

WPT4

D.T4.2.2

Transnational innovation agenda workshop #2

Version 1
7 2021





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Responsible PP:	PP4 - Croatian Chamber of Economy - Zadar County Chamber (CCE-ZCC) PP8 - Košice IT Valley (KEITVA)
Authors:	CCE-ZCC – Marko Jović KEITVA – Viktor Mitruk RDA – Jan Naxera, Marek Bureš
Contractual Delivery Date:	01.01.2021 – 31.03.2022
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Table of content

1	INTRODUCTION	1
2	STRATEGIC AND ORGANISATIONAL CONTEXT	2
2.1	Framework	2
2.2	Transnational innovation agenda workshop 2.....	3
2.3	List of participants	5
3	ANNEX.....	12

Abbreviations

IGA – Innovation and Growth Alliance

PP – Project Partner

RDI – Research, Development and Innovation

TIA – Transnational Innovation Action

TIIR – Transnational Industrial Innovation Roadmap

TNIS – Transnational networks of innovations stakeholders

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 ICT and electronics sector builds its agenda on the thematic industrial innovation roadmap (O.T4.1), with the inputs of the outputs of the Transnational innovation agenda workshop 1 (D.T4.2.1). Individual duo partners for the ICT and electronics sector organized regional workshops.

CCE-ZCC organized its regional workshop on February 18, 2022, which was attended by the IGA and TNIS members. The workshop was organized online on the national language of CCE-ZCC, i.e. Croatian, and served to present the completed project, including a roadmap developed by CCE-ZCC together with duo partner KEITVA. New innovation activities with transnational potential and involvement of present stakeholders in them were discussed. A review was made of the next workshop that follows, which is Transnational innovation agenda workshop 2, to which the participants of the regional workshop were invited. The main outcomes of this workshop are summarized in D.T4.2.1.

With IGA members and stakeholders, Kosice IT Valley defined five main goals that were discussed further with the duo partner on the workshop D.T4.2.1. Finally, each partner presented their goals and proposed activities. For Kosice It Valley, the goals are as follow.

- Strengthen the innovation potential of the region by building a qualified workforce and prevent from brain drain
- Transfer of knowledge from abroad when compiling a regional development strategy
- Building an Innovation Ecosystem
- Support of home growth companies
- Technology development and technology transfer, especially in the field of R&D.

Therefore, it is easier for both partners to define transnational activities.

Project partner - Regional Development Agency of the Pilsen Region (RDA) and their IGA and TNIS members, as well as other stakeholders they collaborate with, were invited to the Transnational innovation agenda workshop 2. RDA is one of the project partners involved in the CCE -ZCC pilot activities, so there was a mutual intention to intensify joint cooperation, not only transnational but also cross-sectoral, because RDA is focused on advanced manufacturing.

Prior to the Transnational innovation agenda workshop 2, framework topics were agreed between the project partners involved in the organization of the workshop, KEITVA, CCE-ZCC and RDA. It was agreed to present a transnational industrial innovation roadmap for the ICT and electronic sector developed by CCE-ZCC and KEITVA. After that, each partner together with stakeholders from their regions will present opportunities for transnational cooperation. Finally, a discussion will open on the possibilities of new joint transnational and cross-sectoral innovation actions. The agenda for the second workshop was designed according to the above.



Management and coordination of ICT and electronics sector will be provided by project partner duo PP4-CCE-ZCC and PP8-KEITVA, 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.

2.2 Transnational innovation agenda workshop 2

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:	25.02.2022.			
Place:	Online (Microsoft Teams)			
Attachments:	Screenshots			

Duo partners for the ICT and electronic sector, i.e. CCE-ZCC and KEITVA organized the Transnational innovation agenda workshop 2 together with a partner from the advanced manufacturing sector - RDA Pilsen. It was held in English on February 25, 2022 online via Microsoft Teams. In total, 16 people attended the event, including the representatives of CCE-ZCC, KEITVA and RDA. The workshop participants were selected relevant stakeholders for each project partner according to the previously agreed workshop topics. These were mainly IGA and TNIS members and stakeholders involved in the pilot activities, such as participants in the hackathon organized by the CCE-ZCC.

Agenda:

- *Workshop opening and brief introduction of the participants*
- *Short overview of the CHAIN REACTIONS project (CCE-ZCC and KEITVA)*
- *Presentation of the activities proposed so far that will be implemented in the future with the aim of strengthening the ICT sector (previously developed roadmap for ICT sector)*
- **ICT sector**
 - *opportunities for international cooperation – KEITVA / TNIS members*
 - *hackathon experiences, presented solutions (CCE-ZCC / hackathon participants)*
- **Advanced manufacturing sector**
 - *opportunities for international cooperation - RDA /TNIS members)*
- *New proposed joint activities (transnational cooperation between TNIS members) - possible partners*
- **PAUSE**
- *Discussion: How are the activities going to be implemented?*



- *Validation of activities: The participants assess how feasible are the proposed plans for implementation of innovation activities*
- *Workshop closure*

Summary of the workshop:

At the beginning of the workshop, a welcome speech by the partners and an introduction of the participants was given. This was followed by a presentation of the CHAIN REACTIONS project, in particular a pilot activity from the perspective of CCE-ZCC and KEITVA. The third topic on the agenda was the presentation of the transnational industrial innovation roadmap for the ICT and electronic sector developed by CCE-ZCC and KEITVA. After that, each of the partners presented opportunities for international cooperation, and the participants of the CCE-ZCCs hackathon, Mr. Davor Novokmet from Kodium Pro Ltd. and Ms. Alenka Bopsić from DIGITALI presented their companies and software solutions they developed at the hackathon. Ms. Bopsić was invited as a representative of the local IT scene in Zadar County and with the aim of promoting and encouraging the employment of women in the IT sector. Supporting the development of community (women in IT) is one of the activities that KEITVA was dealing within its pilot, and will continue to work on it and include CCE-ZCC and RDA (through educations, workshops, transfer of knowledge and experience, etc.), which was agreed at this workshop. Mr. Damir Radas from Innovative Zadar Ltd. presented the projects that this company is developing, including e-services for the City of Zadar and related institutions, schools and university, citizens and tourists. Innovative Zadar Ltd. was founded by the City of Zadar in 2003 with the primary objective of encouraging and development of SMEs (small and medium businesses) in the City of Zadar. The idea has been providing business and technical services with favourable lease office space to facilitate the start of entrepreneurs. HSTec d.d. from Zadar, who participated in the first workshop and expressed interest in cooperation in the field of high-speed motorized spindles, industrial automation and robotics unfortunately could not participate in this workshop. However, they are still interested in future cooperation with companies in the field of ICT and advanced manufacturing, but also from other branches of industry related to precision mechatronics.

Kosice It Valley, with its duo partner and RDA, prepared a quality workshop where we defined multiple transnational activities. Kosice IT Valley has been creating lots of activities with the help of the project Chain reactions such as supporting women in IT, educational workshops and seminars that call Step by Step from idea to product. The workshop's outcome was that we connected with some Croatia SMEs and discussed the possibility of cooperating on the subject. We agreed to cooperate in the future in the networking events, and also with our Czech partner, we decided that Kosice It Valley would introduce them to our startups.

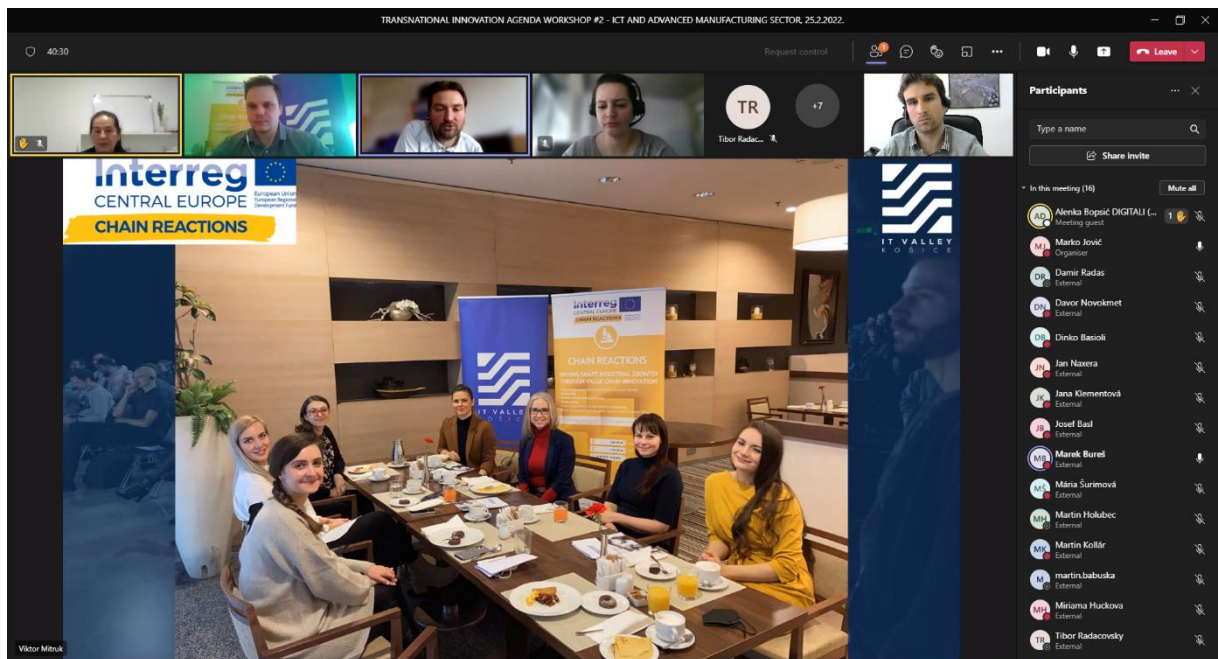
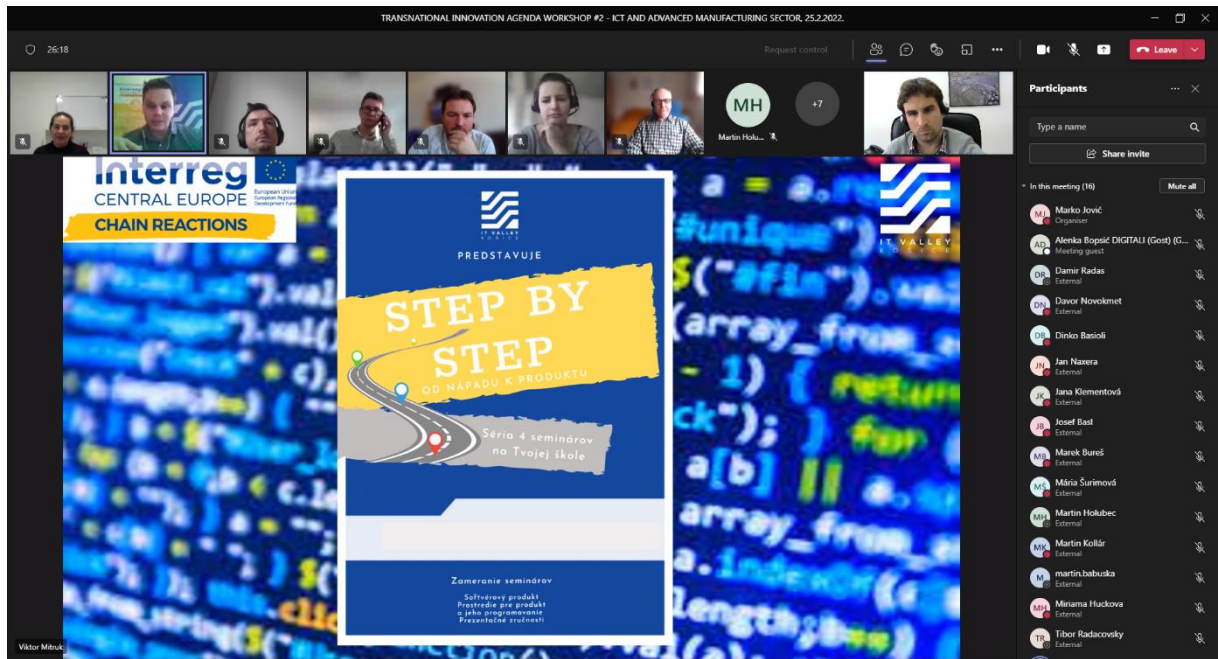
According to the agenda the RDA prepared a short overview of the innovation activities from the roadmap in advanced manufacturing sector. Bigger attention was put on those activities that are relevant also for the ICT sector and can result in some international cooperation. Those were the two activities, the cooperation with the West Bohemian digital innovation hub DIH HIVE and extension of the virtual democentre which was developed in Chain Reactions pilot activity. Especially the contribution of Croatian and Slovakian companies or startups with their demonstrators for the virtual democentre is the easiest way how to develop the transnational cooperations.



Finally, there was a discussion on new joint transnational activities, which are detailed in the annex section. The inputs of workshop 2 (D.T4.2.2) will serve as the basis for finalisation of the Transnational Innovation Agendas for the ICT and electronic sector.

2.3 List of participants

PP no.	Name of organisation	Name of person, position
PP4	Croatian Chamber of Economy - Zadar County Chamber	Marko Jović, senior expert associate
PP4	Croatian Chamber of Economy - Zadar County Chamber	Dinko Basioli, senior expert associate
	Inovativni Zadar d.o.o. (Innovative Zadar Ltd.)	Damir Radas, expert associate in IT department
	Kodium Pro d.o.o. (Kodium Pro Ltd.)	Davor Novokmet, director
	DIGITALI	Alenka Bopsić, owner and founder
PP8	Kosice IT Valley	Viktor Mitruk, project manager
PP8	Kosice It Valley	Miriama Huckova, executive director
PP8	Kosice It Valley	Maria Surimova, Data analyst
	GlobalLogic Slovakia	Tibor Radačovský, Manager
	Slovensko IT	Martin Kollar
PP5	University of West Bohemia in Pilsen	Marek Bureš, researcher
PP5	RDA Pilsen	Jan Naxera, consultant
PP5	University of West Bohemia in Pilsen	Josef Basl, profesor
PP5	University of West Bohemia in Pilsen	Martin Babuška, technology transfer officer
PP5	RDA Pilsen	Jana Klementová, consultant



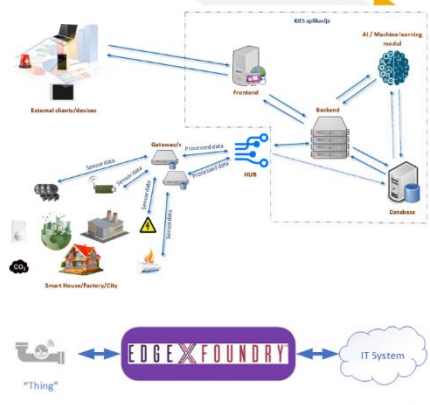


TRANSNATIONAL INNOVATION AGENDA WORKSHOP #2 - ICT AND ADVANCED MANUFACTURING SECTOR, 25.2.2022.

KODIUM PRO

KIES architecture

- KIES backend module – allows reporting and user management
- Frontend module – responsive and mobile friendly with advanced charting capabilities
- AI module – uses machine learning to detect anomalies and correlations
- Hub collects and preprocesses data
- End devices collect and transmit data



The diagram illustrates the KIES architecture. It shows 'External devices/clients' connected to a 'Hub'. The hub is connected to 'Smart grids', 'Smart houses/Factories/Cities', and 'Processors'. Data flows from the hub to a 'Backend' and then to a 'Database'. An 'AI/Machine learning model' is also connected to the database. At the bottom, a 'Thing' is connected to an 'EDGE X FACTORY' which is connected to an 'IT System'.

Participants list (15):

- Dinko Basioli
- Alenka Bogšić DIGITALI (Govt)
- Damir Radaš
- Davor Novokmet
- Jan Naxera
- Jana Klementová
- Josef Bašl
- Marek Bureš
- Máňa Šurimová
- Marko Jović
- Martin Kolár
- martin.babuska
- Miriama Húckova
- Fibor Radacovsky
- Viktor Mitruk

TRANSNATIONAL INNOVATION AGENDA WORKSHOP #2 - ICT AND ADVANCED MANUFACTURING SECTOR, 25.2.2022.

Kodium Intelligent Energy Saver

Dashboard showing energy and production data:

- External light: ON
- AC: ON
- Power switch: ON
- Main switch: ON

Electrical usage of two main buildings (Feb 23, 2022 - Feb 25, 2022):

Building	Usage (kWh)
Office building el. main	~150
Manufacturing el. main	~100

KPI electricity current month: 66.09% (15136.42 kWh out of 22903 kWh)

KPI production current month: 77.46% (24317.11 kg out of 31400 kg)

Production line submeter 1: Production line (May 31, 2021 - Feb 25, 2022)

Air quality: Office CO2 (Feb 18, 2022 - Feb 25, 2022)

Participants list (15):

- Marko Jović
- Alenka Bogšić DIGITALI (Govt)
- Damir Radaš
- Davor Novokmet
- Dinko Basioli
- Jan Naxera
- Jana Klementová
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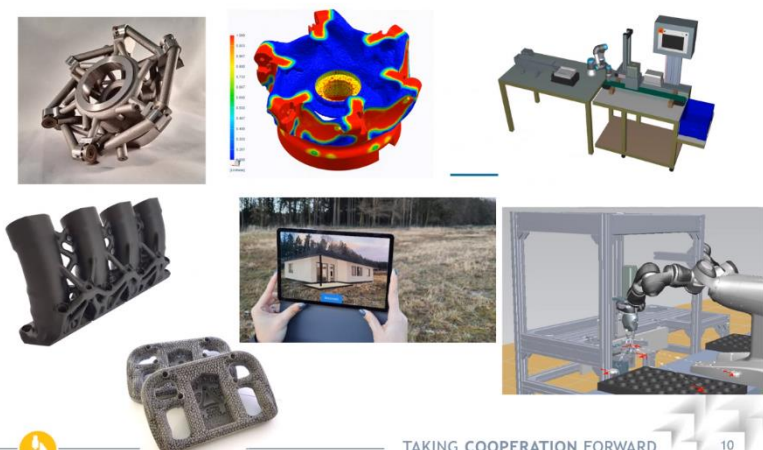
TRANSNATIONAL INNOVATION AGENDA WORKSHOP #2 - ICT AND ADVANCED MANUFACTURING SECTOR, 25.2.2022.

Request control

Show participants

DIH HIVE - SERVICES

Interreg CENTRAL EUROPE CHAIN REACTIONS



TAKING COOPERATION FORWARD 10

Mark Bureš

Participants: AD, +8, DB

TRANSNATIONAL INNOVATION AGENDA WORKSHOP #2 - ICT AND ADVANCED MANUFACTURING SECTOR, 25.2.2022.

Request control

Participants

Type a name

Share Invite

In this meeting (14)

- Dinko Basioli
- Alenka Bopac DIGITALI (Gost)
- Miroslav Gost
- Damir Rodas
- Davor Novokmet
- Ian Nazera
- Jana Klementová
- Josef Baal
- Mark Bureš
- Maria Šurimová
- Marko Jović
- Martin Kollar
- Martin Babuska
- Miriama Huckova
- Viktor Mitruk

Virtual democenter

The creation of this **Virtual Demonstration Centre** was initialised within the CHAIN REACTIONS project from the Interreg Central Europe project which aims to increase the innovation capacity of industrial companies. The main idea is to absorb new knowledge and turn it into competitive edge and business value, growth and profits. The project focuses on a few key sectors based on their embedding in regional smart specialisation strategies. The Regional Development Agency of Pilsen region is responsible for Advanced manufacturing sector. In this sector we are realising together with other partners the **Virtual Demonstration Centre** pilot activity, which is a place where innovative technologies or methods are displayed, with the aim to enable potential users (e.g. SMEs) to get familiar with them and evaluate a potential implementation in their productions. The content of the virtual democenter is divided into several technological sections, which are: **Additive technologies, Automation and robotisation, Objects digitisation, Digital twins, Virtual and augmented reality and Virtual prototyping.**

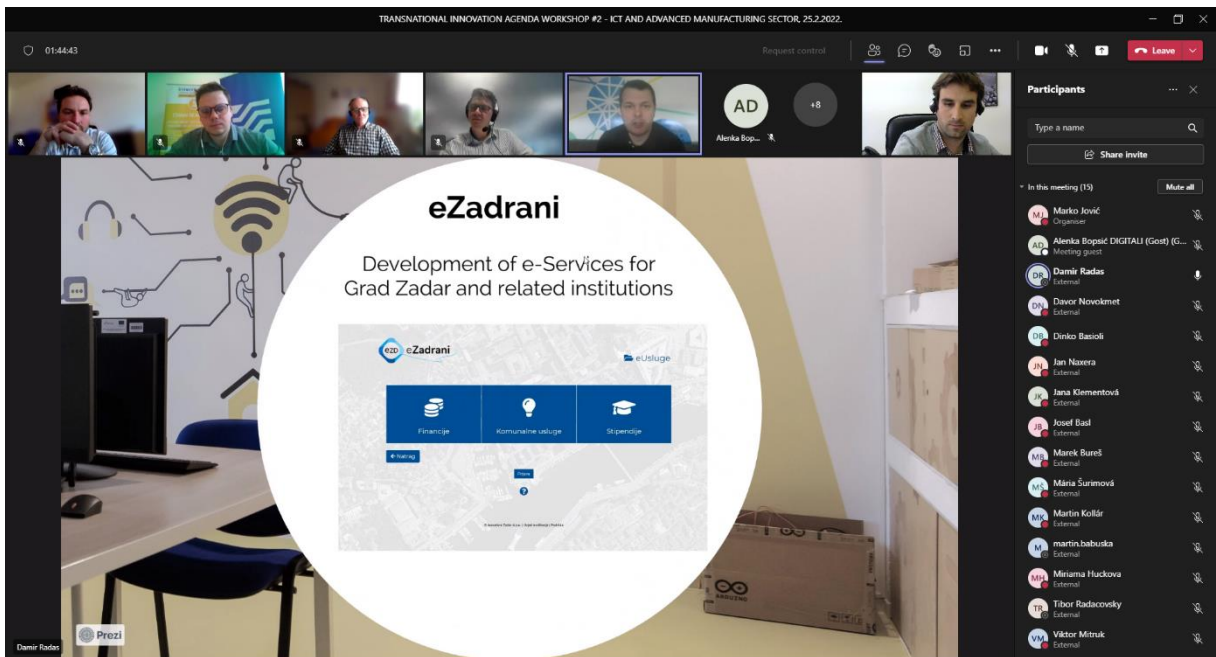
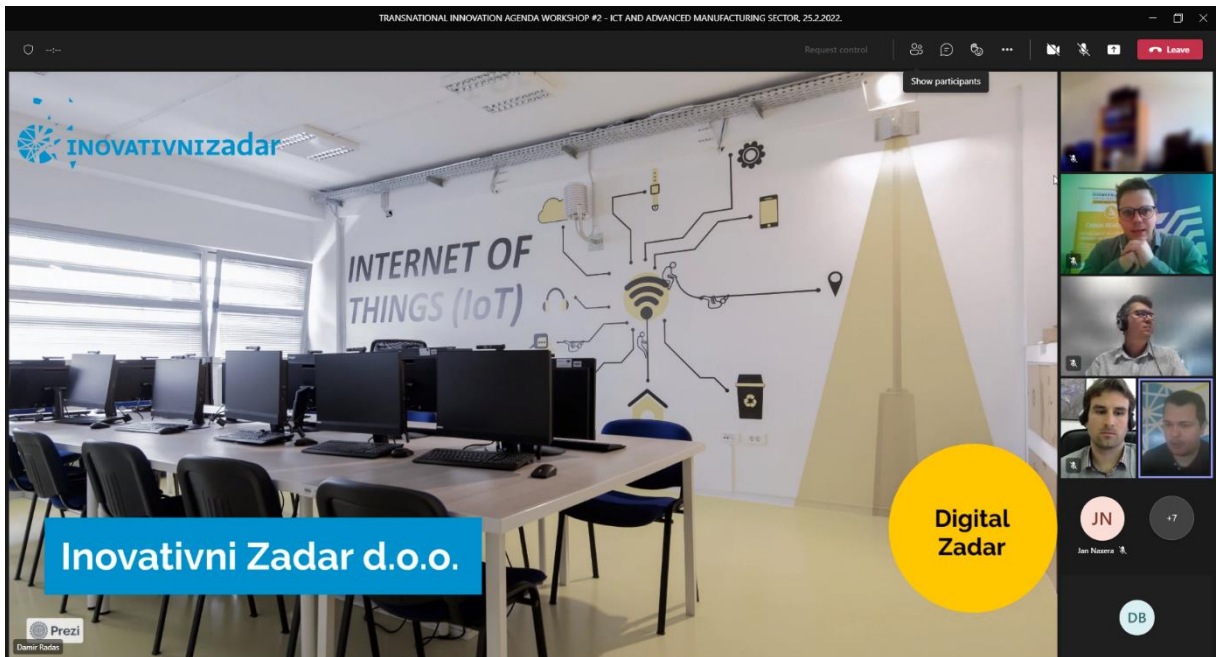
[Všechny](#) +
[Virtual and augmented reality \(3\)](#) +
[Object digitisation \(3\)](#) +
[Digital twins \(2\)](#) +
[Automation and robotisation \(4\)](#) +
[Additive technology \(3\)](#) +

[Track, measure and control your data from your site with a touch of paper](#)
[Digital twin](#)

[Digitisation of hospital complex](#)
[Digital twin](#)

[Digitisation of archaeological dig site](#)
[Digital twin](#)

Mark Bureš





TRANSNATIONAL INNOVATION AGENDA WORKSHOP #2 - ICT AND ADVANCED MANUFACTURING SECTOR, 25.2.2022.

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Participants

Type a name

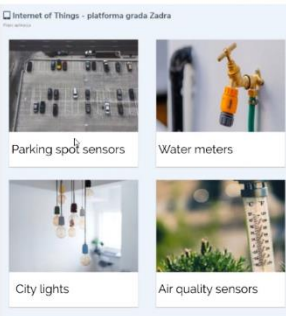
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In this meeting (15)

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- Alenka Bogosic DIGITALI (Guest) (E...)
- Damir Radas (External)
- Davor Novokmet (External)
- Dinko Basoli (External)
- Jan Naxera (External)
- Jana Klementová (External)
- Josef Basl (External)
- Marek Bures (External)
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- Martin Kolár (External)
- martin.babuska (External)
- Miriama Hucikova (External)
- Fibor Radacovsky (External)
- Viktor Mitruk (External)

IoT

Internet of Things - platforma grada Zadra



- Parking spot sensors
- Water meters
- City lights
- Air quality sensors

Prezi

TRANSNATIONAL INNOVATION AGENDA WORKSHOP #2 - ICT AND ADVANCED MANUFACTURING SECTOR, 25.2.2022.

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Participants

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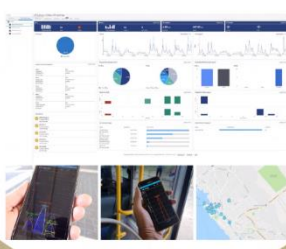
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- Martin Kolár (External)
- martin.babuska (External)
- Miriama Hucikova (External)
- Fibor Radacovsky (External)
- Viktor Mitruk (External)

Free Wi-Fi network - "Grad_Zadar_Free"

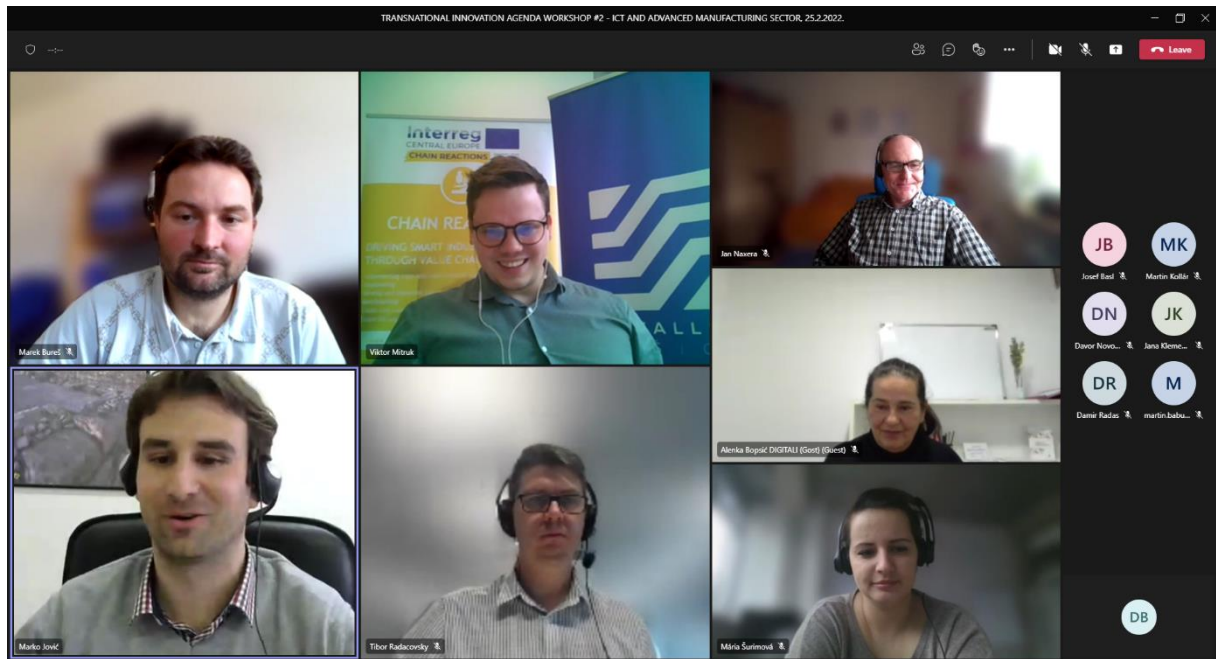
- >150 Wi-Fi spots (Zadar, islands and buses)
- > Average of over 5000 visitors daily



Prezi



CHAIN REACTIONS





3 ANNEX

Implementation of innovation actions	
Participants involved	Kosice IT Valley, GlobalLogic Slovakia Croatian Chamber of Economy - Zadar County Chamber DIGITALI
Name of TIA	<i>Trainings and seminars to encourage women in IT at the transnational level in Croatia and Slovakia.</i>
Description of TIA	<i>Our TIA focuses on supporting girls/women to study or work in the ICT sector. This action should tell us more of the status of the women in ICT sector in Slovakia and Croatia. In the workshop we have realised that we have similar issues. The action content of educational and inspirational workshops/webinars.</i>
- Expected impact	<i>Encourage women to study and work in IT. It will be also very important to exchange experience. Support of development of IT community.</i>
- Role of each participant	<i>Role of the participants are to organized workshops online/physical. To find a relevant speaker and promote it within their Network.</i>
- Timeframe	2023-2025
- Estimated costs	500 EUR
- Source of funding	Each partner provides 100%
- External needs	none
- Other	
FEASIBILITY	10 – very feasible

Implementation of innovation actions	
Participants involved	Kosice IT Valley, Stakeholders, IGAs members of Kosice IT Valley Croatian Chamber of Economy - Zadar County Chamber RDA
Name of TIA	<i>Series of networking events to help developed the transnational and crosssectoral relationships between Slovakia, Croatia and Czech republic.</i>
Description of TIA	<i>Series of networking events held Online/physical that will be present transnational partners and cross sectoral members of each cluster. The events should deepen the relationship between Slovak and Croatia SMEs.</i>
- Expected impact	<i>The impact of the activities should be deepen relationship amongst Slovak, Croatia and Czech republic SMEs, exchange of knowledge and creating positive transnational environment.</i>



CHAIN REACTIONS

- Role of each participant	<i>Role of the participants are to organize the event. Each partner should organized at least one event online/physical.</i>
- Timeframe	<i>2023-2025</i>
- Estimated costs	<i>1000 EUR</i>
- Source of funding	<i>Each partner provides 100%</i>
- External needs	<i>none</i>
- Other	
FEASIBILITY	8 – very feasible

Implementation of innovation actions	
Participants involved	Regional development agency of Pilsen region Kosice IT Valley, Croatian Chamber of Economy - Zadar County Chamber Kodium Pro Ltd. And other suitable companies fro the hackaton
Name of TIA	<i>Extension of virtual democentre</i>
Description of TIA	<i>The aim of this activity is to enrich the content of the virtual democentre, a web based platform for sharing the good practise examples of solutions for advanced manufacturing.</i>
- Expected impact	<i>The demonstrators are promoting utilisation of different techniques and technologies that can boost the digitisation activities in SMEs. On one hand the demonstrators can trigger the innovation activities in companies and on the other hand they can promote specific solution providers and theirs products or services.</i>
- Role of each participant	<i>The RDA is responsible for maintaining the virtual democentre platform and developing it. Other partners and theirs solution providers are responsible for preparation on the showcases and good practice examples.</i>
- Timeframe	<i>From 2022 ongoing activity</i>
- Estimated costs	<i>None. The cost for this activity is included in the normal operation of the partners.</i>
- Source of funding	<i>None</i>
- External needs	<i>None</i>
- Other	
FEASIBILITY	10 – very feasible