

What is Industry 5.0?



Industry 5.0 provides a vision of industry that aims beyond efficiency and productivity as the sole goals and reinforces the role and the contribution of industry to society. It complements the existing "Industry 4.0" approach by specifically putting research and innovation at the service of the transition to a sustainable, human-centric and resilient European industry.

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AT-HU Cross-border working groups

The DIH network brings together cross-border experts in 5 key subject areas: AAL, Digital agriculture, Advanced production technology, Error prediction - predictive maintenance, Digital marketing. You can read more about the professional consultation and results of the given topics on the following page.



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Joint developments – the pilot projects



Among the applications received for the DIGICALL Open Call, digital developments of 12 cross-border enterprises were implemented in the field of product development, prototype production, automation, plant cloning and digital marketing, which were implemented jointly by cross-border DIHs. 12 SMEs received a total of 5,000 hours of engineering support for their development in an average value of 12k EUR per project.

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Unique development possibilities of a smart production line

The smart production line is a great opportunity to present and teach industry 4.0 solutions. In addition to the existing applications, our colleagues are working to expand the production line with newer and newer functions. Since its commissioning, developments such as real-time data display, production data analysis, additional AR functions, the mapping of a virtual counterpart of the factory during digital twin cloning or the use of machine vision for quality control have been implemented.



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IMPROVE! App – Cross-border joint developments in AR



The DIH network is available to interested businesses with a common service portfolio for the implementation of their digital developments in the areas of production, electronics, engineering and software solutions, as well as artificial intelligence and machine learning. Within this application you can review the use cases of the cooperation of 5 partners on cross-border developments at SMEs. Enjoy our digital services also in AR!

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Future of IMPROVE! Network

The network of cross-border digital innovation centers is not only a consortium recruited for the power of a project. The goal is to continue the jointly achieved results, so the network's long-term strategy and action plan were developed using the potential projects. The network is open to further interested parties, regarding joining, please contact our colleagues at the link below.



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EVENTS

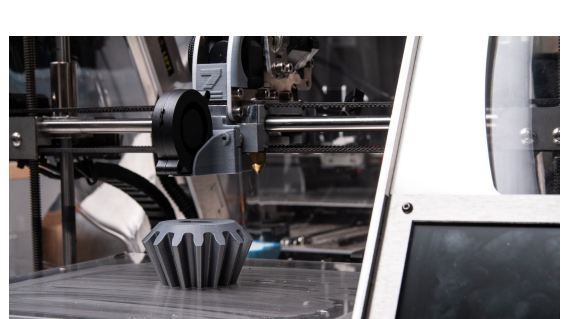


Final Event

The closing event of the project was held on September 15, 2022 in Wiener Neustadt, organized by FOTEC. In the opening speech, the professor of the University of Vienna, Dr. Thomas Trautner, explained the cross-border developments of SMEs, and after the event, the participants were able to see the R&D center of FOTEC.

Open Days at Teaching and learning factory

After the arrival of the smart production line, the Pannon Business Network opened its doors to the interested public and held 3 open days for a total of 110 Hungarian and Austrian participants in May and September 2022. The visitors were able to gain an interactive insight into the factory of the future, and learn about the unique developments of machine vision, AR/VR maintenance, and collaborative robot integration.



Thematic events

Presenting the digitization topics of the border work groups, the members of the network organized thematic events for the wider public. The events presented the concepts, development obstacles and opportunities of AAL, digital agriculture, advanced manufacturing, predictive maintenance and digital marketing.

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The EITM Doctoral School is a partnership between EIT Manufacturing and its university partners to educate PhD students to learn how to transform their research results into market solutions and startups. Apply by 31st December 2022!

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i4MS Open Calls

Open calls are light, quick and user-friendly application schemes for Application Experiments to allow experimentation and testing with new ICT technologies. Each of them has a prompt start date to offer financial and knowledge-based support to manufacturing SMEs and mid-caps, allowing them to conduct small pilot projects to test Industry 4.0 technologies and assess the impact of scaling them up within their companies and offer inspiration to other companies.

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