

# Conference Documentation

Date: 25<sup>th</sup> of September 2020

Location: Berlin, Germany

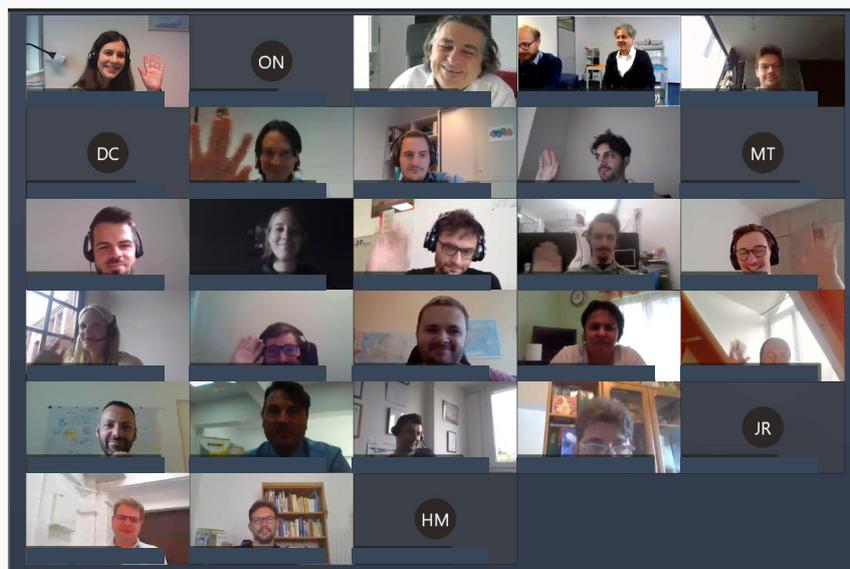
# Welcome!

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Following the series of OMILAB Days during the NEMO Summer School, the OMILAB Day 2020 provides participants with insights on results achieved and planned development within the context of the OMILAB network. Innovative results in the frame of research initiatives and projects are presented and discussed.

The OMILAB Day is considered a forum of exchange between nodes, interested stakeholders, developers and users. Ideas on modelling approaches and how they support novel business models are discussed, as well as providing means for evaluation and assessment, and enabling creativity.



OMiLAB Day 2020

Visit: <https://www.omilab.org/>

# The Academic OMILAB in Korea: A Welcome Message



Prof. Dr. Moonkun Lee  
JeonBuk National University  
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The OMiLAB Korea has been established in November 2015 at the JeonBuk National University, with the aim to initiate the Open Model Community in Korea, as well as, to expand this community to East and South Asia.

In a short video created specilly for the OMiLAB Day 2020, Prof. Lee presents the lab's research and development focus, as well as the activities conducted. The lab's main focus is on formal methods and IoT, with core competence on formal specification and verification. Among the tools developed by OMiLAB Korea are: SAVE, PRISM and SREE, all available as open source.

Prof. Lee has been a speaker at the NEMO Summer School Series since the second edition and joins the event each year in Vienna together with students from JeonBuk National University.

OMILABKOREA Home BBS OKRC Intro Activity Publication R&D Education



Visit: <http://omilab-korea.org/>

## The Industrial OMILAB Innovation Corner in Vienna: Modelling of Intelligent Behaviour



Dr. Robert Woitsch  
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The digital transformation is a global megatrend that is triggered by the evolution of digital technology, which has the potential for every organisation to either optimize their current business via a digital innovation or by transforming the business via digital disruption. The challenge for every organisation is therefore to select and personalise the appropriate digital innovation.

There are a plethora of methods and assessment frameworks, here we introduce the OMiLAB Innovation Corner that assists in (1) creating a new business, (2) design the organisational model, and (3) engineer proof-of-concept prototypes as a “communication media”.

The unique value proposition of OMiLAB Innovation Corner is the model-based foundation that supports decision-makers in key phases of the innovation. First, the creation of new business models by providing digital design thinking tools is assisted. Second, the design of the digital organisation by providing extended modelling capabilities is supported. Third, proof-of-concept engineering providing robots and sensors are enabled.

We share our practical experiences by introducing (a) how new business models are created in the H2020 project Change2Twin to help to manufacture SMEs in their digital transformation, (b) how conceptual models are designed in the H2020 project BIMERR to create digital twins of renovation processes and (c) how proof-of-concept engineering is performed in the FFG project complAI to analyse different robotic behaviour.

Visit: <https://www.adoxx.org/live/development-spaces>



# Innovation through Digitalisation, Intelligent Enterprise



Prof. Dr. Dimitris Karagiannis  
University of Vienna  
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The fast-paced evolution of technologies and the availability of efficient hardware and software components have been driving the digitalisation of physical objects in recent years. Enterprises need to reflect strategically on these changing circumstances to stay competitive and transparently develop and adapt their roadmap for digital transformation to support innovation processes.

This observation motivates this talk, introducing the Open Models Laboratory (OMiLAB – [www.omilab.org](http://www.omilab.org)) as an open digital ecosystem designed to support the design of novel business ideas, the decomposition into conceptual models enabling model-value functionality and feasibility assessments as experiments for assessment.



OMiLAB Node @University of Vienna, Austria

Visit: <https://austria.omilab.org/>

## OMILAB NPO Status and Progress

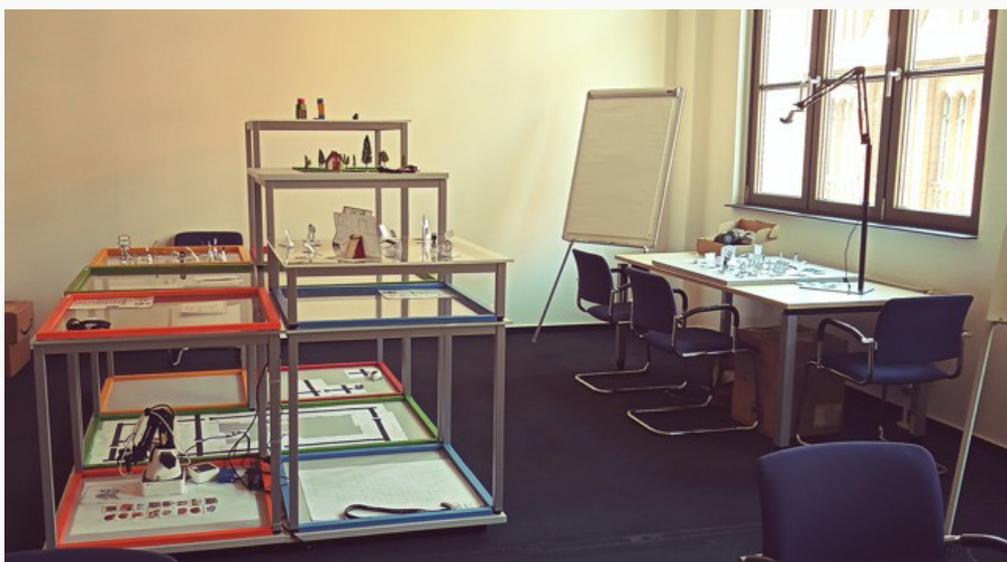
Prof. Dr. Knut Hinkelmann  
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Prof. Dr. Hinkelmann has just joined the OMiLAB NPO Team, as Managing Director. His history with OMiLAB started already in 2008, conducting the first feasibility study together with Prof. Dr. Karagiannis. He has been teaching in the NEMO Summer School Series since 2015.

His research interests are: Digitalization of Business Processes and Knowledge Work, Knowledge Representation and Reasoning, Semantic Metamodeling

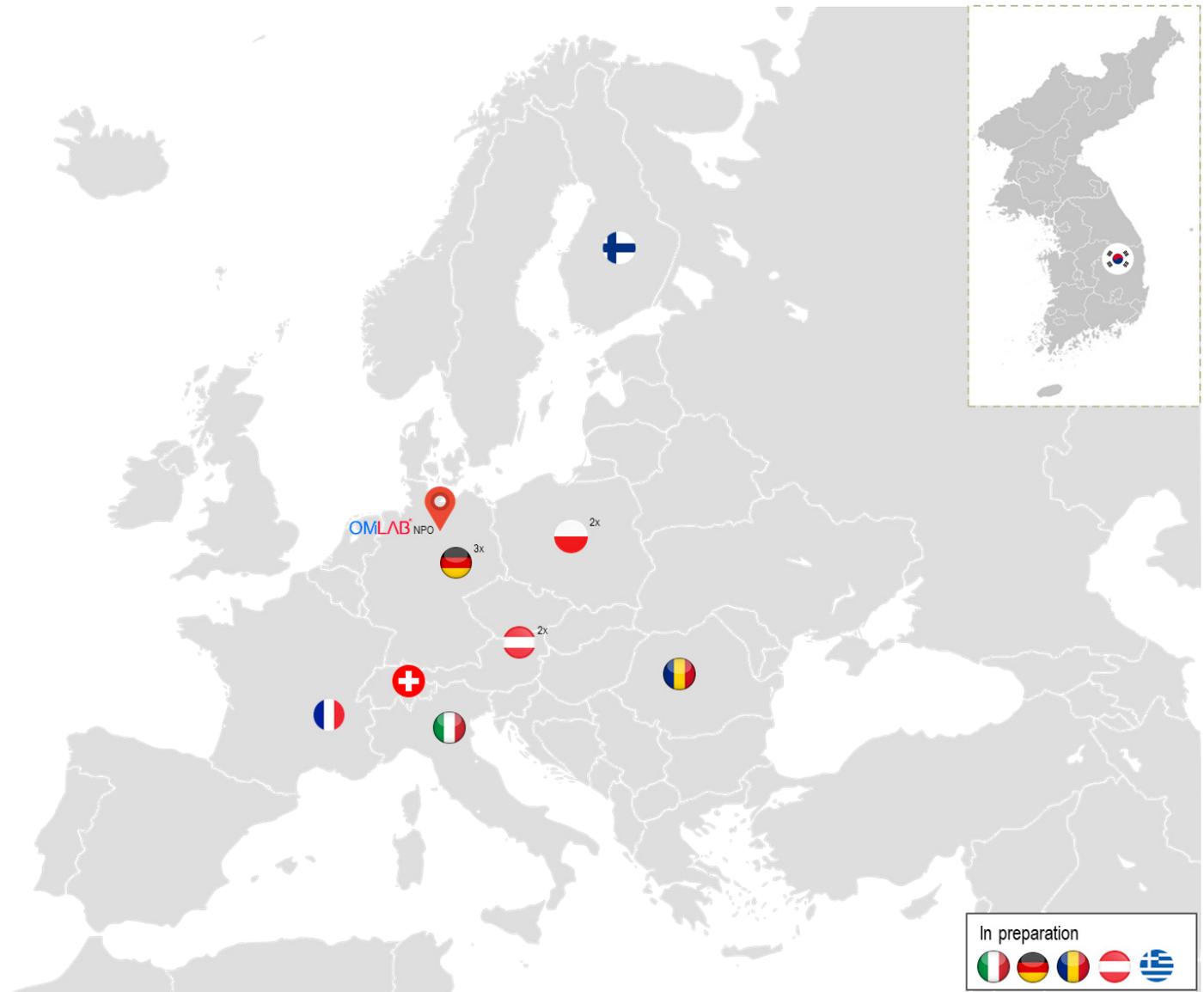
Among the ongoing activities of the OMiLAB, a new event is announced, namely MODELathon 2021. Stay tuned!



OMiLAB Node @Berlin, Germany

Visit: <https://www.omilab.org/activities/>

## OMiLAB Nodes



Current status (as of September 2020):

13 OMiLAB Nodes

9 countries

2 continents

AT: Vienna (x2)

CH: Olten

DE: Berlin, Kaufering, Rostock

FI: Oulu

FR: St. Etienne

IT: Bergamo

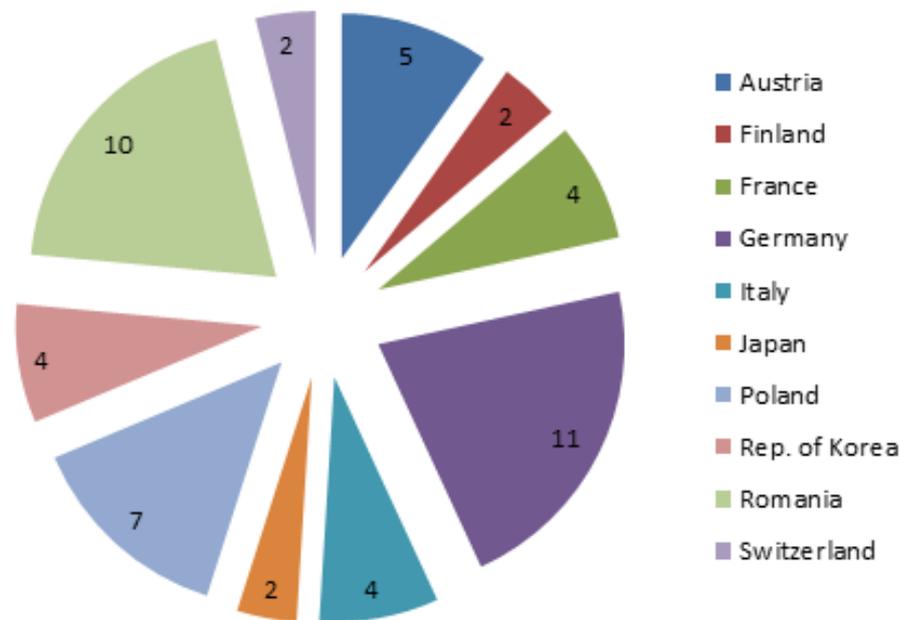
KR: Jeonbuk

PL: Bialystok, Warsaw

RO: Sibiu

## OMiLAB Day 2020 Participants statistic

Country distribution:



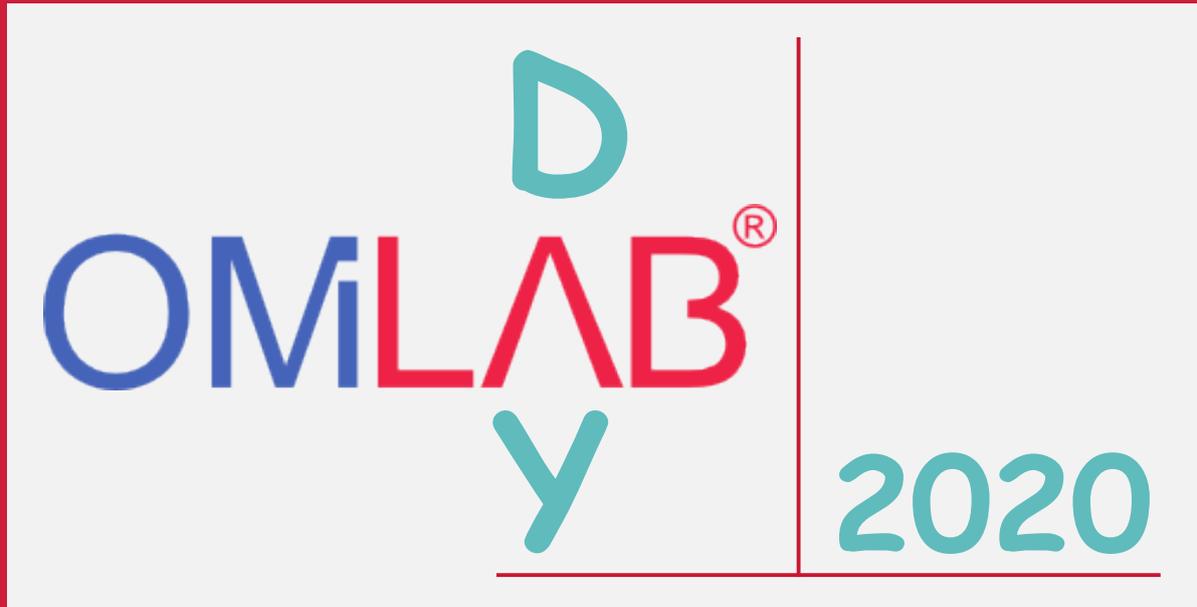
Total: 51 participants

From 13 different organizations:



### Stay in touch

- ➡ JOIN OUR NEWSLETTER: Send us an e-mail to [info@omilab.org](mailto:info@omilab.org) to receive the latest news regarding research, innovation and events from the OMiLAB Team!
- ➡ NEMO 2021 Summer School: July 19<sup>th</sup> - 30<sup>th</sup> at University of Vienna
- ➡ OMiLAB Day 2021: July 23<sup>rd</sup> at the Vienna Node



Thank you!

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