

SID 2024

Sibiu Innovation Days

24-25 October, Sibiu - RO



PANEL 4: Innovative Partnerships

Skills and capabilities for 5.0 Organizations

Iulia Vaidian and Dr. Wilfrid Utz

OMiLAB NPO

Sibiu, 25th of October 2024

SID 2024 - PANEL 4 - OMiLAB NPO

CoDEMO 5.0: Co-Creative Decision Makers for 5.0 Organizations

OMiLAB Community of Practice:
Innovative Partnerships

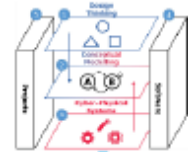


Research Projects
(EU-funded, international, bilateral)

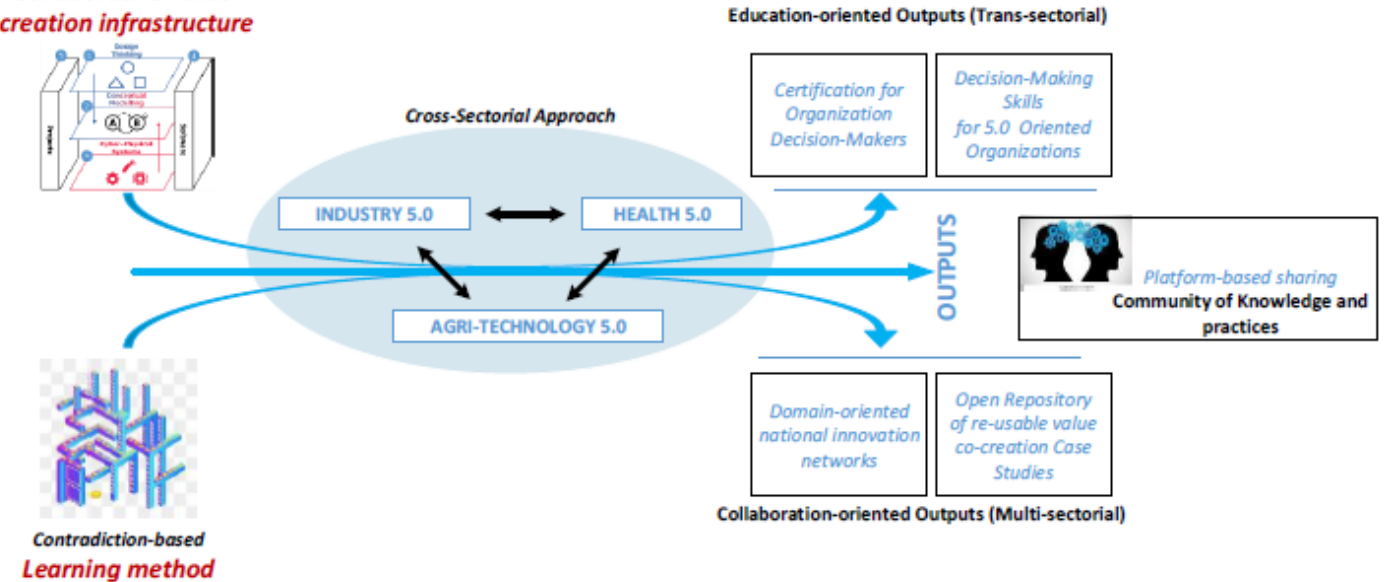
THE EU PROJECT:



Implementation of a
Collaborative value-creation infrastructure



Organisation Decision-Makers at the heart of 5.0 innovation



START 09/2023

13 Partners

6 Countries



<https://codemo-project.eu/>

VCC Labs Network: Development of Knowledge, Skills, and Competencies

-  Digital Innovation Environment powered by OMiLAB
-  Development of 5.0 resources
-  Facilitation of multi-stakeholder collaboration
-  Innovative Booster Activities
-  Learning and Educational Activities
-  Certification (multi-stage badge)

We are global ...
<https://www.omilab.org/nodes>

6 OMiLAB Nodes/VCC Labs
3 Associated OMiLAB Nodes
7 Partners
8 Countries
2 Continents

DEMOCOM VCC Labs & Partners Overview



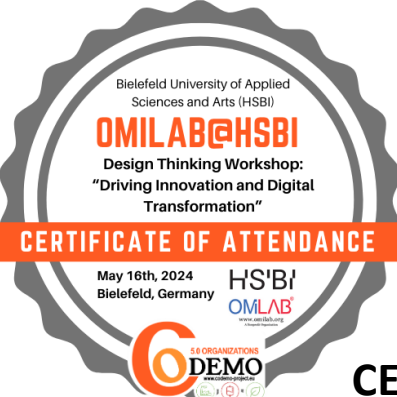
Partners and Nodes:

- Arkadiusz Jurczuk** (tp OMiLAB) - Service and manufacturing operations management (INDUSTRY)
- Michał Kosowski** (DECOM OMiLAB) - Industrial Digital Innovation Environment (Associated CoDEMO partner)
- evoluma** - Industry cluster
- open recognition ALLIANCE** - OMiLAB
- Thomas Süße** (HS'BI OMiLAB) - 5.0 Organizational Development and Innovation Management (HEALTH)
- FEDRCOVR** - FEDERACIÓN EMPRESARIAL DE AGRICULTORES DE LA COMUNIDAD VALENCIANA
- Angel Ortiz Bas** (OMiLAB Node FOCUS) - OMiLAB
- Xavier Boucher** (CAMPUS DES TALENTS AESIO SANTE) - Industrial Business Model Transformation (INDUSTRY)
- Giuditta Pezzotta** and **Fabiana Pirola** (OMiLAB) - Service and manufacturing operations management (HEALTH)
- Bergamo Sviluppo** - Azienda Speciale della Camera di Commercio
- Adrian Florea** (UNIVERSITATEA TICUȘAN BLAGUȘ DIN SIBIU OMiLAB) - Expertise in Embedded Systems, Smart City domain and Manufacturing Systems and Processes (AGRI-TECHNOLOGY)
- MARQUARDT** - OMiLAB
- Moonsun Lee** (OMiLAB KOREA OMiLAB) - Towards Formal Methods of IoT Application (Associated CoDEMO partner)
- Dimitris Karagiannis** (UNIVERSITÄT WIEN OMiLAB) - Knowledge-based methods and technologies for digitalization (Associated CoDEMO partner)

QR Code: 

OMiLAB
www.omilab.org
A Nonprofit Organization

CoDEMO 5.0: In Action



CERTIFICATION
Intermediate. Practitioner. Expert.

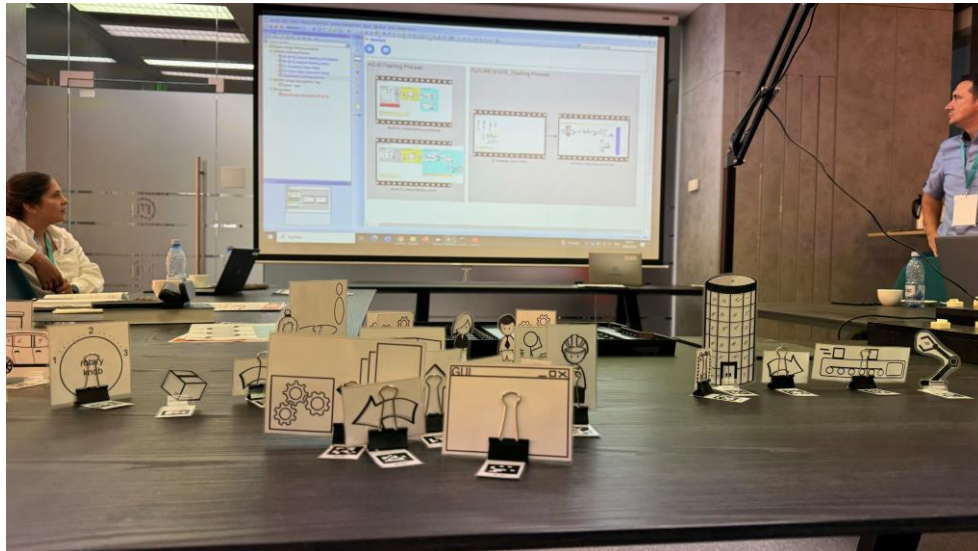


Industry – Academia Workshops
SOFTWARE FLASHING PROCESS /
IMAGE RECOGNITION FOR SYSTEM TEST
From AS IS to FUTURE STATE



BOOSTER ACTIVITIES
Bielefeld, Germany

1st INNOVATION DAY EVENT
Bergamo, Italy



5.0 Organization: What do we expect?

5.0 ORGANIZATION IS AN ORGANIZATION THAT FOCUSES ON THE USE OF *HUMAN SKILLS* COMBINED WITH THE *TECHNOLOGICAL POTENTIAL* OF ROBOTS AND INTELLIGENT SYSTEMS, ENCOMPASSING *RESILIENT, GREEN* AND *HUMAN-CENTRIC* APPROACHES.





Co-funded by
the European Union

Created with

How do we
foster skills and
capabilities for 5.0?

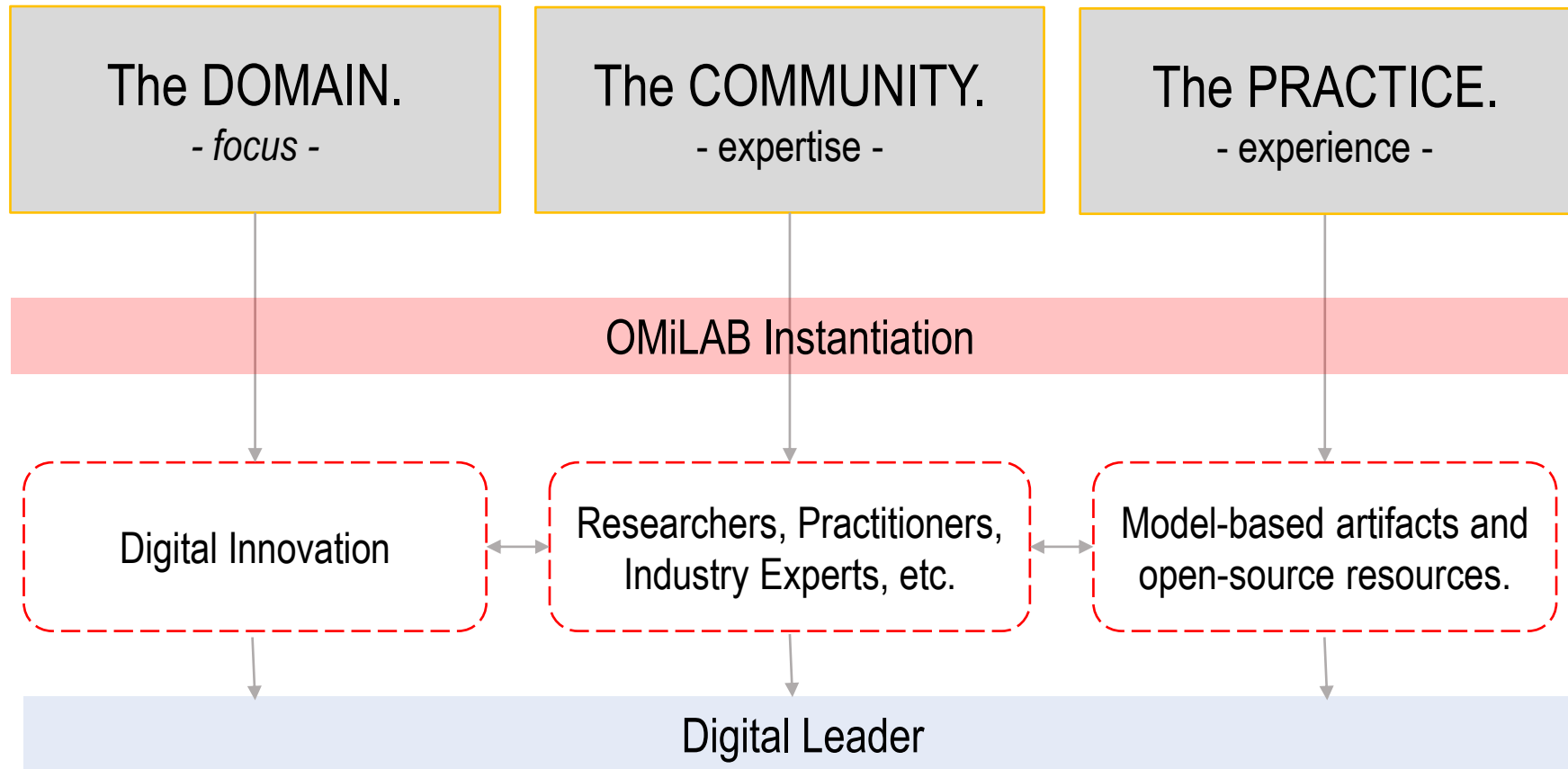
OMiLAB Community of Practice:
Innovative Partnerships



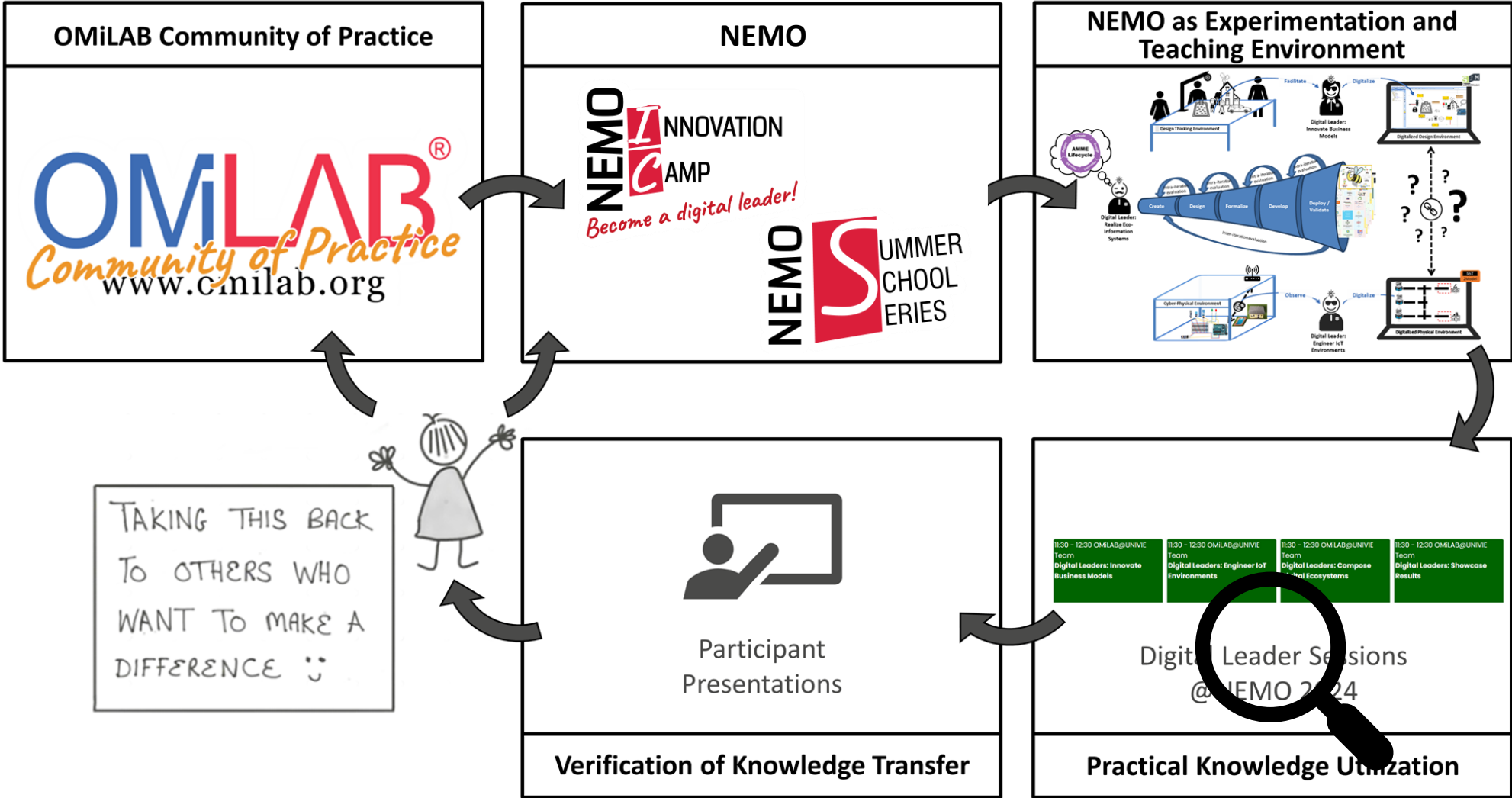
COMMUNITY OF PRACTICE: CHARACTERISTICS

RECAP

Three characteristics are essential in classifying a community as a community of practice:



Knowledge Transfer within the OMiLAB Community of Practice: An Ongoing Learning Loop

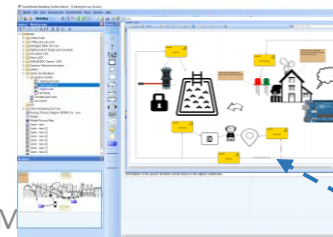
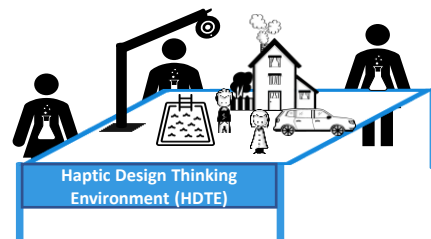
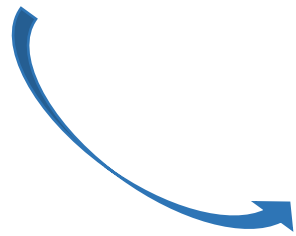


FOCUS: SKILLS FOR INNOVATING BUSINESS MODELS

- **Disruptive Innovation Vision (Mindset)**
 - daring to replace existing concepts completely
- **Collaboration Enabler**
 - fostering co-creation in multi-disciplinary teams
- **User-centric Perspective**
 - focusing on customer-driven product and service design
- **Technology Understanding**
 - being aware of technology capabilities for adequate solution design



EXPERIENCE: DIGITAL TWIN OF DESIGN THINKING



Haptic Design Thinking

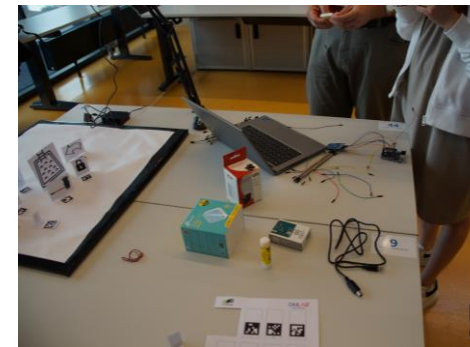
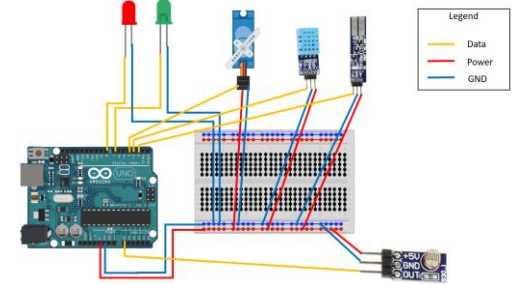
Name: Smart Pool
Connectivity: Bluetooth

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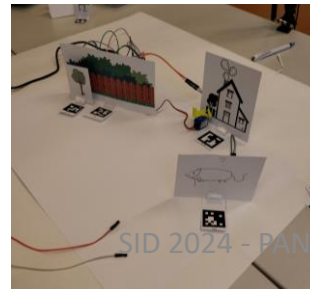
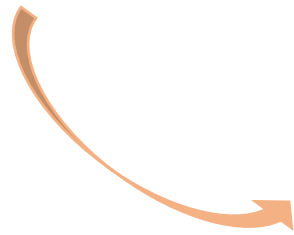
FOCUS: SKILLS FOR ENGINEERING IOT ENVIRONMENTS

- **Knowledge of Semantic Technologies**
 - enabling machines to understand data through the encoding of semantics
- **Understanding IoT Architectures**
 - comprehending the structures of interconnected IoT systems
- **Abstraction**
 - abstracting and extracting meaningful information
- **Fundamental Hardware Knowledge**
 - understanding the capabilities and requirements of IoT hardware components (e.g., edge devices)

DIGITAL LEADERS:
ENGINEER IOT
ENVIRONMENTS

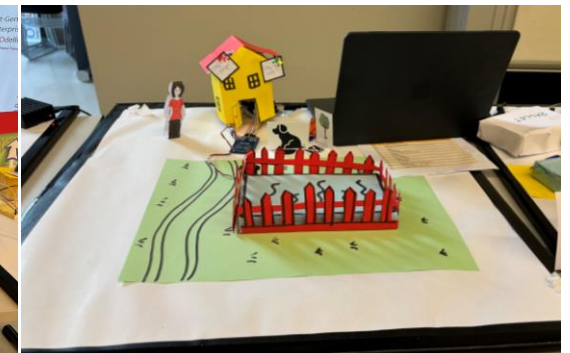


EXPERIENCE: PHYSICAL TWIN OF THE SCENARIO

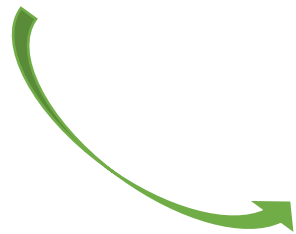


FOCUS: SKILLS FOR COMPOSING DIGITAL ECOSYSTEMS

- **CPS Infrastructure Awareness**
 - being aware of the complete CPS infrastructure, including the non-apparent aspects
- **Abstraction**
 - being able to abstract all relevant aspects of a CPS infrastructure
- **Environment Anticipation**
 - focusing on both current capabilities and limitations as well as future requirements
- **Feasibility Assessment**
 - identifying feasible technologies for supporting and extending CPS capabilities



EXPERIENCE: MODEL VALUE BASED EXPERIMENTS



NEMO **I**nnovation
Camp
Become a digital leader
2025 – 2030



Digital Ecosystems !

Explore how you can
*bridge the physical and
virtual worlds through
conceptual modelling !*

Participate in an
international
Community of Practice !

2027

Geneva, Switzerland

26. - 30. JULY

Chalkida, Greece

27. - 31. JULY

2026

2025

St. Etienne, France

14. - 18. JULY

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START

<https://nemo.omilab.org/>

Any questions?

THANK YOU FOR YOUR
ATTENTION!

Iulia Vaidian
iulia.vaidian@omilab.org

OMiLAB gGmbH
Lützowufer 1

Dr. Wilfrid Utz
wilfrid.utz@omilab.org

D-10785 Berlin
Web: www.omilab.org