

DIGITAL INNOVATION HUB DEVELOPMENT

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VERISON 1

Digital Innovation Hub development

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CCIS





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1. Structure of DIH

Digital Innovation Hubs (DIHs) are one-stop-shops that help companies to become more competitive regarding their business/production processes, products or services using digital technologies. They are based upon technology infrastructure and provide access to the latest knowledge, expertise and technology to support their customers with piloting, testing and experimenting with digital innovations. DIHs also provide business and financing support to implement these innovations, if needed across the value chain.

DIH's, facilitated in framework of 4Steps project are composed of 3 boards with specific tasks: 1) Strategic Board, 2) Scientific Board and 3) Stakeholder's Board.

1.1. Strategic Board

Strategic board is focused on DIH's governance. The board's key roles include strategic direction, oversight, policy setting, and fund-raising.

Strategic board members meet quarterly

Representative from each DIH cluster and General manager of DIH.

- Assist. Prof. dr. Igor Kovač - General manager
- Dr. Zoran Marinšek
- Dr. Marjan Rihar
- Dr. Aleš Hančič
- Prof. dr. Miran Mozetič

Boards' functions and tasks are as following:

- Adopting the annual work program and the strategic development program of the DIH, with obtaining the prior opinion of the Program Committee.
- Supervision of the management and operation of the DIH.
- Appointing and dismissing the director of the DIH, with obtaining the prior opinion of the Program Committee.
- Adopting recommendations and decisions in accordance with the adopted guidelines for the work of the DIH.
- Establishing working bodies, appointing and dismissing their leaders and members.
- Adopting the Statute and its amendments, with the prior opinion of the Program Committee;
- Adopting other acts of the DIH.
- Adopting work programs and the development of the DIH and monitors their implementation.
- Determines the financial plan and adopts the final plan of the DIH, with obtaining the prior opinion of the Program Committee.
- Accompany or dismisses activities with the consent of the Strategic board.
- Prepares guidelines for the work of the DIH.



- Submits proposals of opinions on individual issues to the Strategic board and director of the DIH.
- Determines the price of services and goods of the DIH on the market.
- Decides on the dissolution of the DIH in accordance with the Institutions Act.

1.2. Scientific Board

Scientific board is focused on the scientific and research activities of DIH.

Scientific board members meet yearly and is composed out of following representatives where each is a coordinator of certain topic or technology.

- Aleš Hančič - Smart mechatronics tools
 - Giovanni Godena - Intelligent systems for factories of future
 - Andreja Hlišč - Smart factories
 - Erih Arko - Robotic systems
 - Renata Kišek - Intelligent laser systems for factories and clinics of futures
 - Boštjan Podobnik - Intelligent laser systems for factories and clinics of futures
 - Gregor Primc - Smart plasma systems
 - Kaja Primc - Smart plasma systems
 - Dr. Kristina Žagar Soderžnik - New materials
 - Denis Đonlagić - Advanced sensors
 - Vladimir Jovan - Cybernetics
 - Igor Kovač - Robotics
 - Martina Knavs - Nanotechnology
 - Matjaž Spreitzer - Modern manufacturing technologies
 - Nina Recek - Plasma
 - Ita Junker - Plasma
 - Renata Kišek - Photonics
 - Rok Petkovšek - Photonics
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- Determines the program concept of the work of the DIH and prepares the strategic program for the development of the institute.
 - Gives an opinion on the annual development and operations plan of the DIH.
 - Adopts positions and makes proposals on fundamental issues and development of the DIH.
 - Gives an opinion to the Strategic board on the proposal for the appointment and dismissal of the Director of the DIH.
 - Gives an opinion on the Statute of the DIH and its amendments.



1.3. Stakeholder's Board

Main aim of the Stakeholder's board is to disseminate the latest knowledge among the key stakeholders and it is a platform for communication between DIH and companies.

Stakeholders board members meets yearly.

The Stakeholders have the following rights and obligations:

- To contribute and pay the membership fee.
- Participate in the planning and design of the implementations of future activities of the DIH.
- Participate in development projects financed by the EU (projects, Horizon, Interreg, ..).
- Each member has one vote in scientific and strategic board.

Stakeholder board is composed of representatives from SMEs, large companies, research institutions and business support organisations:

- BeelN d.o.o.
- Danfoss Trata d.o.o.
- Gram Commerce d.o.o.
- Chamber of Commerce and Industry of Slovenia - Electronics and electrical industry association
- Institute Jožef Stefan - Department E8, E3 and O2
- IB-CADDY d.o.o.
- Iskra AMS d.o.o.
- Kalmia, d.o.o.
- Association for culture and education PiNA
- Lotrič Meroslovje d.o.o.
- Marovt, d.o.o.
- Odelo Slovenija d.o.o.
- PS, d.o.o.
- Research center Novo Mesto d.o.o.
- Revod d.d.
- RIKO d.o.o.
- SIST
- School center Škofja Loka
- Talum Tovarna aluminija d.d.
- Termo Shop d.o.o.



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- TCS
 - Technology Park Ljubljana d.o.o.
 - TRICKEL d.o.o.
 - UL FE - Laboratory for telecommunications
 - UL FS - Laboratory for handling, assembly and pneumatics

2. Main services of the DIH

DIH provides services in following listed topics and fields.

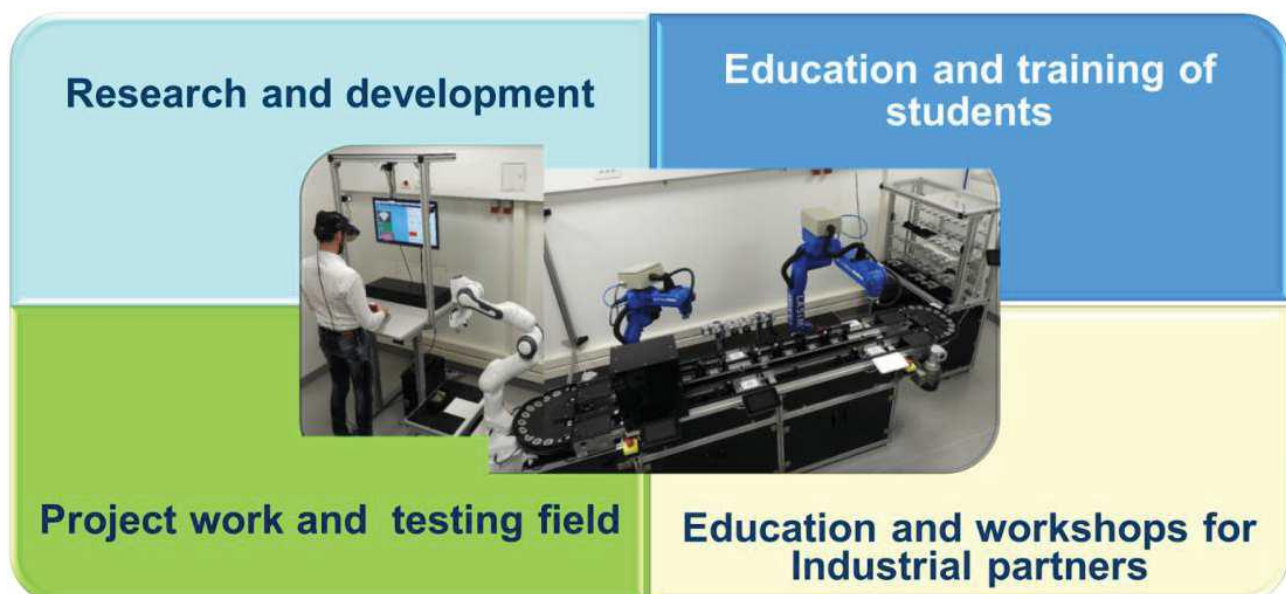
1. Helping SMEs and other companies to successfully transition into the Industry 4.0.

- Establishing methodologies for technological maturity level readiness of I4.0 for SMEs.
- Transfer of DIH knowledge to SMEs and exchange good practices between industrial experts and research institutions.
- Development of educational programs for SMEs for transition in I4.0.
- Creation of project proposals for consortium cooperation in national and European tenders.

2. Establishing, upgrading and implementation of activities of Demonstration centre of Smart Factory

Demonstration centre of Smart Factory is first demo centre of in Slovenia which includes all major technologies of Industry 4.0 (simulation and digital twin, IIoT, autonomous robotics, virtual and augmented reality, big data, cloud computing, cybersecurity and AI). Demo centre is used for:

- Research and development work by Laboratory LASIM (Laboratory for handling, assembly and pneumatics) in the Faculty of Mechanical Engineering, University of Ljubljana.
- For educational purposes of students in the field of production engineering.
- Education and workshops for industrial partners and other SMEs.
- National and international project work.





3. E-life cycle of product in Industry 4.0

Digitalization and I4.0 technologies enable establishment of digital twins of products with which SMEs could monitor all process from the development, to end of products life.

- Services include transfer and exchange of knowledge to SMEs about advantages of product digital twins.
- Promoting good practices between the SMEs on topic of digital twins of products.