

WPT4

D.T4.3.6

Transnational open space for collaboration
in Advanced manufacturing sector

Version 1
3/2022





Project information	
Project Index Number:	CE1519
Project Acronym:	CHAIN REACTIONS
Project Title:	Driving smart industrial growth through value chain innovation
Website:	https://www.interreg-central.eu/Content.Node/CHAIN-REACTIONS.html
Start Date of the Project:	01.04.2019
Duration:	36 Months
Document Control page	
Deliverable Title (overall):	D.T4.3.6-10: Transnational open spaces for collaboration
Deliverable Title (target sector):	D.T4.3.6 – Transnational open space for collaboration in the Advanced manufacturing
Lead Contractor of the Deliverable:	PP2 – Styrian Technology Park
Responsible PP duo of:	PP1 – PBN PP5 – RDA
Authors:	PBN – Klaudia Keringer RDA – Jan Naxera, Marek Bures
Contractual Delivery Date:	31.12.2021
Actual Delivery Date:	25.3.2022



Table of content

1	INTRODUCTION	3
2	Transnational open space (TOS) for collaboration in Advanced manufacturing sector	4
2.1	Background.....	4
2.2	Constitution of TOS	4
2.3	Commitment to sustainability.....	6
	ANNEX: MEMORANDUM OF AGREEMENT	6

Abbreviations

IGA – Innovation and Growth Alliance

TIA – Transnational Innovation Activities

TEP – Transnational Exploitation Plan

TNN - Transnational Thematic Network

TOS – Transnational Open Space



1 INTRODUCTION

CHAIN REACTIONS project addresses the challenge for industrial regions not benefitting from innovation activities from large leading corporations to increase regional capacity to absorb new knowledge and turn it into competitiveness edge and business value. There is a strong need to help SMEs to overcome capacity shortages for innovation and integration into transnational value chains. The project aims at empowering regional ecosystems with the knowledge and tools to help businesses overcome those barriers and generate sustained growth through value chain innovation.

The transnational thematic network (TTN) is the final output of WP4, and it will become a sustainable open space for collaboration. The following document will specify the working principles and commitments of the TTN in each of the 5 specific sectors.

In order to create transnational open spaces for collaboration (e.g. value chain based) the activities for Building open collaboration spaces for transnational RIS3 implementation (WPT4), are based on previous project activities, mostly IGAs established in each of the target regions (O.T2.1) and Value chain innovation models and instruments implemented in each target region as a driver to S3 (O.T3.2), as well as Thematic industrial innovation roadmaps (O.T4.1) and Thematic innovation agendas (O.T4.2).

More specifically, Transregional exploitation plan (D.T4.3.1-5) for each sector are the key deliverable upon which the **Transnational open space for collaboration** for each of respective sectors will be based.

Overall, the **Transnational open space for collaboration** are part of the third outputs within the WPT4, linking the identified potential with plans for transnational exploitation:

- O.T4.1 Thematic industrial innovation roadmaps;
- O.T4.2 Thematic innovation agendas;
- **O.T4.3 Thematic transnational exploitation plans and open collaboration spaces.**



2 Transnational open space (TOS) for collaboration in Advanced manufacturing sector

2.1 Background

The TOS is based on the previous project activities:

- D.T4.1.1 - Establishing transnational networks of innovations stakeholders for the Advanced manufacturing sector,
- D.T4.1.6 - Transnational industrial innovation roadmap workshop,
- D.T4.1.7 - Transnational industrial innovation roadmap for the Advanced manufacturing,
- D.T4.1.17 - Industrial innovation workshop for the Advanced manufacturing sector in the regions of Hungary and the Czech Republic,
- D.T4.2.3 - Transnational industrial innovation agenda for the Advanced manufacturing.
- D.T4.3.1 - Transregional exploitation plan for the Advanced manufacturing sector

2.2 Constitution of TOS

The TOS for collaboration in Advanced manufacturing sector will consist of the following stakeholders:

Stakeholder	Region	Role within TEP
Municipality of Szombathely	Hungary	Supporting PBN with the research in the field of health and advanced manufacturing.
University of Óbuda	Hungary	Supporting PBN with background research.
at.home	Hungary	At home is a unique demonstration and test environment based on a decade and a half of international business development, ten years of healthcare and five years of digitization experience.
am-LAB	Hungary	PBN's DIH is responsible for technological, digital support and health related technologies.
University of West Bohemia	Czech Republic	University will support the consortium with background research.
COMTES FHT	Czech Republic	The research centre will support the consortium with background research.
Cluster mechatronics	Czech Republic	The cluster network will be used for mapping the needs of the companies in the digitisation area.
DIH HIVE	Czech Republic	Regional DIH will foster the transfer of knowledge to practice and will also provide relevant needs from the companies.
VR medical	Czech Republic	The SME which will cooperate on the development of VR applications



The following stakeholders will commit to jointly pursue the common goals stated below, with proactive networking to expand the cooperation to other interested members of the quadruple helix, that could further contribute to achieving these goals.

Common goals of in the advanced manufacturing sector of West Hungary and West Bohemia regions

Name of TIA	Transnational stakeholders	Common goals
Development of collaboration in the Digital innovation hub networks	Municipality of Szombathely University of Óbuda am-LAB at.home University of West Bohemia COMTES FHT Cluster mechatronics DIH HIVE	The common goal in the Central-European region is to develop the digitalization skills and spread the knowledge especially among the SMEs. In order to do so activities such as seminars and different kinds of workshops will be organised. Also a long term academies and assistance programs will be developed. Core activities will be focused on implementation of new technologies especially the AI, cybersecurity, robotics, virtual prototyping and VR and AR. The knowledge sharing, deeper collaboration among the DIHs partners and informing about good practices in each states will help to evolve the regional strategies.
AR/VR utilisation in medical sector	Municipality of Szombathely University of Óbuda am-LAB at.home University of West Bohemia DIH HIVE VR medical	Partners could collaborate in the sector AR/VR in medical industry. PBN (connected with am-LAB and at.home) are connected to both sector (health and AR/VR), while RDA Pilsen (connected with DIH HIVE and VR medical) are connected to VR solutions, and GAPR and Professor Zbigniew Religa Foundation of Cardiac Surgery Development are related to the health sector. Each partner will be able to provide relevant experts for these topics. Transnational workshops or trainings (face-to-face or online) would be useful for the interest groups. Those trainings (both for general public and health sector) could be performed for example in smart senior room (PBN). The consortium will also focus on the development of VR and AR applications for rehabilitation that would aid with rehabilitation procedures at home. Those applications will relieve professional staff from routine activities and allows them to specialize on key tasks.



2.3 Commitment to sustainability

Based on the joined activities the “Memorandum of cooperation” (see annex 1) among the responsible entities for sustainability of the TOS will be signed.

The responsible entities are primarily the project partners, who will commit to cooperation beyond the project implementation period and any stakeholder committing to continuation of the activities within the TOS.

It is additionally expected that key entities of each region, that share the interest of implementation of TIA, will also sign the memorandum.

Other entities can join the memorandum and further support the activities; however, they can directly join the implementation of TIA, through their cooperation with entities that are already signatories of the memorandum.

ANNEX: MEMORANDUM OF AGREEMENT