ONTO COMMONS

ONTOLOGY-DRIVEN
DATA DOCUMENTATION
FOR INDUSTRY COMMONS

Landscape Analysis of Domain Ontologies

Identifying gaps, needs and requirements

Yann Le Franc, PhD / e-Science Data Factory

Objectives of the task

⬤— Understand the current landscape of ontologies in Material Science and Manufacturing

⬤— Analyze existing ontologies to understand diversity, coverage, overlap, maturity, existing gaps, common practices, …

⬤— Create a unique resource for domain experts to find and reuse existing semantic artefacts (ontologies, controlled vocabularies, …)

Collecting domain ontologies

Collecting information from domain experts using a dedicated survey

https://ontocommons.eu/node/146

Collecting domain ontologies

● Collecting information from domain experts using a dedicated survey

https://ontocommons.eu/node/146

● Use the results to publish an ontology catalog

Collecting domain ontologies

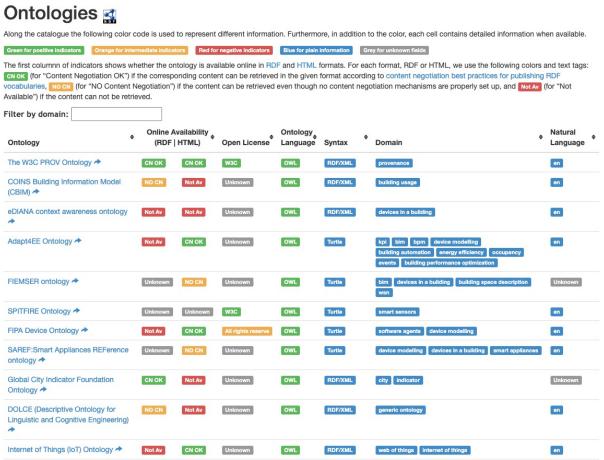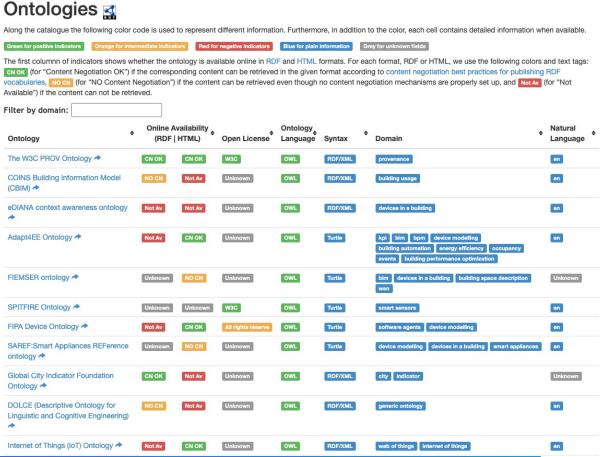ONTO COMMONS — ONTOLOGY-DRIVEN DATA DOCUMENTATION FOR INDUSTRY COMMONS

- Collecting information from domain experts using a dedicated survey

https://ontocommons.eu/node/146

- Use the results to publish an ontology catalog

Material Science and Manufacturing Ontology Catalog

Analysing the landscape

●— Alignment with FAIR principles: evaluate against the recommendations proposed by FAIRsFAIR on FAIR Semantics

Doi: 10.5281/zenodo.4314321

●—Domain criteria (coverage, overlap, semantic gaps, usage, …)

●—Ontology Engineering criteria (format, use of Top Level Ontologies,…)

How?

- Analysing survey results (internal and external respondants)

- Organising dedicated expert workshops

Thank you for your attention !

Questions?

FOLLOW US ON:

ylefranc@esciencefactory.com