ONTO COMMONS

ONTOLOGY-DRIVEN
DATA DOCUMENTATION
FOR INDUSTRY COMMONS

ONLINE WEBINAR

WHAT CAN ONTOLOGIES DO FOR STANDARDISATION?

OntoCommons.eu project in the standardisation ecosystem

30 September 2021
15:00 CEST

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OntoCommons Overview

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Nadja Adamovic, Senior Scientist at TU Wien & OntoCommons Project Coordinator

Main project features

ACRONYM

OntoCommons

HORIZON 2020 CALL

Call identifier: H2020-NMBP-TO-IND-2020-singlestage

Topic: Towards Standardised Documentation of Data through taxonomies and ontologies (DT-NMBP-39-2020)

TYPE OF ACTION

Coordination and Support Action

GRANT AGREEMENT Nr. 958371

Project key features

Project duration: 36 months

Project Start: 11/2020

Estimated project Cost: € 4,198,561.25

Main project features

CONSORTIUM

- 19 Partners from 10 EU countries

- 15 RTDs and 4 companies

OntoCommons Overview

- **Overarching Goal**

  overcoming interoperatibility bottlenecks & facilitating data sharing and valorisation

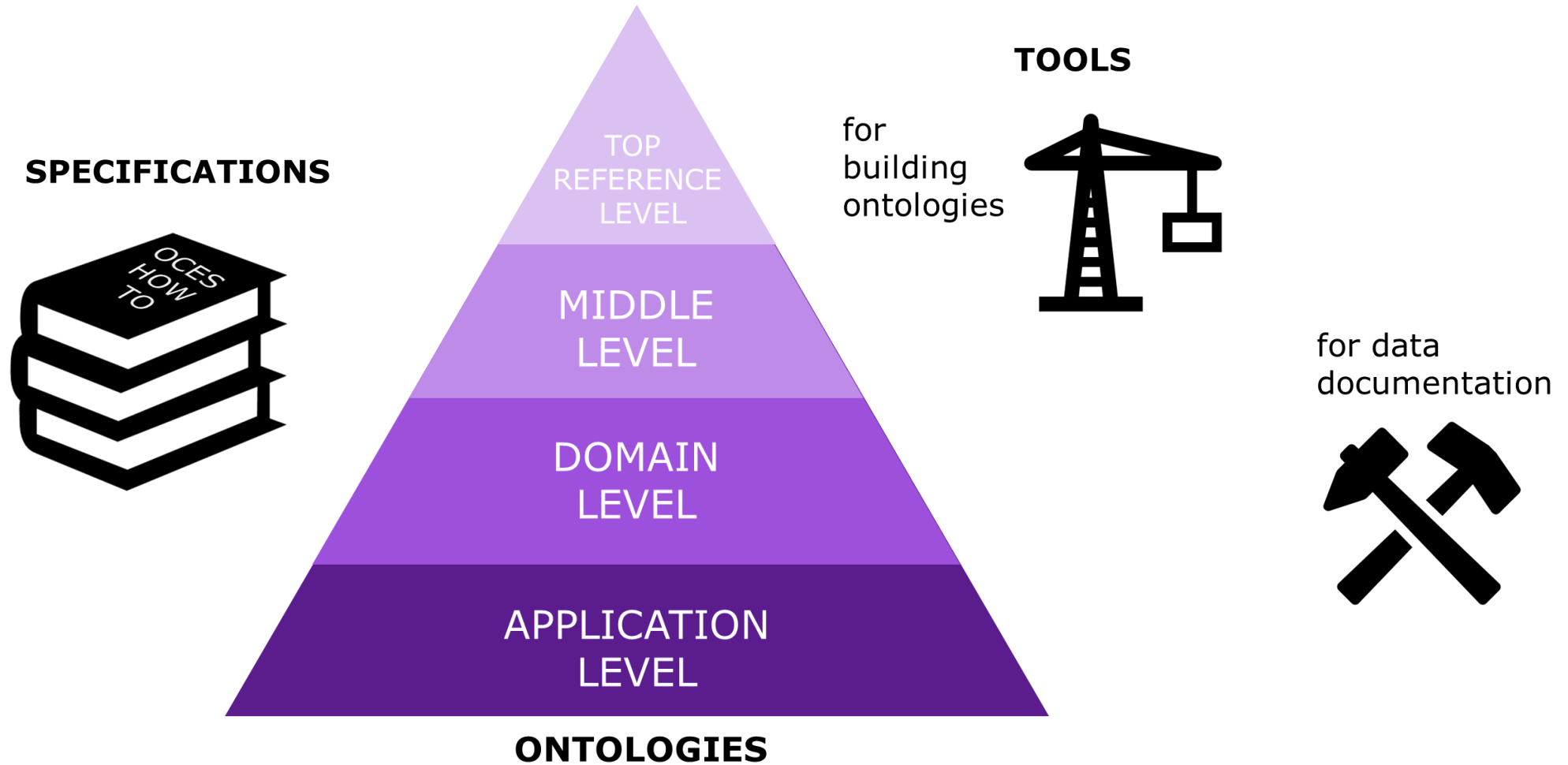- **Coordination and Support Action** -CSA

  bringing together and coordinating activities of the most relevant EU and international stakeholders

- **Development of an Ontology Commons EcoSystem** -OCES

  as a foundation for data documentation

Ontology Commons EcoSystem (OCES)

SPECIFICATIONS

OCES HOW TO

TOP REFERENCE LEVEL

MIDDLE LEVEL

DOMAIN LEVEL

APPLICATION LEVEL

ONTOLOGIES

TOOLS

for building ontologies

for data documentation

ONTO COMMONS TOOLS & SOLUTIONS

OntoCommons Ontology EcoSystem (OCES)

- A hierarchy of ontologies
- Toolkits
- Specifications
- OntoCommons Top Reference Ontology (TRO)
- Top Level Ontology (TLO)
- Domain Level Ontology (DLO)
- Application Level Ontology (ALO)
- Blueprinting reference implementation Toolkit
- OntoCommons Ontology Repository
- Ontology ecosystem knowledge graph

ONTOCOMMONS ROADMAP

METHODOLOGICAL FRAMEWORK & ECOSYSTEM

- Methodological framework for ontology development and documentation
- Ontology ecosystem structure and reference implementation

REPORTS

- Data Management Plan
- Communities interested in domain-specific semantics
- Domains ontology requirements and specifications
- Feedback loops of cross domain ontologies interoperability
- The finalized Review of Domain Interoperability (RoDI)
- Dissemination, communication & stakeholder's engagement strategy & plan
- Exploitation & Sustainability
- Landscape of ontology development methodologies and platforms
- OntoCommons Standardisation Impact Report

EVENTS

- **2** DOMAIN ONTOLOGIES
- **2** HORIZONTAL WORKSHOPS
- **8** FOCUSED WORKSHOPS
- **2** EXPERT GROUP MEETINGS
- **3** EXTERNAL ADVISORY BOARD
- **6** SUPPORT WEBINARS

COMMUNITY

AN AUTHORITATIVE & ACTIVE EXTERNAL ADVISORY BOARD (EAB)

2,000 ENGAGED COMMUNITY MEMBERS FROM ALL STAKEHOLDER GROUPS & GLOBAL COVERAGE

PRESENCE AT **>30** 3RD PARTY EVENTS

DEMONSTRATORS

Use of Ontologies

- Airbus, Materials
- Bosch, Manufacturing of Microchips
- Aibel, Material, automated reasoning
- Teckniker, material, search and decision
- BASF, Material
- OAS, PSS on logistic and manufacturing, decision making
- IFAM, Material, quality management
- Manufacturing or chemical industry
- Holonix, Product life cycle management, manufacturing
- IRES, Nanosafety, manufacturing, decision making
- Adige SpA, Manufacturing, remote maintenance process

ONTOLOGY-DRIVEN
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Thank you very much for your attention!

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Nadja Adamovic, Senior Scientist at TU Wien & OntoCommons Project Coordinator

Thank you

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