

RIS3 ROUND TABLES 1: MULTI-SECTORAL IN-REGION PILOT ACTIONS ON POLICY IMPLEMENTATION

D.T3.2.2 - RIS3 Round Tables 1:

Multi-sectoral in-region
pilot actions on policy
implementation

Final version
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„A projekt és a jelen dokumentum az Interreg Central Europe Programban megvalósuló CEUP2030 projektben, az Európai Unió és Magyarország társfinanszírozásával valósul meg.”

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Executive Summary

Project Overview

CEUP 2030 aims to generate stable innovation networks which foster better understanding on Central Europe Advanced Manufacturing and Industry 4.0 (“CAMI4.0”) topics, to generate improved knowledge resource exchange on these technologies leading to an upgraded framework for policy-making and implementation.

Ultimately CEUP 2030 creates and tests a common method to promote improved knowledge dissemination to policy-making stakeholders using a collaborative exchange framework based in physical and digital methods. These methods and the technology show-cases disseminated within these method structures are harvested from existing, high-quality innovation know-how in the CE area.

The project focuses on:

- Identifying the highest quality innovation know-how in the CE Area, on the CAMI4.0 Topics.
- Enhancing skills capabilities and knowledge of people in charge of local, regional, and (trans)national RTI Policies, associated to the CAMI4.0 Topics.
- Creating a sustainable structure for awareness raising and shared sustainable RTI knowledge resource use to enhance policy decision support.
- Anticipating and fast-tracking policy / strategy policy pilot actions to promote a joint RIS3 for CAMI4.0 Excellence in CE/EU.

Work Package and Activity Overview

The overall objective of WPT3 links to the project’s specific objective of anticipating and fast-tracking policy strategies focused on the sustainable and continuous development of CE/EU in order to promote aligned action on a joint S3/RIS3 for CAMI4.0 Excellence.

The challenge manifests in two sub-objectives which are:

- (1) To generate triple-helix stakeholder driven dialogue on support mechanisms for CAMI4.0 Excellence (via the RIS3 Round Tables)
- (2) To foster aligned cooperation processes among 30 CE/EU regions on generating support mechanism for CAMI4.0 using the CEUP 2030 Policy Framework

The specific activity which is of relevance for this document is Activity A.T3.2, which is connected to the Output / Output Indicator of the same name. This output describes the targeted regional and transnational workshops which occur in the second half of the project. The workshop structure builds on that which was delivered as part of the PLL (WPT1), along with further insights from PPs who have experience in generating forums for multi-lateral and transnational dialogue on the CAMI4.0 topics. However, instead of showcasing technology Use Cases, the workshops are:

- (1) primarily focused around a discussion of successful policy pilot instruments which have demonstrated “value” over this programming period
- (2) a playground where extrapolation on how these policy pilot instruments could be extended, adapted, and upgraded to promote enhanced value creation.

It should be goal of all PPs to keep a continuous dialogue “line” from the PLLs in WPT1 through to the RIS3 Round Tables, to move from tangible discussion about the technological benefits that key target groups can gain from onboarding technologies in their organization, to a discussion about how organizations (including RIS3 ministries and policy makers) can most optimally work together to expand the impact of policy instruments, so as to support the uptake of technologies, more broadly.



Scope of Document & Deliverable Summary

This document contains the partnership report on how regional RIS3 Roundtables have been completed in each region. The current report shall also point out the main feedbacks from the Associate Partners and Central Europe/European Union stakeholders in connection with the flagships defined by each PP in their regions.

- **RIS3 Round Table Meetings:** 1/PP region on AM&I4.0, integrating the CAMI4.0 topics, where each PP brings in lessons from WPT1, their chosen Use Cases, and the pool of identified policy pilot instruments to a structured discussion supported by RIS3 policy-makers in order to build the bridge to long term policy planning that creates value and enhance opportunities to promote uptake and adoption of advanced manufacturing and industry 4.0.

Audience

This document can be shared with public in order general public and stakeholders outside of the consortium might have the opportunity to read the conclusions of the RIS3 Regional Round tables as well as the feedbacks of stakeholders which might be beneficial to better implement the specific flagships, 2 defined by each PP.

Change Control Procedure & Structure

The Deliverable Responsible: Pannon Business Network (PBN/PP9), created this report document which is hosted on the Project's common repository in the appropriately named deliverable folder.

The document is under project deliverable change control protocols whereby partners are requested to give feedback on the draft version according to the timing proposed in the final section of this document. Feedback will be incorporated and the final version will be issued by PBN.

At any time, partners believe a project methodology should change, the request should be brought to the Deliverable Responsible and the Work Package Leader (PIA/PP3) to consolidate feedback from other partners, and then further integrate and disseminate the final agreed changes. A new version of the document should be created, and recorded in the document's "Document History" table.



Abbreviations

Abbreviation	Explanation
AF	Application Form
AM	Advanced Manufacturing
ASP	Associated Partner (i.e., Strategic Partner)
CAMI4.0	Central European Advance Manufacturing and Industry 4.0
I4.0	Industry 4.0
TIN	Trend and Innovation Network
PIF	Policy Implementation Framework
PLL	Policy Learning Lab
PP	Project Partner
RIS3	Regional Innovation Strategy for Smart Specialisation
RT	Round Table
S3	Smart Specialisation Strategy
eDIH	European Digital Innovation Hub
Use-Cases	Policy Instrument Use-Cases
Flagships	RIS3 Alignment Policy Pilot Project Flagships



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1. Introduction

The purpose of this report document is to provide information how D.T3.2.2 - “ Regional RIS3 Round Tables have been implemented and point out the main conclusions gained from these events. This activity is linked directly to the WPT3 Output of the same name

The current report shall also summarise the main feedbacks from the Associate Partners as well as Central European/European Union stakeholders/experts who were interviewed to discuss the flagship projects defined by PPs in each region.

This report describes the targeted regional workshops which occurred from September 2021 until February 2022 in the project, to build consensus over effective methods to promote the adoption and uptake of advanced manufacturing and industry 4.0 in select target groups. The workshop structure built on that which was delivered as part of the PLL (WPT1), along with further insights from PPs who have experience in generating forums for multi-lateral and transnational dialogue on the uptake and adoption of Central European Advanced Manufacturing and Industry 4.0 (CAMI4.0) topics. However, instead of showcasing technology Use Cases, the workshops are:

- (1) primarily focused around a discussion of successful policy pilot instruments which have demonstrated “value” over this programming period
- (2) a playground where extrapolation on how these policy pilot instruments could be extended, adapted, and upgraded to promote enhanced value creation.

The extrapolation should focus around the Partner’s ideated portfolio of Policy Instrument Use Case Portfolio (See WPT1 Output, Strategy & Action Plan for the consolidated view on the Portfolio & Chosen Challenges).

In particular, this partnership-level report takes the following structure:

Key Background Information - which provides:

- Definition of the RIS3 Round Table;
- Common goals
- Involved stakeholders;

Implementation, which provides

- Overview information of each PP (conducted interviews + implemented Round table)
- Summary of ASP interviews
- Summary of EU/CE interviews
- Summary of the Round table

Conclusions, which provide

- The main feedbacks of the ASP + EU/CE interviews
- The main outputs/results of the Round Tables

Annexes, which provide:

- Templates for RIS3 Round Table Reporting;
- Templates for EU/CE and ASP Stakeholder Interviews.



2. Key Background Information

The RIS3 Round Tables were designed and implemented with the intention to foster the implementation of the consortium's Regional RIS3 Alignment Instrument Pilot Project Flagships ("Flagships"). The RIS3 Round Table had a goal of optimizing CAMI4.0 policy engagement between Central European (and wider EU) regions, by identifying and upgrading the consortium's chosen Use Cases to Flagships.

Regional Research & Innovation Smart Specialisation Strategies (RIS3) emphasize multi-sectoral, multi-skilled collaboration of regional stakeholders to promote competitive advantage through aligned innovation strategies within European Territorial areas. Therefore, the key purpose of the RIS3 Round Tables were to balance a discussion on how the chosen Use Cases can create competitive advantage in each Partner's territorial eco-system and more broadly to Central Europe's Manufacturing eco-system.

This section provides further detail on the definition and background as well as the results of the RIS3 Round Table activity, along with information about the flow of activities between Work Packages.

2.1. Definition of and Background to the RIS3 Round Tables

In the structure of CEUP 2030, the RIS3 Round Tables look to build on key RIS3 principles associated to the topic of stakeholder engagement ([such as the entrepreneurial discovery process](#)) and co-creation/ communication to build an interactive environment where:

- (1) lessons learnt / good practices from successful use cases can be extrapolated into a Central European policy context;
- (2) the RIS3 policy pilot actions and flagship projects can be developed and submitted, to showcase a regional model for aligning policy support for CAMI4.0 value creation.

The goal of these efforts was inspiration and development. The Partners were analysing how their regional model of Policy Instrument Use Cases ("Use-Cases"), could deliver value-added benefit and competitive advantage. The Partnership was looking to extend, adapt and upgrade existing mechanisms to promote the adoption and uptake of Advanced Manufacturing and Industry 4.0 technology, through expert dialogue. The consortium used this forum to deliver precise recommendations (evidenced through demonstrable actions) to our policy-making stakeholders as to how these policy instruments could emerge in a wider territorial context. The RIS3 Round Tables acted as the catalyst for the recommendations which the partners bring together in the Policy Implementation Framework.

From a practical point of view the RIS3 Round Table was a series of workshops which were delivered by all PPs in each participating PP region (results are described in the current report) and further in 4 transnational settings (results are described in D.T3.2.3). These workshops had a thematic focus of promoting regional and transnational dialogue so as to better optimize implementation and capitalization of support mechanisms for CAMI4.0.

It was the goal of all PPs to keep a continuous dialogue "line" from the Policy-Learning Labs (PLLs) in WPT1 over the TTTDMs in WPT2 through to the RIS3 Round Tables in WPT3. The Partners were required to move from tangible discussion about the technological benefits that key target groups could gain from onboarding technologies in their organization, to a



discussion about how organizations (including RIS3 policy makers) can most optimally work together to expand the impact of policy instruments. This dialogue generated clear and tangible recommendations on how this activity (the appropriate implementation of the consortium's Use Cases), could lead to enhanced competitive advantage in Central Europe's manufacturing eco-system and support the uptake of technologies, more broadly. Regional R&I Smart Specialisation Strategies are a significant topic in Europe's innovation system, as a tool to promote competitive advantage. The European Green Deal, the Digital Europe Programme, and even the specific Interreg Central Europe programme for 2021 to 2027, all have a connection to regional, R&I Smart Specialisation. In fact, Interreg launched an entire priority dedicated to this concept in the next programming period, see: [New funding - Interreg \(interreg-central.eu\)](#), for more details. Therefore, it was enormously valuable for the consortium to be able to clearly explain the benefits of its model (the regional Pilot Flagships, and the aligned common Use Cases), at helping to deliver these programme's specific objectives.

However, since these Use Cases are being developed in the period "between" programmes, they are not always formulated as a best-fit for the challenge being tackled. Therefore, the Use Cases demonstrated a method and model to overcome a challenge in Central Europe's Manufacturing Sector, but there is still space for improvement to super-charge the uptake of the solution within the manufacturing innovation eco-system. These identified gaps are the perfect "research gaps" which EU policy-makers are seeking to solve.



2.2. Activity Flow

The flow of information from activity 3.2, can be viewed from two perspectives. The first is the information flow from outside of the work package, into the functioning activities across all of WPT3. This can be viewed in Figure 1. The first view showcases that the Partner’s Use Case Portfolio (which also emerged from PLL discussions) and the Partner’s TIN Technology Trend Dialogue Sessions, bring a framework of thinking into the final stage of the project. This focuses on specific manufacturing challenges and the specific model of targeted solution which can be operationalised to promote the uptake and adoption of advanced manufacturing and industry 4.0 technologies.

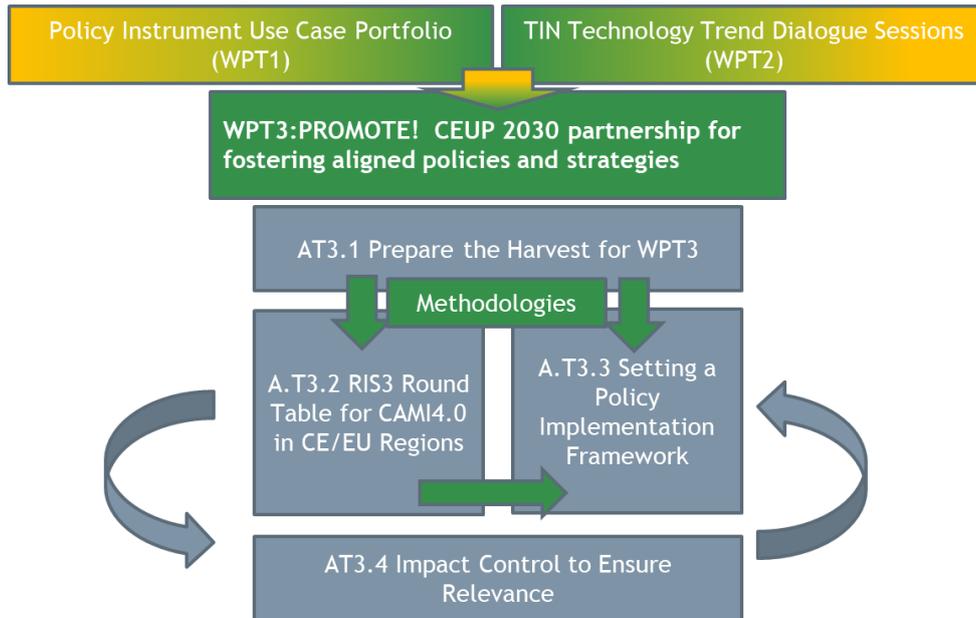


Figure 1 Flow of Activities in WPT3 (Source: D.T3.2.1 Guidance)

The second perspective is the flow within the specific activity 3.2, which is shown in Figure 2. Within this view one can see the hierarchy of deliverables in the activity. Of specific interest is that the coaching guidance sets the framework for operation of both Round Table workshop types, regional and transnational.

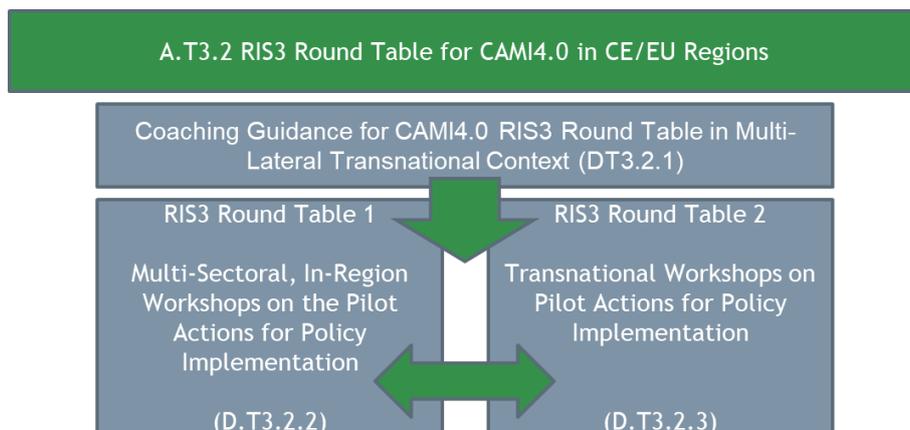


Figure 2 Activity Flow within AT3.2 (Source: D.T3.2.1 Guidance)



3. Methodology

This section summarises the insight on the applied methodology that the PPs followed in order to complete their Regional RIS3 Round Tables (D.T3.2.2) and deliver on the Output of the same name. To fulfil the Output, 14 round table workshop events (10 regional and 4 transnational) were implemented with a programme that engages with the “Policy Instrument Use Case Portfolios”, and were used to connect and deepen lessons learnt from earlier in the project (WPT1 and WPT2), and promote the exploitation and upgrading of Use Cases into the Regional RIS3 Alignment Instrument Pilot Project Flagships or “Flagships”.

In order to adapt the project to the uncertainty of COVID-19, a structure was recommended to promote the trust-building / consensus-building protocols in a series of pre-Round Table meetings. This shift in concept should enable the partners to deliver on the Project’s plan, whilst ensuring high-quality outcomes from a diversified audience. Due to this, consensus within the Partnership on the goals and common strategic steps are crucial to deliver a successful end to the CEUP 2030 project.



3.1. Common Goals

The goals of the RIS3 Round Table Workshops were threefold:

1. **Use Cases Dissemination**, informing key stakeholders about the CAMI4.0 Strategy, and accompanying Use Cases (specifically, those Use Cases which are chosen to become Flagships) which was chosen by your PP organisation.
2. **Use Cases Validation**, gaining feedback and recommendations from key stakeholders about the context of your Use Cases, the conclusions you made to choose the specific challenge-solution-instrument, and how to bolster the implementation of your Use Case (or bolster support for the challenge you have chosen to tackle).
3. **Use Cases Capitalisation**, gaining recommendations on which elements of the use case can be used as a base for further regional or transnational capitalisation and cooperation. What is specifically important in the context of CEUP 2030, is that capitalisation efforts intended to answer the questions:
 - a. “How can we make strategic influence on policies in Central Europe, through the utilization of Use Case actions?”
 - b. “How can we further expand the benefits of this specific Use Case, with tangible actions and enhance Central European competitive advantage (RIS3)?”

Similarly to other activities in CEUP 2030, the workshops were a balance between stakeholder engagement and data (recommendation) collection. Information from the workshop and pre-workshop steps, shapes the project’s final Output, the Policy Implementation Framework and sets the basis for common alignment on the topics of Advanced Manufacturing and Industry 4.0. It is also what creates the momentum to build your Use Cases into the two Regional RIS3 Alignment Instrument Pilot Project Flagships.

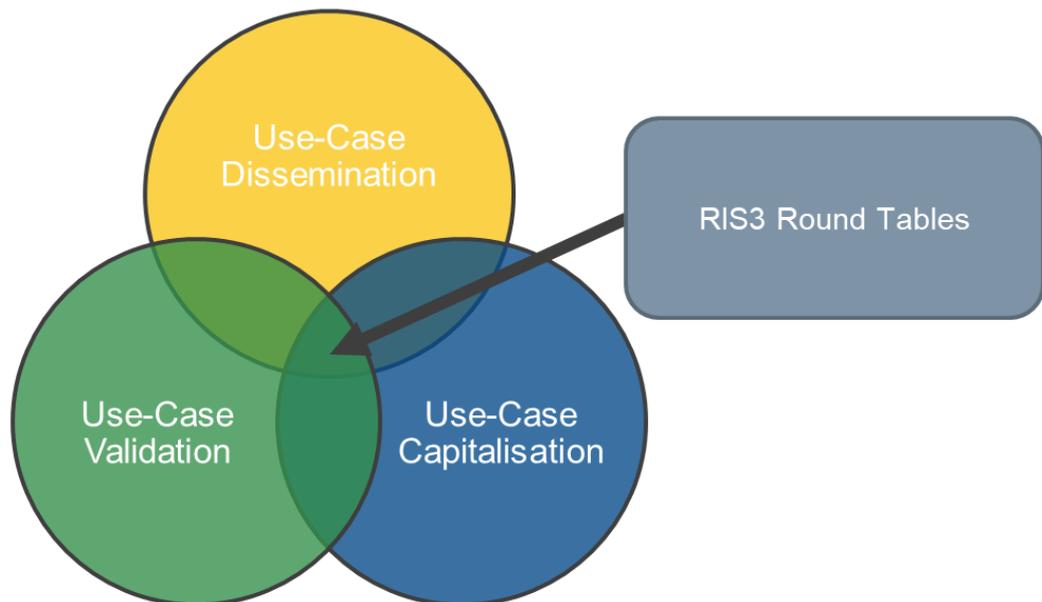


Figure 3 Goals of RIS3 Round Table, Visualised (Source: D.T3.2.1 Guidance)



3.2. Common Preparation Strategy

The hypothesis of this project output was that through RIS3 Round Table session (and the other discussions leading up to the Workshop), we could gain the appropriate recommendations to capitalize our Use Cases. Through this, we could ultimately improve the way in which the innovation eco-system supports the adoption and uptake of Industry 4.0 and Advanced Manufacturing with key stakeholders. We could also gain insight on potential synergies or collaborations which could strengthen the implementation of the Use Case. Significant preparation was required in order to make sure PPs were fostering the supportive stakeholder environment to build their Use Cases into regional Flagships and finding common ground for the Four Common Use Cases.

Figure 4 provides a visual representation of the inputs and outputs of the RIS3 Round Table. The session details the process that PPs followed to build up the appropriate building blocks for the RIS3 Round Table Workshops, mainly - the Use Case portfolio, expert insight on topic foresight, and Use Case impact controlling and validation discussions with triple-helix, ASP & select EU/CE stakeholders.

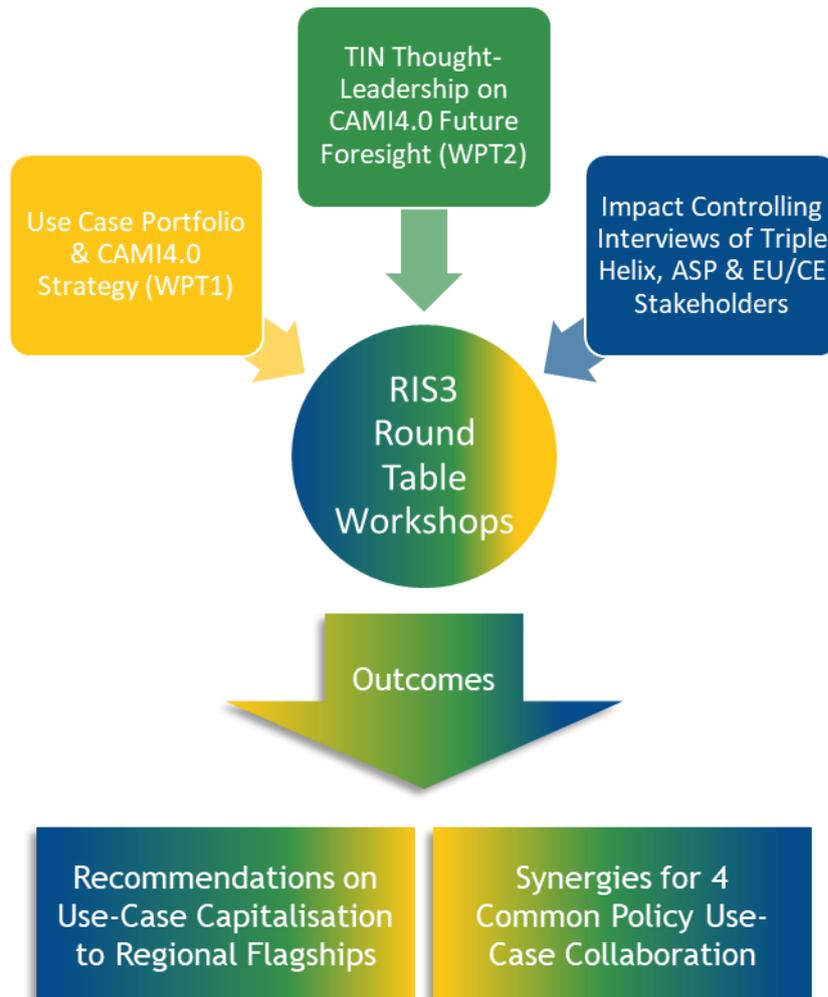


Figure 4 Inputs & Outputs of the RIS3 Round Tables, Visualised (Source: D.T3.2.1 Guidance document)



3.2.1. Use Case Portfolio

Each PP's Use Case Portfolio and CAMI4.0 Topic Strategy set the thematic basis of discussions in the RIS3 Round Table. **The goal was that the Partners refined their Use Cases within their Portfolio to foster two ideas further into regional Flagship Projects.**

For minimum 2 Use Cases, the PPs were asked to build further insight and further activity to move it from paper into action. Each Use Case was different, regarding the steps which needed to be taken to activate the idea.

3.2.2. Impact Controlling & Preparation Interviews for the Use Case

Impact Controlling Interviews were one of the most critical “pre-steps” to the RIS3 Round Tables. The subject was that interviewed stakeholder should be Triple-Helix Stakeholders, Associated Partners and Selected EU/CE Stakeholders of Critical Importance to the Implementation of the Use Case. These organisations are the knowledge suppliers/knowledge facilitators, knowledge receivers, and knowledge enablers who are critical to implementing the Use Cases' development. These interviews tried to help the partnership over-come the classic “virtual meeting” barrier, of generated real connection and understanding on the purpose of our capitalisation efforts. The use of the interviews was critical to promote common discussion on appropriate means of capitalisation, and should be a fundamental tool of moving your Use Case to a Flagship.

In the framework of the RIS3 Roundtable organisation, each partner was required to complete one set of impact (validation and capitalisation) interviews for each Use Case chosen to be advanced to Flagship stage (= 2 sets of interviews, totalling 6 to 8 interviews). Six of the interviews (the stakeholders who represent the suppliers, facilitators, receivers and enablers), took place as part of the Impact Controlling procedures (reported in A.T3.4).

The other two interviews took place as part of the RIS3 Round Table “pre-work”, and summarised in the current report. Clarification on the definition of appropriate EU/CE and Associated Partner interviews are further described in the following sub-sections.

3.2.2.1. EU/CE Interview

In the framework of D.T3.2.2. Partners were asked to reach out to a European stakeholder organisation (or official governing group, like a DG), to discuss the nature of their Use Case and also CEUP 2030's goal of bridging the programming periods to create additional value to policy building. The purpose of this interview was to build a connection between PPs' stakeholder community which was part of the Use Case's implementation and the “wider world” of EU subsidy- or strategy- support for the uptake of Industry 4.0 and Advanced Manufacturing. It was also used to help promoting PPs' discussions on common policy alignment which could be fostered between different regions (to further capitalise on PPs' Use Cases' benefits).

All PPs were asked to reflect on this interview as an important chance to market the extension of your Use Case or to promote acceptance of your Use Case. Therefore, the effort was made to create a quality connection which could advance their Use Case and create strong synergies with CEUP 2030.



3.2.2.2. Associated Partner Interview(s)

Associated Partners have been a key target group of our project, and it was essential that each Partner has been providing information to their Associated Partner about the current state of the project. However, in order to give all Partners a further motive to contact the associated Partner, it was requested to complete interview(s) with Associated Partners in order for them to understand the scope of work being completed and the scope of your Use Case. In return, during this dialogue, gain feedback on your Use Case, and ultimately use them as a tool to help capitalise on the concept you've created and make explicit the strategic benefit that your Use Case can bring to policy-making stakeholders!

Some PPs have multiple ASPs and we are asking for you to contact all of those who are associated to your organisation. However, an official project interview was only needed with one of the organisations which are your ASPs.

The minimum requirement was that the stakeholders were invited to attend the Round Table as guests, however it would have been optimal if the interviewed stakeholders had been asked to participate in the Round Table as speakers if it is deemed appropriate for the RIS3 Round Table specific subject matter.

Depending on the organisation/person that PPs connected with for these interviews, it was also beneficial to have the ASP and the EU/CE institution, participating in the Transnational Round Table (based on subject matter of the round table).



3.3. Common Implementation Strategy

In order to create a coordinated set of outcomes, it was recommended that a Common Implementation Strategy was followed for the 10 Regional RIS3 Round Tables. As highlighted in the introduction, the RIS3 Round Table had to build on the PLLs, and ultimately were playgrounds for ideas explored and developed with a diverse set of stakeholders with multi-sectoral backgrounds (triple-helix).

Interactive workshops focusing on active collaborative engagement were the key methodology sought for CEUP 2030's WPT3 which was looking to promote ideation and implementation. However, as mentioned earlier in the document, creating that interactive environment over online forums has been somewhat curtailed in COVID-19 Time. Therefore, it was recommended to take a balanced approach and promote a design which focuses on delivering high-quality thought-leadership and discussion on the Partnership's Use Cases, in the form of a facilitated panel. Common elements which should be included in these events, are detailed within this section.

3.3.1.1. Regional RIS3 Round Tables

What is it?

Each Partner was required to host one regional RIS3 Round Table event. The regional RIS3 Round Table was a facilitated panel event, online or physical, which took place to promote knowledge exchange and sharing over elements associated to one or more of a PP's chosen Use Cases. The original plan gave reference to discussing all four TIN topics within one event, however it was now recommended (upon advice from the information harvest from the Partners) that it was valuable to keep the event focused on one or two topics to allow appropriate capitalisation and dissemination of two Flagships.

Who participated?

The panellists were optimally, the stakeholders who were directly part of the Use Case or stakeholders who promoted a nuanced exchange of insight which could help capitalize the Partner's Use Case and the Use Case's key stakeholders.

Regarding attendees, the Regional Round Tables were supposed to be an event where PPs could optimise their target-group outreach. It was not necessary that the event was fully public, but inviting a wider audience was recommended to promote dissemination of information to those organisations which might benefit from the exchange.

On what did the panellists speak?

The panellists were asked for example to discuss the importance of aligned action on the CAMI4.0 topics for the coming programming period, as a way of strengthening research & innovation and building strategic change. Partners were required to utilise this panel to present and gain support and buy-in for the policy pilot action Use Cases (regional RIS3 alignment Use Cases and the common Use Case for each CAMI4.0 topic), in specific buy-in for utilizing policy instruments to achieve the goal of your Use-Case. In principle the event circulated around promoting aligned and intelligent use of research & innovation policy instruments, to promote uptake & adoption of Industry 4.0. Simultaneously, the event was also discussing (directly or indirectly) how to create strategic change through these actions.



It was understood that sometimes a direct Use Case presentation was not possible (for instance, due to protected IP on specific submitted projects), in this case PPs were requested to utilise an element of a selected Use Case as the basis for discussion.

What else is important?

It was also recommended, following the advice of the Partner Harvest, to include an interactive part with the Audience. If PPs were choosing to do this in person, because their territorial area and their organisation allows this with regards to COVID-19 measures, then it was recommended to take place in the form of open questions from the audience or even networking directly after the panel. If you are choosing to do this event virtually, then we recommend involving tools like Slido, Mentimeter or Kahoot during the panel to solicit targeted questions from the audience. After the virtual event, PPs could utilize tools like wonder.me, [Gather.town](https://gather.town), [Rally](https://rally.fun) , to promote virtual networking.

What is the recommended structure of the event?

One panellist can speak for 5 to 10 minutes on the Use Case or Use Case Element, bringing in their own expertise and perspective. After these impulse presentations, you (or a chosen external moderator) can facilitate the discussion between the panellists, to dive into the strategic relevance of solving these issues in Central Europe.

3.4. Common Reporting Strategy

As part of the CEUP 2030 standard operating procedure, Partners were asked to complete a common reporting strategy to allow straight-forward reporting on the deliverable reports which demonstrate the completion of these activities

The report provided clear insight on the state of implementation of the policy pilot actions, and the lessons and successes which could be capitalized from such a discussion-round to promote technology and policy dialogue.

The template was structured in a complementary way, to make reporting more straightforward to partners. Each Partner was requested to complete one template to evidence the completion of their Regional RIS3 Round Table.

The template asked Partners to provide basic data about their organisation, the subject focus of the Round Table, and the logistics of how and where the event was held.

The common template asked partners to clarify which of their key stakeholders attended as speakers or guests during the event. This was a critical thing to check, based on the need to demonstrate clear stakeholder outreach actions to try to capitalize on the chosen Use Cases to create strategic implications for the area of Industry 4.0 and Advanced Manufacturing in Central Europe.

A separate section in the template was dedicated for Partners to clarify the major objectives and outcomes of the RIS3 Round Table, with a specific emphasis on writing about the key lessons and recommendations gained in the process of capitalizing upon these Use Cases, and what were the specific opportunities which the pursuit of this Use Case could bring to strategic policy development on the topic of Industry 4.0 and Advanced Manufacturing.



Within the template for Regional RIS3 Round Tables, there was a focus on a Partner’s chosen Use Case(s). Partners were recommended to stay aligned to their Use Case, or an element of it (for example: the logical challenge which was causing the need for the Use Case to exist), to explore with their panel. Within the template, key questions were asked surrounding lessons learnt, recommendations, and critical next steps needed to capitalise on the Use Case. Furthermore, there was an explicit question surrounding the strategic benefit which could be provided to policy-makers, because of this Use Case. How can the Use Case create the biggest impact (strategically and operationally), within your territorial area?

The reporting support check list was a simple list of the additional evidence which Partners were asked to gather by nature of holding an event in CEUP 2030. The components were a simple reminder that each Partner needed to have evidence (photo, participant list, etc.), where and how and with whom the Regional Roundtables took place.

4. Delivery of the RIS3 Regional Round tables and the requested pre-interviews

4.1.PP1_Krakow Technology Park

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
16 th February 2022	Marshall Office of Malopolska Region	4 th November 2021	TNO, the Netherlands Organisation for applied scientific research	20 th December 2021

Flagships defined in the following CAMI topics:

- *Automation & Robotics* → *Hub4Industry eDIH project*: It is focusing on manufacturing SMEs from southern Poland
- *Advanced and Smart Materials* → *3DoP*: The project builds upon four ‘packages of investment projects’, aiming each to unlock large investments enabling the optimisation of production through AM and increase productivity.

*At KTP it should be noted that during their roundtables as well as their interviews they tackled with Automation & Robotics and Intelligent Production Systems topics, but in the final definition of their flagship, they finally decided to submit their flagships in the Automation & Robotics and *Advanced and Smart Materials CAMI4.0 topics*



Summary of the ASP interview

Use case validation and feedbacks

- *The eDIH use case is a direct response to the new concept of the European Commission in the field of Support Business Organisations.*
- *The Digital Innovation Hub of the Krakow Technology Park is the only one regional hub from Małopolska to be nominated for the EDIH rank.*
- *The use case is collaborating closely with regional authorities in order to align the activities and strategies. The goals and activities of use case are in line with the objectives of Regional Innovation Strategy for the Małopolska region.*
- *This use case implements the strategic goal defined in the Małopolska 2030 Development Strategy in the area of: II. Economy, Specific objective; Innovative and competitive economy*

Use Case capitalization

- *Economic effect / impact on the Małopolskie Voivodeship: the project is consistent with the strategic objectives of the Voivodeship, it implements the provisions of the Regional Innovation Strategy of the Małopolska Voivodeship 2030*
- *All the activities that have been conducted in the project are consistent and related to the smart specialisations of the Małopolska Region. The operation of the hub4industry received very positive reviews, and some of its services have been included in the new RSI. The actions in the CEUP2030 project are also consistent and can be combined with the Vanguard Initiative.*
- *By increasing the innovativeness of companies and develop the digitalisation processes it will definitely influence their competitiveness and position the European market. It will be a step towards internalisation and exporting the products and services.*
- *EDIH's activities correspond to the Green Deal policy and efforts to achieve energy transformation and ecological production activities in the region. Moreover, by focusing on services for companies, becomes a good source of access to entrepreneurs and information about their needs and challenges, and this knowledge can help CE regions to plan public policies and instruments of their implementation more effectively.*

Closing Remarks:

- *Continuation and emphasis on the implementation of activities that let regions learn from one another, exchange experiences, and present cases of financial instruments that work for them.*
- *Both project partners and associated partners can draw know-how and inspirations on the latest emerging studies, technologies, patents, products, services and cooperation models concerning the identified priority technology areas of the partnership, and look for new options of cooperation. To succeed, the access to this type of knowledge, based on the best practices, is of key importance.*

Summary of the EU/CE interview

Use case validation and feedbacks

- *The eDIH use case is a direct response to the new concept of the European Commission in the field of Support Business Organisations.*
- *The Digital Innovation Hub of the Krakow Technology Park is the only one regional hub from Małopolska to be nominated for the EDIH rank, until now it have been very active*



both at the regional and transnational level and has already interesting portfolio of services and supported companies.

- *Recognizing the importance of cooperation in supporting the digital transformation of the economy, TNO supports this initiative.*

Use Case Capitalisation

- *The EU representative sees great areas of cooperation with KPT's eDIH in terms of matchmaking partners along EU*
- *By increasing the innovativeness of companies and develop the digitalisation processes it will definitely influence their competitiveness and position the European market. It will be a step towards internalisation and exporting the products and services.*
- *EDIH's activities correspond to the Green Deal policy and efforts to achieve energy transformation and ecological production activities in the region. Moreover, by focusing on services for companies, becomes a good source of access to entrepreneurs and information about their needs and challenges, and this knowledge can help CE regions to plan public policies and instruments of their implementation more effectively.*

Closing remarks

- *Continuation and emphasis on the implementation of activities that let regions learn from one another, exchange experiences, and present cases of financial instruments that work for them.*

Summary of the Roundtable with evidences

Total Number of Attendees: 9	
<input type="checkbox"/> Local public authority	Total:
<input type="checkbox"/> Regional public authority	Total: 4
<input type="checkbox"/> National public authority	Total:
<input type="checkbox"/> Higher education and research	Total:
<input type="checkbox"/> Education/ Training Centre & Schools	Total:
<input type="checkbox"/> Large Enterprises	Total:
<input type="checkbox"/> SMEs	Total:
<input type="checkbox"/> Business Support Organizations	Total:5

Objectives, goals and outcomes of the Roundtable

- *The main goal of this session was to present and discuss with the representatives of policy makers at the regional level. The idea was to present the use-cases and flagships to be developed within the project and have a chance to update it with the comments and recommendations of the public authority representatives.*
- *From regional authorities and BSO perspective it is important to engage companies in participatory activities addressed to defining smart specializations of the region, as well as for identifying best effective tools and instruments to support them in digitalization*



- *It is important to adjust and tailor the supporting mechanism and financial instruments to company's needs, but also to simplify the procedures as much as possible to let companies concentrate on doing the business not filling complex documents, without any additional burdens*
- *To undertake effective digital transformation companies need professional support from the organisations like BSO or DIHs to advise them how to plan the transformation process, how and where to absorb funds for dedicated improvements in the company*
- *Business Supporting Organisations and dedicated DIHs - acting as intermediaries - are one of the key actors in co-creating and implementing the Regional Innovation Strategy and pushing digital transformation*
- *creating one common strategy for digital transformation on the European level is a challenge as it has to take into consideration varied interests and dominants of the regions and market based activities*
- *Thanks to exchanging knowledge and best practices and every day close cooperation with policy makers on regional level the discussion and project itself supported creation of direct and detailed recommendations for shaping and tailoring RIS3 to technological challenges of the future.*
- *The work proved to be very crucial for building success stories of cooperation among DIHs, business support organisation in the area of designing effective policy instruments*
- *Creating one common strategy for digital transformation on the European level is a challenge as it has to take into consideration varied interests and dominants of the regions and market based activities.*
- *The strength of cooperation depends on real involvement of policy influencing decision makers, companies, supporting organisations as BSO, and last but not least DIHs. Boosting regional smart specialisation through digital innovation hubs was possible thanks to deep understanding of mutual needs and binding regulations or procedures, technical requirements as well as availability of human resources and funding. It resulted in Malopolska with delivering a list of recommendations to Malopolska Regional Innovation Strategy based on lessons learnt and collected from companies during both projects.*
- *Strong tights between RIS3 actors and DIHs team are crucial for keeping Europe competitive and resilient to technology turbulences.*
- *The cooperation with regional authorities seems to be crucial in order to build effective policy instruments for supporting Industry 4.0 and advanced manufacturing development*



Materials of KTP's Roundtable

LISTA OBECNOŚCI

Miejsce: Krakowski Park Technologiczny sp. z o.o.
 Ul. Podole 60, 30-394 Kraków Data: 20.12.2021r.

Imię i nazwisko	Nazwa firmy	Podpis
ALEKSANDRA GABRIEL	KPT	Gabriel
AGNIESKA WIODA ROWNY-GRUBA	KPT	Agnieszka Gruba
Magdalena Maciejczyk-Gali	UMIPI	M.
Agnieszka Pals	lewa	[Signature]
Urszula Wójcicka	KPT	Wójcicka
MATEUSZ KOWACKI	KPT	[Signature]
Małgorzata Machalska	KPT	[Signature]



4.2.PP2_ Profactor

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
22 nd March 2022	AIT Austrian Institute of Technology GmbH	<ul style="list-style-type: none"> 2nd March 2022 7th March 2022 	<ul style="list-style-type: none"> GMAR Robotics Business Upper Austria 	21 st February 2022



Flagships defined in the following CAMI topics:

- *Intelligent Production Systems → Human Centered AI Based Production Optimization (HAIPrO)*
- *Automation and Robotics → CoRTeam → The project CoRTeam aims at implementing a reconfigurable framework to deploy and configure multiple collaborative teams of workers, robots and machines in manufacturing processes.*

Summary of the ASP interview

AIT Austrian Institute of Technology GmbH

The interview was conducted in a physical way, and mainly the Automation & Robotics use cases were discussed.

Use case validation and feedback:

- *main interests of the European Union, specifically for Automation and Robotics*
- *aligned with the AIT's role in Austria and Europe*
- *foster regional competitiveness of SMEs*
- *show the importance of cooperation between SMEs and intermediaries*
- *some of the results presented facilitate policy making and investments*

Use case capitalisation:

- *The functionality of “bridging the gap” between research and technology commercialization is a key aspect of developing new technologies and enabling an economic boom*
- *AIT fulfils this role by its new orientation, providing a research environment to help key industries facing mid- to long-term challenges.*
- *the “bridge” to the industry and first market reactions could be generated*
- *The benefits from taking up emerging technologies, first proof of concepts, applied research to transferring these emerging technologies into specific applications up to demonstrators and prototyping. This is aligned with the European Concepts.*
- *connect basic research and the usage of new technologies for the industry and thereby pave the way for commercialization.*

Closing remarks:

- *Data Sharing Economy*
- *Industry 5.0*

Summary of the EU/CE interview

Business Upper Austria (physical interview)

Use case validation:

- *Main interests of the uppersvision2030 project in Upper Austria, specifically their focus about the topics beyond the innovation such as the human-centered approaches and the aim to enforce and facilitate innovation processes perfectly meet the goal of uppersvision2030*



- *foster the competitiveness of SMEs within their specific markets*
- *facilitate policy making and investments*
- *they look behind the technical innovation and also deal with the human factor involved*

Use Case Capitalisation:

- *The project perfectly fits to the upper Austrian vision as it combines skilled workers, knowledge & technology for competitive advancement.*
- *In order to stand out in the face of global competition and make Upper Austria future-proof over the long term, it is necessary to project a uniform image of the future that can be flexibly adapted to new trends and developments. Exactly this aspect is tackled by the presented use cases.*
- *It aligns following aspects, the topic of the digital age, sustainable solutions, human-centered technology and new mobility.*
- *It has to be clear that the activity presented Common Policy Use Case has to be realized in a very user-friendly way so that time investments of companies are as small as possible.*

Closing remarks (Beyond the described Use Case, what are critical areas you'd recommend to assess in order to create specific, strategic support for advanced manufacturing and industry 4.0)

- *Data Sharing Economy*
- *Industry 5.0*
- *Human-Centered Technology*
- *New Mobility*
- *Circular Economy*
- *Zero Defect Manufacturing*

GMAR Robotics

Use case validation:

- *The described Use Cases show in particular the main interests of the European Union, specifically for Automation and Robotics. It shows the big variety this topic has within several different countries. Furthermore, the use cases show the importance of SMEs and intermediaries as cooperation between these two parties lead to competitiveness at the beginning.*
- *All of the provided Use Cases foster the competitiveness of SMEs within their specific markets. Furthermore, some of the results presented facilitate policy making and investments.*

Use Case Capitalisation:

- *Especially, focusing on the interconnection between the use cases it can be connected to the GMAR Events where several different stakeholders from the industries have the chance to transmit knowledge to the public.*
- *Through sharing data economy and life data generation this project could be extended to an additional dimension.*



- *The benefits from those activities are clear. Reduction of initial costs of investments, leading to the topic of “Test before invest”. Furthermore, it enhances the core activity of Central Europe’s policy connecting industries and business for enhancing the competitiveness.*
- *It has to be clear that the activity presented Common Policy Use Case has to be realized in a very user-friendly way so that time investments of companies are as small as possible.*

Closing remarks (Beyond the described Use Case, what are critical areas you’d recommend to assess in order to create specific, strategic support for advanced manufacturing and industry 4.0)

- *Data Sharing Economy*
- *Industry 5.0*

Summary of the Roundtable with evidences

<i>Total Number of Attendees 32</i>	
<input type="checkbox"/> Local public authority	<i>Total: 0</i>
<input type="checkbox"/> Regional public authority	<i>Total: 1</i>
<input type="checkbox"/> National public authority	<i>Total: 0</i>
<input type="checkbox"/> Higher education and research	<i>Total: 8</i>
<input type="checkbox"/> Education/ Training Centre & Schools	<i>Total: 0</i>
<input type="checkbox"/> Large Enterprises	<i>Total: 2</i>
<input type="checkbox"/> SMEs	<i>Total: 18</i>
<input type="checkbox"/> Business Support Organizations	<i>Total: 3</i>

Objectives, goals and outcomes of the Roundtable:

- *The objective of the roundtable was to educate people about relevant topics in the field of automation and robotics, to present the elaborated use cases in the TIN groups and to give an overview about the created Common Policy Use Case. Furthermore, it gave the opportunity to gather feedback on the Common Policy Use Cases.*

1. *Expert Speeches in the field of Automation and Robotics*
2. *Presentation of Use Cases*
3. *Presentation of Common Policy use Case*

In between the presentations short penal discussions with audience and experts were held.

- *In general the topics covered meet the field of Automation and Robotics very well. However, general feedback to the implementation of the use case has been given.*



- *The usability of the Common Policy Use Case has to be studied. Additionally, several companies have to contribute and dedicate them to cooperate in the Common Policy Use Case*

Materials of PRO's Roundtable



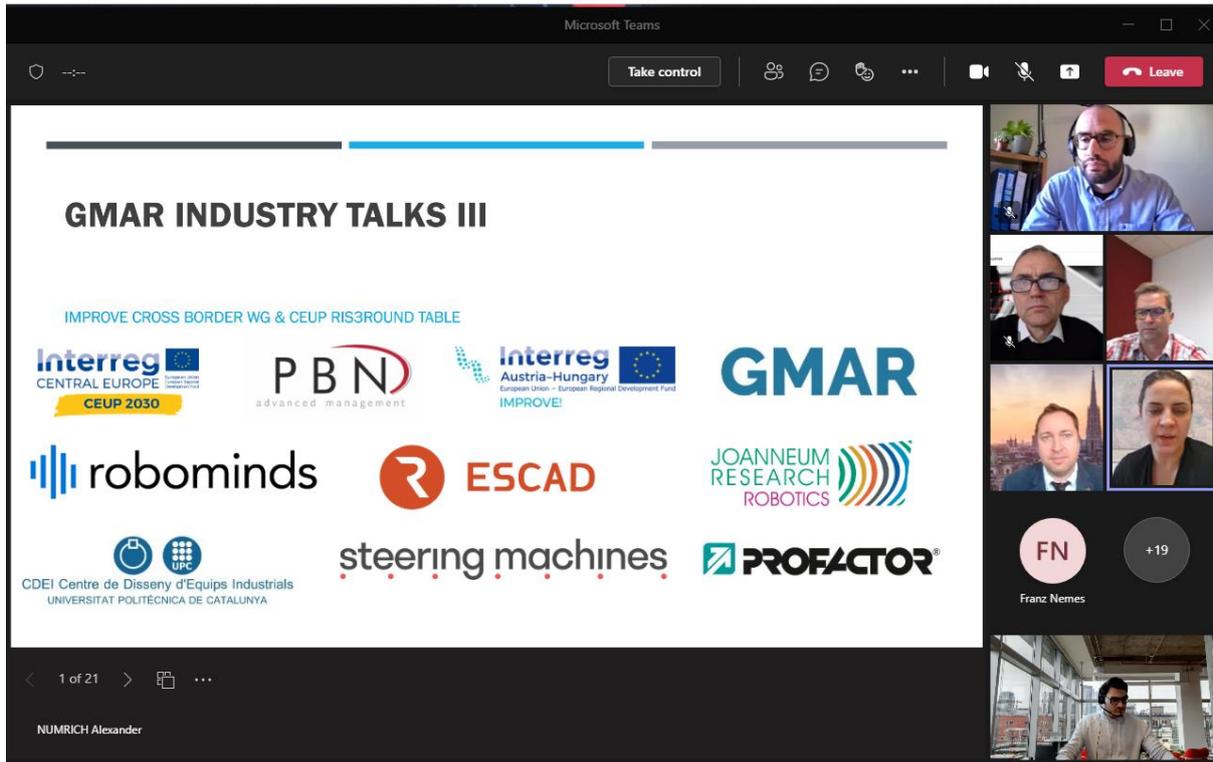
Ladies and Gentlemen,

CEUP2030 and GMAR are honored to invite you to the 3rd edition of the GMAR Industry Talks.

Once again we have prepared rather interesting talks! Participants are invited to exchange thoughts and ideas regarding various topics relating to Industry 4.0 & the field of Robotics.

We are looking forward to welcoming you at the GMAR Industry Talks:

When: 21.02.2022, 14:00-16:30Uhr
Where: Online
Sign up: <http://www.gmar.at/aktuell/>



4.3.PP3_ Association Industry 4.0 Austria

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
20 th October 2021	Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology	20 th October 2021	Interreg Office SK-AT	14 th January 2022

Flagships defined in the following CAMI topics:

- **Automation and Robotics** → Testbed Exchange → At academic institutions, so-called testbeds (in Austria called pilot factories) have emerged in recent years, which have both in-depth expertise and modern infrastructures. The aim of this project is to survey these testbeds and to create a sustainable network in which intensive communication, mutual learning and exchange of experience takes place.



- **Intelligent Production Systems** → Share4.0 - SK-AT → Share 4.0 implements current needs of the target groups as well as strategic documents in a practicable way and forces cooperation potentials through a distinctive transfer for high-quality implementations and new forms of cooperation.

Summary of the ASP interview

Use Case Validation & Feedback:

- *It is necessary to deepen the exchange on the content of Industry 4.0, in the political and in the operative realm.*
- *For striving in a global economy, it is necessary to work together, to have an exchange of information and knowledge, to work collaboratively on standards etc. - all of that needs strong and active relationships, the project needs to facilitate that.*
- *The Use Case can add value through building the preconditions for collaboration and mutual understanding.*

Use Case Capitalisation:

- *The exchange on the operative field, like in the project, can be an addition and stepping stone for that, it is necessary for the big picture.*
- *Collaboration can consist of common expert networks, of learning with and from each other, of organizing mutual events or of building standards together.*
- *Through standardization European competitiveness can be improved and Europe as a whole can be strengthened.*
- *Common activities and actions could lead to the improvement of bilateral policy making. In addition to the current setup, it could make sense to include actors from federal states (e.g., Austrian “Standortagenturen”).*

Closing remarks:

- *Data management and Artificial Intelligence (AI) are becoming more important. In those fields, there are interesting questions to be answered, for instance, when it comes to different languages (German and Slovak as an alternative language to English).*

Summary of the EU/CE interview

Use Case Validation & Feedback:

- *The most important thing was that you bring an extensive network of players of both sides of the border. On both sides, there are valuable strategic, financial and regulatory partners.*
- *Take MoUs seriously and use the project not only to deliver papers but as a process for collaboration - if you find out that something is different, then use it as an opportunity for deepening the cooperation (new topics, new areas of cooperation...)*
- *If you want to succeed in our program, it is less about the technical issues but more about cooperation and partnership. The political aspect of the project (strategic political partners) is important, as maybe decision making can be influenced in order to make manufacturing (funding...) a priority.*

Use Case Capitalisation:

- *SHARE 4.0 fits in the priority of the program which should promote the region.*
- *Part of the project is going to factories to develop innovation - maybe this part can be expanded, if you manage to connect with the relevant institutes and organizations in order to promote the results, that could be great. To replicate the pilot projects for example.*



- *Perhaps the pilot projects and the working groups - perhaps the working of the platforms that will be established can be used and help to formulate joint positions for the European level.*
- *Involvement of policy makers in order to increase knowledge.*

Closing remarks:

- *No answer*

Summary of the Roundtable with evidences

Total Number of Attendees: 64

<input type="checkbox"/> Local public authority	Total: 0
<input checked="" type="checkbox"/> Regional public authority	Total: 4
<input checked="" type="checkbox"/> National public authority	Total: 10
<input checked="" type="checkbox"/> Higher education and research	Total: 10
<input checked="" type="checkbox"/> Education/ Training Centre & Schools	Total: 1
<input checked="" type="checkbox"/> Large Enterprises	Total: 22
<input checked="" type="checkbox"/> SMEs	Total: 7
<input checked="" type="checkbox"/> Business Support Organizations	Total: 8
<input checked="" type="checkbox"/> Unknown (anonymous participants)	Total: 2

Objective and goal and outcomes of the RIS3 round table

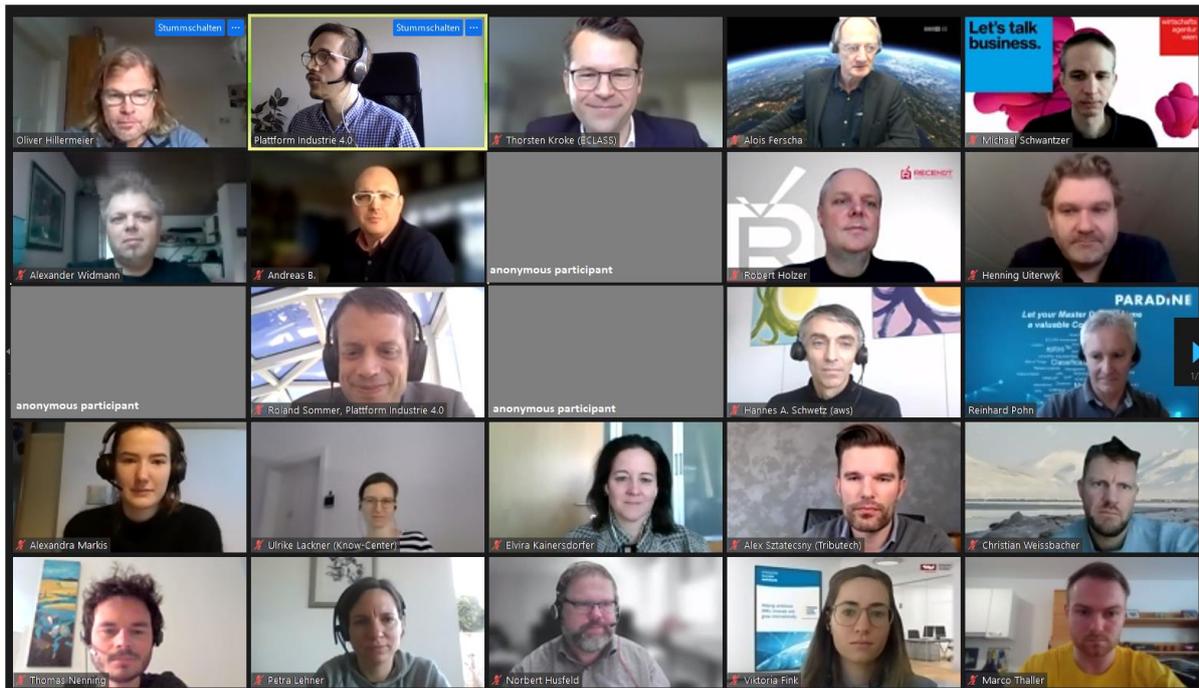
- *The goal of the RIS3 Round Table was to create awareness on the topic and show its importance from different perspectives to relevant stakeholders.*
- *For both PIA flagship projects, the topic is important, as cross-company and cross-country collaboration relies on common standards of communication and interaction.*
- *Many different aspects of the CAMI 4.0 topics rely on data. Especially for SMEs it is most necessary to get started collecting and analyzing data. Regarding the CEUP 2030 flagships, master data management is a topic that will be discussed among the Testbed Exchange and when it comes to the Austrian-Slovakian collaboration of SHARE 4.0. Awareness of the ECLASS standard will help to accelerate the conversations and the collaboration. In order to reap the benefits of technology for the green transformation, it is necessary to look at the basics - one of which is master data management.*
- *The RIS3 Round Table highlighted the potential leverage point of master data management for both use cases (flagships) of PIA regarding CEUP 2030.*
- *The discussion raised the awareness for the role of standardization and semantics when talking about CAMI 4.0 topics. This awareness will help to shape both use cases (flagships).*

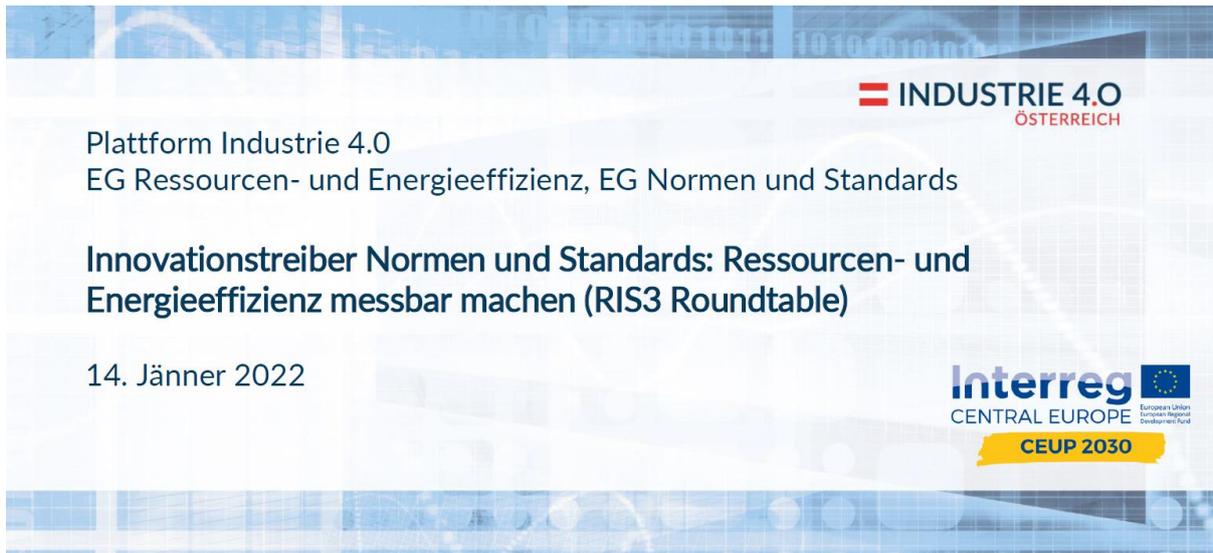


Materials of PIA's Roundtable



- › 10:00 | Begrüßung, Update Plattform Industrie 4.0 und Interreg-CE-Projekt CEUP 2030
- › **Input 1** | Oliver Hillermeier, Standard Achitect IoT / Industry 4.0 bei SAP
Vorstellung von ECLASS als offener und industrieller Standard für Produktbeschreibungen, Erweiterungen rund um Industrie 4.0 und im Nachhaltigkeitsbereich (z.B. CO2-Fußabdruck)
- › **Input 2** | Reinhard Pohn, Managing Director bei Paradine
Master Data Management in der Praxis: Beispiele für das Stammdatenmanagement (z.B. mit Hilfe der Verwaltungsschale, AAS)
- › **Input 3** | Thorsten Kroke, Managing Director bei ECLASS/BCON2 und Frank Jankowiak, CAX-Engineering Data for eBusiness bei SIEMENS
„Product Environmental Footprint“ (PEF) und „Product Carbon Footprint“ (PCF) am konkreten Beispiel eines elektrischen Schaltschranks
- › gegen 11:30 | Ende der Veranstaltung



INDUSTRIE 4.0
ÖSTERREICH

Plattform Industrie 4.0
EG Ressourcen- und Energieeffizienz, EG Normen und Standards

Innovationstreiber Normen und Standards: Ressourcen- und Energieeffizienz messbar machen (RIS3 Roundtable)

14. Jänner 2022

Interreg 
CENTRAL EUROPE European Union
European Regional
Development Fund
CEUP 2030

4.4.PP4_ Fraunhofer IWU

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
1 st November 2021	Saxon State Ministry for Economic Affairs, Labour and Transport	2 nd November 2021	VDI/VDE	2 nd November 2021

Flagships defined in the following CAMI topics:

- **Intelligent Production Systems** → *Smart Circuit: The project tries to establish service corridors to promote sustainable transition in industrial production facilitated through digitally enabled technologies. The project tries to reduce implementation barriers and upgrade the production of sustainable products.*
- **Smart and Advanced Materials** → *STEPUP smart³: It is the purpose of the project to further develop the services and USPs for companies in the region. The overall goal should be to increase the number of the memberships in smart³ network and of cooperations/cooperation projects to boost the impact of the smart materials community.*

Summary of the ASP interview

Use Case Validation & Feedback

- *Both are relevant topics which we highly encourage to continue.*



- *Smart materials science and also sustainability / circular economy issues are trend topics in Europe. It will upstream and bundle the activities to a certain extend.*

Use Case Capitalisation

- *Our region, Germany and also Central Europe will certainly benefit from aligned actions as they will have more power to develop and sustain.*
- *I believe the actions fit well and are aligned with the upcoming funding programs and support through policy.*

Closing remarks

- *not specified*

Summary of the EU/CE interview

Use Case Validation & Feedback

- *Both are very relevant topics in the future. It is important to stimulate the “finding of surprise partners” and the fostering of serendipity through exchange formats like workshops, trade fairs and the like.*
- *The use cases strengthen the regional and national ecosystems and target relevant topics on national and European level.*

Use Case Capitalisation

- *It is helpful when networks come into contact with each other, may it be regarding smart materials or other technological areas. There are potential European cooperation clusters like the advanced materials cluster in Catalonia, Spain or Denmark or Kujawsko-pomorskie Poland. There are also international programs like “Eurocluster” from the European Commission which support joint cluster initiatives.*
- *In both projects networks of project partners or the smart³ network respectively are formed/strengthened. Multipliers would be helpful to enrich the respective networks and bring in new partners and interested parties.*
- *The region, Germany and also Central Europe will certainly benefit from aligned actions as they will have more power to develop and sustain.*
- *The actions fit well, received positive feedback and are aligned with the upcoming funding programs.*

Closing remarks

- *The commitment and active involvement of network actors should be increased. Working groups will form the key element of future innovation activities. Those groups will also sustainably accelerate internationalization.*

Summary of the Roundtable with evidences

Total Number of Attendees: 12

<input type="checkbox"/> Local public authority	Total: XX
<input type="checkbox"/> Regional public authority	Total: XX
X National public authority	Total: 3
X Higher education and research	Total: 3



- Education/ Training Centre & Schools *Total: XX*
- Large Enterprises *Total: XX*
- SMEs *Total: 3*
- Business Support Organizations *Total: 3*

Objective and goal and outcome of the RIS3 Roundtable event

- *The regional round table in Berlin was aimed at presenting upcoming service offers for the smart³ network members. Along with this came the discussion about flagship use cases. The event was held in cooperation with experts from the program “go-cluster” and the smart³ consortium. The main goal was to raise awareness, mobilize for the use case project and create first touchpoints for the new projects and tasks.*
- *We reinforced the knowledge that it is highly important to involve the future participants early in the process. The main lessons learnt was that. Otherwise, the “change” comes too sudden and the added value is maybe not seen by all the members. It was recommended from SME participants to adjust the wording of some concepts to increase the openness for the new format.*
- *The exchange and connection to the representatives of policy makers in the German Ministries could be strengthened. This is a valuable approach to the policy making players. Better ways of addressing reflections and learnings from the funding programs can be born.*
- *The Regional RIS3 Round Table was held together with the TTTDM for smart materials. To facilitate discussion a live event was highly necessary for our stakeholders and as TTDMs and regional round tables present close connections, we used to opportunity to present trends and smart materials topics (TTDM) and discussed the use cases. Topics of circular economy, sustainability and trends popped of in the discussion, too, even though the focus was on smart materials.*

Materials of IWU’s Roundtable





Strategie-Workshop smart³, 02. November 2021

Name	First Name	Institution	Signature
Hiepe	Hans-Peter	BMBF	
Schickelant	Jörg	Schickelant GmbH	
SCHICKELANTZ	KARL-TOBIAS	SCHICKELANTZ GmbH	
Weber	Martin	DIALOG	
Peters	Sascha	HAUTE INNOVATION	
Meind	Frithjof	smart ³ e.v.	F. Meind
Bach	Jochen	smart ³ ev	J. Bach
Brühwig	Mattes	Fraunhofer IPA	
Nöge	Leucas	VDI/VDE	L. Nöge
Tatu	Diana	VDI/VDE	D. Tatu
Drosel	Welf-Juntram	Fraunhofer IPA	
Salomon	Laura	Fraunhofer IPA	



4.5.PP5_ Karlsruhe Institute of Technology

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
7 th January 2022	Cluster Microtec Südwest	7 th December 2021	Steinbeis Europa Zentrum / Vanguard Initiative	26 th January 2022

Flagships defined in the following CAMI topics:

- **Intelligent Production Systems** → NEXT4FUN (Next Generation InkJet-based Process Chain for 3D/4D Multi-material Functional Printing)
- **Automation and Robotics** → BIOSAM (Biologicalisation for Sustainable Advanced Manufacturing)

Summary of the ASP interview

Use case validation and feedback

- 3D/4D ink jet printing interesting topic; good approach of combining existing knowledge from printing technologies & Analytics with novel technologies or applications
- Selected use cases/produced demonstrators will be essential in determining the success of the project and should therefore be carefully selected;
- Use case has specific research focus and will thus contribute to pushing the state-of-art in the investigated technology areas
- Research findings can be of interest to be shared via the Microtec Südwest network and maybe generate interest within the network to follow up on the new developments

Use Case Capitalisation:

- Research topics addressed are of interest to the expert groups coordinated by the cluster Microtec Südwest;
- Approach and outcomes can be presented and shared during the expert group meetings with interested participants
- Cluster communication channels can be employed to share the results with the wider network (multiplier effect)
- As the project is targeting early stage researchers/PhD students, the annual (scientific-oriented) cluster conference offers a good presentation platform to showcase the students' findings and get valuable feedback from experts & interact in particular with the scientific community in particular in BaWü
- Connect the cluster members to the other Eu partners of the consortium for potential new collaborations
- Besides dissemination of project findings to these stakeholders & expert groups (i.e. function printing and smart systems), new industry users / associated industry partners could be acquired that can get involved in the ongoing project activities for



- implementation in industrial context, offering possibilities for PhD secondments or participating in the training activities offered to the PhD students*
- *Better dissemination and exploitation of the scientific findings*
 - *Connecting to regional networks in particular with industry will allow for better uptake of innovation approaches / generate incentives to restructure existing production / innovation procedures*
 - *Will strengthen the regional networks and generate new collaboration opportunities with the project consortium*
 - *Direct access to highly trained and specialized workforce (potential new employees)*
 - *Promoting project results to policy makers important to structure next funding opportunities*
 - *Dissemination strategy should also involve parliament representatives as they are the ones agreeing on the budgets and need to be made aware of the needs of the community / importance of complex topics that usually require expert background*
 - *dissemination material needs to be tailored to the needs of the respective stakeholder groups (i.e. scientists, vs. policy makers / members of parliament)*
 - *“Storytelling for the public / policy-influences / scientists etc.*

Closing remarks

With regards to implementation of Industry4.0 / digitization, SMEs are still way behind in implementing these concepts in their daily business / big backlogs to overcome

- *Majority of current hot topics (fully digital production, IoT/Big Data etc.) is too advanced / too far away from the status that the SMEs are currently in*
- *Approach with small steps would be preferred to foster the integration, knowledge update and transformation process towards fully I4.0 companies*
- *Sustainability, climate change and circular economy are current big topics that need to be addressed in parallel to the digital transformation process in order to stay competitive in the future*
- *Activities should promote change of mindsets towards circular/sustainability thinking in particular in traditional industry sectors such as the manufacturing industry*

Summary of the EU/CE interview

Use Case Validation and feedback

- *Biologicalisation in manufacturing and sustainability are hot topics currently addressed in national and EU funding initiatives*
- *Horizontal approach for combining these different aspects similar to what the new EU funding program is trying to achieve & is fostering information exchange between different scientific communities*
- *Tech transfer towards industry as main important factor is addressing current needs of the EU manufacturing eco-system; expanding the associated partner network with more industrial partners from Eastern EU countries would be beneficial to foster both tech transfer across borders and organizations;*
- *Connecting to existing networking initiatives on EU & regional level (Made-in-Europe, Vanguard etc.) can help to better disseminate project activities and outcomes of best-practice examples to sensitize policy representatives towards the project goals and achievements.*
- *Making use of exiting networks will also foster uptake of project results for various industrial stakeholders showcasing the benefits of being part of EU initiatives on different levels.*



Use Case Capitalisation

- *Aligning the activities with different regional & EU networks to foster dissemination, uptake of new concepts & developments plus acquiring new (industrial) end-users via the concept of associated partners;*
- *Best practice success stories can be used as showcases to demonstrate benefits for industrial partners of being part of national/transnational projects (R&D, innovation actions etc.)*
- *Connecting activities to overarching networks (Made-in-Europe, EEN, Vanguard) can support communication & dissemination to a broader scale & reach representative on EU and regional level;*
- *Greater dissemination potential, increasing chances of best practice success stories to reach more policy-relevant people;*
- *transport the idea of horizontal research approach to regional levels: currently horizontal approach is being fostered on EU level but not on many national levels /national research programs*
- *Fostering tech transfer via educational approach could be good example to follow up*

Closing remarks

- *Dissemination in context of EU projects often limited to what was planned in the proposal and may not be fitting to relevant stakeholder groups*
- *dissemination usually stops at the end of the project when most results are done → loss of exploitation & communication potential to relevant stakeholders due to lack of existing funding*
- *Create new approaches concepts on how to hand over results from ending to running/beginning project or initiatives for continuous result exploitation*

Summary of the Roundtable with evidences

Total number of attendees: 14

Local public authority	Total: XX
<input type="checkbox"/> Regional public authority	Total: XX
<input type="checkbox"/> National public authority	Total: XX
<input type="checkbox"/> Higher education and research	Total: 5
<input type="checkbox"/> Education/ Training Centre & Schools	Total: XX
<input type="checkbox"/> Large Enterprises	Total: 3
<input type="checkbox"/> SMEs	Total: 3
<input type="checkbox"/> Business Support Organizations	Total: 3

Objective, goal and outcome of the RIS3 ROUND TABLE

- *Facilitate discussion with triple helix stakeholders on relevant aspect of the 2 KIT use cases “knowledge and technology transfer between research & industry - what is the current status, challenges and opportunities for the future in particular for SMEs; discussion round as exchange format for the triple helix stakeholders to update the participants on existing formats (networks to connect), supporting offers for SMEs, identifying necessary steps to foster innovation via KTT and highlight areas that are needed to keep companies in Germany competitive*
- *Collaboration projects are the most used way in particular for SMEs to get access to research knowledge and concrete problem solutions of the individual companies; in case*



of highly disruptive new technologies (novel type of inkjet printheads for highly viscous materials), search for strategic partners can be difficult as companies are facing the hen-egg problem; financing and getting adequate personnel is also an incentive to participate in collaborative projects as SMEs don't have the resources for dedicated big research teams (compared to large industry); also search for competent partners not easy - this needs lots of time invest that might not be feasible for SMEs; funding landscape on regional / national and EU level is complex but hard to get an overview even for experienced organizations; here support is needed to provided easy access in simple format to illustrate potential collaboration/ funding opportunities for the different organizations.

- Direct transfer & application of research results into industrial application process foster efficiency and uptake of new concepts; Created knowledge and real-life application experience provide best-practice examples for bigger networks, also promoting new technologies developed within the companies to other users.
- Connecting to SMEs via collaborative projects will help the SMEs tackle the current challenges of implementing novel concepts from Industry4.0 or sustainability in their daily work life, adjusting and transforming existing production processes;

Materials of KIT's roundtable


Karlsruhe Institute of Technology



CEUP 2030 RIS3 Round Table Workshop

"Wissens- und Technologie Transfer zwischen Forschung und Industrie/KMUs"

26.01.2022

Das CE Interreg Projekt CEUP 2030 lädt am 26. Januar 2022 zum nächsten Online Workshop **"Wissens- und Technologie Transfer zwischen Forschung und Industrie/KMUs - Möglichkeiten und Ansätze"** im Themenkomplex **Additive Fertigung / Industrie4.0** ein. Der Workshop richtet sich an Vertreter von politischen Organisationen, Hochschulen und Forschung, KMUs, Großunternehmen, Wirtschaftsförderungsorganisationen interessiert an der Stärkung der regionalen Innovation und Kooperation

Der Workshop bietet eine Übersicht zu den CEUP2030 Projektergebnissen und Entwicklung von Fallbeispielen für das Trend & Innovation Netzwerkes **"Intelligente Produktionssysteme"**

„Wissens- und Technologie Transfer zwischen Forschung und Industrie/ KMUs - wo stehen wir und welche (neuen) Möglichkeiten gibt es“ der zentrale Fokus der Podiumsdiskussion von Akteuren aus Forschung, Industrie, Netzwerken und Politikgestaltung

Im Rahmen des Projektes werden zudem **verwandte Projekte** zum Themenkomplex Wissens- und Technologie Transfer vorgestellt bzw. ein Einblick in das Leistungsspektrum des **KIT Innovations- und Relationsmanagement** gegeben


KRAKOW TECHNOLOGY PARK


PBN advanced management


Fraunhofer IWU


Karlsruhe Institute of Technology


HAMAG BIORO


Pamurje TECHNOLOGY PARK


Siit


AFIL


PROFACTOR


INDUSTRIE 4.0 AUSTRIA



4.6. PP6_ Lombardy Intelligent Factory Association

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
20 th October 2021	Intelligent Factory Cluster	18 th January 2022	Polymeris - Vanguard demo-case coordinator	9 th November 2021

Flagships defined in the following CAMI topics:

- *Smart and Advanced Materials* → Strategic Community on Advanced Materials
- *Artificial Intelligence* → AI Roadmap

Summary of the ASP interview

Use case Validation and feedbacks

- *The creation of an AI Roadmap should highlight the research and innovation peculiarities of Lombardy region to foster the adoption of industrial applications of AI considering either hard or soft perspective. The main challenge will be the rationalization of all the inputs to ensure a balanced and well-representative overview.*
- *The formation of a Strategic Community dedicated to Advanced Polymers should aggregate a heterogeneous group of regional stakeholders dealing with the topic, being representative of the entire value-chain. The main challenge relies in properly representing each step of the value chain.*



- *Both activities are synergic with Cluster Fabbrica Intelligente for the scale-up of local R&I priorities and needs to national level.*
- *Both use-cases are important to create collaborative networks, to share contacts and to promote synergies at regional, national, and European level. They also allow the mapping of real industrial needs and priorities, to align and support innovation actions.*

Use Case Capitalisation

- *Cluster Fabbrica Intelligente deals with the same topics of AFIL, but at national level. Therefore, both use-cases are aligned with CFI activities. They are relevant for the identification and transfer of local/regional priorities into the Roadmapping activities carried out at national level, particularly considering the leading role of Lombardy within the Italian industrial ecosystem.*
- *All roadmap should be shared with all the relevant stakeholders and updated regularly, enriching the input data with additional industrial sectors and regional key players.*
- *The formation of a Strategic Community dedicated to Advanced Polymers should be continuously animated to attract new stakeholders. The meetings and related activities should be interactive (e.g. workshops) to allow the active participation and contribution of representative stakeholders, balancing the needs and priorities of the entire value-chain.*
- *The sharing of best practices with less mature and developed regions to support their development and innovation.*
- *The replication of adopted methodologies and tools in the different regions, according to each local peculiarities.*
- *All roadmap should be shared with all the relevant stakeholders within Lombardy institutions, particularly with regional policy maker.*
- *The role of the Strategic Community dedicated to Advanced Polymers should be to collect and map needs and priorities of regional stakeholders, that then will be translated into Road mapping activities.*

Closing remarks

- *Lots of strategic and critical topics are currently addressed by Cluster Fabbrica Intelligente activities, namely cybersecurity, value-chain integration through digital platforms, Circular Economy challenges and solutions, etc.*
- *The main challenge is to make them available, easily understandable and usable for the SMEs.*

Summary of the EU/CE interview

Use Case Validation and feedback

- *The development of the regional Strategic Community on Advanced Polymers represents an interesting activity. In particular, Advanced Materials are a key topic addressed at European level in different calls and policy tools at different level.*
- *The main recommendation for the development of the use-case is to promote the complementarity of the activities, working to make aware the other countries/regions on the different ongoing initiatives. The collaboration is Strategic, as the Community should be, and promote the progress and the competitiveness of Europe.*
- *The added value of the development of a regional Community on Advanced Polymers is the strengthening of Europe competitiveness, limiting the dependence to foreign resources (e.g. products coming from China or India) and being more resilient and*



reactive in case of emergency closures, such as the ones related to Covid pandemic situation.

- *Furthermore, the analysis of economic and industrial feasibility of biopolymers in the European regions could allow the reduction of environmental impact of this product. This is sustainable to be produced directly in Europe.*

Use Case Capitalisation

- *The “Advanced Polymers” Strategic Community is perfectly aligned to Polymeris activities, in particular related to Vanguard Initiative. Polymeris coordinates the “Polymer-based functional products” demo-case within the “Efficient and Sustainable Manufacturing” Pilot. The Smart Plastic Hub successfully submitted a TAF to receive a consultancy on the development of a business model for a platform to collect and offer innovative services related to advanced polymers.*
- *It is fundamental a constant and bilateral interactions with policy makers, who support the topic through the definition of grants and funding resources connected to the thematic area.*
- *It is important also to reach out a significant number of industrial stakeholders, involving large, medium, and small enterprises.*
- *Expanding the action is essential to have a significant impact at European level. Lots of regional and local networks and ongoing communities should be connected to promote synergies and collaborations.*
- *To be effective and to increase the competitiveness promoting the involvement of all the relevant actors, it is important the clarity of the objectives and the expected results of this type of activities.*
- *The development of the “Advanced Polymers” Strategic Community could promote the support to stakeholders at policy level, if there is a continuous and bilateral cooperation with institutions and policy makers. The community should involve policy representatives in its events and activities, promoting strategic discussions on the topic.*

Closing Remarks

- *The consideration of eco-design topics is recommended not only in terms of sustainable manufacturing, but also focused on the produced materials and products.*
- *The results of this activity and all the next steps of AFIL use-case could be very interesting, so it is recommended a good dissemination of the results. Furthermore, it could fit the activities within Vanguard Initiative, so when the Strategic Community is consolidated it could be easily integrated in the Smart plastic Hub.*

Summary of the Roundtable with evidences

Total Number of Attendees: 22

<input type="checkbox"/> Local public authority	<i>Total: 0</i>
<input type="checkbox"/> Regional public authority	<i>Total: 0</i>
<input type="checkbox"/> National public authority	<i>Total: 0</i>
<input checked="" type="checkbox"/> Higher education and research	<i>Total: 13</i>
<input type="checkbox"/> Education/ Training Centre & Schools	<i>Total: 0</i>
<input checked="" type="checkbox"/> Large Enterprises	<i>Total: 4</i>
<input checked="" type="checkbox"/> SMEs	<i>Total: 3</i>



X Business Support
Organizations

Total: 2

OBJECTIVE GOAL AND OUTCOME OF THE RIS3 ROUND TABLE

- *The main goal of RIS3 Round Table is to support the development and implementation of a Strategic Community on “Advanced Polymers” to strengthen a regional network on Smart Material topics, still not fully exploited. According to this, the Round Table gives the opportunity to collect feedbacks from the existing and well-consolidated Strategic Communities, together with a clear explanations of SC objectives, structure, expected outputs and benefits. AFIL supports all the activities and next steps, allowing also international visibility to increase Lombardy competitiveness on the topic. Within the AI Strategic Community, also the AI Roadmap has been discussed, highlighting its potentialities, benefits and limitations. Also in this case, feedbacks from the Circular Economy Roadmap developed and accepted by Regione Lombardia in 2020 has been collected and shared.*
- *The RIS3 Round Table represented a very fruitful event, where AFIL collected specific feedbacks for the implementation of its flagships. The activities performed in these years from most mature Strategic Communities allow to collect different lesson learnt to be implemented in the new “Advanced Polymer” SC, as well as the previous Circular Economy Roadmap adopted by Regione Lombardia acts as basis for the development of the AI Roadmap.*
- *The main lesson learnt are: i) the importance to exploit the current industrial interest in order to have motivated stakeholders representing the value-chain and easily involving their partners in the activities, ii) the possibility to diversify the activities according to the maturity of the community, starting mapping the capabilities and expertise, identifying needs and priorities, preparing and submitting projects at national and EU levels leveraging on Vanguard Initiative and other partnerships, and finally transforming these results in strategic documents such as Roadmaps to be implemented at institutional level, iii) the careful planning of steps to achieve all the different expected results.*
- *The final objective of AFIL Strategic Communities is the definition of innovation contents and priorities in the specific Specialization area to represent the industrial needs towards the institutions. The AI Roadmap is already an advanced step in this direction, while the rising “Advanced Polymers” Strategic Community is a first step of a long journey aimed at influencing future policy actions on the topic. During the RIS3 Round Table discussion, AFIL confirmed the commitment of Regione Lombardia for the AI Roadmap and presented the previous successful Roadmap on Circular Economy that has been adopted in 2020 and is now integrated in the regional policies. Furthermore, the Strategic Community of “Advanced Polymers” discussed the possibility to be integrated within Vanguard Initiative and all the connected actions that represent a direct connection with European Commission initiative (i.e. I3 call).*
- *The discussion during the RIS3 Round Table highlighted the necessity to define a clear planning for the next activities, following a step-by-step path to start, aggregate and strengthen the Strategic Community. The contact and discussion with the institutions for the implementation of concrete actions, in fact, is possible only after the definition of projects and priorities collecting and representing the main actors of the whole regional value-chain. So, during the event, the Strategic Communities coordinators clarified their innovation ideas and, on the other side, received clear indications on how to do that and what are the expected results at the end of the journey.*



- *The next steps for the development of “Advanced Polymers” Strategic Community are:*
 - *The definition of a governance, where one academic and one industrial coordinator lead the actions*
 - *The planning of events to raise a critical mass of interested stakeholders*
 - *The creation of a structured list of participants and of a mission of the Strategic Community*
 - *The definition of specific development projects on the identified interests and priorities*
- *The next steps for the AI Roadmap, instead, are the inclusion of the missing sectors and the preparation of a first draft for Lombardy Region within the end of 2021.*

Materials of AFIL’s Roundtable



AFIL
L o m b a r d i a

Il Consiglio Tecnico Scientifico di AFIL
incontra le Strategic Communities
9 Novembre 2021

LE STRATEGIC COMMUNITIES DI AFIL
DEFINIZIONE, OBIETTIVO E PERCORSO

09 Novembre 2021
Consiglio Tecnico Scientifico e Consiglio Direttivo AFIL

Regione Lombardia
Cluster Tecnologici Lombardi

Inferico®
intelligenza
Socio Ordinario



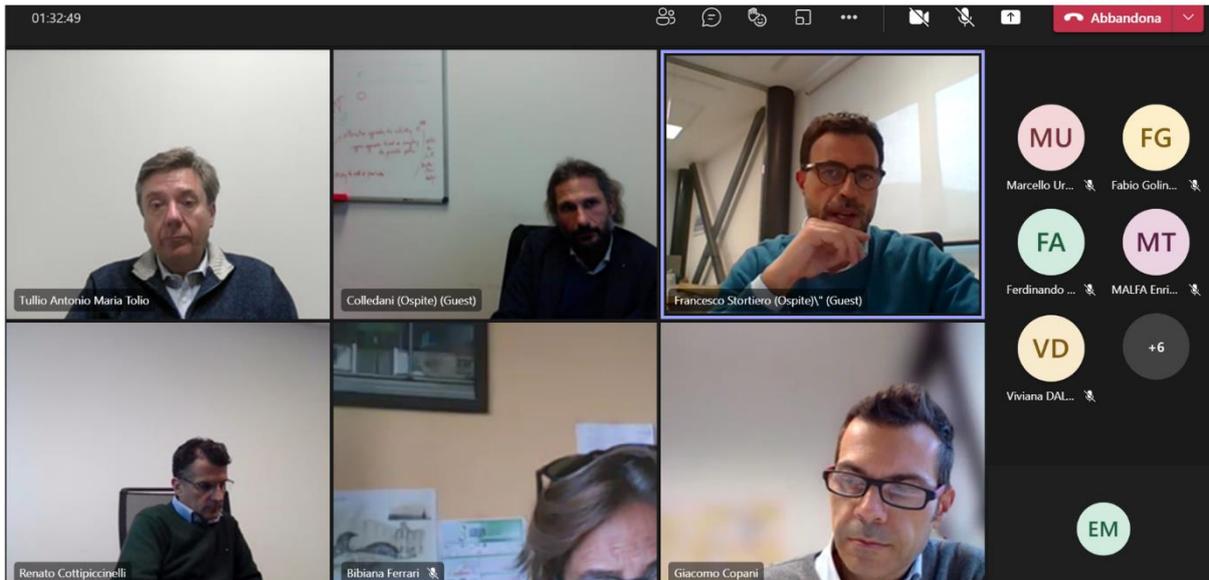
IL COMITATO TECNICO-SCIENTIFICO DI AFIL INCONTRA LE STRATEGIC COMMUNITIES

9 NOVEMBRE 2021
 14:30 – 16.00

Virtual meeting

AGENDA

- 14:30-14:35** Benvenuto ed introduzione
Giacomo Copani, Cluster Manager AFIL
- 14:35-15:00** Le Strategic Communities di AFIL: definizione, obiettivo e percorso
Tullio Tolio, Comitato Tecnico-Scientifico di AFIL
- 15:00-15:15** Q&A
- 15:15-16:00** Giro di tavolo delle Strategic Communities
Coordinatori o gruppi di coordinamento delle Strategic Communities: "Circular Economy", "Additive Manufacturing", "Artificial Intelligence", "Advanced Polymer", "Secure and Sustainable Food Manufacturing", "Smart Components"
- 16:00** Wrap up e chiusura del meeting





4.7. PP7_ Intelligent Integrated Systems Technologies

Overview

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
10 th November 2021	DIH Liguria	10 th December 2021	EU Commission	11 th November 2021

Flagships defined in the following CAMI topics:

- Smart and Advanced Materials → EU-ALLIANCE: European ALLiance for International business development on Advanced materials and coNnectivity for defenCe and sEcurity markets
- Artificial Intelligence → FORGING: *Forum for Emerging Enabling Technologies in Support to the Digital and Green Transitions through Value Sensitive Innovations*

Summary of the ASP interview

Use Case Validation & Feedback

- *The approach designed by the EU-ALLIANCE use case seeks to ensure strong synergies between cluster and SME policy support programmes from DG GROW and KET policies supported by DG Research and Innovation and play a key role in supporting the European growth and competitiveness agenda by providing SMEs with the qualified networks, tools and support to deliver their products and services at an international level.*

Use Case capitalization

- *Having a common strategy mean that everyone is working toward the same goal, making it easier to reach.*

Remarks:

- *Training, awareness raising activities.*

Summary of the EU/CE interview

Use Case Validation & Feedback

- *The topic is very challenging.*
- *If realized skillfully, it would have the potential of improving the value of European landscape*

Use Case capitalization

- *It would improve the audience knowledge on potentially relevant technologies and their impacts.*



- *Involve the stakeholders business organization, local, national and regional policy makers.*

Remarks:

- Robotic manipulation

Summary of the Roundtable with evidences

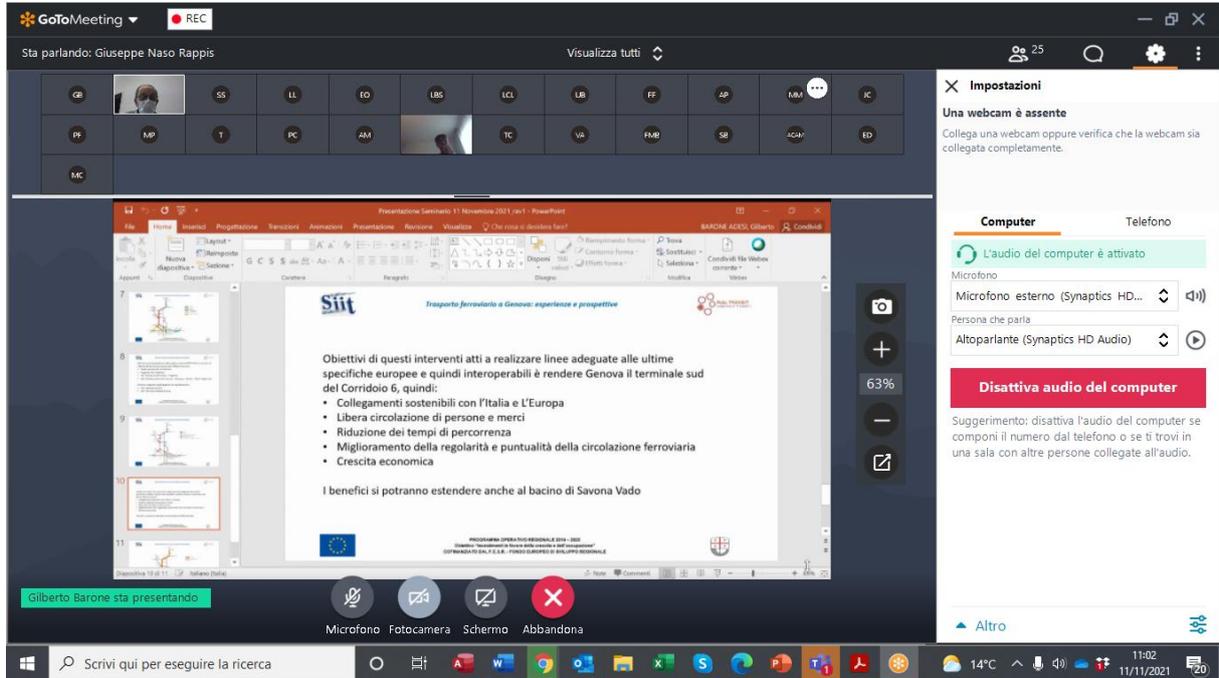
Total Number of Attendees: 27	
<input type="checkbox"/> Local public authority	<i>Total: 2</i>
<input type="checkbox"/> Regional public authority	<i>Total: 2</i>
<input type="checkbox"/> National public authority	<i>Total: 1</i>
<input type="checkbox"/> Higher education and research	<i>Total: 5</i>
<input type="checkbox"/> Education/ Training Centre & Schools	<i>Total: /</i>
<input type="checkbox"/> Large Enterprises	<i>Total: 3</i>
<input type="checkbox"/> SMEs	<i>Total: 11</i>
<input type="checkbox"/> Business Support Organizations	<i>Total: 3</i>

Objective, goals and outcomes of the round table

- *Assess and revise the latest activities of the cluster in CAMI4.0 topics and explanation of the flagships.*
- *Both the flagships were deemed relevant for the region. EU-ALLIANCE dues its relevancy to the possibility of enlarging market outside of Italy and Europe and to its strong focus on Defence and Security (two topics that are key for SIIT members and SMEs). FORGING, being under evaluation, has the potential of bringing breakthrough and cutting-edge technologies closer to the region.*
- *Both flagships have the potential of key breakthrough both at market level and at technological level.*
- *Thanks to the possibility of analyzing through the FORGING technology radar and EU-ALLIANCE third-countries market analysis what is the future of manufacturing worldwide.*
- *For FORGING is the knowledge of already having a small group of interested participants. For EU-ALLIANCE was the chance of sharing a preview of the call for expression of interest for third countries mission organized by the project.*



Materials of SIIT's round table



Seminario TRANSIT

11 novembre 2021 - h. 10.00 – 12.30

Agenda – Speakers

- Impatti dall'entrata in esercizio del 3.o Valico – Fabio Capocaccia (IIC)
- Integrazione fra le reti ferroviarie portuale e nazionale – Francesca Pino (AdSP-MLO)
- Interventi specifici delle Aziende del Polo:
 - Gilberto Barone (Hitachi Rail)
 - Umberto Battista (Stam)
 - Jacopo Callà (JP Droni)
 - Ennio Ottaviani (On Air)
 - Paolo Cesario (SI Consulting)
 - Luciano Luna (Elecom)
 - Massimo Massa (Aitek)
 - Veronica Asta (Circle)
 - Franco Borasi (TEA)
- Discussion



4.8. PP8_ Pomurje Technology Park

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
12 th January 2022	Government Office for Development and European Cohesion Policy	The same interview as ASP,	The same interview as ASP,	23 rd November 2021

Flagships defined in the following CAMI topics:

- *Intelligent Production Systems* → Rising competences in less developed regions focused on small scale food product & service providers through new transnational mentoring services
- *Smart and Advanced Materials* → GREEN 4.0 Smart and green innovation approaches for scaling up digital transformation opportunities in CE

Summary of the ASP interview

Use Case Validation and feedback

- *The case represents the future of manufacturing industry after digitization being implemented. Not only internal logistics, but also stock of raw materials, production through put as well as end product logistics are subject of support by autonomous vehicles, delivering components and tools to working stations. The process is completely controlled and gives real time feedback for decision making.*
- *We see support of measures introducing autonomous vehicles just as one type of digital transition, either coming form national or even more from transnational funding schemes, so here also Interreg CE could contribute with several topics being emphasized for raising awareness and alignment of national politics towards EU Commission.*

Use Case Capitalisation

- *We see the attempt of such transnational projects in double role - once, it brings insights to other countries good practices, that we could use in Slovenia and on the other we share our experiences on the other side, e.g. at lower level, project partners in such EU co-financed project establish a good platform for quick learning and exchange of initiatives worth being supported by national policies and RIS3/4 documents.*
- *A CE region gives “push” to joint efforts and supports cross-border cooperation, not only on political, but also industry level, where concrete vertical supply chains can be fostered and where all regions could gain of value-added products/services.*
- *In this concrete case it is fostered that formed partnerships in IPS (Automation and Robotics) coming form different regions will have extra benefits at ranking, e.g.*



additional point for qualifying for grants, and this is a concrete stimulation for partnerships cross-border and concrete transfer of knowledge.

Closing Remarks

- *The limited funds available, next administrative criteria (eligibility issues, still differences in understanding the size of SME), covid situation and prolonged activities to perform, more of so-called Cascade funded options would help to do the digital transition in more “speedy way”, still needs of policy stakeholders to be more aware of real needs and potentials around the globe.*

Summary of the EU/CE interview

- *In PTP’ case the ASP can be considered an EU/CE representative as well, so no separate interview has been conducted*

Summary of the Roundtable with evidences

Total Number of Attendees: 8	
<input type="checkbox"/> Local public authority	Total: 0
<input type="checkbox"/> Regional public authority	Total: 0
<input checked="" type="checkbox"/> National public authority	Total: 2
<input type="checkbox"/> Higher education and research	Total: 0
<input type="checkbox"/> Education/ Training Centre & Schools	Total: 0
<input type="checkbox"/> Large Enterprises	Total: 0
<input checked="" type="checkbox"/> SMEs	Total: 2
<input checked="" type="checkbox"/> Business Support Organizations	Total: 4
<input type="checkbox"/> Unknown (anonymous participants)	Total: 0

Objectives, goals and outcomes of the Roundtable

- *In the Pomurje technology park, we organized a roundtable, which was attended by the Minister for Digital Transformation Mark Boris Andrijanič. On the roundtable, we presented key development projects in the field of digital transformation and industry 4.0 of the company in Pomurje. Companies from the Pomurje Technology Park, AviRings and Castoola, also participated in the roundtable and have presented challenges of companies in the Pomurje region in transition to Industry 4.0.*
- *The goal of the RIS3 Round Table was to present the identified problems faced by Pomurje companies in the transition to Industry 4.0 and proposing suggestions on how to make transition to digital transformation smoother and reduce the gap between developed and underdeveloped regions in Slovenia.*
- *Topics highlighted on the round table:*
 - *- de minimis, which restricts development companies-*



- *Prototyping voucher intended only for companies up to 5 years of age, eligibility of the company for only one voucher*
- *infrastructure grants (hardware) as a basis for the introduction of digitization processes*
- *There was an exchange of views and improved contacts between companies, BSO and representatives of ministries. We also made the decision-makers aware of what should be taken into account when preparing the future instruments and policies in the field of digitalization and Industry 4.0.*
- *Spread the offer and new cooperation possibilities in the network of companies, beyond only participating ones in the meeting. Increase connectivity between Ministry level and industrial actors e.g. companies (getting familiar with companies' needs).*
- *The round table served as opportunity for decision makers to get familiar with in-field challenges of industrial players, especially which are causing gaps and slower implementation of digitalization in industry.*

Materials of PTP's roundtable





Castoola+
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Smo podjetje, ki se ukvarja z razvojem tehnologije za ciljano TV oglaševanje.

Naš produkt je **platforma za ciljano TV oglaševanje**, ki se povezuje z **različnimi TV okolji** in tako televizijskim hišam, operaterjem in OTT platformam omogoča **digitalen način merljivega in ciljanega oglaševanja**.

O podjetju Castoola



Podjetje za pospeševanje podjetništva v Pomurju

Marjetka Jakob, vodja start up inkubacijskega centra



4.9. PP9_ Pannon Business Network

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
13 th September 2021	Vas County Authority	15 th September 2021	EIT Manufacturing	14 th September 2021

Flagships defined in the following CAMI topics:

- *Artificial Intelligence → Establishment and development of a smart senior room*
- *Intelligent Production Systems → Purchase of autonomous production line (Teaching and Learning Factory) and smart material board and further developments*

Summary of the ASP interview

Use Case Validation and feedback

- *The project is compatible with the recently approved (September 2021) local strategy, called SZOMBATHELY2030 since it supports the industrial transformation for existing companies and it is also building common inclusive research and test infrastructure to facilitate synergies. Vas County Authority advocates the flagship project of the SZOMBATHELY2030 Strategy including the purchase and further developments in connection with the autonomous production line*
- *The Szombathely2030 Strategic Program clearly defines complex rehabilitation as main objective/focus of the city/region.*
- *The indicated flagship projects of the SZOMBATHELY2030 Strategy (including the TLF as well) is going to strengthen R&D and education to increase added value*
- *In the framework of the establishment/development of the smart senior room, senior households will be involved to enable testing in valid living environment so called living lab. Based on the smart devices different data can be monitored in real-time manner, and based on the data and their correlation, AI related, predictive measures might be recommended to the patients.*

Use case capitalisation

- *The TLF and smart material board implementation and activities might contribute to the following priorities. (CE priorities are listed)*
 - *Priority 1 - Cooperating for a smarter central Europe*
 - *In some extents the flagship is also contributing to Priority 2*
- *The physical smart senior room being established, can serve as a potential vision for the citizens and inspiration for companies. The advanced data analysis to be carried out, might be also utilised in e.g: health-related companies, but also companies*



- *The flagships also correspond with the main priorities of the EU level Programmes like Digital Europe and the upcoming calls in the Interreg Programmes.*

Closing remarks

- *The continuous awareness-raising and innovation solution training (e.g in connection with the TLF and smart material board) might be beneficial for the companies to gain competitive-advantage.*
- *The second use case consists the utilization of data and the significance of advanced data analysis needs to be promoted among different stakeholders.*

Summary of the EU/CE interview

Use case validation and feedback

- *PBN is the representative of EIT Manufacturing Hub Hungary, so the planned developments/flagships can be considered common/mutual benefits*
- *The indicated flagship projects are going to strengthen R&D and education to increase added value.*
- *The TLF shall integrate different Industry 4.0 solutions in one manufacturing demonstration line. It has to be able to demonstrate on site the automated production and remote access.*
- *Regarding the smart material board, for a comprehensive view of the effects, the relevant parameters current temperature and resistance are optically displayed on the board*

Use Case Capitalisation

- *EIT Manufacturing brings together a growing network of top-tier industrial partners, leading academic and research institutions from across the region and innovative startups, scaleups and SMEs. These players will be able to benefit from the teaching and learning factory and smart material board applications.*
- *The activities of the flagships are totally in line with the EIT Manufacturing activities, and the developments within the flagship project might be utilised by EIT as well.*
- *With our partners, our network and our ecosystem, we bring together leading manufacturing actors from industry, academia and research across Europe to make innovation happen. Consequently, the results of the TLF/smart material board flagship can be considered a good practice for other countries, who might also adapt the achievements and policy level strategies might be also influenced.*

Closing remarks and feedbacks

- *Continuous awareness-raising and innovation solution trainings, international networks and know-how exchange might be beneficial for the companies to gain competitive-advantage. These would be also useful for policy makers to elaborate the policy-level materials accordingly.*



Summary of the Roundtable with evidences

Total Number of Attendees: 10	
<input type="checkbox"/> Local public authority	<i>Total: 4</i>
<input type="checkbox"/> Regional public authority	<i>Total: 0</i>
<input type="checkbox"/> National public authority	<i>Total: 0</i>
<input type="checkbox"/> Higher education and research	<i>Total: 4</i>
<input type="checkbox"/> Education/ Training Centre & Schools	<i>Total: 0</i>
<input type="checkbox"/> Large Enterprises	<i>Total: 1</i>
<input type="checkbox"/> SMEs	<i>Total: 0</i>
<input type="checkbox"/> Business Support Organizations	<i>Total: 1</i>

Objectives, goals and outcomes of the Roundtable

- *PBN representatives discussed the main project result with the stakeholders, (political+ company and higher education ones too). The main topics were the planned implementation and developments in connection with the smart senior room and teaching and learning factory unit, complemented with smart material board.*
- *The two defined flagship projects of the CEUP are also indicated as planned projects in the newly (Sept 2021) adopted local strategy- SZOMBATHELY 2030 as well.*
- *The event turned out to be successful and fruitful, since different interesting and beneficial ideas have been discussed. Participants agreed that the approval of the SZOMBATHELY2030 Strategy can be considered a milestone on local level, since it consists several projects including the ones defined as flagships in CEUP. We are also convinced that the building of the ecosystem (local and international) was crucial to move forward to the next steps. Attendees also agreed that these projects are in line with the stakeholder needs' both on health and manufacturing areas. Creating networks and internationalization, knowledge transfer have been mentioned as significant elements in flagship implementation.*
- *Due to several conversations (including this one) with the local/regional policy makers are getting more and more acquainted with industry4.0 terms, definitions and its significance in the region. As a result, the upcoming policies might be influenced utilizing the information gained in the meeting.*
- *The participant stakeholders were really supportive, and advocate the implementation of both flagship projects. They also emphasized that they will contact further, relevant stakeholders in connection with the flagships. Similar discussion will be held on a regular basis to check the status quo of the SZOMBATHELY2030 projects including the ones defined as flagships in CEUP.*



Materials of PBN's Roundtable



SZOMBATHELY2030 Programban lévő projektek fejleményei, következő lépések

2021. szeptember 14.

10:00-12:00

Szombathely, Városháza, illetve online

Program:

10:00-10:05	Érkezés, Köszöntés
10:00-10:20	A SZOMBATHELY2030 Program elvégzett tevékenységei- PBN
10:20-10:40	A SZOMBATHELY2030 Program és a releváns PBN projektek kapcsolódási pontjai-PBN
10:40-11:00	Résztevők észrevételei, hozzászólások
11:00-11:10	Szünet
11:10-11:30	<u>Teaching and Learning Factory</u> koncepció, illetve a tervezett beszerzés bemutatása- PBN
11:30-11:50	Az intelligens idős otthon szoba koncepció, illetve a tervezett beszerzés bemutatása- PBN
11:50-12:00	Kérdések és válaszok

Teaching and Learning Factory



2% is familiar with data analytics applications in production*
8% is regarded as experienced in sensor, robotics applications
7% is satisfied with its ERP system
Intended development in IIoT, simulation and big data analytics

Holistic application is needed for **demonstration, training and research** purposes

Autonomous, one-lot size manufacturing line with predictive analytics, AR app, digital twin, etc.



* PBN SME survey



Smart Senior Room - concept

It is a complex microenvironment, integrating multiple elements dedicated to senior people, formal, informal care providers. It focuses on both the individual and on the infrastructure, all elements showcased as a single platform.

- demonstration environment
- training environment for various target groups
- test facility
- prototype development research infrastructure



PANNON BUSINESS NETWORK
advanced management



2021.09.14. - Szombathely-HU

NAME/NEV	ORGANISATION/SZERVEZET	E-MAIL	SIGNATURE/ALÁÍRÁS
1. Tóth Kálmán	SPMÉV ÖVK. VISB elnöök	toth.kalman@szombathely.hu	
2. Hahót András	PTE ETK Szombathely	ahahots@yahoo.com	
3. Németh Károl	SHIV PÁH	andrea.nemeth@szombathely.hu	
4. Kovács Tamás	FALCO Zrt.	k.kovacs@falco-mechindustry.com	
5. Tóthné Teresi Katalin	Közlekedéstudományi Intézet	teresi@kiti.hu	
6. Bokányi Adrián	SPMÉV ÖVK. elnöksége	bokanyi.adrian@szombathely.hu	
7. Lenfi Ákos	SHIV Önkormányzata	lenfi.akos@szombathely.hu	
8. Elia Dorottya	PBU	elia.d@pba.hu	
9. Barta Balázs	PBU	balazs.barta@pba.hu	
10.			
11.			
12.			
13.			

A CEUP 2030, SHIVÖNK, 4STEP5, projektek az Interreg Central Europe Programban az Európai Unió és Magyarország társfinanszírozásával valósultak meg.
A DanubePeer Chains projekt az Interreg Danube Transnational Programban az Európai Unió és Magyarország társfinanszírozásával valósult meg.

Kérjük vegye figyelembe, hogy az eseményen való részvétel a jelenléti ív kitöltése nélkül nem lehetséges. A jelenléti ívben szereplő személyes adatok felhasználására kerülnek a CEUP 2030, SHIVÖNK, 4STEP5, projektek – Central Europe Program által finanszírozva – DanubePeerChains- Interreg Danube Transnational Program által finanszírozva – céljait, megjelölve az Alttársuló Adatvédelmi Rendeltek (EU 2016/679). A személyes adatok harmadik fél számára nem kerülnek továbbításra. Kérjük ne felejtse, hogy olyan eseményen kívüli részt vevők, akik kérik és/vagy nyújtó-visszajuttató felvételre. Az eseményen való részvételre bejegyzésként ígéri ki azonnal lekapcsolható, hogy fűző vagy videófelvétel készítését. Továbbá számít bejegyzésként, hogy a fentebb említett ártók és videó vagy hangfelvételek felhasználásra kerülhetnek, sokszor azonnal, megőrzésként és kommunikálhatók a nyilvánosság felé bármilyen célból a CEUP 2030, SHIVÖNK, 4STEP5, projektek – Interreg Central Europe Program – honlapokon/DanubePeerChains- Interreg Danube Transnational Program - honlapokon vagy más információs eszközök, mint például közösségi oldalak vagy elektronikus vagy nyomtatott kiadványok.



link - Szombathely2030 - holnap megbeszélés

21:27

Request control

Elvégzett PBN tevékenységek

Szombathely2030 program

2021. április – 2021. szeptember

Szilves Berta

LN SG
Lemke Nóra Szabó-Kovács

PR

21°C Többnyire napos 10:27
2021. 09. 14.



link - Szombathely2030 - holnap megbeszélés

31:05 Request control Leave

További PBN tevékenységek - kommunikáció

Facebook, LinkedIn és weboldal készítése
Folyamatos kommunikáció
Hírek, események megosztása
Prezentációs anyag készítése, roll-up tervezés (magyar, angol)
Kommunikációs menedzser dedikálása

SZOMBATHELY2030
A VÁLTSÁGÁLLÓ TUDÁSGAZDASÁG MEGTEREMTÉSÉÉRT

Szombathely2030
FOR A RESILIENT KNOWLEDGE ECONOMY

Szombathely2030
A vállágálló tudásgazdaság megerembsédnt!

Szombathely2030
Programlemek

PBN PANNON BUSINESS NETWORK
amLAB

LN SG
Lentkai Hóra Soti-Koml

PR

22°C Többnyire napos 18:32
2021. 09. 14.

4.10. PP10_ Croatian Agency for SMEs, Innovations and Investments

Date of delivery of ASP interview	ASP name	Date of delivery of EU/CE interview	EU/CE name	Regional Roundtable Implemented
13th and 21 st of April	Ministry of Economy and Sustainable Development - HR (MoESD-HR)	13th and 21 st of April	The ASP can be considered as a CE/EU representative as well	17 th February 2022

Flagships defined in the following CAMI topics:

- **Automation and Robotics**→ Adriatic multifunctional smart buoys INTERREG Italy - Croatia
- **Artificial Intelligence**→ CROBOHUB++ CROatian Industry and Society Boosting - European Digital Innovation HUB



Summary of the ASP interview

Artificial Intelligence CROBOHUB++ :

Use case validation and feedback

- *CROBOHUB ++ EDIH project (hereinafter: the Project) is one of the 5 Croatian EDIH candidates that applied on [the 1st call for EDIH Network establishment](#). The Ministry considers this Project to be aligned with all necessary prerequisites for the Industry 4.0. The Project consortium consists of 6 project partners (list available at S3JRC platform). Project aims at providing 4 types of services (testing before investing, education and skills development, access to finance and networking) to SMEs, public research organizations and other private and public organizations.*
- *The Project will provide added value to the CE manufacturing eco-system since one of their main specialization includes cyber security and robotics and their application in agriculture, manufacturing and green energy. The Project will cover other markets and sectors; manufacture of basic metals and fabricated metal products, machinery and equipment, electrical and optical equipment etc. The Project will support manufacturing eco-system in Croatia, but also in CE by eco-system building, concept validation and prototyping, skills development and etc.*

Use Case capitalization

- *The Project is complementary with all relevant national documents and strategies; Smart Specialization Strategy (S3), National Reform Program, National Development Strategy, and NRRP. Also, the Project will strongly contribute to national innovation eco-system by providing services that will strengthen innovation capacities of private and public sector in Croatia.*
- *The Project will cooperate with other EDIHs in the EU network which will contribute to adoption of best EU practices in Croatia regarding digitalization and innovation.*
- *The Project will cooperate with other EDIHs in the EU network which will contribute to adoption of best EU practices in Croatia regarding digitalization and innovation.*
- *This Project will cooperate with other EU and CE EDIHs via Digital Transformation Accelerator and other platforms of cooperation (for example EEN). EDIHs from CE region will have the opportunity to form CE consortiums or other forms of transnational cooperation with the aim of promoting CE region manufacturing sector and policy instruments.*

Closing Remarks

- *In my opinion, the Use Case flagship Project is a perfect example how new initiatives created by the European Commission and supported by the Member States can contribute to creation of specific and strategic support for advanced manufacturing and industry 4.0, not only in CE region, but also in all Europe.*



Automation and Robotics

Use Case Validation and feedback

- *Activities and envisioned impact positively correspondent with actual and relevant EU and national strategies/documents (European Green Deal Agenda, Digital Compass, European Sustainability Goals, National Development Strategy etc.).*
- *Main advantage of this project is that it tackles environmental issue with twin transition tools, and it has a social value not only for Croatia but for other coastal countries.*
- *In light of the current EU policy objectives in area of sustainability and digital transformation of economy and society in whole, this Use Case has valuable perspective and usage. Moreover, it can be translated not only in Adriatic coastal area, but in other outer and inner waters, especially in rivers that are transport oriented and have multiple economic and social value in most landlocked countries in Central Europe.*
- *If the project is adequately commercialized and disseminated, output of it can be a valuable EU originated innovation, and it will give boost to other cooperation in region, which will further connect and boost fragmented national ecosystems in Europe.*

Use Case Capitalisation

- *Project envisions connections with other innovation ecosystems in Europe, which especially includes cooperation on projects of mutual benefit. This is also one of the objectives in Horizon Europe 2021-2027 General Work Programme.*
- *Project emphasises “quadruple helix” model within innovation ecosystems.*
- *Project activities encourage digital transformation of economy and society in whole.*
- *Project envisions sustainable solution (innovation) for social and environmental challenges.*
- *Project will help rising Croatian rank in EU and other international RDI benchmarks.*
- *Impact of this project is important for reaching sustainable future of seas, tourism, and it is overall benevolent for human future. Project envisions concise output from the project activities that can be in usage all around the world*

Closing remarks

- *Critical areas that need to be better assessed in future:*
 - *It is important to have better professional support to projects that are in phase of commercialization.*
 - *It is important to encourage synergies of various financing schemes on national level in order to fund excellent RDI projects that have strategic value for society and economy.*
 - *It is important to connect various stakeholders in innovation ecosystem to have environment that has wider opportunities for implementation of RDI ideas.*
 - *It is important to emphasise on upskilling human resources in area of advance manufacturing and industry 4.0.*

Summary of the EU/CE interview

- *In HAMAG’s case the ASP can be considered as an EU/CE representative, so no separate interview was conducted.*



Summary of the Roundtable with evidences

Total Number of Attendees: 17	
<input type="checkbox"/> Local public authority	Total: 0
<input checked="" type="checkbox"/> Regional public authority	Total: 0
<input checked="" type="checkbox"/> National public authority	Total: 9
<input checked="" type="checkbox"/> Higher education and research	Total: 5
<input type="checkbox"/> Education/ Training Centre & Schools	Total: 0
<input type="checkbox"/> Large Enterprises	Total: 0
<input checked="" type="checkbox"/> SMEs	Total: 1
<input checked="" type="checkbox"/> Business Support Organizations	Total: 2
<input type="checkbox"/> Unknown (anonymous participants)	Total: 0

Objectives, goals and outcomes of the Roundtable

- *The goal of the RIS3 Round Table was to create awareness on the ongoing digitalization of SMEs in Croatia and its importance for the national economy (1st use case) and to speed up initiatives for the adjustments of the current legislative procedures which are not in align to high tech requirements, which cause difficulties for SMEs and academic sector (2nd use case).*
- *The stakeholders, shared their experiences and suggestions how to improve current situation in Croatia in favor of industry 4.0, particularly in academic and SMEs domains. All of them have a long stand experience working on the EU projects and in collaboration with SMEs. HAMAGBICRO presented main points of Croatian high tech SMEs that we heard on the TINNs.*
- *The European Commission acknowledges the importance of technology and of Industry 4.0 and sustainable and green economy.*
- *The discussion pointed out how current issues can be overcome.*
- *The main conclusion is that although strategies and policies proclaim Industry 4.0, on the operative level we have been facing obstacles due to legislations and public administration.*
- *Human capital in high tech is national strength so government should more and faster support starts ups and high tech SMEs and higher education.*
- *The RIS3 Round Table highlighted the importance of the SMEs digitalization and its impact on the national economy.*
- *In respect of the second use case - Adriatic region has to catch up with north Croatia region in terms of Industry 4.0. There are high tech SMEs in robotics and shipyard industries but overall capacities are not well managed.*
- *Projects such this one can bring benefit in two ways: transfer knowledge from universities to SMEs, provide opportunities for starts ups and diversify economy which currently relies heavily on tourism.*
- *The discussion raised the awareness of the need for digitalization hubs and of usages of robots in seafloor cleaning and marine ecology. Both topics open possibilities for collaboration among universities, BSOs and SMEs which will bring up to upper level ecosystems in those areas.*



Materials of HAMAG's Roundtable:



*„Central Europe Upstreaming for Policy Excellence in Advanced Manufacturing & Industry 4.0
towards 2030“*

CEUP 2030 - RIS 3 Round table

Okrugli stol na teme:

**Izazovi poduzeća prilikom prelaska na digitalizaciju
Moderne tehnologije u primjeni vs zakonske regulative**

Sudionici:

- Zoran Belak, ravnatelj Inovacijsko razvojnog centra Alu Tech Šibenik
- Doc. Dr. sc. Ivana Palunko, voditeljica laboratorija za inteligentne autonomne sustave LARIAT, Sveučilište u Dubrovniku
- Prof. dr. sc. Kruno Miličević, Sveučilište J. J. Strossmayera u Osijeku, Fakultet elektrotehnike, računarstva i informacijskih tehnologija
- Luka Novosel, Ministarstvo regionalnog razvoja i fondova Europske Unije
- Mateo Ivanac, Hrvatska gospodarska komora

Moderator: Doc. dr. sc. Miro Hegedić, Fakultet strojarstva i brodogradnje Sveučilišta u Zagrebu

17.02.2022.





5. Summary and conclusions of Partners' Regional RIS3 Roundtables

As main Chapter 4 has described in detail, the Regional Roundtables have been implemented successfully and all events turned out to be beneficial and fruitful in terms of flagship implementation process. As main Chapter 4 has reflected some Partners conducted the connected Associate Partner and/or the CE/EU interviews before their Roundtable event, whereas some partners addressed these stakeholders following the organisation of the Roundtables.

What is common in all stakeholders' replies is that all of them have validated the proposed flagship initiatives by Partners and they also expressed some valuable recommendations in terms of flagships' capitalisation in the current and in the later stage of their implementation.

Based on the interviews (ASP+ CE/EU), the main general feedbacks were the followings to the discussed flagship projects:

- The discussed flagship projects are in line with the local/regional/national/EU strategies in the field of digital transformation and Industry 4.0 application
- All the activities that have been/shall be conducted in the flagship projects are consistent and related to the smart specialisations of the region/country
- Recognizing the importance of cooperation in supporting the digital transformation of the economy the interviewed stakeholders advocate the implementation of the flagship projects
- The concept of the flagship projects correspond with the daily work of the interviewees so they can directly supports the flagship implementation which is a mutual interest for both project partners, the interviewed stakeholder → Due to this cooperation, and the successful implementation of the flagships, the competitiveness of the region might be enhanced.
- The functionality of "bridging the gap" between research and technology commercialization is a key aspect of developing new technologies and enabling an economic boom in all regions
- It is necessary to deepen the exchange on the content of Industry 4.0, in the political and in the operative realm.
- For striving in a global economy, it is necessary to work together, to have an exchange of information and knowledge, to work collaboratively on standards etc. - all of that needs strong and active relationships, the projects need to facilitate that.
- Take MoUs seriously and use the project not only to deliver papers but as a process for collaboration - if you find out that something is different, then use it as an opportunity for deepening the cooperation (new topics, new areas of cooperation...)
- The thematic topics raised in the flagship projects are significant and relevant topics on EU level
- Connecting to regional networks in particular with industry will allow for better uptake of innovation approaches / generate incentives to restructure existing production / innovation procedures



- Projects envision connections with other innovation ecosystems in Europe, which especially includes cooperation on projects of mutual benefit
- Continuation and emphasis on the implementation of activities that let regions learn from one another, exchange experiences, and present cases of financial instruments that work for them.
- Apart from the specific use cases, based on the feedbacks of some interviewees, the following areas should be also taken into consideration, in order to create specific, strategic support for advanced manufacturing and industry 4.0
 - Data Sharing Economy
 - Industry 5.0
 - Human-Centered Technology
 - New Mobility
 - Circular Economy
 - Zero Defect Manufacturing
 - Data management and Artificial Intelligence (AI)
 - The commitment and active involvement of network actors should be increased
 - Approach with small steps would be preferred to foster the integration, knowledge update and transformation process towards fully I4.0 companies
 - Sustainability, climate change and circular economy are current big topics that need to be addressed in parallel to the digital transformation process in order to stay competitive in the future
 - Activities such as trainings, workshops should promote change of mindsets towards circular/sustainability thinking in particular in traditional industry sectors such as the manufacturing industry
 - Robotics manipulation

Main outcomes of the Regional Roundtables

- As it was indicated in the overview paragraphs at each PP in main Chapter 4 every PP organised one regional RIS3 RT event in the period from September 2021 to February 2022.
- The idea was to present the use-cases and flagships to be developed within the project and have a chance to update it with the comments from the involved stakeholders
- The roundtables had the opportunity to give an overview about the Common Policy Use Cases (to) be created within the CEUP project
- Some Roundtables took the advantage to present the upcoming service offers provided by DIHs which are related to the flagship discussed
- To strengthen the regional network and to facilitate discussion with triple helix stakeholders on relevant aspects of the topics discussed
- Assess and revise the latest activities of the project focusing on each PPs' outcomes and plans
- To present the identified problems faced by companies in the transition to Industry 4.0 and proposing suggestions on how to make transition to digital



transformation smoother and reduce the gap between developed and underdeveloped regions in the countries.

- Due to several conversations (including the Roundtables) with the local/regional policy makers are getting more and more acquainted with industry4.0 terms, definitions and its significance in the region. As a result, the upcoming policies might be influenced utilizing the information gained in the meeting.
- To create awareness on the ongoing digitalization of regional SMEs
- The stakeholders, shared their experiences and suggestions how to improve current situation in the regions in favour of industry 4.0 digital transformation

As far as the involved participants are concerned, the following summary table (1) describes the total number of participants and the distribution of the involved target group on the Round tables.

ID of PP	Event type	Date	Participants									Total
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
PP1_KPT	Regional	20.12.2021.	0	4	0	0	0	0	0	5	0	9
PP2_PRO	Regional	21.2.2022.	0	1	0	8	0	2	18	3	0	32
PP3_PIA	Regional	14.1.2022.	0	4	10	10	1	22	7	8	2	64
PP4_IWU	Regional	2.11.2021.	0	0	3	3	0	0	3	3	0	12
PP5_KIT	Regional	26.1.2022.	0	0	0	5	0	3	3	3	0	14
PP6_AFIL	Regional	9.11.2021.	0	0	0	13	0	4	3	2	0	22
PP7_SIIT	Regional	11.11.2021.	2	2	1	5	0	3	11	3	0	27
PP8_PTP	Regional	23.11.2021.	0	0	2	0	0	0	2	4	0	8
PP9_PBN	Regional	14.9.2021.	4	0	0	4	0	1	0	1	0	10
PP10_HA MAG	Regional	17.2.2022.	0	0	9	5	0	0	1	2	0	17
Total number of participants:			<u>6</u>	<u>11</u>	<u>25</u>	<u>53</u>	<u>1</u>	<u>35</u>	<u>48</u>	<u>34</u>	<u>2</u>	<u>215</u>

Table 1: Summary table of PPs' regional Roundtable events



Legend:

- (1) Local public authority
- (2) Regional public authority
- (3) National public authority
- (4) Higher education and research
- (5) Education / Training Centre & Schools
- (6) Large Enterprises
- (7) SMEs
- (8) Business Support Organisations
- (9) Unknown / anonymous / other

As Table 1 indicates, out of the 215 participants in total, the majority of participants came from, Higher Education and Research, SMEs and large enterprises as well as BSOs.

Regarding the public authorities, their involvement is also significant, in particular the distribution of National Public Authorities. The participation of the local/regional/national public authorities on the roundtables is playing an important role, since CEUP 2030 project strives for excellence in policy making on Industry 4.0/Advanced Manufacturing in Central Europe.

Taking into account the report descriptions of the Partners, it can be concluded that regional RIS3 Roundtables have been really successful and fruitful, and they unequivocally contributed to the facilitation of the flagships in each region.



6. Annexes

6.1 Semi-Structured Interview Template

This template should be used for your interviews with the Associated Partners and the CE/EU Association. As a reminder:

- each Partner should arrange an interview with their Associated Partner(s), see list in previous annex (1-3 interviews)
- each Partner should arrange **one interview** with an external organisation that represents CE/EU interests at a wider scale (examples include: Vanguard, DG Regio, DG Connect, EIT Manufacturing, other project groups with complementary interests) who can help support the capitalisation of your Use Case.

In total for the two or more Use Cases you choose to capitalise, you should have 6-8 interviews to build consensus and support over the idea (this includes the 3-6 interviews needed for impact controlling!)

ASSOCIATED PARTNER AND CE/EU STAKEHOLDER FEEDBACK TEMPLATE FOR PREPARATION OF RIS3 ROUND TABLE											
Administrative Information											
Name of Interviewee (Last name, First Name)	[Free Text]										
Interviewee Organisation/Network Name	[Free Text]										
Interviewee's E-mail	[Free Text]										
Organisation Type	Choose an item.										
If other, please specify	[Free Text]										
Organisation's Territorial Representation	[Free Text]										
Name of PP Interviewer (Last name, First Name)	[Free Text]										
Partner Organisation	Choose an item.										
Date of Interview	Click here to enter a date.										
HOSTING LOCATION OF EVENT Location of Interview (if Physical Event)	<input type="checkbox"/> Online, please specify hosting platform: XX										
	<input type="checkbox"/> On Site, please specify the location: XX										
NAME OF USE CASE / CAMI4.0 FOCUS OF EVENT (Choose up to four)	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;"><i>Use Case Name</i></th> <th style="width: 50%;"><i>CAMI4.0 Topic</i></th> </tr> </thead> <tbody> <tr> <td>XX</td> <td>Choose an item.</td> </tr> </tbody> </table>	<i>Use Case Name</i>	<i>CAMI4.0 Topic</i>	XX	Choose an item.						
	<i>Use Case Name</i>	<i>CAMI4.0 Topic</i>									
	XX	Choose an item.									
	XX	Choose an item.									
XX	Choose an item.										
XX	Choose an item.										
Start of Semi-Structured Interview											



Please start the session with an overview of CEUP 2030 and its key objective and then proceed with a discussion on the background and context of your chosen Use Case(s)

The interview template is structured so that each category of data gathering (A. Use Case(s) Validation & Feedback, B. Result Capitalisation, and C. Closing Remarks) carries one or two questions about each results aspect.

PPs should strictly adhere to this template.

Category & Question	Answer
A. Use Case Validation & Feedback - In order to help the PPs gain insight on and validation for the Use Case:	
What are your perspectives and recommendations on the described Use Case(s)? <i>(Challenge, solution, policy instrument used, stakeholders involved?)</i>	<i>[Maximum 500 Characters, in English]</i>
How can you see the Use Case (s) adding value to the Central European manufacturing ecosystem?	<i>[Maximum 500 Characters, in English]</i>
B. Use Case Capitalisation - In order to help CEUP 2030 in the final stage of the project (creation of a capitalization agenda), we'd like your views on:	
How could this activity, be aligned to other work you are doing / you know about?	<i>[Maximum 500 Characters, in English]</i>
How could this activity be further expanded/enriched?	<i>[Maximum 500 Characters, in English]</i>
In your view, what are the benefits of aligning and expanding action on this activity? How does this impact Central Europe's competitive-edge?	<i>[Maximum 500 Characters, in English]</i>
How could this activity be adapted to promote strategic, policy-level support for Central Europe's manufacturing sector?	<i>[Maximum 500 Characters, in English]</i>
C. Closing Remarks - based on the objective of the project, and the work the Partners are doing to create strategic long-term support to promote the uptake and adoption of Industry 4.0 and Advanced Manufacturing	



<p>Beyond the described Use Case, what are critical areas you'd recommend to assess in order to create specific, strategic support for advanced manufacturing and industry 4.0</p>	<p><i>[Maximum 500 Characters, in English]</i></p>
<p>What other comments or recommendations do you have about:</p> <ul style="list-style-type: none"> ➤ the results of CEUP 2030 so far; ➤ the next steps to develop the Use Case. 	<p><i>[Maximum 500 Characters, in English]</i></p>

TEMPLATE END



6.2. Template 1: RIS3 Round Table Regional Event Reporting

Administrative Information			
PARTNER	Choose an item.		
HOSTING LOCATION OF EVENT	<input type="checkbox"/> Online, please specify hosting platform: XX <input type="checkbox"/> On Site, please specify the location: XX		
NAME OF USE CASE / CAMI4.0 FOCUS OF EVENT (Choose up to four)	<i>Use Case Name</i>	<i>CAMI4.0 Topic</i>	
	(1) XX	Choose an item.	
	(2) XX	Choose an item.	
	(3) XX	Choose an item.	
(4) XX	Choose an item.		
DATE OF THE EVENT	Click or tap to enter a date.		
Attendee & Speaker Analysis			
LIST USE CASE STAKEHOLDERS: -KNOWLEDGE FACILITATOR -KNOWLEDGE SUPPLIER -KNOWLEDGE RECEIVER -KNOWLEDGE ENabler WHO ATTENDED and/or PRESENTED AT THE MEETING¹	<i>Name</i>	<i>Organization</i>	<i>Use Case Role</i>
	(1) XX	XX	Choose an item.
	(2) XX	XX	Choose an item.
	(3) XX	XX	Choose an item.
	(4) XX	XX	Choose an item.
(5) XX	XX	Choose an item.	
LIST OTHER SPEAKERS & PROVIDE USE CASE CONNECTION JUSTIFICATION	<i>Name</i>	<i>Organization</i>	<i>Justification</i>
	(1) XX	XX	XX
	(2) XX	XX	XX
(3) XX	XX	XX	
AUDIENCE BY TARGET GROUP	<i>Total Number of Attendees: XX</i>		
	<i>Below, please select to which target group did participants belong and quantify number of attendees.</i>		
	<input type="checkbox"/> Local public authority	Total: XX	
	<input type="checkbox"/> Regional public authority	Total: XX	
	<input type="checkbox"/> National public authority	Total: XX	
	<input type="checkbox"/> Higher education and research	Total: XX	
	<input type="checkbox"/> Education/ Training Centre & Schools	Total: XX	
	<input type="checkbox"/> Large Enterprises	Total: XX	
<input type="checkbox"/> SMEs	Total: XX		

¹ There is no limit on speakers or attendees. If you'd like to add more, please add a row to the table.



	<input type="checkbox"/> Business Support Organizations	Total: XX
Content Analysis		
OBJECTIVE AND GOAL OF THE RIS3 ROUND TABLE	<i>[Maximum 500 Characters, in English]</i>	
LOGIC BEHIND CHOSEN CASE INTEGRATION <i>(Why did you choose to focus on this/these Use Case(s) for your event?</i> <i>Bring evidence from your stakeholder discussions in the PLL & TTTDMs + direct insight from Impact Controlling Interviews)</i>	<i>[Maximum 500 Characters, in English]</i>	
STRUCTURE OF EVENT (AGENDA & TOOLS USED TO PROMOTE ENGAGEMENT)	<i>[Maximum 500 Characters, in English]</i>	
SUMMARY OF LESSONS LEARNT & FEEDBACK FROM PANEL DISCUSSION EXCHANGE ON YOUR USE CASE? <i>Please be specific, if possible, and link direct recommendations to speakers.</i>	<i>[Maximum 1000 Characters, in English]</i>	
HOW DID THE DISCUSSION BUILD BRIDGES TO LONG TERM POLICY PLANNING IN INDUSTRY 4.0 & ADVANCED MANUFACTURING?	<i>[Maximum 1000 Characters, in English]</i>	
HOW CAN THIS USE CASE ENHANCE THE COMPETITIVE EDGE OF THE TERRITORY'S MANUFACTURING ECO-SYSTEM?	<i>[Maximum 1000 Characters, in English]</i>	



<p>WHAT ARE THE CONSEQUENCES OF THIS DISCUSSION FOR THE CAPITALIZATION OF YOUR USE CASE?</p>	<p><i>[Maximum 1000 Characters, in English]</i></p>
<p>WHAT ARE THE NEXT STEPS FOR YOUR USE CASE?</p>	
<p>ANY OTHER COMMENTS?</p>	<p><i>[Maximum 500 Characters, in English]</i></p>

Reporting Element Checklist
Please upload all Evidence in your respective folder on ALFRESCO.

INVITATION/ SAVE THE DATE	<input type="checkbox"/> Yes <input type="checkbox"/> No
AGENDA	<input type="checkbox"/> Yes <input type="checkbox"/> No
MINUTES	<input type="checkbox"/> Yes <input type="checkbox"/> No
LIST OF PARTICIPANTS & TARGET GROUP TYPE	<input type="checkbox"/> Yes <input type="checkbox"/> No
IF VIRTUAL, A RECORDING	<input type="checkbox"/> Yes <input type="checkbox"/> No
IF VIRTUAL, A SCREENSHOT OF PARTICIPANTS	<input type="checkbox"/> Yes <input type="checkbox"/> No
IF PHYSICAL, A SIGNED PARTICIPANT LIST	<input type="checkbox"/> Yes <input type="checkbox"/> No
IF PHYSICAL, A GROUP PHOTO	<input type="checkbox"/> Yes <input type="checkbox"/> No

TEMPLATE END