

WPT4

D.T4.2.6

Transnational industrial innovation agendas

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CHAIN REACTIONS

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Abbreviations

IGA – Innovation and Growth Alliance

TIA – Transnational Innovation Activities

TIAW – Transnational Innovation Agenda Workshop

TIIA - Transnational industrial innovation Agenda

TIIR – Transnational Industrial Innovation Roadmap

TNIS – Transnational networks of innovations stakeholders



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.

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), were 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).

More specifically, the activities for preparation of Transnational industrial innovation agendas (A.T4.2) were based on Thematic industrial innovation roadmaps (O.T4.1), which had been developed in each of the selected industrial sectors by transnational networks of relevant innovations stakeholders and built on identified technological and societal trends of potential innovative developments (technologies, processes, business models and their interactions).

Each **transnational industrial innovation agenda**, i.e. concrete innovation activities to be performed in the project regions and transnationally in order to realise the necessary development identified in the roadmaps and ensure industrial leadership in the selected industrial sectors, was based on the outcomes of the 2nd TIAW.

The agendas are coherent with S3 in the project regions and provided the basis for potential future joint activities and transnational investments.

Overall, the thematic innovation agendas are one of the three 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 TIIA for the health sector

2.1 Background

The TIIA is based on the previous project activities:

- D.T4.1.4 - establishing transnational networks of innovations stakeholders for the health sector,
- D.T4.1.6 - Transnational industrial innovation roadmap workshop,
- D.T4.1.10 - Transnational industrial innovation roadmap for the health sector,
- D.T4.1.17 - Industrial innovation workshop for the health sector in the regions of Veneto-Italy and Upper Silesia-Poland,
- D.T4.2.1 - Transnational innovation agenda workshop 1, and
- D.T4.2.2 - Transnational innovation agenda workshop 2.

During the TIAW #2 the following three TIAs were proposed:

Developing and testing new transnational business model in the field of design for medical devices and equipment

Timeframe – 2023-2024

Partners involved – MedSilesia Cluster (and members) & Galileo Visionary & CCIAAPD

Expected impact – More efficient design of medical devices and equipment

Estimated costs – To Be Estimated;

Source of founding – own sources of partners and EU finds if successful

Geographical scope – Transregional

Tech-health sector innovation

Developing MedTech competence center

Timeframe – 2023-2026;

Partners involved: MedSilesia Cluster & Regional Innovative Network

Expected impact – Joint collaborative projects between SMEs and/or HEIs/RTOs from Veneto and Upper Silesia

Estimated costs – TBE;

Source of founding – own sources of partners and EU finds if successful

Geographical scope – Transregional

Tech-health sector innovation

Transnational observatory alliance



Timeframe – 2022+;
Partners involved: Biomedical Observatory and Health Observatory with partners
Expected impact – Access to knowledge and support of innovation culture in the ecosystems
Estimated costs – To Be Estimated
Source of founding – own sources of partners and EU finds if successful
Geographical scope – Transregional

Tech-health sector innovation

2.2 Expected impact

Within the partnership of the project Chain Reaction PP3-CCIAAPD and PP11-GAPR prepared the Transnational Innovation Agenda for the health sector. The main impact that the partnership expects to reach, by implementing the activities, is to assist SMEs from biomedical and medtech sectors in internationalization and innovation, facilitated by proper equipment and networks, linked to a joint trans-border health-biomedical observatory.



2.3 TIIA overview

Transnational industrial innovation agenda for the health in the Veneto-Italy and Upper Silesia-Poland						
Name of TIA	Timeframe	Partners involved	Expected impact	Estimated costs	Source of founding	Geographical scope
Developing and testing new transnational business model in the field of design for medical devices and equipment	2023-2024	MedSilesia Cluster (and members) & Galileo Visionary+CCI-AAPD	More efficient design of medical devices and equipment	To-BeEstimated	own sources of partners and EU finds (if successful)	Transregional
Developing MedTech competence centre	2023-26	MedSilesia Cluster & Regional Innovative Network	Joint collaborative projects between SMEs and/or HEIs/RTOs from Veneto and Upper Silesia	To-BeEstimated	own sources of partners and EU finds (if successful)	Transregional
Transnational observatory alliance	2022+;	Biomedical Observatory and Health Observatory with partners	Access to knowledge and support of innovation culture in the ecosystems	To-BeEstimated	own sources of partners and EU finds (if successful)	Transregional



2.4 TIIA description

2.4.1 Developing and testing new transnational business model in the field of design for medical devices and equipment

Galileo Visionary District, MedSilesia cluster and GAPR explored many possibilities to promote the effectivity cooperation between science-R&D and business and the collaboration between SMEs in furniture and rehabilitation and robotics sectors with the aim to develop new products.
Galileo Visionary District will provide their experience in building a successful business model w/r to the connection between science represented by start-up companies, R&D designers, spin-off university and business represented by traditional companies. Among other, Galileo Visionary District outlined the role of design thinking methods & tools to promote an openness to change in the companies. In contrast to traditional problem-solving, which is a linear process of identifying a problem, design thinking only works if it is iterative. Galileo offers a connection between incubation, education and business. New transnational business model in the field of design fir medical devices and equipment will be developed and initially tested.
Start date - 01.2023
End date - 12.2024+
Place of action - Veneto and Upper Silesia regions
Costs - to be estimated according to detailed activities
External needs – funding from EU, national / regional funding
Contribution - by setting up and promoting new market opportunities and sharing knowledge on the health sector, the stakeholders will be much more aware of advancements / challenges.
Both regions implement regional smart specialisation strategies on health sector.

2.4.2 Developing MedTech competence centre

Tech4life – the Veneto Innovative Networks, the OBV – Veneto Biomedical Observatory, Galileo Visionary District, MedSilesia cluster and GAPR explored many possibilities to promote the effectivity cooperation between science-R&D and business and the collaboration between SMEs in furniture and rehabilitation and robotics sectors with the aim to develop new products.
MedSilesia intends to promote the new business competences and opportunities and will closely collaborate on that with Tech4Life. The regional innovation networks will also try to build potential business partnership together with the network and Upper Silesian cluster members. Tech4life is the industrial network established in Veneto Region to support R&I in the biomedical sector and the internationalization process; it has been established by the regional entrepreneurial association and is composed by SMEs, Universities and Competence Centre on robotics, AI, AR, etc. GAPR/MedSilesia intend to extend the collaboration between universities and companies within the Silesian context and with the Italian partners in the field of new competences acquisition.
Start date - 01.2023
End date - 12.2026+
Place of action - Veneto and Upper Silesia regions
Costs - to be estimated according to detailed activities



External needs – funding from EU, national / regional funding
Contribution - by setting up and promoting new market opportunities and sharing knowledge on the health sector, the stakeholders will be much more aware of advancements / challenges.
Both regions implement regional smart specialisation strategies on health sector.

2.4.3 Transnational observatory alliance

OBV – Veneto Biomedical Observatory, MedSilesia cluster and GAPR explored many possibilities to promote the effectivity cooperation between science-R&D and business and the collaboration between SMEs in furniture and rehabilitation and robotics sectors with the aim to develop new products.
The regional observatories (biomedical and health) will make a links with regard rehabilitation, furniture, robotics for the long-term vision of the MedSilesia Cluster and the Observatory building a successful alliance aiming at trend watching and a common initiative in the field of technology scanning.
Start date - 06.2022
End date - continuously
Place of action - Veneto and Upper Silesia regions
Costs - to be estimated according to detailed activities
External needs – funding from EU, national / regional funding
Contribution - by setting up and promoting new market opportunities and sharing knowledge on the health sector, the stakeholders will be much more aware of advancements / challenges.
Both regions implement regional smart specialisation strategies on health sector.

3 Conclusions

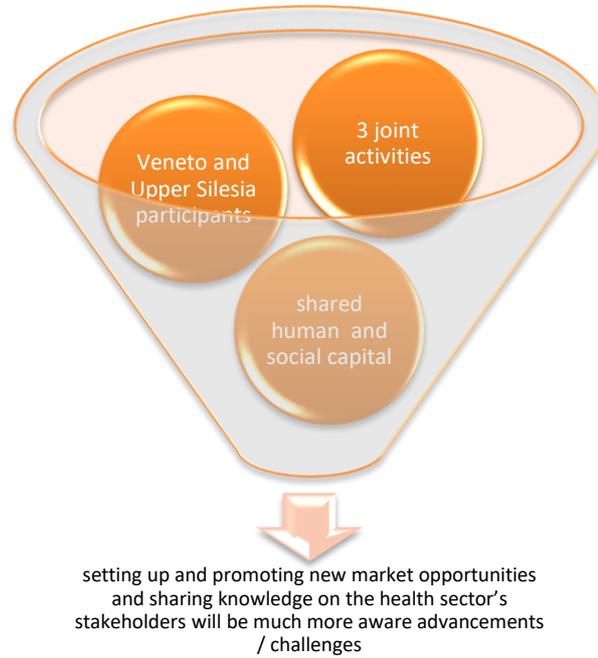
By implementing the Transnational industrial innovation agenda for the health sector, the PP3 and PP11 expects to achieve:

- A) Developing and testing new transnational business model in the field of design for medical devices and equipment
- B) Developing MedTech competence centre
- C) Transnational observatory alliance

The total cost of foreseen activities needs to be estimated, which are foreseen to be covered through public and private funds.



Annex 1: TIIA Graphical presentation





Annex 2: Participating TNIS members

Activity participant	Short description of the participant
Galileo Visionary District	provides experience in the connection between science represented by start-up companies, R&D designers, spin-off university and business represented by traditional companies.
CCIAAPD	provides experience in the connection to companies and other stakeholders.
Tech4life	supports R&I in the biomedical sector and the internationalization processes
OBV – Veneto Biomedical Observatory	supports companies in the biomedical sector and the access to knowledge on legal framework changes
GAPR / MedSilesia	provides experience in the connection to companies and other stakeholders & supports R&I in the MedTech sector and the internationalization processes of companies
Health observatory in Upper Silesia (with its partners)	supports companies in the MedTech sector and the access to knowledge on business opportunities and the legal framework changes