

WPT4

D.T4.1.6

Transnational industrial innovation roadmap WS for
the Advanced Manufacturing sector

Version 1
6.2021





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1 INTRODUCTION

Following the regional IGAs' actions of the support and implementation of transnational pilots aiming at supporting value chain innovation (WPT3) and establishment of transnational networks of innovations stakeholders as the kick-off activity to develop transregional innovation networks and agendas (WPT4) in selected industrial sectors (WPT4), the main activity of the sectoral partner duo is to contribute to the project output O.T4.1 Thematic industrial innovation roadmaps (TIIR).

For the purposes of TIIR development of the Advanced manufacturing sector two (2) transnational industrial innovation roadmap workshops will be implemented, with the main objective to collect relevant inputs for elaboration of TIIR and later on the transnational industrial innovation agenda for the target sector, in order to perform a foresight exercise and identify relevant sectoral trends and to present the possible evolution paths of the considered value chains and innovations within the target sector over a period of 5-10 years.

2 WORKSHOP SUMMARY

Ref.:	<input type="checkbox"/>	Meeting / workshop	<input type="checkbox"/>	WPT2
	<input checked="" type="checkbox"/>	Online meeting / workshop	<input type="checkbox"/>	WPT3
	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	WPT4
Date:	11.06.2021			
Place:	online (Zoom)			
Attachments:	screenshots			

2.1 Agenda

Bellow is the agenda for Transnational industrial innovation roadmap WS for the Advanced Manufacturing sector. The main goal of this first workshop is to harmonise the knowledge of regional specifics in each countries in Smart specialisation strategy and main research domains. The workshop should prepare the agenda and specific content for the upcoming workshop for Transnational network of innovations stakeholders in respected sector.

Date and time: 11.6.2021, 9:00-10:00

Agenda:

- RDA – short overview of National S3 strategy for Czech Republic
- RDA – specifics of Regional S3 strategy for Pilsen region
- RDA – output of current mapping of innovation potential for upcoming years in Pilsen region
- PBN – am-LAB and its' options and available technologies
- PBN – specifics of Regional S3 strategy for Szombathely region (Szombathely2030)
- RDA + PBN – agenda for second meeting with innovation stakeholders



2.2 Participants

PP no.	Name of organisation	Name of person, position
PP1	PBN	Klaudia Keringer, project managers
	am-LAB	Attila Joos, division leader
PP5	RDA	Jan Naxera, project manager
	University of West Bohemia	Marek Bureš, researcher
	University of West Bohemia	Josef Basl, professor

2.3 Summary of discussions

The first Transnational industrial innovation roadmaps WS from a series of two workshops was organised in a smaller group of transnational networks of innovations stakeholders (TNIS). Beside the project partners the workshop was attended by am-LAB (HU) and University of West Bohemia (CZ) representatives. The main goal of this workshop was to align the current status of activities performed by partners that are aiming towards roadmaps development and to plan agenda and timeframe for the second workshop. The second workshop will be organised in the full size of TNIS.

The first part of the workshop was held by RDA and university. A short overview of national and regional smart specialisation strategy was presented to Hungarian partners in order to familiarise with the regional innovation strategy in advanced manufacturing and specific thematic sectors that are relevant. The developed roadmap will for sure be elaborated within these boundaries. Beside the S3 strategy the outputs of current mapping of innovation potential for upcoming years in Pilsen region which was performed in the scope of national industrial innovation workshops (the deliverable D.T4.1.17) was presented. The technological directions mentioned below are relevant for future innovations in Pilsen region in the upcoming years.

- Intelligent control of production processes
- Big data, neural networks and machine learning
- Intelligent diagnostics and maintenance
- Cognitive and cooperative robotics
- Virtual and augmented reality in production

The second part of the workshop was held by PBN and am-LAB. The am-LAB gave an overview of the technologies they focus on and that are relevant for the region. Furthermore the Regional S3 strategy for Szombathely region called the Szombathely 2030 was presented by PBN. As in case of the Czech Republic the roadmap for Szombathely region must be aligned with this strategy. There are two main topics important for Szombathely region which is:

- industrial change towards promotion of health-industrial businesses and
- green, intelligent city.

In both of the main topics the advanced manufacturing plays an indispensable role. Regarding the promotion of health-industrial businesses the following actions are proposed:



- Research & Development activities supporting health industry - Manufacturing simulation center, Regional rehabilitation center, Future park – Szombathely Science Experience Center.
- Health Science and Technology Park.
- Health-related education, training and awareness raising.

Regarding the green, intelligent city the following actions are proposed:

- Awareness raising and design in the circular economy
- Water management
- Reduction of waste production
- Green energetics
- Hydrogen as an alternative in transport

The third part of the workshop was a brainstorming part of all attendants on the presented information towards the roadmap development. Also the agenda for the second workshop was elaborated.

2.4 Next steps

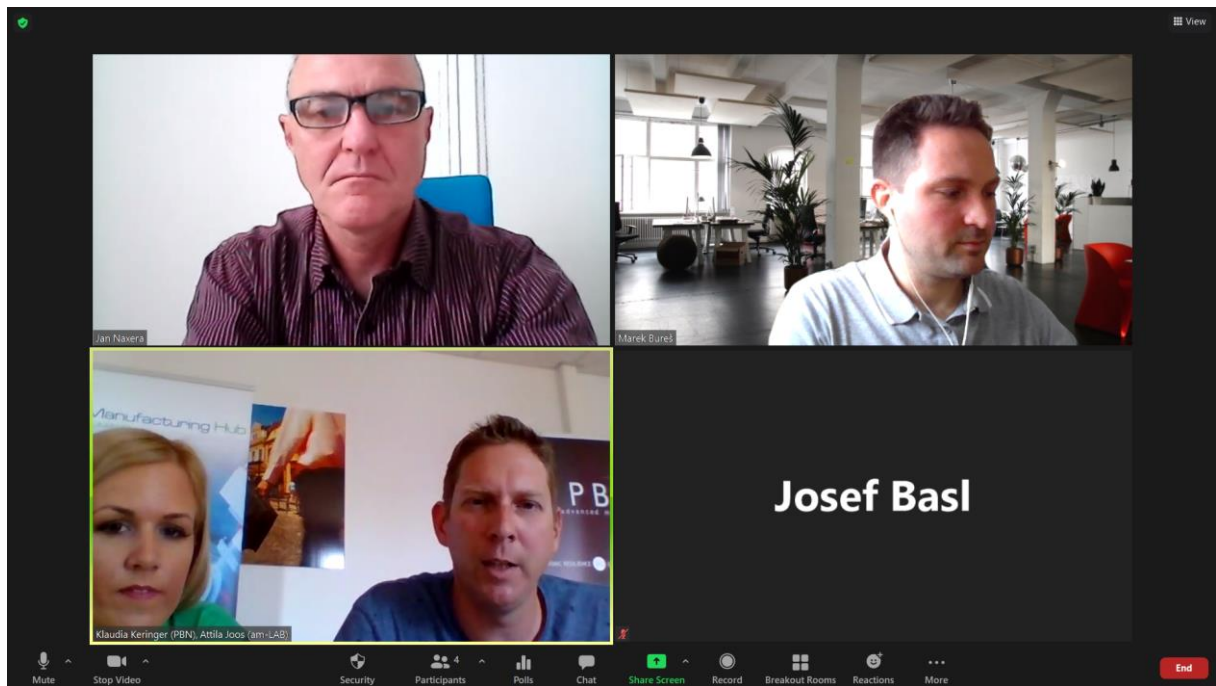
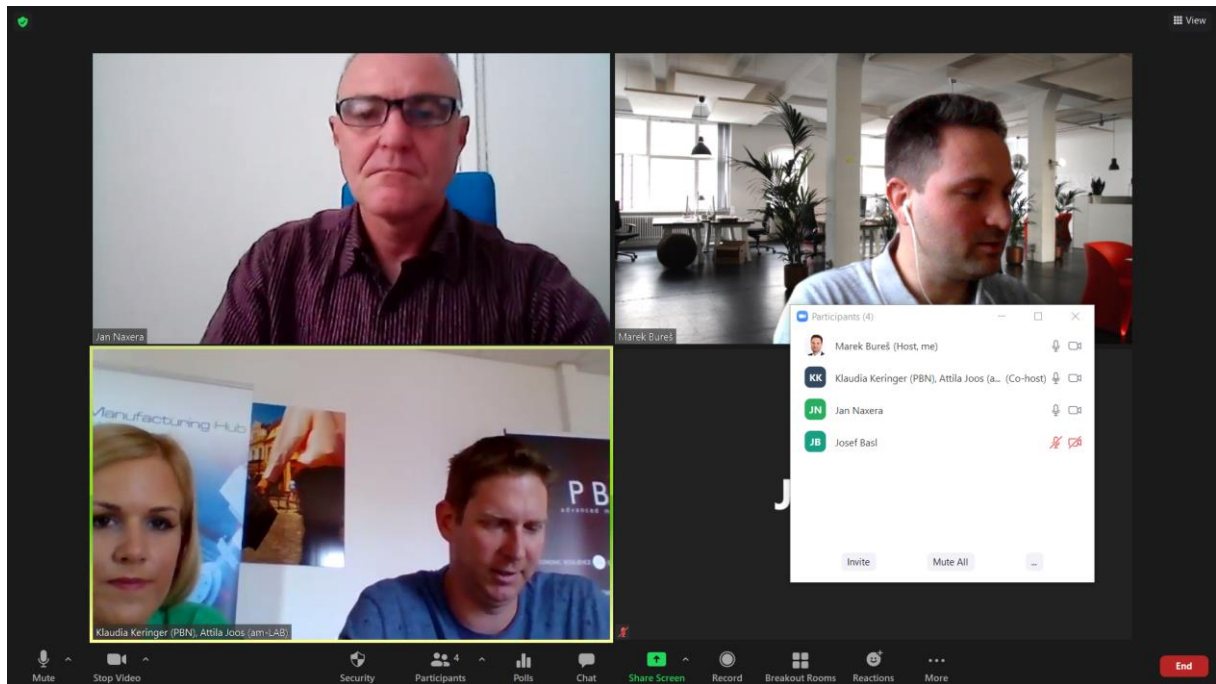
As the output of this workshop it was decided to organise the second workshop in the middle of September 2021. The PBN will perform this workshop as a join action with the opening of their smart senior room.

The agenda for the second workshop with TNIS will be following:

- Short introduction of the WS purpose (5 minutes)
- Brief introduction of the participants (each 3 minutes with no slides, 30 minutes total)
- Presentation of proposed relevant sectoral trends in CZ and HU (15 minutes)
- Discussion on additional sectoral trends that should be reflected in the roadmap (20 minutes)
 - Coffee break
- Identification of main actions/projects to support the sectoral trends in roadmap (30 minutes)
- Discussion and exchange of information on the draft regional plans for the next 5-10 years (30 minutes)
- Workshop closure (10 minutes)



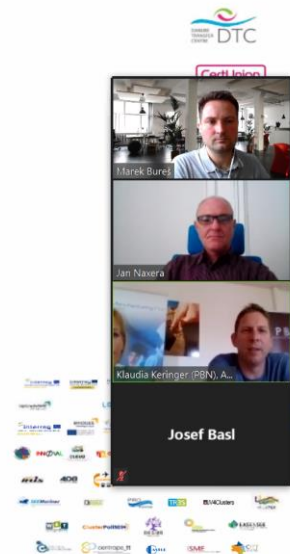
ANNEX: SCREENSHOTS OF THE WORKSHOP





PBN in numbers

- Western Hungary location
- 2006 Year of foundation as RTD organization
- 25 full time staff members
- 450+ international partners
- 70+ international R&D and partnership projects
- 200+ businesses' international study tour in 2019
- 200 participants at international AI conference
- 10 modular digitalisation curricula development
- Artificial Intelligence Working Group Coordination of Danube Region
- 150 manufacturing companies complex development in 2019
- 4 mio € and 74 staff average client size





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PBN focus areas



Advanced management
from benchmarking analysis to AI

- Audits, analysis of companies for 300+ SMEs
- Policy recommendations
- New business models, transnational WGs



Advanced technologies
from data analytics to additive manufacturing

- Digital Innovation Hub with broad portfolio
- 50 SMEs, mid-caps trained and applied R&D annually
- International knowledge axis memberships



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Pannon Business Network



ROBOTICS
Collaborative robotics
Mobile robotics
Drone
Industrial robotics

EXTENDED REALITY
3D Animation
AR applications
Maintenance & Service functions

DATA SCIENCE / AI
ML/AI algorithms
Segmentation/Classification
Data access and visualization

3D Technologies
3Dprinting
3Dscanning, reverse engineering
Prototype development



450+ international partners
75+ international R&D, partnership projects





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Szombathely City is able to provide a quality environment for its residents and businesses as a regional organizer.

Competitiveness and modern city life are achieved by partnership and open communication regarded as core values

