



## **INNOVATION HUB**

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# Digital Innovation Hub facilitating the supporting environment for HPC services

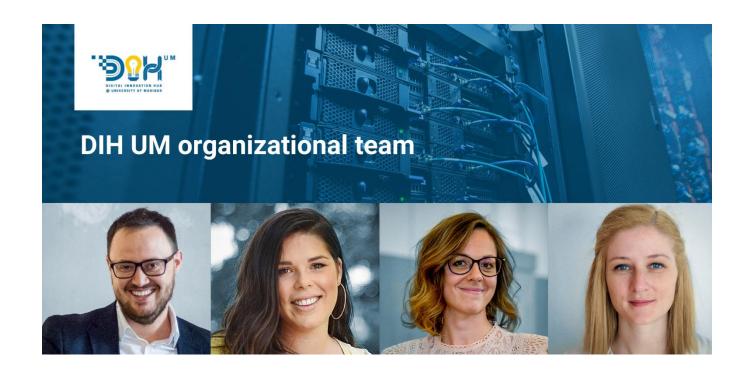
Maruška Čuš, DIH UM



#### DIGITAL INNOVATION HUB UNIVERSITY OF MARIBOR

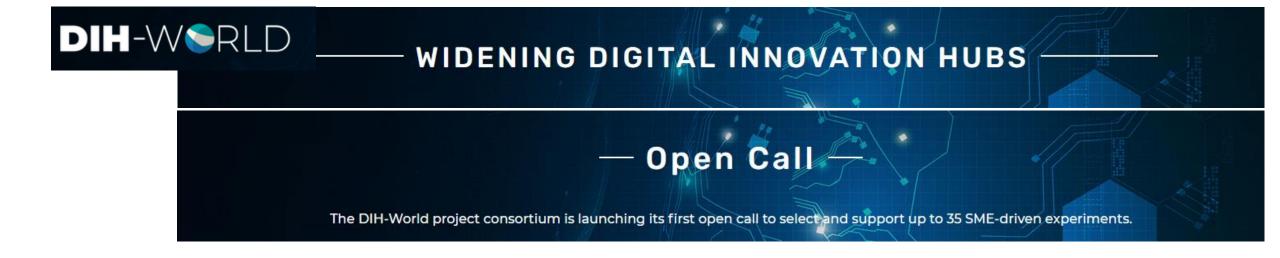


- → Regional network of research, industrial and support institutions.
- → DIH UM acts as a single-entry point for the Slovene Eastern Cohesion Region and helps the economy identify suitable partners who can help them in the digital transformation process.
- → DIH UM is involved in important networks at the EU level - Enterprise Europe Network (EEN), Danube Transfer Center, DEMOLA, Vanguard Initiative, ADMA, AIOTI and TETRAMAX.



### DIGITAL INNOVATION HUB UNIVERSITY OF MARIBOR





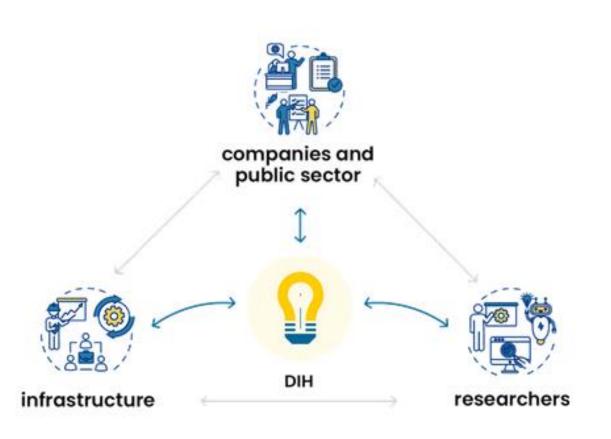


## AI REGIO

The Al REGIO "Regions and Digital Innovation Hubs alliance for Al-driven digital transformation of European Manufacturing SMEs", will build a one-stop-shop platform that enables access to resources for Al-based solutions in efficient and sustainable manufacturing, with particular emphasis on resources that can lower the Al adoption barriers for SMEs.

#### WE CONNECT AND FACILITATE COMMON PROGRESS





#### **Companies and public sector**

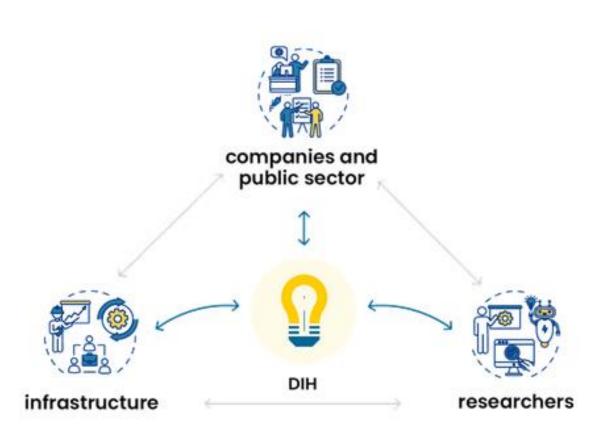
- → We can help you find calls for cooperation opportunities;
- → Connections with our expert network;
- → Access to specialized research equipment;
- → Support the implementation of digital innovations;
- → Help identify the right solutions;
- → Our experts can guide you in the creation of a digital strategy for your organization.

#### Researchers

- → We can help you find new project partnerships within different industries;
- → Identify the right funding opportunities;
- → Establis cooperations in R&D projects;
- → Promote your technological innovations and;
- → Advise you on intellectual property legislation.

### WE CONNECT AND FACILITATE COMMON PROGRESS





#### Infrastructure

- → Modern and powerful research infrastructure (RI) is essential for the implementation of the basic scientific research activity
- → UM coordinates two major infrastructural projects:,
  - → HPC RIVR, which aims to establish a national supercomputing centre,
  - → RIUM, which aims to acquire and integrate state-of-the-art scientific research equipment in prioritized research fields
- → 692 pieces of research equipment with value over EUR 5,000.00



## **OUR SERVICES**





Skils and educationn



Financing innovation



**Business support** and consultancy



Finding international partners



Community building



Strategy developement



Community networking events



**Promotion** 

### **OUR SERVICES:**



#### CO-DEVELOP, TEST, AND LAUNCH NEW PRODUCTS AND SERVICES



#### **DIGI-SI CONSORTIUM**

- → Coordinated by DIH UM
- → Six partners from across the country, boosting its competences and enriching its activities, while also enabling an even development of the digital transformation of the entire Slovene region.
- → An European DIH candidate.
- → Towards the DIGI-SI consortium thus providing the wider region with a HPC specialized EDIH.

















# WE WORK IN VARIOUS TECHNOLOGICAL AREAS OF DIGITALIZATION

Photonics, Electrical and Optical Functional Materials

Gamification

Intelligent Business and Logistic Models

Internet of Things

**Interaction Technology** 

**Web Services** 

Cybersecurtiy

**Cyber Physical System** 

**Communication Networks** 

Laser Technology

Location-based Technologyes

Mass data, data mining

Micro and nano technology

New Media Technologies

Organic and Large Area Electronics

**Cloud Computing** 

Software Dewelopement

**Robotics and Autonomous Systems** 

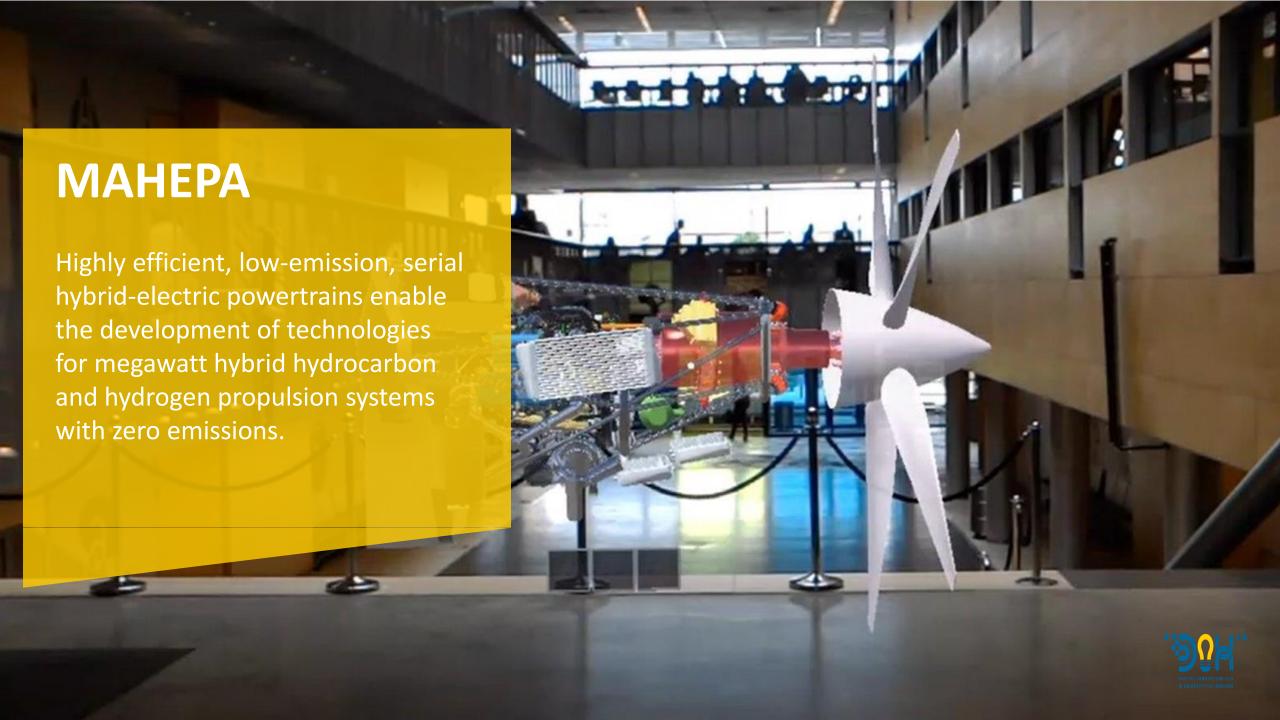
Simulation and Modeling

**Super-computer RIVR** 

**Artificial Intelligence** 

Virtual Reality Monitor Technologies

Blockchain





# HUMANOID ROBOT

- I. The robot will be involved in the development of an innovative ecosystem based on artificial intelligence technologies and big data to support physician decisionmaking.
- II. The robot provides basic and in-depth programming, control, basics of machine vision for object recognition.

