



**EUROPEAN OPEN
SCIENCE CLOUD**

Implementing an inclusive European Open Science Cloud

EOSC SYMPOSIUM 2021

Contextualising OntoCommons.eu within a broader EOSC sustainability & semantic interoperability context through Industry Commons

Michela Magas - Chair, Industry Commons Foundation; Innovation & Sustainability Manager, OntoCommons

OntoCommons.eu

- ★ a H2020 **CSA**, November 2020 – October 2023
- ★ focuses on the **interoperability** aspect of the FAIRification process by developing a framework for semantic interoperability (OCES), leveraging the work from EOSC and a number of FAIR related projects
- ★ The OCES (OntoCommons EcoSystem) aims to harmonise ontology-driven data documentation to enable intra- and **cross-domain** interoperability
- ★ focuses specifically on the **Industry Commons**, therefore creating a unique bridge between industrial partners and EOSC.

Synergies between EOSC and OntoCommons

- ★ Existing EOSC infrastructures facilitate the standardisation and integration of data documentation and increase **data valorisation**.
- ★ The EOSC valorisation of data promotes compliance to FAIR principles and increases demand for **FAIRification**.
- ★ OntoCommons can support the EOSC governance structures by providing insights and recommendations on **metadata**, including metadata description for data discovery and exchange based on existing or emerging metadata schemas and tools.
- ★ OntoCommons can provide a set of agreed **ontologies**, from top level to application level, and a set of tools for data documentation that enable data sharing between NMBP domains.

EOSC and OntoCommons collaboration opportunities

- ★ The 11 OntoCommons demonstrators which focus on cross-domain industrial interoperability highlight the **industrial relevance** within the EOSC context
- ★ Industry feedback indicates that EOSC FAIRification can be used to **valorise industrial FAIR data**
- ★ Ontocommons roadmapping and standardisation can help populate the part dedicated to metadata & ontologies in the next version of the EOSC **SRIA**
- ★ **ESFI Science clusters** – EOSC-LIFE, SSHOC and ENVRI-FAIR – and the **RDA community** can participate in the OntoCommons workshops to showcase their work in semantic interoperability including FAIR data, ontologies and reference documentation.

Alignment and harmonisation between EU marketplaces

- ★ EOSC: standards for **FAIRification**
- ★ Industry Commons: standards for **interoperability** and data exchanges
- ★ GAIA-X: standards for **ICT** infrastructure and communications
- ★ EIC Marketplace: standards for **IPR registration** and tracking
- ★ bloXberg: **distributed ledger** for the registration of research IPR
- ★ EuroHPC: pan-European **supercomputing** infrastructure