

WPT4

D.T4.2.1

Transnational innovation agenda workshop #1

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Abbreviations

IGA – Innovation and Growth Alliance

PESTEL - Political, Economic, Social, Technological, Environmental and Legal factors

PP – Project Partner

RDI – Research, Development and Innovation

RIS3 – Regional Strategy for Research and Innovation for Smart Specialisation

SME – Small and Medium Enterprise

TEP – Transregional Exploitation Plan

TIIA – Transnational Industrial Innovation Agenda

TIIR – Transnational Industrial Innovation Roadmap

TNIS – Transnational networks of innovations stakeholders

TOSC – Transnational open collaboration space

WPT – Work Package



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), will be based on previous project activities, mostly Innovation and Growth Alliances (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) will be based on Thematic industrial innovation roadmaps (O.T4.1), which have been developed in each of the selected industrial sectors by transnational networks of relevant innovations stakeholders will be established and build on identified technological and societal trends of potential innovative developments (technologies, processes, business models and their interactions).

Each industrial roadmap will be further developed into **transnational industrial innovation agendas**, 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.

The agendas will be coherent with S3 in the project regions and will provide 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 STRATEGIC AND ORGANISATIONAL CONTEXT

2.1 Framework

Transnational network of innovations stakeholders for the bioeconomy sector builds its agenda on the thematic industrial innovation roadmap (O.T4.1).

BIO

At early stages of CHAIN REACTIONS' implementation, BEC together with WTP - its duo partner for the bioeconomy sector - assumed that the application of digital solutions to any bio-based sector is a necessity for the development of companies in these sectors and their competitiveness at national and international level. Digital and green transition as per most up-to-date European strategies (e.g. Green Deal, Farm 2 Fork) are the key concepts for the transformation of current business models and value chains as well as for the environmentally and economically sustainable growth of the bioeconomy.

Therefore, the suggested innovation actions within the roadmap for bioeconomy are closely linked to the green and digital transition of the agri-food sector. These actions should lead to the improved transfer of knowledge between involved duo partners towards the establishment of DIH in agri-food sector in the Nitra region. One of the first steps is sharing of experience with DIH Wroclaw (Level 4.0), one of the fully operational DIHs in Poland, as well as with other DIHs located in the regions represented by the CHAIN REACTIONS consortium (Slovenia, Hungary). The information flow between the regions allows for better sharing of technological opportunities and for the promotion of innovation/technology providers for the benefit of regional SMEs (mainly in agri-food).

The idea of DIH in agri-food should be anchored in the regional strategic documents for the coming period, thus getting on importance also in the eyes of regional actors and decision-makers and lever-aging sufficient funding for the future functioning. In this respect, it is also important to develop a digitalization strategy reflecting the latest developments in digitalization in Slovakia and Europe.

To become fully operational DIH in the future, some preparatory administrative steps are needed as well. These include networking of relevant partners, the elaboration of strategy and action plan of DIH, as well as organizational and legal establishment of DIH, including its registration in S3 platform of JRC.

These actions should go beyond the lifetime of CHAIN REACTIONS, and thus the partners will have to search for other sources of funding to ensure continuity and sustainability of what has been created within the pilots and all WP T4 activities.

WTP

The aim of our activities is to establish constant, based on the exchange of good practices, transnational cooperation among SMEs in the bioeconomy sector, focused on increasing the efficiency of the implementation of technological solutions within Industry 4.0 and ICT sectors. The activities undertaken by the WTP should lead to the increased use of new technologies in the SME's sector. We assume that the measures will also allow companies to switch to "green" technologies including CE models. Moreover, we decided to support Bioeconomy Cluster with our experience in process of establishment of regional DIH in Agri-food.

Management and coordination of bioeconomy sector will be provided by project partner duo PP7 WTP and PP9 BEC, that will coordinate the two workshops Transnational innovation agenda workshop 1 & 2 (D.T4.2.1-2), where the innovation roadmaps will be turned into innovation agendas.



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2.2 Transnational innovation agenda workshop 1

The Transnational innovation agenda workshop 1 was organized on 10.11.2021 as a 3-hour online event. It was held in the national language of BEC, i.e. in Slovak language. The participants of the workshop were members of IGA, members of TNIS from the Nitra region, as well as other relevant stakeholders in the topics related to the bioeconomy. The workshop was open to a broad range of stakeholders to gather different views and perspectives of regional actors, to learn about their needs and ideas and to be able to assign roles to different actors in turning the roadmap into action. The workshop was organized in close cooperation with regional partners.

The BEC workshop followed the following agenda guideline:

- Brief presentation of Thematic industrial innovation roadmap prepared by BEC and WTP
- Links to the topics of upcoming Horizon Europe calls within Cluster 6: Food, bioeconomy, natural resources, agriculture and environment
- Discussion about the competences of regional actors and best practice examples' sharing

The participants joined in the discussions to present how they could be a part of suggested innovation action (described in detail within D.T4.1.6 and D.T4.1.11 for bioeconomy) in order to achieve industrial innovation. Participants discussed different profile descriptions and necessary competencies of potential partners, which could be involved in the implementation of the suggested innovation actions. The debate was facilitated and guided mainly by the representatives of Bioeconomy Cluster and IGA from the Nitra region.

WPT on 26th of November organized Transnational innovation agenda workshop 1. The workshop was attended by members of the IGA and Balluff - a supplier of industry 4.0 technologies for the food industry. The event was held in the national language of WPT, i.e. Polish and the meeting lasted over 2 h. The workshops were conducted in cooperation with regional partners.

The WTP workshop followed the following agenda guideline:

- Presentation of Thematic industrial innovation roadmap prepared by BEC and WTP
- Join activity proposals
- Discussion about the competences of regional actors and best practice examples' sharing

The participants joined in the discussions to present how they could be a part of suggested innovation action (described in detail within D.T4.1.6 and D.T4.1.11 for bioeconomy) in order to achieve industrial innovation. Participants discussed different profile descriptions and necessary competencies of potential partners, which could be involved in the implementation of the suggested innovation actions. The debate was facilitated and guided mainly by the representatives of Bioeconomy Cluster and IGA from the Nitra region.



3 ANNEX

Workshop outcome table

Participant	Transnational innovation action	Profile of transnational partner	Name of possible transnational partner
Katarína Blicklingová, Daniel Ács	Efficiency monitor for e-mobility	Network of e-mobility that is already measuring the efficiency of e-mobility	ZF Friedrichshafen (not within partnership)
Municipality of Maribor	Bioeconomy Cluster will coordinate the activities in establishing a Digital Innovation Hub in agri-food sector in Slovakia. It has well-developed network of value chain actors (SMEs) and service provider actors (academia, research) and thus, will provide its expertise mainly in mapping the needs of practice and linking it with research and with relevant providers of solutions. BEC will also search for funding opportunities for the activities of DIH, as well as for the support of innovation activities of SMEs towards their digital transition.	Bioeconomy Cluster creates an innovation ecosystem for the knowledge and technology transfer between research and agri-food industry (SMEs) including relevant policies through mutual cooperation. It is actively engaged in European and national policies in agricultural innovation, in supporting and networking of SMEs, as well as in connecting the entities of knowledge triangle. The members of BEC are SMEs operating mainly in the agri-food sector, with horizontal focus on bioeconomy and bio-based solutions.	Bioeconomy Cluster
Danka Moravčíková, Martin Valach	The Slovak University of Agriculture in Nitra will be one of the key partners of DIH in agri-food in Slovakia. It has the necessary expertise and infrastructure to provide professional services and to contribute to improving digital	The Slovak University of Agriculture in Nitra has attained the position of one of Slovakia's leading universities. It provides education in the field of agriculture and related research areas such as agrobiology, food resources, sustainable agriculture, agricultural production, food technology, etc. The University cultivates close links with its local and regional community and it	Slovak University of Agriculture in Nitra + Research Centre AgroBioTech with its Transfer Centre + EIT Food Hub + Food Incubator



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	competencies of SMEs (e.g. through trainings and the activities of EIT Food Hub). The University has established a food incubator, which supports the transfer of knowledge and technologies to practice and deals also with intellectual property rights.	has a strong tradition in working in collaboration with business and industry. The University has become a modern open university, which reflects current needs in the agri-food sector at local and global scale. Its mission is to prepare competitive specialists for all areas of the agri-food sector.	
Dana Peškovičová, Miroslav Záhradník	The National Agricultural and Food Centre will be another key partner of DIH in agri-food in Slovakia. It has broad knowledge of agri-food sector in Slovakia and has been working with practice for many years. The Centre may also benefit from EkonMOD milk application, which is a ready-to-use decision support tool that was co-created by the Centre and assists dairy farm managers to better understand dynamics of the herd structure and to improve the interpretation of economically sensible decision-making.	The National Agricultural and Food Centre is a unique research organization under the Ministry of Agriculture and Rural Development of the Slovak Republic. It is focused on applied research and gathering of knowledge in the sustainable use and protection of natural resources, especially soil and water resources for crop production and animal husbandry, quality and safety, innovation and competitiveness of food and non-food products of agricultural origin, productive and non-productive impact of agriculture on the environment and rural development and the transfer of knowledge from agricultural and food research to end users. The research centre involves 7 research institutes.	National Agricultural and Food Centre
Nataša Hurtová	The centre will provide information mainly in respect to the funding opportunities at EU level (Horizon Europe) and will guide the clients of DIH in applying for EU funds.	Slovak Centre of Scientific and Technical Information is a national information centre focused on natural, technical, economic and social sciences. Ms. Hurtová acts as a National Contact Point of Horizon Europe for cluster 6: Food, bioeconomy, natural resources, agriculture and environment.	Slovak Centre of Scientific and Technical Information



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N/A	Other universities – mainly technical ones, may also act as service providers and use their expertise to help SMEs in their digital transformation. They will not be directly involved as partners in the DIH consortium, but will be contracted on individual basis if needed.	N/A	Other Slovak universities & research centres
Łukasz Wyszkowski, Iga Kryszczuk	WPT will organize conferences / meetings with the participation of companies from the food industry, at which Industry 4th and ICT solutions will be presented. Currently, such activities are introduced by us at meetings of the members of the NUTRIBIOMED cluster. PP7 will coordinate the information published on the Innovation Exchange. WPT will be looking for new partners who will present industry 4.0 solutions for SME's. Support Bioeconomy Cluster with our experience in process of establishment of regional DIH in Agri-food.	Wrocław Technology Park is the largest business institution of this type in Poland, in terms of the number of companies operating in its area. WPT is a perfect place of operations for companies, entrepreneurs and scientists from the research and development sector, as well as research and development departments. Both startups, enterprises from the SME sector as well as large international companies will find their place here.	Wrocław Technology Park/ NUTRIBIOMED Cluster
Anna Bednarska	The Nutribiomed cluster will support the activities of WPT, in particular by organizing conferences	NUTRIBIOMED Cluster brings together approximately 100 entities from the life science industry, bioeconomy, food industry etc, including 72 SME's.	NUTRIBIOMED Cluster



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	/ meetings with the participation of companies from the food industry, at which Industry 4.0 and ICT solutions will be presented.		
Ewa Sondej	ARAW - The Wroclaw Agglomeration Development Agency will ensure contact with municipalities and business entities around Wroclaw.	Wroclaw Agglomeration Development Agency (ARAW) is a non-profit company established in 2006 by the city of Wroclaw and surrounding communes. The mission of ARAW is to promote the region, support its economic development and attract foreign investments.	ARAW SA
Paweł Juras	Balluff Company will provide information on industry 4.0 technology and digitisation and will provide knowledge mainly in the field of mapping the needs of the practice and linking it to relevant solution providers.	Balluff supports companies in the process of improving production processes by providing innovative equipment and solutions that are used for production planning, cost optimization and quality management. In line with the idea of industry 4.0, they improve the production capacity of companies through advanced solutions in the field of industrial automation.	Balluff Sp. Z o.o.



Screenshots from the BEC workshop

The screenshot shows a Cisco Webex meeting in progress. The interface includes a top menu bar with options like 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Meeting', 'Breakout Sessions', and 'Help'. The main area displays a grid of video thumbnails for participants. The current speaker is 'natasa hurtova (Cohost)'. A 'YouCam4' watermark is visible in the top row. The right sidebar shows a list of 61 participants, including 'Katarina Blickingova ...', 'PCM NTI', 'Stano Hroncek', 'Dana Peskovicova SK', 'Jana Bielikova PEDAL', 'natasa hurtova', 'Ako byť úspešný v programe...', 'Andrea Laukova', 'Anna Giertlova', 'Barbora Liptakova', 'Božena Šoltysová', 'Dana Peskovicova SK', 'debreceňova', 'Elena Zakova', 'Filip Danninger', 'František Kreps', 'Gubis', 'https://video.nti.sk/join?t3pd...', 'Ing. Dominika Barenčíková, P...', and 'Ivana Nevedelová'. The bottom of the screen shows a Windows taskbar with various application icons, system tray information (7°C Mostly cloudy, 9:35, 10.11.2021), and meeting controls like 'Unmute', 'Stop video', 'Share', 'Participants', and 'Chat'.





Cisco Webex Meetings (Moderated unmute mode) Meeting Info Hide Menu Bar

File Edit Share View Audio & Video Participant Meeting Breakout Sessions Help

Katarina Blickingova BEC Cohost, ma
Dana Peskovicova... (Cohost)
natasa hurtova Cohost
Stano Hroncek Cohost
Pavol Porvaz
Andrea Laukova

BIOEAST FORESIGHT EXERCISE

Sustainable Bioeconomies towards 2050

MINISTERSTVO VYVOJA AUSTRIE
EUROPEAN UNION

https://bioeast.eu/wp-content/uploads/2019/10/BIOeast-Report-2021_FINAL_compressed.pdf

BIOeast **BIO EAST**

SCENÁR 1	SCENÁR 2
<ul style="list-style-type: none"> Vzdělaní farmáři Elektrone druhotně využité biomasy Dobry manažment prírodných zdrojov Udržiavateľná intenzifikácia Využitie zlobových riešení a IT 	<ul style="list-style-type: none"> Častočne vzdelaní farmáři Elektrone primárne využité biomasy Nesúdržovateľné farmárstvo a agropotravinárske systémy Monoskultúry a silný dôraz na technológiu lineárneho využitia
SCENÁR 3	SCENÁR 4
<ul style="list-style-type: none"> Nedostatočne vzdelaní farmáři Využitie fosilných zdrojov Nesúdržovateľné farmárstvo Monoskultúry Žiadna adaptácia na klimatickú zmenu 	<ul style="list-style-type: none"> Vzdelaní a spolupracujúci farmáři Elektrone druhotně využité biomasy Dobry manažment prírodných zdrojov Zameranie na výnos Agrokoléžia a permakultúra

Obr. Agropotravinárske systémy v scenároch vývoja biospodárstva

Aké sú možné scenáre farmárstva v budúcnosti, aké to bude mať dôsledky, info v článku Agromagazín 10/2021 ?

Unmute Start video Share

Participants Chat

7°C Mostly cloudy 10:51 10.11.2021



Screenshot from WTP workshop

The screenshot shows a Zoom meeting interface. The title bar reads "Transnational innovations agenda workshop #1". The time is 09:32. The meeting controls at the top right include icons for participants, chat, mute, video, and a red "Zakończ" (End) button. The main area displays four video thumbnails: Łukasz Wyszowski (Gość), Ewa Sondej (Gość), Paweł Juras, and Anna Bednarska (Gość). A fifth participant, a woman with blonde hair, is visible in a smaller thumbnail within Anna Bednarska's frame. On the right, the "Uczestnicy" (Participants) list shows: wpt 2 (Organizator), Anna Bednarska (Gość), Ewa Sondej (Gość), Łukasz Wyszowski (Gość), and Paweł Juras (Zewnętrzny). The Windows taskbar at the bottom shows the date 26.11.2021, time 10:33, and weather 3°C Pochmurnie.