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### Project acronym

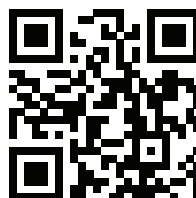
OntoTrans

### EC-Grant agreement

862136

### Start / End

01.04.2020 - 31.03.2024



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### Acknowledgment

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Ontology driven  
Open Translation  
Environment



Visit us on [ontotrans.eu](http://ontotrans.eu)

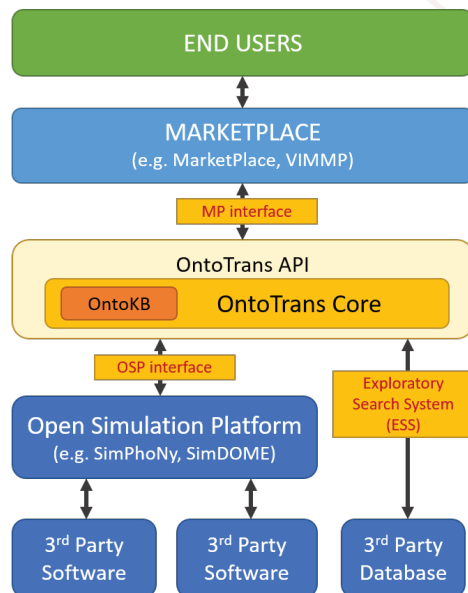


H2020-NMBP-TO-IND-2019

The **OntoTrans** project responds to the need of industry to respond to manufacturing challenges more efficiently by accessing the relevant information and utilising materials modelling more effectively.

**OntoTrans** provides a general-purpose ontology-based **Open Translation Environment (OTE)** able to support the development of dedicated **Apps** delivering a smart guidance for materials producers and product manufacturers (including associated Translators) through the whole steps of the **translation process**.

The **OntoTrans** project includes 11 partners and is coordinated by TU Wien (AT).



OntoTrans structure

## Project objectives

### OTE core components

whose development is aimed to deliver a semantic **translation scheme** that provides guidance from the user case to a suitable materials modelling workflow through **dedicated formal ontologies** and an **Artificial Intelligence (AI)** approach.

### OTE key components

whose development is aimed to provide means of interactions between the OTE core components, the users and other existing tools.

### OTE testing

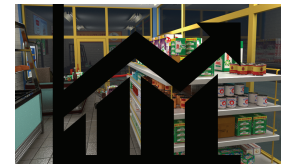
which will be achieved by testing of the OTE APPS within industrial environments in **four application cases** (the manufacturing challenges), involving end-user **internal** and **external translators** and covering all types of physics-based models as well as data-based models to demonstrate the expected impact in terms of barriers removal, increased development speed, and reduction of development costs.

## Application cases

**OntoTrans** is developed and tested alongside four industrial challenges covering different types of materials and industries, targeting increased competitiveness by means of a semantic data-driven and agile approach.



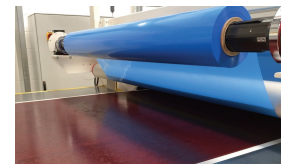
### Post-launch analysis of pouch detergent



### Detergent pouch systems



### Composite preregs



### Steel Section Mill

