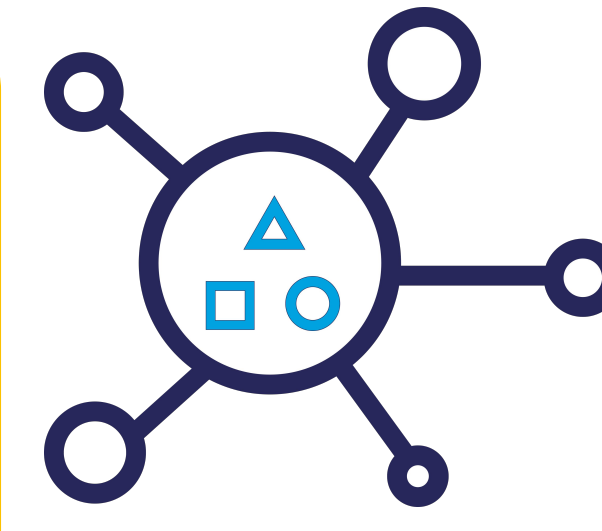


Greater and more harmonised use of **semantic artefacts** throughout the EOSC ecosystem, leading to semantic interoperability **within and between disciplines.**

Metadata & Ontologies Outcomes & Use cases

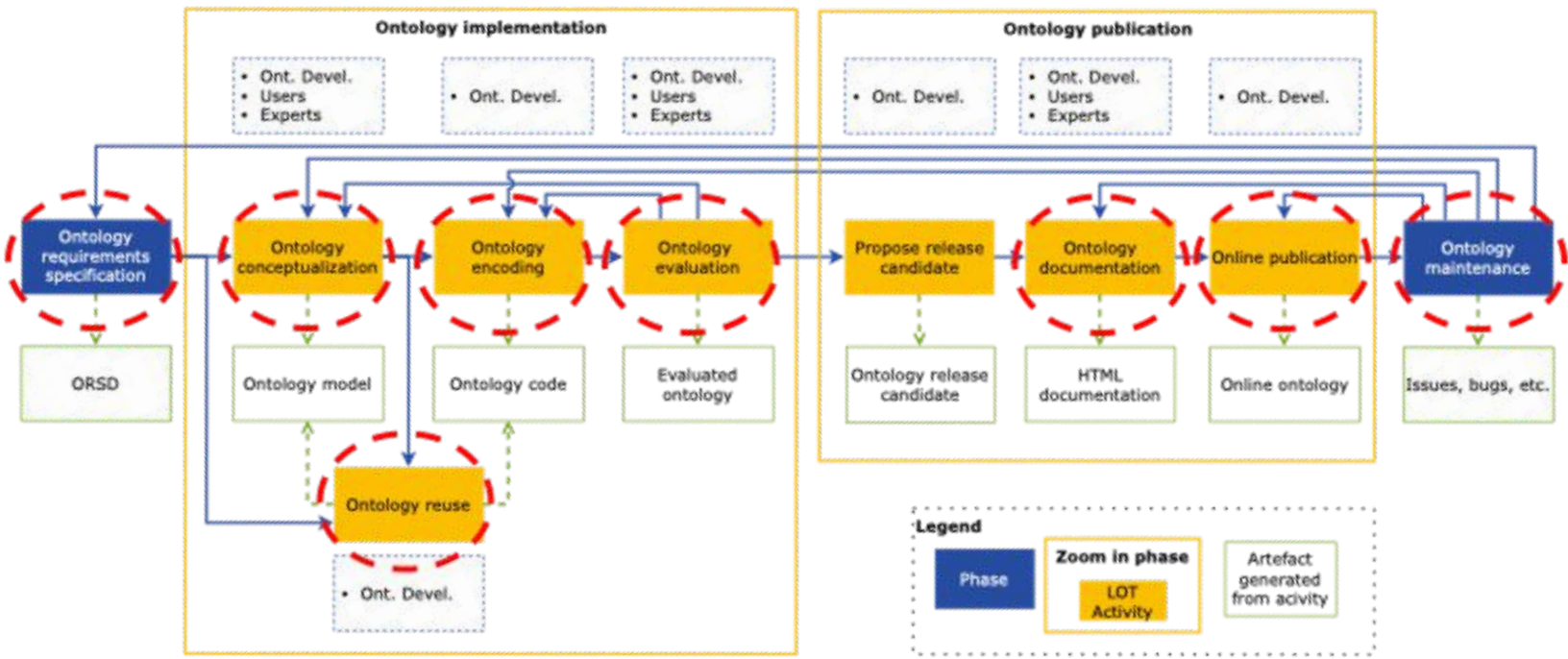
This work-package gathers, synthesises and disseminates the materials needed to **federate the approach to metadata and ontologies** at various organisational and technical levels within EOSC.



Semantic artefacts (SA) = a broader term to include ontologies, terminologies, taxonomies, thesauri, vocabularies, metadata schemas and standards – in EOSC.

Semantic Artefact “FAIR-by-design” methodology

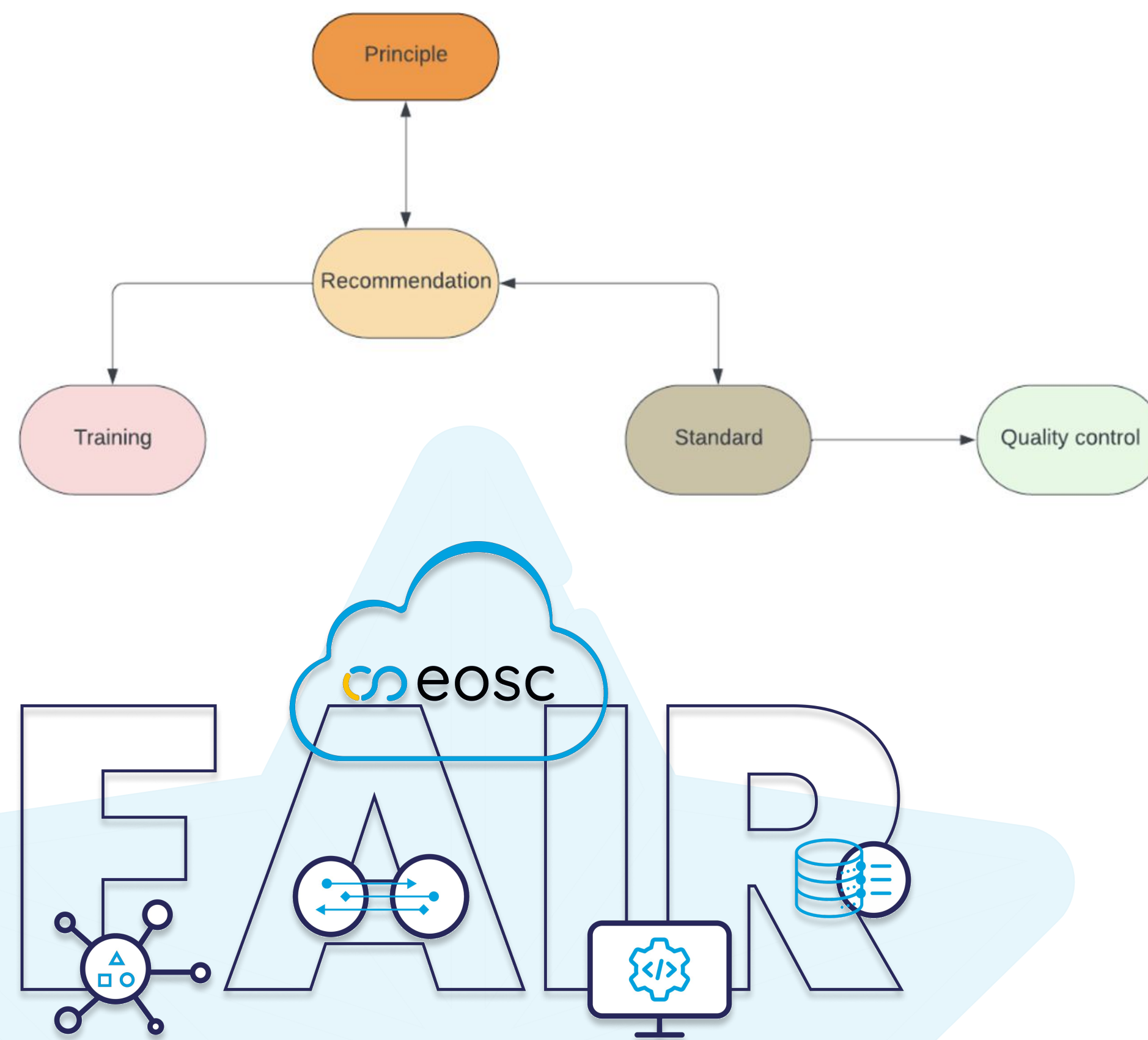
- Built on: **Linked Open Terms** methodology
- Implement: **FAIR guidelines** & develop an harmonised mechanism to describe SA with **Metadata Ontology Description**



FAIR Principle	Ontology Requirements Specification	Ontology Reuse	Ontology Conceptualiz.	Ontology Encoding	Ontology Evaluation	Ontology Document.	Ontology Publication	Ontology Maintenance
F1	X			X		X	X	X
F2	X	X		X		X	X	
F3				X		X	X	
F4							X	X
A1	X	X		X		X	X	X
A1.1	X						X	X
A1.2							X	X
A2				X			X	X
I1	X	X	X	X		X	X	
I2	X	X	X	X		X		
I3	X	X	X	X		X		X
R1	X	X	X	X	X	X	X	
R1.1	X	X	X	X	X	X	X	
R1.2	X	X	X	X	X	X	X	
R1.3	X	X	X	X	X	X	X	

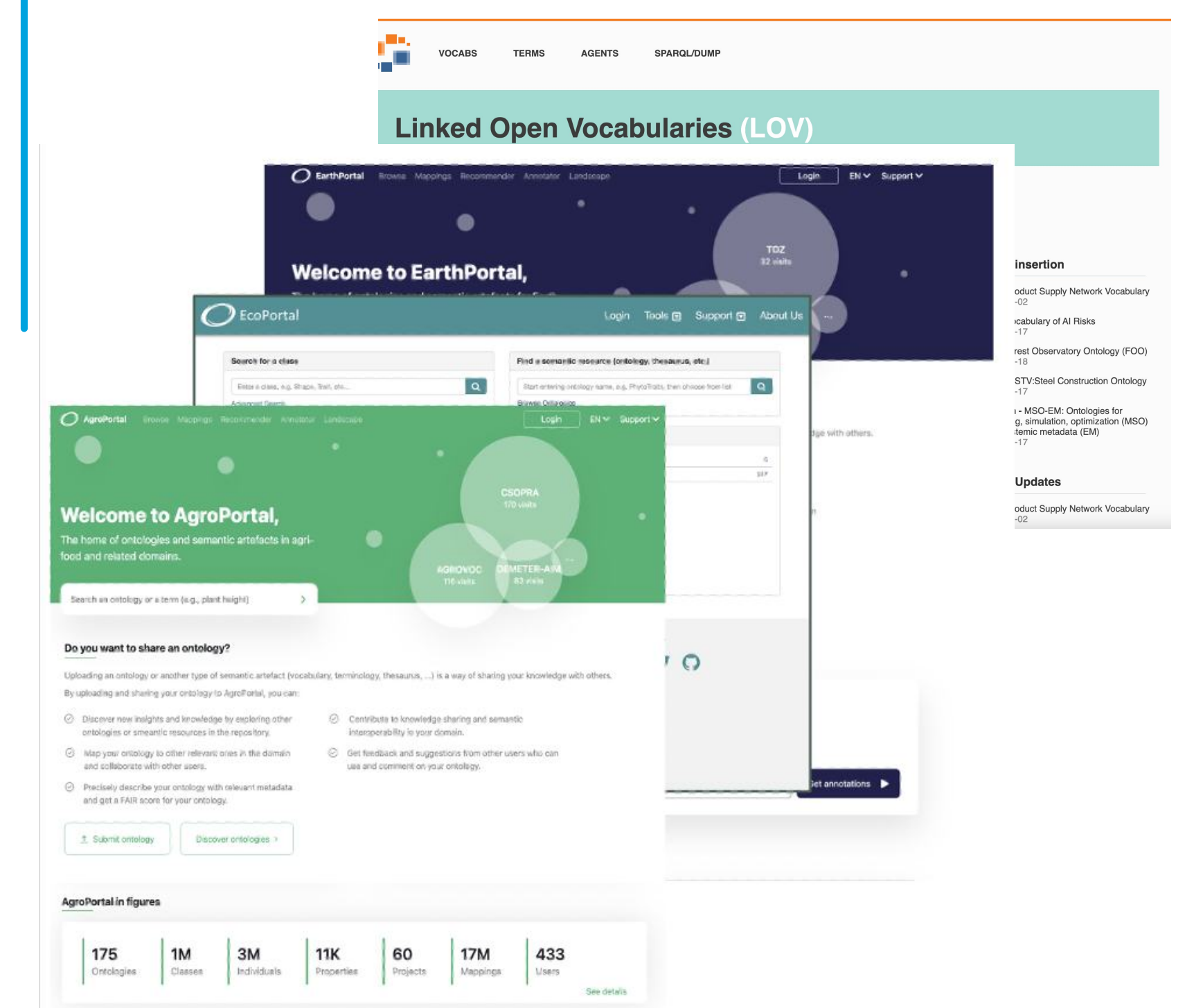
Semantic Artefact Governance

- Built on: **community workshop**
- Review and analyse: SA governance components
- Propose: **3 governance models**



Semantic Artefact Catalogues

- Built on: existing **tools & technologies** (e.g. AgroPortal, OntoPortal)
- Review and analyse: Semantic artefact catalogues & technology landscapes
- Develop: **FAIR-enabling criteria & support implementation** into new communities

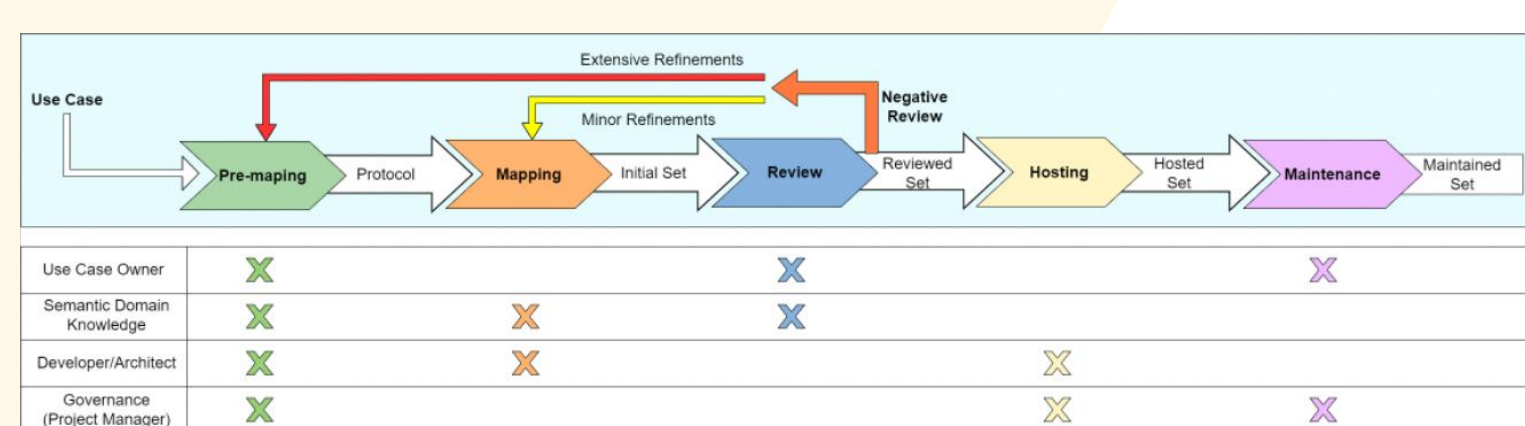


Our research objects

Do you know what we are developing for Semantic Artefacts in EOSC ?

Semantic Artefact Mappings

- Built on: **community survey & workshops**
- Review and analyse: Practices & needed
- Propose: **FAIR mappings specifications**



Metadata for Research Software

- Built on: multiples **use cases**
- Review: Software metadata landscape
- Propose: **Guidelines of metadata standard** for research software

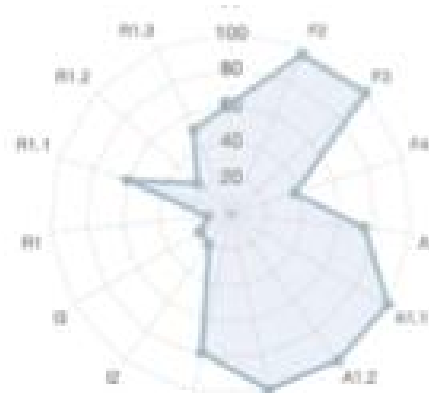
Semantic Artefacts in used within Data Repositories

- Built on: multiples **use cases**
- Foster: use of semantic artefacts into disciplines data repositories
- Develop: **Generic connectors** between data repositories & semantic artefact catalogues



FAIRness assesement

- Built on: **recognised** FAIR tools & methods
- Implement and foster: **FAIRness of semantic artefact** among multiples communities



Deliverables and milestones

- M4.1 - Semantic artefact governance models: example of community practices
- D4.1 - Semantic artefact governance models and disciplinary approaches for inclusion within EOSC
- M4.2 - Processes & tools to engineer FAIR semantic artefacts
- D4.3 - Specification of shared metadata description of semantic artefacts and their catalogues including common reference API
- M4.4 - Review of Semantic Artefact Catalogues and guidelines for serving FAIR semantic artefacts in EOSC
- D4.4 - Guidelines for recommended metadata standard for research software within EOSC

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