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OntoTrans

Ontology driven Open Translation Environment

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Coordinator

Nadja Adamovic, TU Wien (AT) nadja.adamovic@tuwien.ac.at

Technical Manager

Gerhard Goldbeck, GCL (UK) gerhard@goldbeck-consulting.com

> Project acronym OntoTrans

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OntoTrans Event Highlights

OntoTrans M42 Consortium Meeting

The OntoTrans Consortium met onsite for the M42 Consortium Meeting on 6. September 2023 in Bremen, Germany. As the project is advancing towards its final phase, the project partners presented the recent milestones and especially elaborated on the future steps to ensure a successful project wrap up. This valuable opportunity to meet in person strengthened the team spirit noticeably. Fruitful discussions and the exchange of ideas further motivated actions to be completed in collaboration.



OntoTrans Second Open Workshop

On 7. September 2023, the OntoTrans Second Open Workshop took place in sunny Bremen, Germany. Under the theme "Making Connections" to improve the Efficiency and Effectiveness of Innovation in Materials and Manufacturing, the event was organized by OntoTrans partner Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM). The venue, ATLANTIC Hotel Universum, was right next to the popular Science Center - Universum Bremen.

The workshop gathered around 50 participants from research institutes, SMEs and large industries. Industrial partners and their innovation challenges's translators presented and revealed how managers, developers, modellers and their customers profit from involving experts for translation in materials modelling. The benefit from the OntoTrans-OTE and its components to support the translation processes, workflow-executions, data analytics and visualisation of results was further highlighted. The workshop was structured around four sessions:

- Translation of innovation challenges semantic representation and exploration
- Open Translation Environment (OTE) technology stack
- OntoTrans application case: what are the benefits?
- OntoTrans: the perspective and use by further applications







OntoTrans @ OIP-2023 Conference

The OntoTrans project was represented at the Open Innovation For People and their Future Conference (OIP-2023) at the Luxembourg Institute of Science and Technology. Openness was the keyword of this conference, where researchers, industry professionals, policymakers and innovators from Europe and beyond came together to share insights and experiences during the two-day event.

On Friday, October 20, a delegation from OntoTrans gave a training session titled "Storing, describing, and retrieving scientific data in an Open Translation Environment". Six project partners presented during this workshop led by Otello Roscioni (Goldbeck Consulting), Alessandro Calvio (UNIBO) and Fajar Ekaputra (TU Wien). The training session was delivered using a virtual operating system configured with the main components of OntoTrans' OTE and was followed step-by-step by the attendees. This interactive exercise was characterised by numerous questions and feedback from the audience, hinting at shortcomings and indicating possible improvements.

More information can be retrieved from the OIP-2023 official website. Training Event: https://oip-2023.eu/home-2/ontotrans-training/ Download the Virtual Box image to access the training material.

OntoTrans @ OntoCommons Workshop "Formal Ontologies, Applied Sciences and Data"

Suppose you are a research scientist and you want to document the data you produce, either from computer simulations or experiments. Where do you begin with? Our partner Otello Roscioni (Goldbeck Consulting) presented an end-user scenario where the Elementary Multiperspective Materials Ontology (EMMO) is used to semantically describe prototypical datasets. "A practical introduction to EMMO" was presented during the OntoCommons workshop held in Bologna on 2-4 October 2023 in front of an audience of 15 experts from different disciplines, to connect formal ontologies and applied sciences.

More information can be found on the OntoCommons Workshop website.

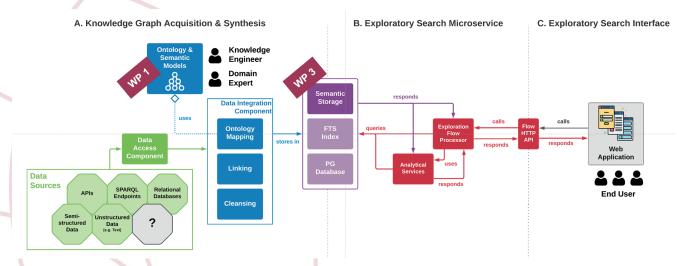




The OntoTrans Exploratory Search System (ESS)

An exploratory search system for innovation cases

Exploratory search systems allow information-seeking users to interact with ontologies and knowledge graphs. The ESS developed within the OntoTrans project integrates data across use cases and experiments and helps translators lacking experience with ontologies find relevant data. Comparable to a maze of knowledge, the ESS not only offers results to the searched keywords, but also further links them to related information.



Check out the ESS Documentation to learn more! http://essdoc.semantics.id/

The ESS was only one of many intriguing presentations during the Second Open Workshop. For the agenda, recordings and presentations, visit the website below: https://ontotrans.eu/ontotrans-2nd-open-workshop/





The Importance of Ontologies in Digitalisation

Amit Bhave (CMCL)on the importance of data sharing for climate resilience

In the guest blog published by Digital Twin Hub, Amit Bhave, CEO and Co-Founder of CMCL, highlights the interconnectivity between critical infrastructure networks and the role ontologies play in data sharing.

Water, energy, transport and telecommunications are interdependent sectors. Climate hazards such as flooding affecting one of these sectors also bear risks for the others. The lack of interoperability and data silos pose technical challenges to data sharing. Therefore, a robust mechanism sharing information between critical infrastructure networks benefits climate adaptation and resilience. Ontologies representing the assets from infrastructure networks, their connectivity and properties, and climate data enable the compatibility of data and consequently, a connected understanding. Find out more and read the full article here.

