

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

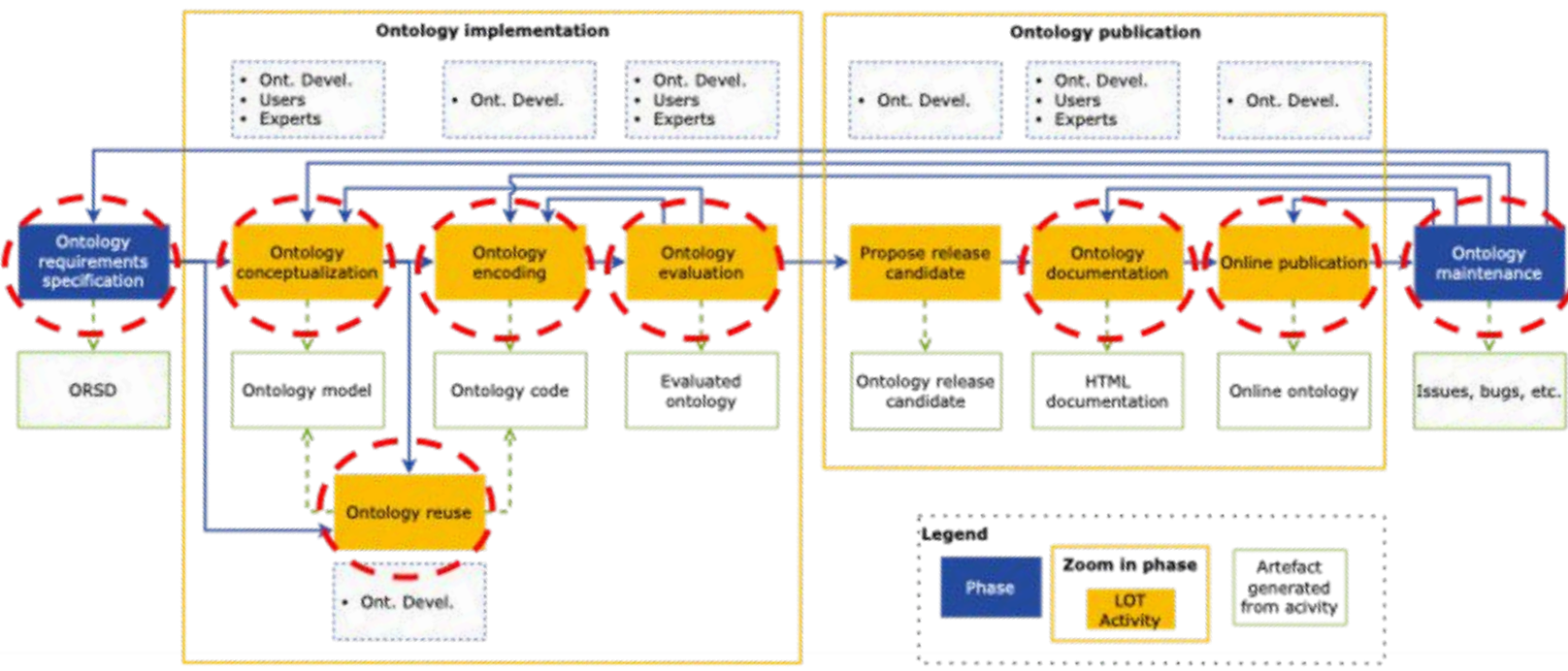
Metadata & Ontologies Outcomes & Use cases

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

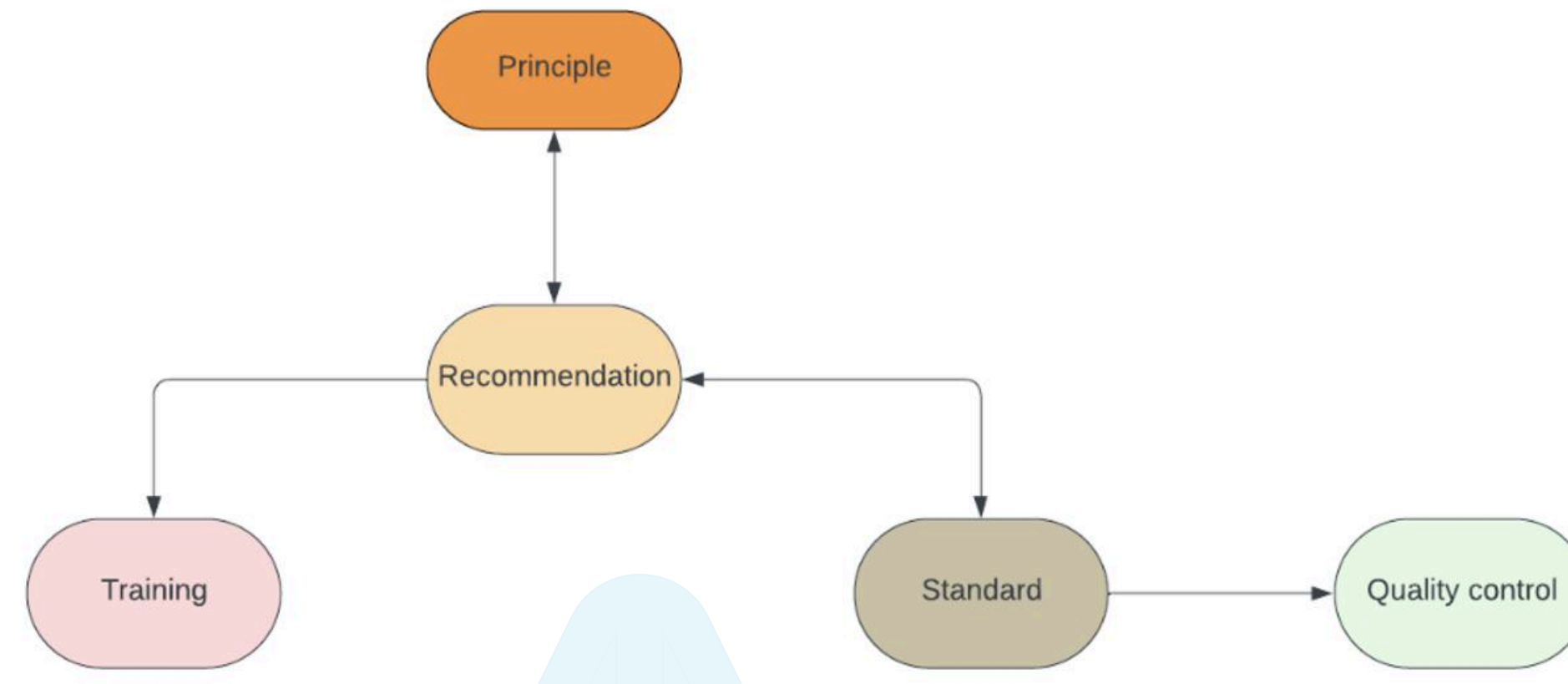
- **Built on:** **Linked Open Terms** methodology
- **Implement:** **FAIR guidelines** & develop an harmonised mechanism to describe SA with **Metadata Ontology Description**



| 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 | X |
| F2 | X | X | | X | | X | X | |
| F3 | | | X | | | X | X | |
| F4 | | | | | | X | X | X |
| A1 | 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 | X | |
| I3 | X | 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 | |

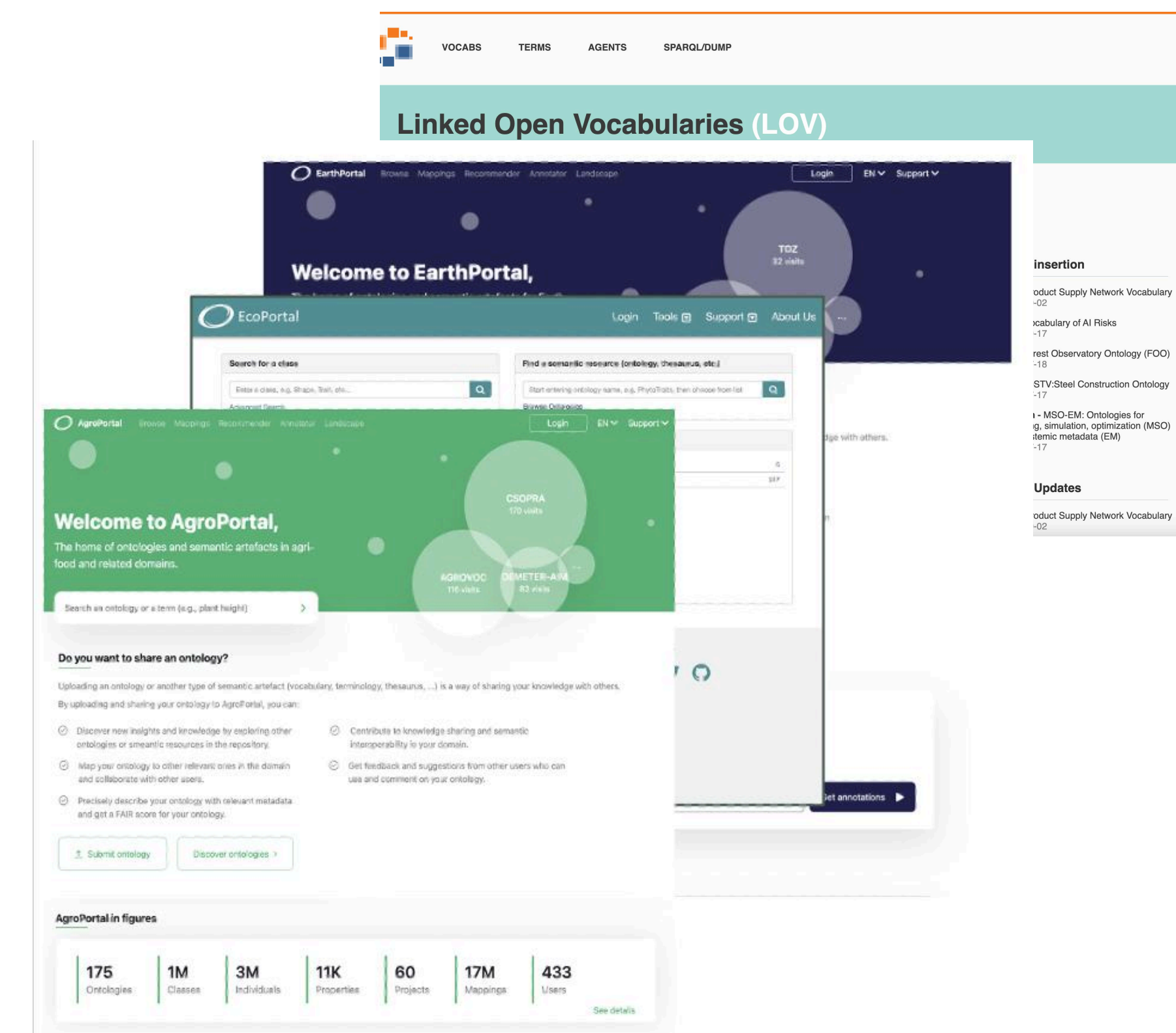
Semantic Artefact Governance

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

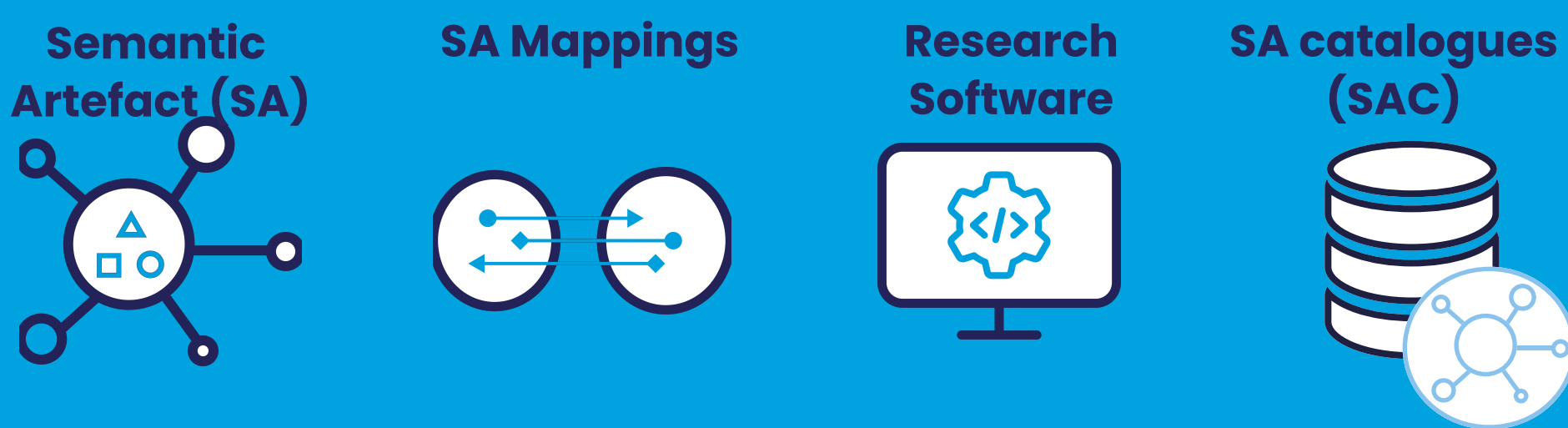


Semantic Artefact Catalogues

- **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



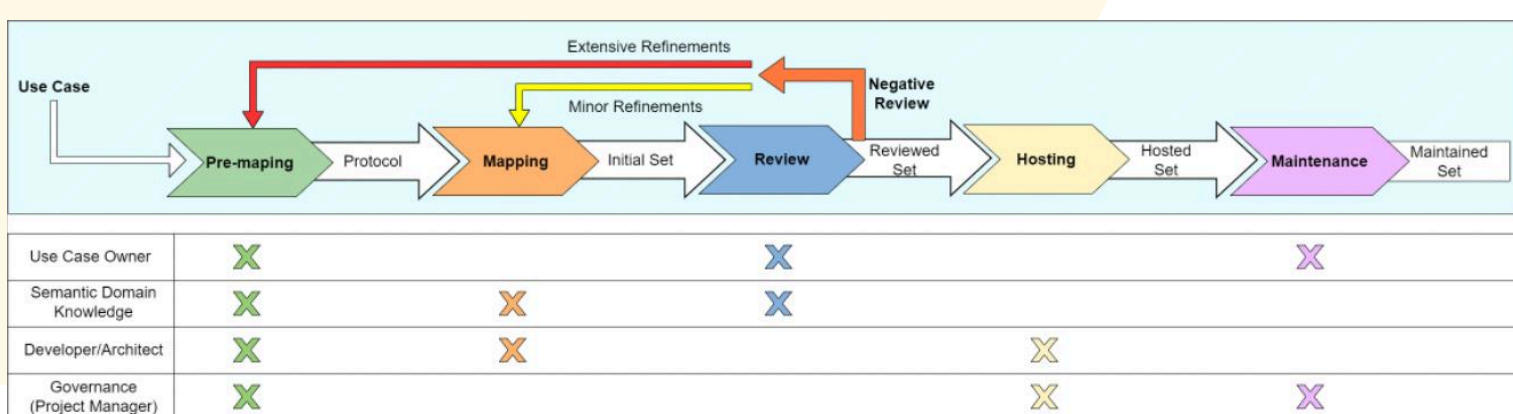
Our research objects



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**



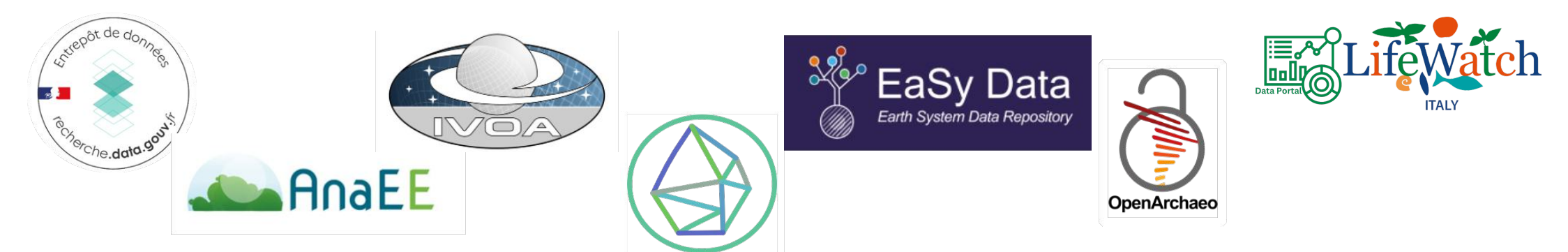
Metadata for Research Software

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

| | |
|---|--|
| Intrinsic metadata Refers to the information that is inherently embedded within a software source code artifact. It includes metadata files that are captured in the main source code directory (such as README file, codemeta.json file, etc.) | Extrinsic metadata Refers to the information that is external to the software source code artifact. It includes metadata elements that provide context, provenance, and additional information about the 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

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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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