

NEMO 2026



Artificial Intelligence in Disruptive Business Scenarios

- Healthcare
- Industry
- Agriculture
- Emergency Services
- Cybersecurity
- Energy

27. - 31. July
Chalkida, Greece



General Information

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South Westphalia University of Applied Sciences, Germany

Welcome!

We are thrilled to welcome you to Chalkida, Greece, for the NEMO 2026 Innovation Camp!

Whether you are here as a student or a professor, you are joining a vibrant international community united by a shared passion for disruption and innovation.

This week, the Greek-Austrian Cultural Centre becomes your stage to think boldly, collaborate across borders, and create solutions that matter.

Over the coming days, world-class speakers and industry partners will challenge you to explore how Artificial Intelligence is reshaping business across healthcare, manufacturing, agriculture,

cybersecurity, and beyond.

Working in interdisciplinary teams, you will move from ideas to prototypes through Design Thinking, Conceptual Modelling, and hands-on experimentation — guided by experienced mentors every step of the way.

But NEMO is more than a programme — it is an experience. From the opening gathering to the final award ceremony, we hope you leave not only with new knowledge and a CoDEMO certification, but with friendships, inspiration, and the confidence to lead in a digital world.

Welcome, and let's make this week count!

This welcome statement was drafted with the assistance of Claude Sonnet 4.6 (Anthropic), on 25 June 2026.

Follow us and share your #NEMO2026 experience!



THANK YOU TO ALL OF OUR SPONSORS!

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Social Events



The NEMO Innovation Camp comes with a programme full of lectures and working group sessions: the participants, students and lecturers thus will experience an intensive week of insights into Innovation 5.0, from theoretical aspects to practical use cases.

However, this is only one side of the coin: the other side is the opportunity to meet student colleagues and renowned professors from all over the world, to discuss with them, to exchange ideas, to learn from each other, and to make new connections.



The pictures above are from NEMO2025 taken in St. Etienne, France, July 2025.

A special „Get Together“ evening is planned for the first day.

We invite you to enjoy some drinks and BBQ food. This event will allow participants to get to know each other right from the start of the Innovation Camp to facilitate cooperation during the practical sessions and in the preparation of the student presentations on the last day.



NEMO Venue

Greek - Austrian Cultural Center



Address:
6, Dimarchou Sarafianou, 34132, Chalkida, Greece



Room of Philosophy



Room of Music



DISRUPTIVE

SCENARIOS

5.0 DENTAL OFFICES OF THE FUTURE



Leadership:

Dental offices face multiple organizational and operational challenges that affect patient experience, workflow efficiency, staff coordination, and resource utilization. Current processes often rely on fragmented workflows, manual coordination, and rigid organizational structures, limiting the ability to adapt to increasing patient demands and evolving healthcare expectations. The ambition is to identify, design, and prototype key innovative actions to design the organization of the Dental Offices of the future, for a transition towards organization 5.0.

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<https://www.aesio-sante.fr/>

5.0 SOLUTION FOR MANUFACTURING AUTOMATION



Leadership:

An automotive factory operates a multi-station production line with partially manual operations, fragmented material handling processes, and limited real-time visibility. Variability in cycle times, unbalanced workloads, coordination inefficiencies, and bottlenecks lead to idle times, downtime, and inefficient resource usage. The aim is to design and prototype Industry 5.0-oriented solutions for production line optimization through Digital Twin simulation, AI-supported decision-making, and human-centered process redesign.



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PRECISION FARMING FOR SUSTAINABLE OLIVE FRUIT FLY CONTROL



UNIVERSITY OF THE AEGEAN

Olive cultivation is of high cultural and economic importance in the Aegean Region. The olive fruit fly (*Bactrocera oleae*) is one of the most critical threats to olive production, causing significant harvest losses. Current control methods rely heavily on area-wide pesticide spraying and manual field monitoring processes, resulting in inefficiencies, delayed decision-making, environmental burden, and increased operational costs. The aim is to design and prototype innovative Industry 5.0 solutions that can become part of a wider ecosystem where decisions are coordinated across sectors (hazard monitoring, occupational safety, food quality, etc) rather than isolated within olive cultivation.

Leadership:

Prof. Dr. Evangelia Kavakli
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University of the Aegean, Greece



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SMART TRIAGE SYSTEM FOR EMERGENCY HEALTHCARE



Emergency healthcare and hospital triage processes frequently suffer from delayed response times, fragmented information exchange, inefficient patient prioritization, and overloaded emergency departments. In critical situations, medical personnel often lack timely access to patient information, while emergency responders face difficulties in assessing and coordinating care under time pressure. Design and prototype intelligent healthcare solutions that improve emergency response coordination, patient triage, and hospital preparedness through AI-enabled assessment, real-time information exchange, predictive decision support, and human-centered digital healthcare workflows.

Leadership:

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CYBERSECURITY IN SPACE AND IOT ECOSYSTEMS



Leadership:

Dr. Nikolaos Tantouris
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European Union Agency for Cybersecurity



The integration of Internet of Things (IoT) ecosystems with satellite networks introduces massive attack surfaces. Traditional ground security fails to address low-latency, cross-border, and resource-constrained space assets. The aim is to design, model, and prototype resilient cybersecurity frameworks shielding interconnected space-IoT devices from signal jamming, data interception, and supply chain tampering.

<https://www.enisa.europa.eu/>

INNOVATING BUSINESS MODELS TO REDUCE ASSET OPERATIONAL COSTS AND ENHANCE SUSTAINABILITY



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO

Leadership:

Dr. Veronica Arioli
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University of Bergamo, Italy

The case study explores how digitalization and servitization can be combined to redesign innovative business models and maintenance services for electrification assets while simultaneously addressing business, operational, and sustainability objectives. The main objectives are:

- Increase asset availability and reliability and reduce unplanned downtime.
- Improve service responsiveness.
- Extend equipment lifetime and component upgrades instead of full system replacement.
- Reduce environmental impacts associated with maintenance activities, including material consumption, waste generation, and transportation-related emissions.

Explore alternative business models capable of aligning service performance with customer needs and sustainability objectives.



<https://global.abb/group/en>

LECTURE

DESCRIPTIONS

CoDEMO: A JOURNEY FROM DIGITAL INNOVATION TO 5.0 COMMUNITY OF PRACTICE

Prof. Dr. Xavier Boucher, École des Mines de Saint-Étienne, France

This lecture will give a general introduction to NEMO 2026, created as one of the event contributing to the EU ERASMUS+ Project CoDEMO. The lecture will remind the ambition of CoDEMO Project, dedicated to boost the European transition towards Society 5.0. The lecture will start with key insights on the international vision of the transition towards Organizations 5.0, pushing a digital transition emphasizing the dimensions of Human centricity, Resilience and Sustainability. The lecture will then address two main topics: (1) A presentation of the main outputs of CoDEMO EU project, covering (i) the creation of an international network of innovation platforms, (ii) a strong contribution to the deployment of 5.0 skills and competencies and (iii) a bank of innovation case studies of 5.0 transitions; (2) A presentation of a structure approach to align the deployment of innovation projects with 5.0 ambition. This general introduction will then open the way to highlight the structure of the quick innovation process proposed for experimentation in NEMO Innovation Camp, including three main phases: (1) Disruptive Business Scenario, (2) Conceptual Modelling for solution design and AI integration and (3) Quick innovation prototyping. The lecture will end by introducing CoDEMO 5.0 community of practice, supported by OMiLAB Innovation Community.



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BUSINESS SCENARIOS: DIGITAL SERVICIZATION STRATEGIES

Prof. Dr. Fabiana Pirola, University of Bergamo, Italy

Despite their increasing relevance in both academia and industrial practice, Product-Service System (PSS) business models require further clarification and development to address the complexities and potential introduced by digital technologies. This lecture aims to provide foundational knowledge on servitization strategies, with a specific focus on digital servitization (e.i, the integration of advanced digital technologies into service-oriented business models). Through real-world case studies and practical examples, participants will gain a comprehensive understanding of how companies are rethinking value creation by shifting from product to service-oriented paradigms. A special emphasis will be placed on identifying barriers and opportunities in the digital transformation journey, including organizational, technological, and cultural challenges. Furthermore, the lecture will explore how an engineering approach, supported by appropriate tools and methods, can effectively support the conceptualization and delivery of PSS. This involves a systematic integration of product and service components to ensure value consistency throughout the lifecycle.



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NEMO 2026 Programme Overview

AI in Disruptive Business Scenarios

	27 th of July	28 th of July	29 th of July	30 th of July	31 st of July
08:15 - 08:30	Opening - Welcome! Wilfrid Utz	Innovation Briefing, Alexander Völz	Innovation Briefing, Iulia Vaidian	Innovation Briefing, Iulia Vaidian	Innovation Briefing, Iulia Vaidian
08:30 - 09:30	CoDEMO: A Journey from Digital Innovation to 5.0 Community of Practice Prof. Xavier Boucher École des Mines de Saint-Étienne, France	Conceptualization of knowledge: ideation, design, and realization Prof. Robert Buchmann FSEGA, Babes Bolyai University, Romania	Machine Learning Models: Select, Train and Use Prof. Dimitris Kotzinos CY Cergy Paris University, France	Data Science: User Experience Design Prof. Yoshinori Hara Osaka Seikei University, Japan	Disruptive Scenarios: Result Presentation Working Group 1 Working Group 2
09:30 - 10:30	Business Scenarios: Digital Servization Strategies Prof. Fabiana Pirola University of Bergamo, Italy	AI Foundations: Human and Technology Perspective Prof. Knut Hinkelmann University of Applied Sciences and Arts Northwestern Switzerland FHNW, Switzerland	Human Digital Twins and Generative Agents: Personalized and Adaptive Human-AI Interactions Prof. Thomas Süße Hochschule Bielefeld, Germany	Neural Networks: An application in the Agricultural Domain Prof. Adrian Florea, Lucian Blaga University of Sibiu, Romania Security Assessment: Leveraging Digital Twins Dr. Zacharenia Garofalaki, Uni. of West Attica; Prof. Christos Douligeris, Uni. of Piraeus, Greece	Disruptive Scenarios: Result Presentation Working Group 3 Working Group 4
10:30 - 11:00	B R E A K	N E T W O R K	I N G B R E	A K N E T W O R K	O R K I N G
11:00 - 12:30	Innovation Environment for Disruption Design Thinking: Haptic Co-Creation using the Scene2Model Platform OMiLAB Team Austria	Innovation Environment for Design Conceptual Modelling: Intelligent Ecosystem Technology Involvement OMiLAB Team Austria	Digitalization in Industry: A Hilti Consumable Use Case within OMiLAB Dr. Martin Nemetz Global CTO, Hilti AG, Liechtenstein	Innovation Environment for Prototyping Cyber Physical Systems: e.g. handling of H-Robots, Bots, Drones OMiLAB Team Austria	Disruptive Scenarios: Result Presentation Working Group 5 Working Group 6
12:30 - 14:00	L U N C H	B R E A K	L U N C H	B R E A K	L U N C H
15:30 - 18:30	Disruptive Scenario 1 5.0 Dental Offices of the Future Owner: Mines de Saint-Étienne, AESIO Mentor: Prof. Xavier Boucher Facilitators: Raksmei Phan, Nadine Dubruc, Meryam Moutaouaffiq	Disruptive Scenario 2 5.0 Solution for Manufacturing Automation Owner: MARQUARDT, Lucian Blaga University of Sibiu Mentor: Prof. Adrian Florea Facilitators: Catalin Stan, Razvan Toghe	Disruptive Scenario 3 Precision Farming for Sustainable Olive Fruit Fly Control Owner: University of Aegean, Prec Farming Lab Mentor: Prof. Evangelia Kavakli Facilitators: Prof. Knut Hinkelmann, Efsthios Trantalis	Disruptive Scenario 4 Smart Triage System for Emergency Healthcare Owner: FORTH, University of Crete Mentor: Prof. Dimitris Plexousakis Facilitators: Dr. Alexander Völz, Andreea-Gabriela Gradinaru	Disruptive Scenario 5 Cybersecurity in Space and IoT Ecosystems Owner: European Union Agency for Cybersecurity (ENISA) Mentor: Prof. Christos Douligeris Facilitators: Dr. Nikolaos Tantouris, Dr. Zacharenia Garofalaki, Danial Mohammadi Amlashi
Leverage Innovation: Parallel Working Groups	Disruptive Scenario 6 Innovating Business Models to Reduce Asset Operational Costs and Enhance Sustainability Owner: ABB, University of Bergamo Mentor: Prof. Thomas Süße Facilitators: Prof. Fabiana Pirola, Dr. Veronica Arioli, Valeria Cornelli	Disruptive Scenario 7 Closing Session [14:00 - 15:00] BOC Innovation Award & Certification Ioannis Mastorakos Executive Director, BOC Greece			
18:30 - 19:30	Key Decisions and Output Collective Session	Key Decisions and Output Collective Session	Key Decisions and Output Collective Session	Key Decisions and Output Collective Session	
	Social Event (Garden BBQ) Monday, 27 th of July	Roundtable Chair: Dr. Wilfrid Utz OMiLAB NPO, Germany Tuesday, 28 th of July	Panel Chair: Prof. Dr. Dimitris Karagiannis University of Vienna, Austria Wednesday, 29 th of July		

CONCEPTUALIZATION OF KNOWLEDGE: IDEATION, DESIGN, AND REALIZATION

Prof. Dr. Robert Buchmann, FSEGA, Babes Bolyai University, Romania

Digital Innovation is fundamentally a knowledge-driven effort. Explicit knowledge takes many forms of representation, with different degrees of structure, refinement or operationalization. Over time, knowledge has been captured as natural language text, visual representations, machine-interpretable ontologies, formal rules and logics - each requiring specific management systems and frameworks, built on diverse kinds of knowledge repositories. In the age of Artificial Intelligence, knowledge exchanges and streamlining take place not only between human knowing subjects, but also during human-AI collaborations or directly between AI agents. This requires a revisitation of traditional knowledge management paradigms, considering the new types of interactions and knowledge conversions manifesting in organizations that employ hybrid workforce and value creation teams. Innovation management methods must leverage these new paradigms, as they take an amorphous innovation idea and must gradually refine it through different stages of conceptualization - from early-stage ideation to structured blueprints, simulateable virtualizations and actual realization. Knowledge representation must be able to support all these stages and their progression, and this requires us to investigate the conceptualizations required at each stage and their streamlining possibilities. The talk will reflect on the requirements and expectations arising from this, while giving suggestions and examples on the potential of interplay between enterprise modelling, knowledge graphs and large language models.



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AI FOUNDATIONS: HUMAN AND TECHNOLOGY PERSPECTIVE

Prof. Dr. Knut Hinkelmann, University of Applied Sciences and Arts Northwestern Switzerland FHNW, Switzerland

Artificial Intelligence can be regarded as the imitation of human abilities appearing in nature. There are two fundamental approaches for Artificial Intelligence: Data-driven AI is based on Machine Learning. It detects patterns and relationships in data using. Generative AI can be regarded as special form of data-driven AI. Knowledge based artificial intelligence is based on explicit, symbolic represent of knowledge. This distinction of data-driven and knowledge-based AI corresponds to Kahneman's distinction of System 1 and System 2 for human thinking. The presentation give will give a short introduction into both approach of artificial intelligence with a focus on their strengths and weaknesses, their combination as well as the role of the human when applying in practice. It is distinguished between different levels of human AI integration, ranging from full automation via human in the loop of AI, AIK in the loop of human and true collaboration. The presentation closes with a method to identify areas for AI application in a company and determine the rule of human-AI integration.



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MACHINE LEARNING MODELS: SELECT, TRAIN AND USE

Prof. Dr. Dimitris Kotzinos, CY Cergy Paris University, France

Machine learning can often feel like a complex black box, but mastering its practical application boils down to these fundamental phases: Select, Train, Use (and Evaluate). In this talk, we will try to demystify the end-to-end ML lifecycle. We will cover elements of strategic decision-making behind choosing the right algorithm for your specific data problem, the best practices for training and fine-tuning robust models, and the crucial steps for deploying those models into real-world applications. More precisely, we will discuss: How to evaluate trade-offs and match the right algorithm - from simple regressions to complex neural networks - to your problem. Train: Essential techniques for preparing data, optimizing hyperparameters, and avoiding common pitfalls. Use: Bridging the gap between a local environment and production, including deployment strategies and performance monitoring. Whether you are a data scientist or a developer looking to integrate AI into your workflow, you need a roadmap on how to use ML and AI models for turning raw data into reliable predictions.



Contact:

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HUMAN DIGITAL TWINS AND GENERATIVE AGENTS: PERSONALIZED AND ADAPTIVE HUMAN-AI INTERACTIONS

Prof. Dr. Thomas Süße, Hochschule Bielefeld, Germany

While digital twins of machines have been widely discussed and implemented in research and practice this lecture explores the emerging paradigm of Human Digital Twins and Generative Agents as a foundation for personalized and adaptive human-machine interaction. As organizations increasingly integrate AI into complex work and production systems, the need for human-centered, context-aware, and continuously learning human-machine interaction processes becomes a critical success factor. The session introduces the concept of the Human Digital Twins as a dynamic digital representation of individuals (e.g. workers) that capture elements like preferences, behaviors, competencies, decision processes and situational context. In combination with generative agents, these models enable AI-based systems to simulate, anticipate, and adapt to human preferences or decisions in real time and thus create a dynamic interface between humans and machines in human-machine interaction. Building on recent advances in generative AI, the lecture discusses how such systems can support co-creative decision-making, collaboration, and co-learning in digitalized work environments. Drawing on examples from industry and current research, the talk concludes by outlining practical implications for designing adaptive, personalized, and responsible interaction systems in line with the broader goals of AI-driven innovation for modern business and society.



Contact:

Prof. Dr. Thomas Süße

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DIGITALIZATION IN INDUSTRY: A HILTI CONSUMABLE USE CASE WITHIN OMILAB

Dr. Martin Nemetz, Global CTO, Hilti AG, Liechtenstein

Hilti is providing products, system solutions and software-based services that contribute to make work on construction sites simpler, faster and safer. While Hilti is proud of its leading construction tools and consumables, it has started to engage itself in building digital products and solutions for its customers. In our presentation at NEMO, we describe how modelling approaches help us in building software solutions that satisfy the needs of our customers.



Contact:

Dr. Martin Nemetz

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DATA SCIENCE: USER EXPERIENCE DESIGN

Prof. Dr. Yoshinori Hara, Osaka Seikei University, Japan

The rapid advancement of Generative AI is transforming business models, decision-making, and customer interactions across industries. In these disruptive scenarios, organizations must redesign user experiences (UX) that balance technological efficiency with human values such as well-being, trust, and ethics. This lecture explores how data science can serve as a foundation for UX design by integrating AI-driven information processing, optimization, and affect analytics with human judgment, empathy, and creativity. Drawing on the concept of Extended Service Capability (ESC)—an organizational ability to co-create value through human-AI collaboration—it proposes a three-layer framework: a philosophy layer defining where AI should and should not be used, an operational layer where data science and human insight jointly shape the experience, and an outcome layer placing well-being at the center of value. Insights from research on long-established Japanese firms illustrate how organizations sustain a clear identity—knowing „what we are“ and „what we are not“—while adapting through innovation. The lecture argues that future competitive advantage will depend not only on data-driven optimization but also on the design of meaningful human experiences enabled by stakeholder value co-creation, presenting a framework for Human-AI Co-evolution that supports both organizational sustainability and societal well-being.



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NEURAL NETWORKS: AN APPLICATION IN THE AGRICULTURAL DOMAIN

Prof. Dr. Adrian Florea, Lucian Blaga University of Sibiu, Romania

Artificial intelligence (AI), genetic algorithms (GAs), fuzzy rules (FR) are modernizing agriculture, contributing to solving global issues such as food security, food waste, digitalization and automation of processes and climate change management. By integrating Internet of Things (IoT) sensors, drones, satellite imagery and predictive analytics, traditional agriculture is becoming a high-performance, real-time data-driven industry capable of meeting modern societal needs. These technologies enable precise monitoring of soil, crops and livestock in real time, optimizing irrigation, fertilization and pest control transforming traditional decisions into data-driven processes. Automation through robots and autonomous machinery reduces operational costs and resource consumption (water, pesticides), reducing environmental impact. For countries with innovation potential, the adoption of these systems is essential to reduce the gaps in the European agricultural sector. Ultimately, AI does not replace the farmer or engineer but rather enhances his analytical and decision-making capacity, becoming an essential factor in building an efficient, resilient and sustainable agriculture and in modelling and optimization of different processes from the food engineering.



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SECURITY ASSESSMENT: LEVERAGING DIGITAL TWINS

Dr. Zacharenia Garofalaki, University of West Attica, Greece

Prof. Dr. Christous Douligeris, University of Piraeus, Greece

SAPNet is an advanced framework designed to create and manage Security Digital Twins for the IoT ecosystem. By utilising a specialised ontology toolkit, SAPNet allows the transformation of IoT processes into high-fidelity Stochastic Petri Net (SPN) models that act as virtual mirrors of physical infrastructure. The platform bridges the gap between design and operation through two core capabilities: (a) Dynamic Vulnerability Synchronisation: a modeller-friendly interface that allows for the real-time composition and updating of the security vulnerabilities list of the digital twin to ensure that the latter accurately reflects the evolving threat landscape of its physical counterpart, and (b) Proactive Security Intelligence: SAPNet delivers fast, high-accuracy security metrics at any stage of the twin's lifecycle. By simulating „what-if“ attack scenarios within the twin, SAPNet enables the modeller to validate the resilience of their twins before deployment, ensuring Security-by-Design in the digital transformation process.



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 OMiLAB[®]

INNOVATION ENVIRONMENT

Innovation Environment for Disruption

Design Thinking: Haptic Co-Creation using the Scene2Model Platform

Organizations increasingly operate in environments characterized by rapid technological change, complex stakeholder ecosystems, and the growing influence of Artificial Intelligence. Identifying opportunities for innovation therefore requires both technological awareness and a deep understanding of human needs as well as business challenges.

This session introduces Design Thinking as a collaborative and human-centered approach for exploring disruptive business scenarios and developing innovative solutions. It showcases how participants can work in interdisciplinary

teams to analyze stakeholder perspectives, generate ideas, and envision future AI-enabled ecosystems. Through co-creation methods and tangible visualizations, participants will explore how AI can create new forms of value.

Using the Scene2Model platform, physical innovation artifacts and scenario representations can be transformed into digital conceptual models, providing a bridge between creative ideation and structured system design. The resulting innovation concepts serve as the foundation for the subsequent design and prototyping activities.

Innovation Environment for Design

Conceptual Modelling: Intelligent Ecosystem Technology Involvement

Modern innovation increasingly emerges from interconnected ecosystems that combine people, organizations, digital services, intelligent technologies, and physical resources. Designing such ecosystems requires the ability to understand relationships, define system boundaries, and conceptualize how different actors interact to create value.

This session introduces the conceptual modelling methodologies and tools provided by OMiLAB for designing AI-enabled business and service ecosystems. It is showcase how participants can transform the innovation concepts developed during the Design

Thinking phase into structured conceptual representations that capture stakeholders, processes, data flows, resources, and intelligent services.

Special attention is given to the role of Artificial Intelligence as part of larger socio-technical systems. This goes beyond technical implementation by focusing on how AI capabilities can be embedded into business processes and collaborative ecosystems. The resulting conceptual models provide a shared understanding of the proposed solution and establish the foundation for architectural design and prototyping.

Innovation Environment for Prototyping

Cyber-Physical Systems (e.g. handling of H-Robots, Bots, Drones) for Rapid Prototyping

Innovative concepts create value when they can be translated into practical solutions. Rapid prototyping provides a mechanism for validating assumptions, exploring feasibility, and communicating innovation concepts to stakeholders.

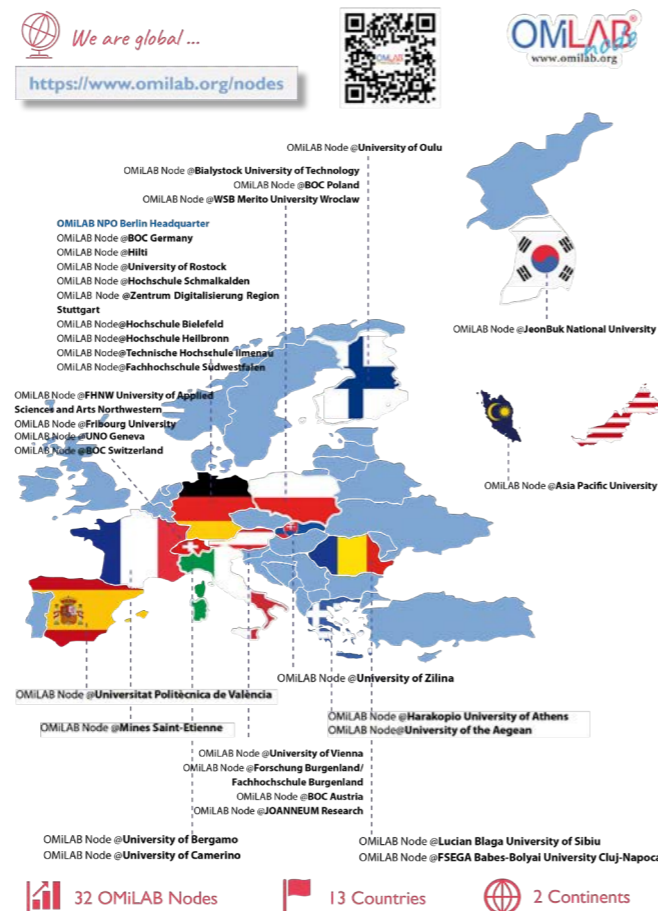
In this session, various kinds of prototypes are introduced, ranging from simulation-based to functional prototype approaches, each of which is suitable to demonstrate the core innovation logic of proposed solutions. Using the OMiLAB prototyping environment, an experimentation-based showcase is presented,

integrating IoT technologies, robotics, and AI-assisted decision support services.

The focus is on demonstrating how information can be interpreted and transformed into intelligent actions within a cyber-physical ecosystem. Participants will experience how AI technologies, connected devices, and conceptual models can interact to support decision-making, automation, and innovation in real-world application scenarios. The resulting prototypes provide a tangible demonstration of the envisioned solution and enable the assessment of its feasibility.



OMiLAB Digital Innovation Environment @BOC-Group, Vienna, Austria.



Global Network of Nodes. Locations of the OMiLAB Digital Innovation Environment across the world. Status June, 2026



Vision: we support an active global community for conceptual modelling that benefits from open artefacts.

Community of Practice: supported by a non-profit organisation (NPO) headquartered in Berlin, Germany and governed by a Scientific Advisory Board (SAB). The benefits of the community are multifold:

- knowledge-transfer between scientists, educators and innovators,
- access to infrastructure and open-source services,
- collaborative network of members that are active in domain-specific issues,
- amplification instruments which leverage the impact of the activities performed,
- conferences, workshops, seminars,
- common projects,
- research and teaching stays, internships and traineeships, and
- publications.

Digital Innovation Environment (DiEn): dedicated research and experimentation space for modelling method engineering equipped with tools to explore method creation and design, experiment with method engineering and deploy open-source software tools and services for modelling. OMiLAB acts as facilitator to the development and application of methods to communities who value models.

Network of Nodes: each node focuses on their own core topic and expertise supported by the collaborative, innovative and explorative space driven by DiEn. Individual engineers, researchers and different stakeholders can work together and contribute to modelling method creation, implementation and model-driven value creation.

Openness: to all those interested, either as individuals or as institutions. It acts as a platform where participants can bring in ideas related to modelling and engage in the exploration process. OMiLAB follows a user-driven approach in its understanding of the term "model" thus users are not limited to a certain domain or functional area of organisations. There are useful models in widely different domains like information technology, medicine as well as various models for functional areas like procurement, marketing, logistics and engineering.

Our Offering

Innovative Workshops

We facilitate haptic innovation workshops for co-creating digital business models. Innovative business models are designed and created using storyboarding with haptic figures in a physical collaborative environment among different stakeholders. **Scene2Model** is a platform which enhances the creative process with AI techniques, supports crosssectoral knowledge sharing and adds new layers to the results of a workshop.

Unlock your organization's creative potential by using Scene2Model to foster cross-functional collaboration.

The outcome of each workshop is tailored by the co-creation process of the participating stakeholders.

The Co-Creation of Digital Business Models is one of the focus areas of the Digital Innovation Environment laboratory. <https://scene2model.omilab.org>

Experimental Prototypes - Model-Value at Runtime

Models are conceptual representations of reality aspects, which are abstracted to reduce complexity in a domain for a specific purpose. The OMiLAB offering, through the **Bee-Up** tool, enables the transformation of models beyond their basic function of diagrammatic documentation/communication support, and allows for smart models...

- to be used as input for decision-making and assessment of the proposed solution by conducting model-based simulation and analysis.
- extended with low-code approaches and functionality to interact with and control smart devices. Thus realizing prototypes and experiments with cyber-physical systems.

<https://bee-up.omilab.org>

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Come and join the community!

AWARD

CERTIFICATION

BOC Innovation Award



We are pleased to present the **BOC Group Innovation Award**, awarded during the NEMO2026 Innovation Camp.

Our sincere thanks to our sponsor BOC Group for supporting innovation, collaboration, and educational growth of young professionals.

Throughout the week, international teams will develop innovative solutions to real-world challenges. On the final day, each team will present its project to an expert jury.

The BOC Group Innovation Award will recognize the team that best demonstrates innovation, impact, feasibility, and presentation quality.

The winning team will be announced during the NEMO2026 Closing Ceremony and will receive a trophy and special prizes.

<https://www.boc-group.com/en/>

CoDEMO 5.0

European Certification



The **CoDEMO 5.0 European Certification** is an innovative European credential developed through the CoDEMO project to support the transition towards more sustainable, resilient, human-centric, and digitally enabled Organizations 5.0.

Built around a collaborative learning framework known as the Learning Cube, the certification equips participants with the knowledge and competences needed to address Organization 5.0 challenges through innovation.

The certification is structured across three levels:

- **Beginner** – Introduction to Organization 5.0 concepts and key dimensions.
- **Explorer** – Understanding of all Organization 5.0 dimensions, complemented by a practical innovation case study.
- **Decision-Maker** – Advanced application through the design or implementation of a real-world innovation project.

Participants in the NEMO2026 Innovation Camp are eligible to obtain the Explorer Level Certification, together with 2 certified ECTS credits.

<https://codemo.community.omilab.org/>

THE NEXT EDITION

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START

2025 St. Etienne, France
15. - 19. JULY

2026 Chalkida, Greece
27. - 31. JULY

2027 Warsaw, Poland
26. - 30. JULY

2028 Bergamo, Italy
17. - 21. JULY

2029 Sibiu, Romania
23. - 27. JULY

2030 Berlin, Germany
22. - 26. JULY

Contact:
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