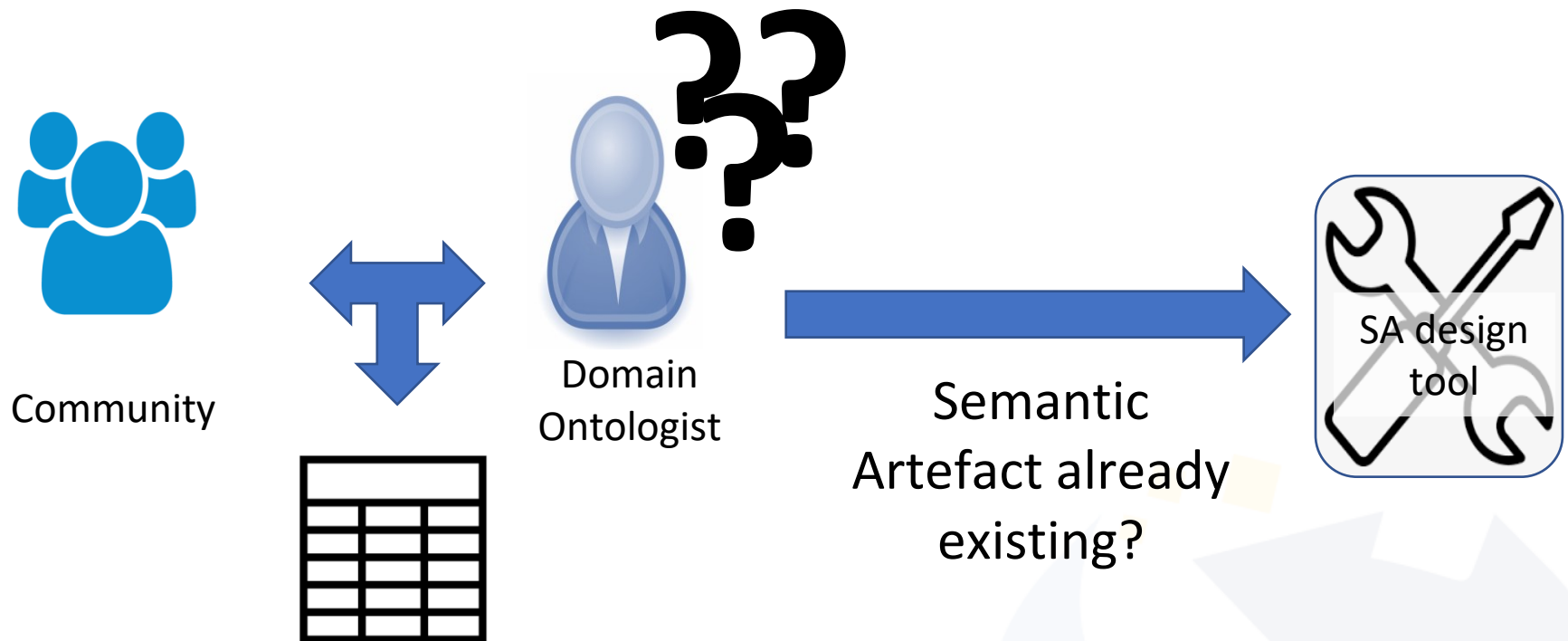
A guiding use-case: searching for ontology



A guiding use-case: searching for ontology



A guiding use-case: searching for ontology



A search engine for Semantic Artefacts

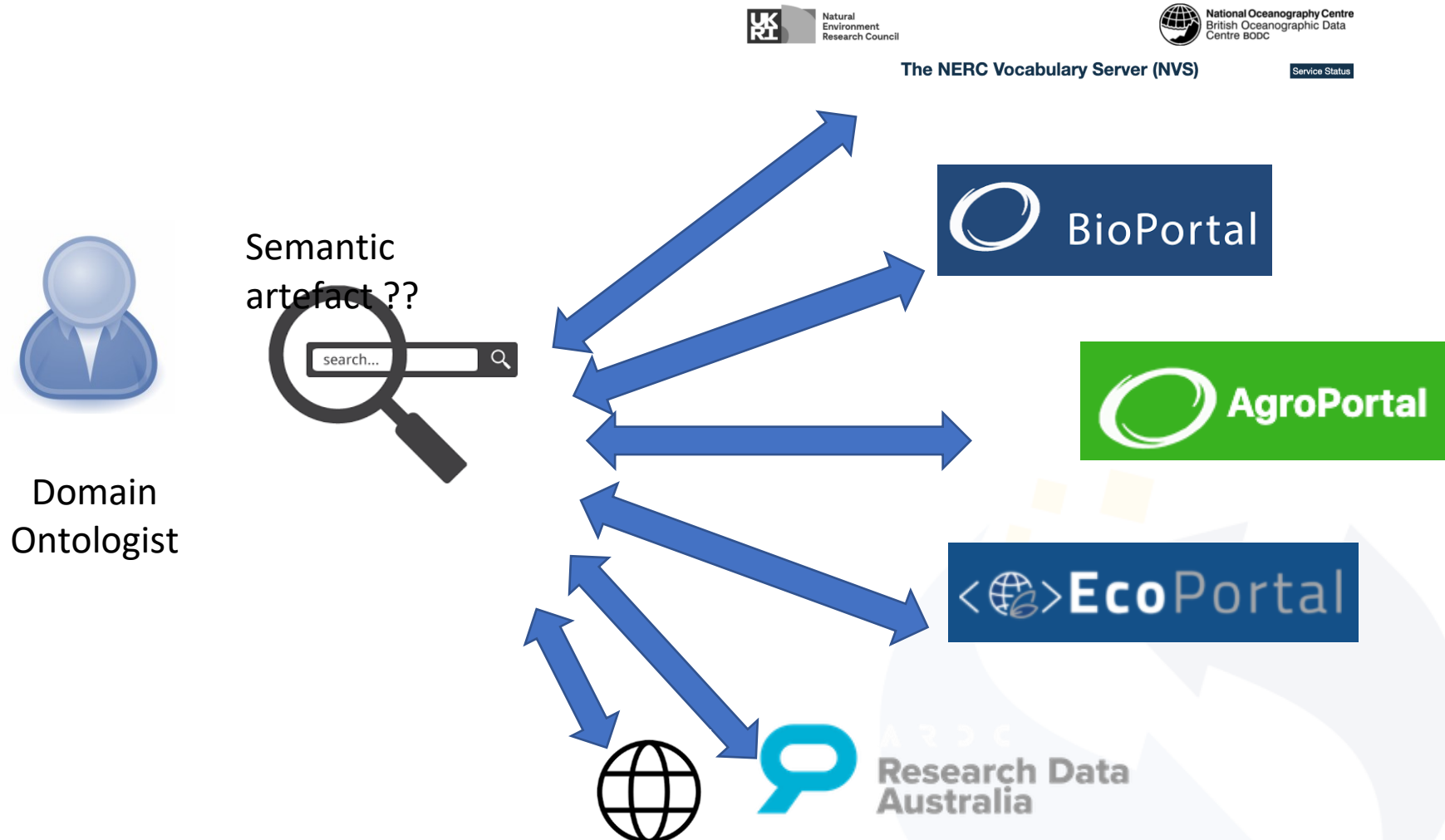


Domain
Ontologist

Semantic
artefact ??



A search engine for Semantic Artefacts



Examples of the changes 1st >> 2nd version (D2.5)

D2.2 >	<i>P-Rec. 3: Use a common minimum metadata schema to describe semantic artefacts and their content</i>	F2, R1.1, R1.2 and R1.3
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D2.5 >	Mandatory P-Rec. 3: A common minimum metadata schema must be used to describe semantic artefacts and their content	F2, R1.1, R1.2 and R1.3	Metadata
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Alignment with RFC 2119 (9 MUST, 7 SHOULD, 1 MAY Recommendations)

Examples of the changes 1st >> 2nd version (D2.5)

D2.2 >	<i>P-Rec. 4: Publish the Semantic Artefact and its content in a semantic repository</i>	F4
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D2.5 >	Optional <i>P-Rec. 4: Semantic Artefact and its content should be published in a trustworthy semantic repository</i>	F4	Repository
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Integrating the idea of trustworthiness for repositories. Proposed as an ‘Optional’ requirement.

*CoreTrustSeal plus FAIR overview: <https://doi.org/10.5281/zenodo.4003630>

*See: Lin, D., Crabtree, J., Dillo, I. et al. The TRUST Principles for digital repositories. *Sci Data* 7, 144 (2020). <https://doi.org/10.1038/s41597-020-0486-7>

* Relate to trustworthiness in data repositories but the notion of adherence to quality standards, certification and compliance is still relevant.

Ways to get involved

Workshop to discuss the
future of the
recommendations
(in planning Winter 2021)

**Suggestions,
contributions, and
feedback are always
welcome...**



Learn more on our website

<https://fairsfair.eu/>

