REPORT ON THE 10 TRANSNATIONAL ACTION PLANS & DIH CONCEPTS FOR CERIS3 EXCELLENCE

A report on deliverable D. T2.2.2

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Document Control

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PU	Public	PU
PP	Restricted to other programme participants	
RE	Restricted to a group specified by the consortium	
CO	Confidential, only for members of the consortium	

Document History			
Date	Version	Issuer	Description of Changes
15.05.2020	1.00.00	MCR	First issue, draft structure created
24.08.2020	2.00.00	MCR	Second draft, with all actions and analysis completed.
31.08.2020	3.00.00	MCR	Third draft, approved by IWU.
10.09.2020	4.00.00	MCR	Final draft, approved by Partnership.

1. Executive Summary

1.1. Project Overview

S3HubsinCE aims to utilise the model of the digital innovation hub, and linkages between these hubs created through collaborative exchange on smart specialisation thematic priority areas, to create a common transnational support structure. This structure has a goal to generate stronger connections between RIS3 stakeholders to promote value creation and enhanced competitive advantage in Central Europe.

Ultimately it creates and tests a common method to help regional and national strategy-responsible institutions, understand how RIS3 value-creation can be fostered through a connected network of Digital Innovation Hubs (DIH). The project focuses on:

- Transnational innovation network to enhance collaborative RIS3 exchange and identify RIS3 Champions
- DIH alignment through a common pilot-program, to promote market-focused RIS3 Excellence and RIS3 Value-Creation
- Future-orientated policy learning with closer-to-market activities.

1.2. Scope of Document & Summary

This document contains a report on the planning work which Partners have undertaken in order to enable each Digital Innovation Hub Pilot Action. The report provides an overview of each PP's Digital Innovation Hub pilot action concept, along with detail of the support actions which PPs are planning to deliver associated to training and mobility, and transfer and cooperation in order to better embed the Digital Innovation Hub network. The actions are further described in 10 Navigation Crew Action Plans, some key information and timeline of each action planned by the partners which are active in the specified Crew.

Full templates of all actions can be provided to interested parties, on request to the specific Partner where you have interest, or the deliverable responsible Partner lead.

1.3. Audience

This document is directed towards the consortium as its first audience, to provide one comprehensive report on all action planning which has taken place in the project. However, the document can also be a useful public tool to understand the planned models for promoting engagement between Digital Innovation Hubs and the thematic Navigation Crews.

1.4. Change Control Procedure & Structure

The Deliverable Responsible, Fraunhofer IWU (IWU) created this report, and it is under standard project change control, whereby Partners are requested to give feedback on the stated definition or tools in writing to the Deliverable Responsible in a timely manner (within one week of the document circulation).

As per normal procedure, at any time partners believe a deliverable should change, the request should be brought to the work package leader and Lead Partner (in this case IWU, Deliverable Responsible lead and HGK Work Package Leader), to consolidate feedback from other partners, and integrate and disseminate the final agreed changes.

Contents

2. Introduction

The goal of this report is to provide a final overview of the result of the 10 transnationally-oriented action plans and the 10 Digital Innovation Hub (DIH) concept documents, which set the basis for planning on the S3HubsinCE Partnership's Pilot Actions. Over the course of the project the PPs will undertake 60 actions, 10 Pilot Actions and 50 Support Actions to develop a transnational network of Digital Innovation Hubs, which look to build excellence into Central European regional innovation smart specialisation strategy development. This report provides a summary of the plan the partnership will deliver across the remaining months of the project, to showcase learning and exchange between digital innovation hubs, along with transfer and cooperation to develop closer-to-market activities with stakeholders across Central Europe.

The background of this report is rooted in the development and delivery of a joint strategy and action plan for the Constellations of CERIS3 (**C**entral **E**urope **R**esearch & **I**nnovation **S**mart **S**pecialisation **S**trategy) Excellence.
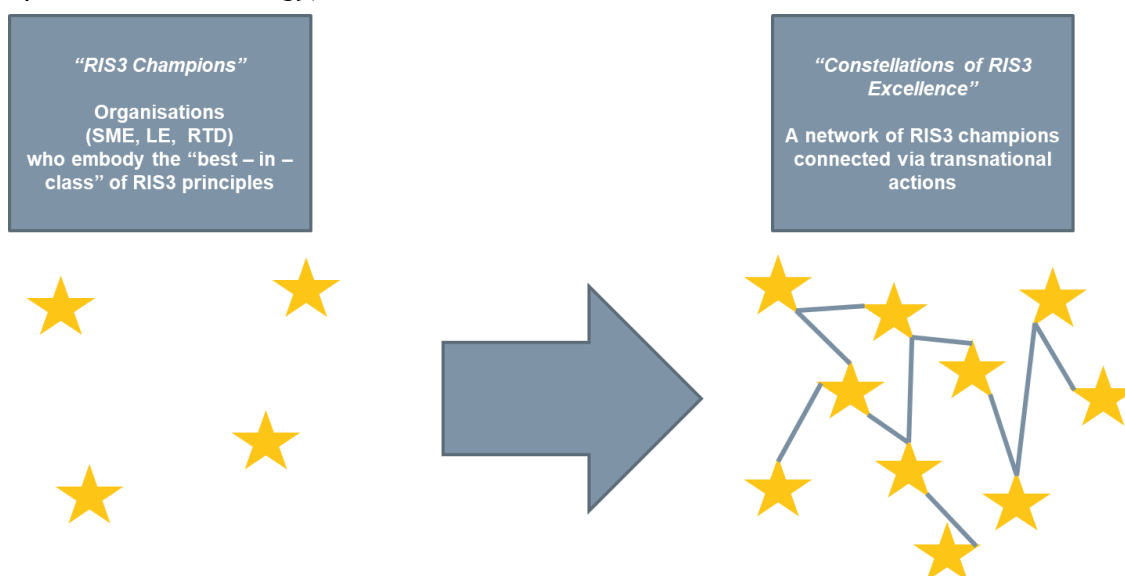
Figure 1 How the Constellation of RIS3 Excellence is Generated

(Source: Author Generated)

The Constellation of CERIS3 Excellence, visualised in Figure 1, represents a central European network of organisations which champion research & innovation across the territorial area, these can be enterprises, higher education and research organisations who embody best-in-class principles of promoting central european competitivness. These "RIS3 Champions" are connected to each other through the generation of transational actions, under the umbrella of what is known as "Digital Innovation Hub" pilot actions and support actions.

The constellation actions are built via a network of digital innovation hubs, which are linked through the implementation of thematically-focused working groups (Navigation Crews), that have been formed to promote coordination and collaboration on the thematic-priority areas critical for promoting competitiveness across Central Europe's industries. The strategy sets the principle objectives which each Navigation Crew looks to achieve, and the action plan details the steps the Partners will take within each Crew and with each Digital Innovation Hub, in order to meet these objectives.
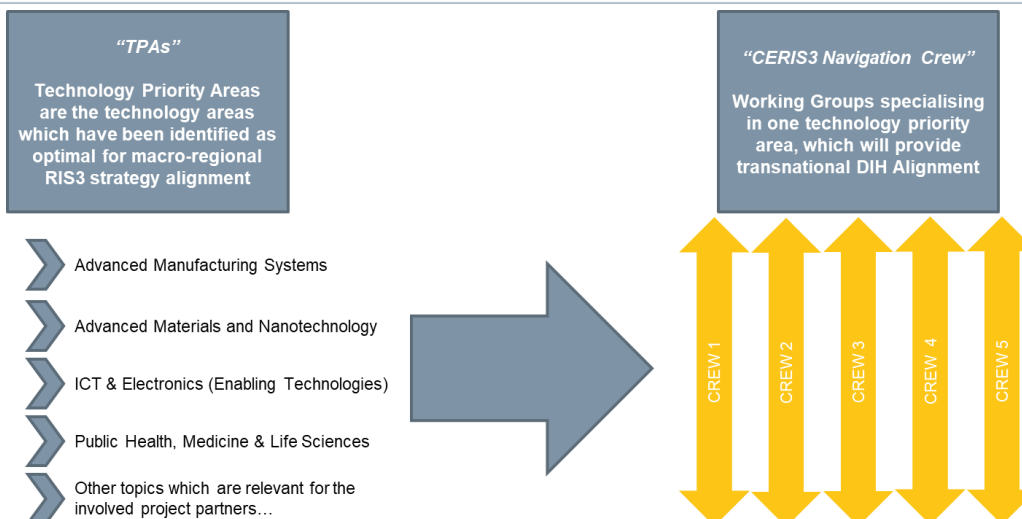
Figure 2 How Thematic Priority Areas Connect to Navigation Crews

(Source: Author Generated)

Figure 2 presents the connections between the technology priority areas, emerging from research on central European competitiveness, and the Navigation Crew design. Figure 3 provides an overview of how the digital innovation hubs from each PP network (DIHs), are cross-cut by the objectives of the Navigation Crews. Furthermore, within each DIH emerges a series of actions, underpinned by organisations which the PP connects through training, mobility, transfer and cooperation actions. The organisations become park of the regional constellation of CERIS3 excellence, and the model generated by the action becomes part of the Transnational Policy & Technology Blueprint.
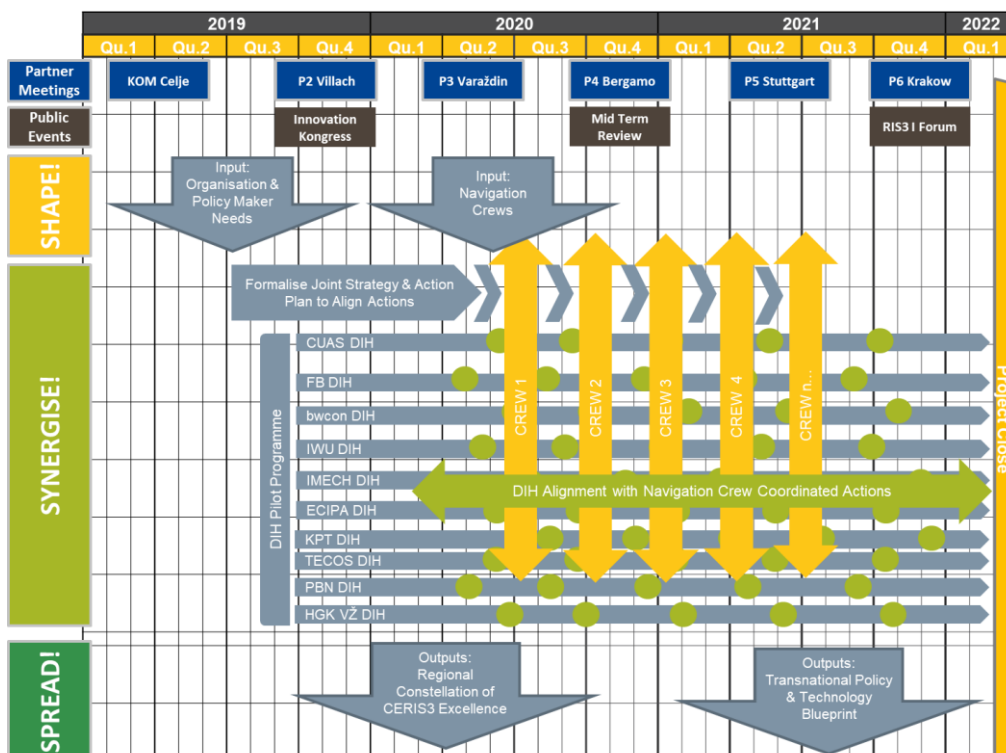
Figure 3 Connecting WPT1 to the Constellation of CERIS3 Excellence in WPT2

(Source: Author Generated)

3. Methodology

The methodology which was followed by the Partnership started in October 2019 and continued until August 2020. The process which followed was a balance between Navigation Crew, thematic working group engagement and regional engagement with each Partner's Digital Innovation Hub network.

Each Project Partner was tasked with designing and planning a Digital Innovation Hub Pilot Action, and five support actions. Altogether the Partnership was organised to develop 60 pilot actions, which will enhance the collaboration between central European digital innovation hubs, whilst simultaneously promoting trans-regional strategy development with regards to research & innovation smart specialisation.

The Project Partners completed templates, like the one shown in Figure 4, in order to evidence their planning work. However, in addition to the completed template, each Partner engaged in detailed discussions across the Partnership ("horizontally"), and within their region ("vertically"), to generate appropriate content and focus of the pilot action planning.

| DIH Pilot Action Description		
Partner Information		
Partner	Choose an item.	
Partner's Responsible Manager for DIH Pilot Action	[insert name of Manager responsible for Action Delivery]	
DIH PILOT ACTION TECHNICAL CONSIDERATIONS		
Name of the DIH Pilot Action	[Provide a branded name which will represent the connection between your regional/national DIH and S3HubsinCE. Consider this the formal name which the partnership will use to refer to your DIH Pilot Action.]	
Name of official regional Digital Innovation Hub	Provide the registered name of the digital innovation hub with which you plan to connect the project.	
Evidence of formal connection to the DIH	Provide a weblink to the formal evidence (website, uploaded proposal, uploaded Memorandum of Understanding) which substantiates your connection to this digital innovation hub.	
DATE OF FIRST EVENT	[insert expected start date of the DIH Pilot Action]	LOCATION OF EVENT
DATE OF SECOND EVENT	[insert expected start date of the DIH Pilot Action]	LOCATION OF EVENT
DATE OF THIRD EVENT	[insert expected start date of the DIH Pilot Action]	LOCATION OF EVENT
CRITICAL STAKEHOLDERS	[insert list of Critical Stakeholders to Include]	
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	[insert the scope/objective and expected outcome of DIH PILOT ACTION]	
What framework of interactive/ collaborative exchange will you be using?	Please provide some text insight into the methodology which your planning team is looking to use to create an interactive/ collaborative workshop.	
ASSOCIATED NAVIGATION CREWS	Choose as many which will apply ☐ Data Analytics, Complex Simulation and Modelling ☐ Machine Vision ☐ Predictive Maintenance ☐ Factory & Process Automation	

Figure 4 Example of the DIH Pilot Action Concept Document Template (Page 1)

(Source: Author Generated)

The Partners began with a description of their vision of connecting their official regional Digital Innovation Hub to the S3HubsinCE network, describing the evidence of formal connectivity, the pilot action outcomes and expected impact, and the thematic topics which

Header logos (Interreg Central Europe, S3HubsinCE, microscope icon) appear at top.

would be covered during the events which take place to promote this interactive exchange. These Pilot Action descriptions emerged as Digital Innovation Hub concepts; with each partner completing one concept design template.

The Partners then moved on to describing their support actions. Thumbnails of these templates can be found in Figure 5. The Partners had to design and plan two types of actions: Training & Mobility ("T&M") Actions and Transfer & Cooperation ("T&C") Actions. The purpose and objective of these action types are distinct. The former action category, T&M Actions. focused on promoting connectivity and exchange between Digital Innovation Hubs on the thematic priority areas of central Europe's smart specialization agenda, and promoting the enhancing of understanding between research and innovation ecosystems. The latter action category, T&C Actions, focused on creating market-oriented, transnationally focused actions to create added-value for RIS3-critical organizations.

Each Partner is expected to deliver their Digital Innovation Hub Pilot Action and minimum five (5) support actions by the end of June 2021, with multiple interim deadlines. It should be noted that with the onset of COVID-19 in March 2020, some adaptation of the DIH Inauguration Events and T&M actions will be required. This has been notified to the Joint Secretariat, and partners are implementing appropriate mitigation procedures within their planning to keep the spirit of the digital innovation hub exchange alive. These mitigation plans include, but are not limited to, the move to online webinars and study visits to promote collaborative exchange, and the exploitation of the project's digital tool interfaces to maintain up-to-date information on implementation timeframes. This has, also prevented some Partners from fixing exact dates for certain event delivery. In these cases, Partners have been asked to use the term "TBD" or "To Be Determined", to indicate this uncertainty.

"RIS3 Regional" Training & Mobility Action Description

Partner Information	
Partner	Choose an item.
Partner's Responsible Manager	[insert name of Manager responsible for Action Delivery]
MOBILITY ACTION DETAILS	
NAME OF THE T&M ACTION	[insert name of the Mobility action]
START DATE	[insert expected start date of the Mobility Action]
END DATE	[insert expected end date of Mobility Action]
LOCATION OF MOBILITY	[insert location of event]
INVOLVED CE REGIONS	[insert regions expected to attend Mobility Event]
SCOPE/OBJECTIVE	[insert the scope/objective of the mobility action]
ASSOCIATED NAVIGATION CREWS	Choose as many which will apply ☐ Data Analytics, Complex Simulation and Modelling ☐ Machine Vision ☐ Predictive Maintenance ☐ Factory & Process Automation ☐ DI&I: Machinery ☐ Advanced & Smart Materials ☐ Industrial IoT ☐ Digital Marketing ☐ Innovation in a Circular Economy ☐ Design & Engineering for Additive Manufacturing
NAME OF VISITING DIH DELEGATION(s)	[insert the Name of the DIH Delegations who are planning to attend your Mobility event]
RIS3 POLICY STAKEHOLDERS	[insert the Name of the Policy-Relevant Stakeholders who will attend your Mobility Event]
PLANNED COMPANY VISIT	[insert the Name (and hyperlink to the company) of the expected Companies you will arrange a visit with]
REQUIRED RESOURCES	[Describe the Resources which will be needed for this action to be complete]

Transnational Training & Mobility Action Description

Partner Information	
Partner	Choose an item.
Partner's Responsible Manager	[insert name of Manager responsible for Action Delivery]
MOBILITY ACTION DETAILS	
Name of the Training & Mobility Action	[insert name of the Mobility action]
START DATE	[insert expected start date of the Mobility Action]
END DATE	[insert expected end date of Mobility Action]
PLACE	[insert location of event]
SCOPE/OBJECTIVE	[insert the scope/objective of the mobility action]
ASSOCIATED NAVIGATION CREWS	Choose as many which will apply ☐ Data Analytics, Complex Simulation and Modelling ☐ Machine Vision ☐ Predictive Maintenance ☐ Factory & Process Automation ☐ DI&I: Machinery ☐ Advanced & Smart Materials ☐ Industrial IoT ☐ Digital Marketing ☐ Innovation in a Circular Economy ☐ Design & Engineering for Additive Manufacturing
ALIGNMENT TO DIH	[Describe how the transnational visit is aligned to your organisation's engagement with your Digital Innovation Hub]
ALIGNMENT TO REGIONAL STAKEHOLDERS	[Describe how the transnational visit is aligned to your regional stakeholder's interests]
REQUIRED RESOURCES	[Describe the Resources which will be needed for this action to be complete]
EXPECTED IMPACT	[insert the expected impact in terms of number of individuals]
RELEVANCE FOR S3HubsinCE	Discuss the contribution to the Transnational Joint Strategy for CERIS3 Excellence, or other Navigation Crew Contribution.

Transfer & Cooperation Action Description

Partner Information	
Partner	Choose an item.
Partner's Responsible Manager	[insert name of Manager responsible for Action Delivery]
Region	[insert partner region]
Country	[insert partner country]
Transfer & Cooperation Action Details	
Name of the Transfer & Cooperation Action	[insert name of the Transfer & Cooperation Action]
START DATE	[insert expected start date of the Transfer & Cooperation Action]
END DATE	[insert expected end date of the Transfer & Cooperation Action]
INVOLVED CE REGIONS	[insert planned regions to involve in Action]
SCOPE/OBJECTIVE	[insert the scope/objective of the Transfer & Cooperation Action]
TARGETED STAKEHOLDERS	[Insert the Name & Business Type of the targeted Stakeholder Group]
EXPECTED OUTPUT	[insert the expected method of evidencing the T&C complete, i.e. the program call you are approaching, etc.]
ASSOCIATED NAVIGATION CREWS	Choose as many which will apply ☐ Data Analytics, Complex Simulation and Modelling ☐ Machine Vision ☐ Predictive Maintenance ☐ Factory & Process Automation ☐ DI&I: Machinery ☐ Advanced & Smart Materials ☐ Industrial IoT ☐ Digital Marketing ☐ Innovation in a Circular Economy ☐ Design & Engineering for Additive Manufacturing
ALIGNMENT TO DIH	[Describe how the transnational visit is aligned to your organisation's engagement with your Digital Innovation Hub]
ALIGNMENT TO REGIONAL STAKEHOLDERS	[Describe how the transnational visit is aligned to your regional stakeholder's interests]

Figure 5 Thumbnails of the Support Action Description Templates

(Source: Author Generated)

Once all actions had been planned, Navigation Crew leaders completed a quality check to ensure that the actions were in keeping with the Navigation Crew Strategy & Objectives (identified in report D.T2.1.2). The actions were then added into the "Action Plan Table" for each Navigation crew, which created 10 distinct action plans. These action plans provide a comprehensive overview of the intentions of each Partner within the framework of the Navigation Crew, and provide a different perspective over the creation of interlinks between

triple-helix stakeholders and digital innovation hub networks. An example of the action plan table can be found in Figure 6.

ACTION PLAN TABLE								
Action Plan for		**[Insert Navigation Crew Name]**						
Navigation Crew Leader		**[Insert Name of Leading Institution]**						
Navigation Crew Members		**[Insert Names of Contributing Organisations to the Navigation Crew]**						

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
[Insert Name from Action Description Document]	A.1	Choose an item.	Choose an item.	[Insert a short description of the intended action]	Click or tap to enter a date.	Click or tap to enter a date.	[Insert a list of CE regions involved in Action]	Choose an item.
[Insert Name from Action Description Document]	A.2	Choose an item.	Choose an item.	[Insert a short description of the intended action]	Click or tap to enter a date.	Click or tap to enter a date.	[Insert a list of CE regions involved in Action]	Choose an item.
[Insert Name from Action Description Document]	A.3	Choose an item.	Choose an item.	[Insert a short description of the intended action]	Click or tap to enter a date.	Click or tap to enter a date.	[Insert a list of CE regions involved in Action]	Choose an item.
[Insert Name from Action Description Document]	A.4	Choose an item.	Choose an item.	[Insert a short description of the intended action]	Click or tap to enter a date.	Click or tap to enter a date.	[Insert a list of CE regions involved in Action]	Choose an item.
[Insert Name from Action Description Document]	A.5	Choose an item.	Choose an item.	[Insert a short description of the intended action]	Click or tap to enter a date.	Click or tap to enter a date.	[Insert a list of CE regions involved in Action]	Choose an item.
[Insert Name from Action Description Document]	A.n ...	Choose an item.	Choose an item.	[Insert a short description of the intended action]	Click or tap to enter a date.	Click or tap to enter a date.	[Insert a list of CE regions involved in Action]	Choose an item.

Figure 6 Example of the Action Planning Table at Navigation Crew Level

(Source: Author Generated)

The remining pages of this report will provide the results of this work, summarizing the outcomes of the PPs planning exercise with detail first of the DIH concepts which emerged, on a partner-by-partner basis. This will be in a result section titled "S3HubsinCE Digital Innovation Hub Network". Then, the results section will present the Navigation Crew plans, thematic topic-by-thematic topic, with a short overview of key information at the start of each plan presentation. This section will be titled "Navigation Crew Action Plan".

Finally, the report concludes with some lessons learnt and next steps overview, to help guide the public and the project observers to the expected activities which the Partners will undertake over the next 18 months.

4. S3HubsinCE Digital Innovation Hub Network

The purpose of this section is to provide insight on the brainstorming work which each partner has completed during the planning stage of developing the Digital Innovation Network. The Partners of S3HubsinCE have been working tirelessly across the last nine (9) months to develop lasting and sustainable connections between their own organisation, their leading regional Digital Innovation Hub, and the S3HubinCE wider network. The partners are using a series of events, starting with the DIH Inauguration Event, to create these connections. Figure 7 provides a visualization of all the official Digital Innovation Hubs which have been brought into the Partnership through the DIH Pilot Action.

Figure 7 Visualization of the Connected Network of Digital Innovation Hubs

(Source: Krakow Technology Park)

Furthermore, the Partnership has formalized a location for onward, sustainable discussion between the digital innovation hub representatives using a European initiative – DIHNET.eu. Through this platform S3HubsinCE has created a dedicated community for promoting engagement and communication between Central European Digital Innovation Hubs who promote excellence in regional smart specialisation.

The following pages of this report provide detailed summaries of each Partner's Digital Innovation Hub pilot action. Table 1 start this presentation, with a summary of the names of each Partner's digital innovation hub Partner and the name of each Partner's hub pilot action. The table also provides a tabulation of the Partner's intentions for integrating their "vertical" navigation crew working groups. One can see that the Digital Innovation Hubs engage with many thematic topics. Each navigation crew is working to foster collaboration and value-creation in the specific thematic-area named in the working group's title; the Digital Innovation Hub collaboration and network partnership are critical for this delivery. This concept will be further explored in section 5.

Table 1 Digital Innovation Hub Action Summary (Source: Author Generated)

Digital Innovation Hub Action Summary											
	Totals	**CUAS**	**FB**	**BWCON**	**IWU**	**IMECH**	**ECIPA**	**KPT**	**TECOS**	**PBN**	**HGK VZ**
Hub Name	10 Digital Innovation Hubs to Promote Central Europe RIS3 Excellence	smartfab-carinthia @ dih-sued	Digital Innovation Hub Ost (DIH Ost)	DIGI HUB Südbaden	Smart Production Systems Saxony - InnoSax	AFIL – Associazione Fabbrica Intelligente Lombardia	Ecipa Nordest Hub	Hub4industry	Digital innovation Hub Slovenia	Advanced-Manufacturing Laboratory (am-LAB) DIH	Croatian Robotics Digital Innovation Hub (CROBOHUB), hosted within ICENT
Hub Pilot Action		smartfab-carinthia (as part of DIH-Süd)	S3-DIH-Ost	DIGI HUB Südbaden & S3HubsinCE	Cooperation InnoSax and S3Hubs	Digital Roadmaps and Intervention Strategies: Public Private Partnerships supporting the digital readiness of European enterprises	TICKET – Transform & Innovate Companies through the Key of the digitalization to Enhance compeTitiveness.	Acting locally winning globally in digital transformation. From evangelization to action.	SMART THINKING FOR SMART MANUFACTURING	DIH Raising awareness workshop towards regional policy stakeholders and university players	DIH Matrix Varaždin
Navigation Crew Plans^											
DACS&M	9	x	x	x		x	x	x	x	x	x
Machine Vision	4							x	x	x	x
PM	7	x	x			x	x	x		x	x
F&PA	8	x	x	x		x		x	x	x	x
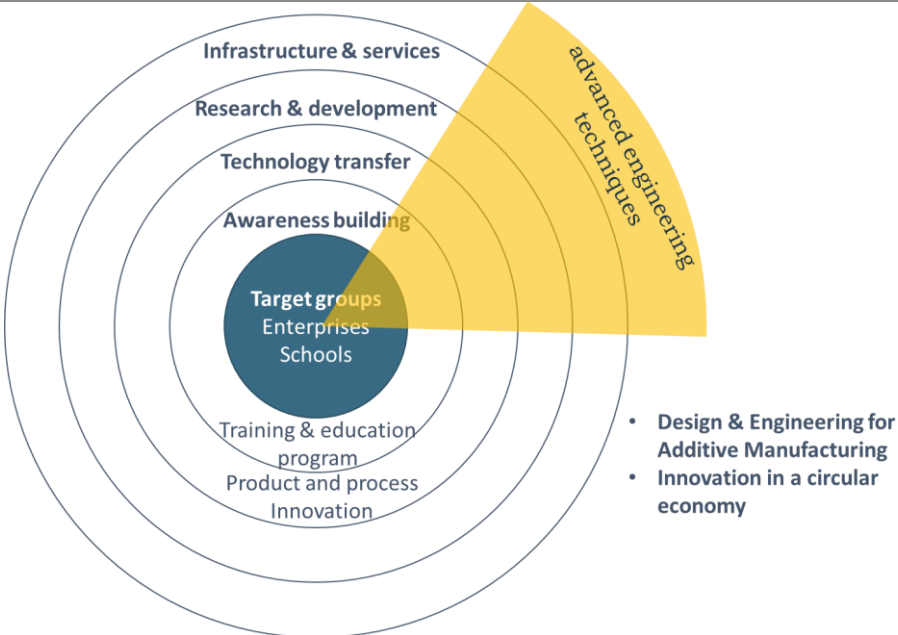
DI&I: Machinery	5	x						x	x	x	x
A&SM	4	x		x	x					x	
Industrial IoT	8		x		x	x	x	x	x	x	x
Digital Marketing	4		x	x						x	x
ICE	3	x								x	x
D&E AM	5	x	x		x				x	x	
	Target Group Plans*										
LPA	7	x	x	x	x			x		x	x
RPA	10	x	x	x	x	x	x	x	x	x	x
NPA	3							x		x	x
HE&R	9	x	x	x	x		x	x	x	x	x
ETC&S	8	x	x	x	x		x	x	x		x
LE	7	x	x	x	x	x		x			x
SMEs	9	x	x	x	x	x	x	x	x		x
BSO	9	x	x	x	x	x	x	x	x		x

^ *Data Analytics, Complex Simulation and Modelling (DACS&M); Predictive Maintenance (PM); Factory & Process Automation (F&PA); Advanced & Smart Materials (A&SM); Innovation in a Circular Economy (ICE); Design and Engineering for Additive Manufacturing (D&E AM)*

**Local Public Authority (LPA); Regional Public Authority (RPA); Higher Education & Research (HE & R); Education Training Centre and Schools (ETC & S); Large Enterprises (LE), Small to Medium Sized Enterprises (SMEs); Business Support Organisation (BSO)*

4.1. Carinthia University of Applied Sciences

PARTNER INFORMATION	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Roland Willmann

DIH PILOT ACTION TECHNICAL CONSIDERATIONS			
NAME OF THE DIH PILOT ACTION	smartfab-carinthia (as part of DIH-Süd)		
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	smartfab-carinthia @ dih-sued		
EVIDENCE OF FORMAL CONNECTION TO THE DIH	Website: *dih-sued.at, smartfab-carinthia.at* BABEG in Carinthia is currently establishing the DIH-Sued, Web-site. In this context CUAS is responsible for the topics of expertise "digital transformation in manufacturing", "engineering for additive manufacturing" and "innovation in a circular economy". This concept was also presented at the kick-off meeting of DIH-Süd on March 4th 2020 in Klagenfurt – Lakeside Park.		
DATE OF FIRST EVENT	*04/03/2020*	***LOCATION OF EVENT***	*Kickoff meeting in Klagenfurt, Lakeside Park*
DATE OF SECOND EVENT	*05/10/2020*	***LOCATION OF EVENT***	*Inauguration event – Location to be defined*
DATE OF THIRD EVENT	*TBD in 2021*	***LOCATION OF EVENT***	*TBD*
CRITICAL STAKEHOLDERS	SMEs, LE, start-ups, higher education and research, education and training centres and schools, policy makers, business support organisations, local public authorities		
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME			
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	SWOT Organization development Project management methods		

ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☒ *Data Analytics, Complex Simulation and Modelling* ☐ *Machine Vision* ☒ *Predictive Maintenance* ☒ *Factory & Process Automation* ☒ *DI&I: Machinery* ☒ *Advanced & Smart Materials* ☐ *Industrial IoT* ☐ *Digital Marketing* ☒ *Innovation in a Circular Economy* ☒ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	• Service provides of the respective topics in the region • Research institutions • KWF, BABEG as multipliers and for funding
EXPECTED IMPACT	• Improving the process of digital transformation according to relevant topics (e.g. home office, production management, data and information management) for SMEs • Deepening the understanding of utilizing AM by consideration during the engineering process. • Connecting the need for circular economy with engineering for AM.
RELEVANCE FOR S3HUBSINCE	• Identification of RIS3 champions for TPAs on regional level • Creating a data base of good practices and ideas and concepts for joint strategy and action plans for the future initiatives • Establishing and strengthening links between transnational DIHs and regional initiatives • Involving policy makers, HE and research institutions, education and training centers to support SMEs in business and organizational digital transformation.
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Local public authority x Regional public authority ☐ National public authority x Higher education and research x Education/ Training Centre and Schools x Large Enterprises x SMEs x Business Support Organizations

4.2. Forschung Burgenland GmbH

Partner Information	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Marcus Hofmann
DIH PILOT ACTION TECHNICAL CONSIDERATIONS	
NAME OF THE DIH PILOT ACTION	S3-DIH-Ost Marketing for Digital transformation
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Digital Innovation Hub Ost (DIH-Ost)
EVIDENCE OF FORMAL CONNECTION TO THE DIH	Website*: https://dih-ost.at/* The Federal Ministry for digital and economic affairs (BMDW) supports the establishment of the national Digital Innovation Hub Ost (DIH-Ost). The DIHOST project, a national co-financed project funded by the FFG and the federal states of Lower Austria and Burgenland, has been offering a comprehensive service program for three years to increase the ability and speed of transformation of small and medium-sized enterprises in Eastern Austria towards digital innovations

DATE OF FIRST EVENT	*31/07/2020*	*LOCATION OF EVENT*	*FH-Burgenland, Campus Eisenstadt or Pinkafeld*
DATE OF SECOND EVENT	*28/02/2021*	*LOCATION OF EVENT*	*FH-Burgenland, Campus Eisenstadt or Pinkafeld*
DATE OF THIRD EVENT	*TBD in 2021*	*LOCATION OF EVENT*	*TBD*

CRITICAL STAKEHOLDERS	SMEs, LE, start-ups, higher education and research, education and training centres and schools, policy makers, business support organisations, local public authorities
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	• To support and centralize regional initiatives to enable a coordinated approach based on the different TPAs, • to understand the needs and expectations of RIS3 stakeholders in the area of digital transformation, • to support the implementation of the RIS3 strategy to the regional RTI strategy, • to create a short-term and long-term action plan to support the digital transformation in the region, • to create a tailored set of services and instruments for regional stakeholders, • to connect to transnational DIHs in similar thematic TPAs
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	We will use aspects and methods based on creativity techniques e.g. the Design Thinking Approach: • Mind Mapping • 6-3-5 Method • Prototyping • World-Café • Etc. Besides that, we may use moderated topic-based discussion tables for open discussions and brainstorming processes. We may also use focus group laboratories to subsequently evaluate the information obtained in a well-founded manner.
ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☒ *Data Analytics, Complex Simulation and Modelling*

	☐ Machine Vision
	☒ Predictive Maintenance
	☒ Factory & Process Automation
	☐ DI&I: Machinery
	☐ Advanced & Smart Materials
	☒ Industrial IoT
	☒ Digital Marketing
	☐ Innovation in a Circular Economy
	☒ Design & Engineering for Additive Manufacturing
REQUIRED RESOURCES	- Identification of the participants/stakeholders of the workshop - Coordinating content and setting priorities with the participants - Development of the agenda (thematic priority topics etc.) - Fix the place of the workshops - Invitation and organization of the workshops - Identification of joint activities and initiatives (for example joint study visits, technology-oriented demonstrations or workshops at the SME factory, technology priority areas-oriented roundtables - To send follow up information to all the stakeholders involved
EXPECTED IMPACT	- Increasing the knowledge and understanding of regional stakeholders for the project and the DIH-Ost initiative - Increasing the level of awareness among stakeholders on their digitalization needs and expectations - Introducing FB DIH-Ost cooperation acting as a one-stop-shop for digital transformation (with expertise, know-how, business & institutional links on the regional and transnational level) - Creating a joint vision for the region on how to start/ initiate and run digital transformation - Getting involvement and declaration of all representatives of quadruple helix organizations to build a joint CERIS strategy focused on digital transformation - Setting a joint action plan - Strengthening the cooperation among representatives of quadruple helix organizations - Increasing the level of awareness among policymakers on TPAs - DIH services and products focused and tailored to SMEs' needs and expectations depending on technology and digital readiness
RELEVANCE FOR S3HUBSINCE	- Identification of RIS3 champions for TPAs on regional level - Creating a data base of good practices and ideas and concepts for joint strategy and action plans for the future initiatives - Establishing and strengthening links between transnational DIHs and regional initiatives - Involving policy makers, HE and research institutions, education and training centers to support SMEs in business and organizational digital transformation.
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Local public authority x Regional public authority

	☐ National public authority
	x Higher education and research
	x Education/ Training Centre and Schools
	x Large Enterprises
	x SMEs
	x Business Support Organizations

4.3. Bwcon GmbH

DIH Pilot Action Description		
Partner Information		
PARTNER	bwcon	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Carla Marquez	
DIH PILOT ACTION TECHNICAL CONSIDERATIONS		
NAME OF THE DIH PILOT ACTION	DIGI HUB Südbaden & S3HubsinCE – *transnational cooperation supporting digital transformation*	
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	**DIGI HUB Südbaden**	
EVIDENCE OF FORMAL CONNECTION TO THE DIH	Website*:* https://www.digihub-suedbaden.de/ The DIGIHUB Südbaden is a product of regional cooperation based on the RegioWIN network and brings together the different projects and initiatives of the sub-regions Southern Upper Rhine and High Rhine in the field of digitisation. bwcon is among the Digital Hub's consortial partners.	
DATE OF FIRST EVENT	*24/08/2020*	*LOCATION OF EVENT* *online*
DATE OF SECOND EVENT	*09/11/2020*	*LOCATION OF EVENT* *TBD*
DATE OF THIRD EVENT	*TBD in 2021*	*LOCATION OF EVENT* *TBD*
CRITICAL STAKEHOLDERS	SMEs, LE, start-ups, higher education and research, education and training centres and schools, policy makers, business support organisations, local public authorities	
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	- To support and centralize regional initiatives to enable a coordinated approach based on the different TPAs, - to understand the needs and expectations of RIS3 stakeholders in the area of digital transformation, - to support the implementation of the RIS3 strategy to the regional RTI strategy, - to create a short-term and long-term action plan to support the digital transformation in the region, - to create a tailored set of services and instruments for regional stakeholders, - to connect to transnational DIHs in similar thematic TPAs	
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	We will use aspects and methods based on creativity techniques e.g. the Design Thinking Approach: - Mind Mapping 6-3-5 Method - Prototyping - World-Café - Etc. Besides that we may use moderated topic-based discussion tables for open discussions and brainstorming processes. We may also use focus group laboratories to subsequently evaluate the information obtained in a well-founded manner.	

DIH Pilot Action Description	

ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☒ *Data Analytics, Complex Simulation and Modelling* ☐ *Machine Vision* ☐ *Predictive Maintenance* ☒ *Factory & Process Automation* ☐ *DI&I: Machinery* ☒ *Advanced & Smart Materials* ☐ *Industrial IoT* ☒ *Digital Marketing* ☐ *Innovation in a Circular Economy* ☐ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	• Identification of the participants/stakeholders of the workshop • Coordinating content and setting priorities with the participants • Development of the agenda (thematic priority topics etc.) • Fix the place of the workshops • Invitation and organization of the workshops • Identification of joint activities and initiatives (for example joint study visits, technology-oriented demonstrations or workshops at the SME factory, technology priority areas oriented roundtables • To send follow up information to all the stakeholders involved
EXPECTED IMPACT	• Increasing the knowledge and understanding of regional stakeholders for the project and the DIGI HUB Südbaden • Increasing the level of awareness among stakeholders on their digitalization needs and expectations • Introducing DIGI HUB Südbaden and S3HubsinCE cooperation acting as a one-stop-shop for digital transformation (with expertise, know-how, business & institutional links on the regional and transnational level) • Creating a joint vision for the region on how to start/ initiate and run digital transformation • Getting involvement and declaration of all representatives of quadruple helix organizations to build a joint CERIS strategy focused on digital transformation • Setting a joint action plan • Strengthening the cooperation among representatives of quadruple helix organizations • Increasing the level of awareness among policymakers on TPAs • DIH services and products focused and tailored to SMEs' needs and expectations depending on technology and digital readiness
RELEVANCE FOR S3HUBSINCE	• Identification of RIS3 champions for TPAs on regional level • Creating a data base of good practices and ideas and concepts for joint strategy and action plans for the future initiatives • Establishing and strengthening links between transnational DIHs and regional initiatives • Involving policy makers, HE and research institutions, education and training centers to support SMEs in business and organizational digital transformation.

	DIH Pilot Action Description
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Local public authority x Regional public authority ☐ National public authority x Higher education and research x Education/ Training Centre and Schools x Large Enterprises x SMEs x Business Support Organizations

4.4. Fraunhofer IWU – Instiute for Machine Tools and Forming Technology

Partner Information	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Melanie Kießner

DIH PILOT ACTION TECHNICAL CONSIDERATIONS			
NAME OF THE DIH PILOT ACTION	Cooperation InnoSax and S3Hubs		
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Smart Production Systems Saxony – InnoSax		
EVIDENCE OF FORMAL CONNECTION TO THE DIH	Website: http://innosax.de/ https://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-tool/-/dih/1505/view Industrial digitization plays an essential role on national agendas as well as in the European strategy 2020. The »Digital Innovation Hub "Smart Production Systems Saxony – InnoSax" supports this and combines the competencies for digital Saxony. Together with regional industry networks and further partners from research institutions, in test centers new concepts and ideas are converted into future-oriented products under scientific supervision. Together, customized solutions are developed for making production more efficient and for the most effective running of an enterprise. Workshops, technology days and training sessions for and with the industry show the added value of IoT, supporting the introduction and motivating the SMEs to act as drivers for innovation and technology in the global competition. InnoSax and S3HubsinCE will sign a Memorandum of Understanding in May 2020.		
DATE OF FIRST EVENT	*27/05/2020*	*LOCATION OF EVENT*	*E^3Forschungsfabrik; Chemnitz or Videoconference due to Corona restrictions*
DATE OF SECOND EVENT	*TBD in 2020*	*LOCATION OF EVENT*	*Fraunhofer IWU, Dresden*
DATE OF THIRD EVENT	*TBD in 2021*	*LOCATION OF EVENT*	*TBD*
CRITICAL STAKEHOLDERS	SMEs, LE, start-ups, higher education and research, education and training centres and schools, policy makers, business support organisations, local public authorities		
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	• to understand the needs and expectations of RIS3 stakeholders • To support and centralize regional initiatives to enable a coordinated approach via the Digital Innovation Hub Innosax • to create a short-term and long-term action plan to support the digital transformation in the region, • to create a tailored set of services and instruments for regional stakeholders,		
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE	Due to Corona for the foreseeable future the workshops will be held via Web conferencing. However, we will try and include		

EXCHANGE WILL YOU BE USING?	interactive methods like Design Thinking, Brainstorming, Mind Mapping and Prototyping
ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☐ *Data Analytics, Complex Simulation and Modelling* ☐ *Machine Vision* ☐ *Predictive Maintenance* ☐ *Factory & Process Automation* ☐ *DI&I: Machinery* ☒ *Advanced & Smart Materials* ☒ *Industrial IoT* ☐ *Digital Marketing* ☐ *Innovation in a Circular Economy* ☒ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	Access to Web conferencing Tools and the willingness of the required actors to use these web conferencing tools is vital. We need to do the following steps: • Identification of the participants/stakeholders of the workshop • Development of an agenda (thematic priority topics etc.) • Identify applicable web conferencing software, e.g. Mirosoft Teams, ZOOM, Vitero, etc. • Invitation and organization of the workshops • Identification of joint activities and initiatives (for example joint study visits, technology-oriented demonstrations or workshops at the SME factory, technology priority areas-oriented roundtables • Send follow up information to all the stakeholders involved
EXPECTED IMPACT	• Increasing the knowledge and understanding of regional stakeholders for the project and DIH Innosax • Introducing InnoSax and S3HubsinCE cooperation acting as a joint platform • Creating a joint vision for the region on S3Hubstipics • Setting a joint action plan for DIH services and products focused and tailored to SMEs' needs and expectations depending on technology and digital readiness
RELEVANCE FOR S3HUBSINCE	• Regular Updates between DIH Innosax and Rise3 actors • Regular Update on DIH website Innosax to showcase events and good practices and ideas and concepts for joint strategy and action plans • Involving regional stakeholders and policy makers, to support SMEs in business and organizational digital transformation.
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Local public authority x Regional public authority ☐ National public authority x Higher education and research x Education/ Training Centre and Schools x Large Enterprises x SMEs x Business Support Organizations

4.5. Intellimech Corsortium

PARTNER INFORMATION	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Valerio Pesenti, Stefano Ierace

DIH PILOT ACTION TECHNICAL CONSIDERATIONS			
NAME OF THE DIH PILOT ACTION	Digital Roadmaps and Intervention Strategies: Public Private Partnerships supporting the digital readiness of European enterprises		
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	AFIL – Associazione Fabbrica Intelligente Lombardia		
EVIDENCE OF FORMAL CONNECTION TO THE DIH	Intellimech is one of the founders of AFIL and current active member https://www.afil.it/consorzio-intellimech/		
DATE OF FIRST EVENT	07/07/2020	**LOCATION OF EVENT**	Webinar
DATE OF SECOND EVENT	TBD	**LOCATION OF EVENT**	Before end of 2020
DATE OF THIRD EVENT	TBD	**LOCATION OF EVENT**	February 2021
CRITICAL STAKEHOLDERS	Large Enterprises, SMEs, Regional stakeholders active in RIS3 planning		

SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	• Increase the general readiness level of enterprises in the field of data analytics by matching enterprise needs and existing demonstrators
	• Be as concrete as possible: the workshops should be a means to explain how IMECH, AFIL and the connected DIH landscape can help enterprises to adopt "data analytics" based technologies and/or strategies
	• Identify concrete needs that may be addressed via short term joint projects and describe how these projects may look like
	    o Training sessions
	    o Exchanges
	    o Thematic webinars
	    o Formal alliances with other DIHs
	    o Etc.
	• Extend the reference network of the DIH (connect the DIH to other players in the field of Data Analytics)		

WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	The first seminar will be online and focused on predictive maintenance, therefore it is complicated to think about an interactive exchange method. The seminar will be hosted by the DIH directly, which will illustrate the regional digital road mapping approach that it is using to support the Region in updating the investment strategies; Intellimech will describe concrete application examples.		

ASSOCIATED NAVIGATION CREWS	**Choose as many which will apply** ☒ Data Analytics, Complex Simulation and Modelling ☐ Machine Vision ☒ Predictive Maintenance ☒ Factory & Process Automation ☐ DI&I: Machinery ☐ Advanced & Smart Materials ☒ Industrial IoT ☐ Digital Marketing ☐ Innovation in a Circular Economy ☐ Design & Engineering for Additive Manufacturing
REQUIRED RESOURCES	• AFIL's webinar channel • Presentations
EXPECTED IMPACT	40 participants are expected
RELEVANCE FOR S3HUBSINCE	We think that this Action should contribute to support the joint strategy on Data Analytics and help to • Identify a group of data analytics, complex simulation and modelling experts that can be activated by the Crew & DIHs (the workshops may attract them) • Identify appropriate training services to be shared among our stakeholders (but not only) and ideally anchored to the involved DIHs • Have a list of data analytics, complex simulation and modelling demonstrators that can be used as benchmarks for SMEs • Identify practical, feasible and repeatable ways to transfer data analytics, complex simulation and modelling practices to SMEs
TARGET GROUPS	Which Target Groups are you planning to reach with the workshop? ☐ Local public authority X Regional public authority ☐ National public authority ☐ Higher education and research ☐ Education/ Training Centre and Schools X Large Enterprises X SMEs X Business Support Organizations

4.6. ECIPA – Training and Service Agency Consortium

PARTNER INFORMATION		
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Simona Aceto, Matteo Povolato, Laura Castellan	
DIH PILOT ACTION TECHNICAL CONSIDERATIONS		
NAME OF THE DIH PILOT ACTION	TICKET – Transform & Innovate Companies through the Key of the digitalization to Enhance compeTitiveness.	
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Ecipa Nordest Hub	
EVIDENCE OF FORMAL CONNECTION TO THE DIH	http://www.ecipahub.eu Ecipa, as a service provider of CNA for the North East regions in Italy has been designated in October 2017 as the Management organization that provides support to SMEs in their digital transformation acting as a spider in the ecosystem that facilitate the digital innovation od SMES. Ecipa Nordest Hub services are addressed to companies (mainly small and micro enterprises) of Friuli Venezia Giulia, Veneto and Trentino Alto Adige. Ecipa Nordest Hub services focuses mainly on: IoT, cloud computing, 3D. The main activities carried out within the project will Focus on: networking among relevant stakeholders, information about the potential of digital technologies (showcasing solutions),demonstration activities to practically approach digital technologies (e.g.: prototyping), education, trainings for SMEs who want to approach digital transformation, consulting services on how to introduce optimization or innovation, facilitation in the adoption of digital innovation.	
DATE OF FIRST EVENT	*12/05/2020*	*LOCATION OF EVENT* — *Online Workshop*
DATE OF SECOND EVENT	*autumn 2020*	*LOCATION OF EVENT* — *Ecipa*
DATE OF THIRD EVENT	*TBC in 2021*	*LOCATION OF EVENT* — *Ecipa*
CRITICAL STAKEHOLDERS	SMEs, HEIs, policy makers, business support organisations, business stakeholders, freelance professionals	
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	• to identify the innovation digital needs of SMEs • to collect and share individual best practices implemented by SMEs • to design suitable services in the field of digital transformation for SMEs • to get a deeper knowledge on type of successful models useful to provide digitalization services to the SMEs	
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	Design thinking Living lab	
ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply*	

	☒ *Data Analytics, Complex Simulation and Modelling* ☐ *Machine Vision* ☒ *Predictive Maintenance* ☐ *Factory & Process Automation* ☐ *DI&I: Machinery* ☐ *Advanced & Smart Materials* ☒ *Industrial IoT* ☐ *Digital Marketing* ☐ *Innovation in a Circular Economy* ☐ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	• identification of the stakeholders to be involved in the workshop • analysis of the carried out DIH services models provided to SMEs • invitation and organization of the workshops • Identification of SMEs needs with the impact of the COVID and opportunities provided by the digital transformation • Identification of a list of services to support SMEs in the digital innovation • identification of joint activities and initiatives to be developed (as a follow up of the action)
EXPECTED IMPACT	• increasing the knowledge and understanding of DIH potential among SMEs, policy makers, HE and research, education & training centers and business support organizations • identify a suitable model to be adopted by the Ecipa Nordest Hub in order to provide services that fit the expectations and the needs of SMEs • introducing Ecipa Nordest Hub acting as a one-stop-shop for SMEs for digital transformation (with expertise, know-how and business & institutional links on the regional and transnational level)
RELEVANCE FOR S3HUBSINCE	• identification of demo cases in IoT, data analytics and predictive maintenance at regional level (Veneto region), based on SMEs needs assessment highlighted during the workshops • collect ideas and concepts for joint strategy or action plans or projects for the future initiatives • establishing and strengthening links between SMEs that declare to act as the ambassadors for digital transformation • involving policy makers, HE and research institutions, education and training centers to support SMEs in business and organizational digital transformation.
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Regional public authority x Higher education and research x Education/ Training Centre and Schools x SMEs x Business Support Organizations

4.7. Krakow Technology Park

PARTNER INFORMATION	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Monika Machowska, Agnieszka Wlodarczyk-Gębik

DIH PILOT ACTION TECHNICAL CONSIDERATIONS			
NAME OF THE DIH PILOT ACTION	Acting locally winning globally in digital transformation. From evangelization to action.		
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Hub4industry		
EVIDENCE OF FORMAL CONNECTION TO THE DIH	www.hub4industry.pl Krakow Technology Park has been officially selected (October 2019) as one of the 5 national Digital Innovation Hubs in Poland that will offer services to support the digital transformation of polish enterprises. Hub4industry is responsible for the provision of services in 4 polish regions located in the south of Poland: Subcarpathia, Silesia, Swietorzyskie and Malopolska. DIH KTP focuses on following technologies: 5G, AI, IoT, cloud computing, cybersecurity, automation &robotics, AR/VR, BIM, 3D. The main activities carried out within the project will Focus on: information about the potential of new technologies (showcasing solutions),demonstration activities to practically approach digital technologies (prototyping, simulation of processes), education, trainings for SMEs who want to approach digital transformation, consulting services on how to introduce optimization or innovation, preparation of digital transformation plan, facilitation of implementation activities integration of new machines, devices and software.		
DATE OF FIRST EVENT	*14/02/2020*	*LOCATION OF EVENT*	*Krakow Technology Park*
DATE OF SECOND EVENT	*03/06/2020*	*LOCATION OF EVENT*	*Online meeting: Industry 4.0. Meeting Point* https://www.meetingpoint.hub4industry.pl/
DATE OF THIRD EVENT	*TBC 2021*	*LOCATION OF EVENT*	*Krakow Technology Park*
CRITICAL STAKEHOLDERS	SMEs, start-ups, LE, academia, policy makers, business support organisations		
SCOPE/OBJECTIVE / PILOT ACTION OUTCOME	• to understand the needs and expectations of SMEs in the area of digital transformation, • to collect and share individual best practices and action plans already introduced in SMEs • to create the detailed short-term and long -term action plan for SMEs • to create tailored set of services and instruments for SMEs • deeper knowledge on: • to identify possibilities of implementation of new technologies in the value chain at various levels		

	• to create Digital Council consisting of SMEs, policy makers and HE to act as Advisory and Support body for joint implementation of effective digital transformation in Malopolska region under KTP DIH
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	• Design thinking • Living lab • Industry 4.0 meeting point – A new formula for online meetings for industry. We transfer 1 to 1 meetings and real networking.
ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☒ *Data Analytics, Complex Simulation and Modelling* ☒ *Machine Vision* ☒ *Predictive Maintenance* ☒ *Factory & Process Automation* ☒ *DI&I: Machinery* ☐ *Advanced & Smart Materials* ☒ *Industrial IoT* ☐ *Digital Marketing* ☐ *Innovation in a Circular Economy* ☐ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	• identification of the participants of the workshop (14.02.2020) • preparation of the questionnaire for initial needs assessment • creation of on - line questionnaire • analysis of the carried out initial on – line needs assessment (including business and organizational readiness for digitalization, SMEs resources, TPAs declared by SMEs, barriers & challenges, digital transformation agenda & plan) • invitation and organization of the workshops • FGI: deeper understanding of SMEs needs and expectations re the digital transformation, creating a list of needed & required services to support SMEs in transformation process • identification of joint activities and initiatives (for example joint study visits, technology-oriented demonstrations or workshops at the SME factory, technology priority areas-oriented roundtables • follow up information send to all the stakeholders involved
EXPECTED IMPACT	• increasing the knowledge and understanding of DIH initiative among SMEs, policy makers, HE and research, education & training centers and business support organizations • increasing the level of awareness among SMEs on their digitalization needs and expectations • introducing KTP DIH acting as a one-stop-shop for SMEs for digital transformation (with expertise, know-how and business & institutional links on the regional and transnational level) • creating joint vision for Malopolska region for how to start/ initiate and run digital transformation in Malopolska SMEs • getting involvement and declaration of all representatives of quadruple helix to build joint CERIS strategy focused on digital transformation • setting a joint action plan • strengthening the cooperation among representatives of quadruple helix

	• increasing the level of awareness among policymakers on TPAs • DIH services and products focused and tailored to SMEs needs and expectations depending on technology and digital readiness
RELEVANCE FOR S3HUBSINCE	• identification of champions on robotics and production automation on regional level (Malopolska region), based on SMEs needs assessment presented in questionnaire and workshops • creating a data base of good practices and ideas and concepts for joint strategy and action plans for the future initiatives • establishing and strengthening links between SMEs that declare to act as the ambassadors for digital transformation • involving policy makers, HE and research institutions, education and training centers to support SMEs in business and organizational digital transformation. • identification of possibilities of implementing joint concepts and tests and run common projects on the CE level related to robotics and production automation
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Local public authority x Regional public authority x National public authority x Higher education and research x Education/ Training Centre and Schools x Large Enterprises x SMEs x Business Support Organizations

4.8. TECOS – Slovenian Tool and Die Development Center

PARTNER INFORMATION	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Simona Knežević Vernon, Aleš Hančič

DIH PILOT ACTION TECHNICAL CONSIDERATIONS			
NAME OF THE DIH PILOT ACTION	SMART THINKING FOR SMART MANUFACTURING – Help manufacturing companies adopt the principles and mentality of innovation adoption to increase their competitiveness and improve workforce competences.		
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Digital innovation hub Slovenia		
EVIDENCE OF FORMAL CONNECTION TO THE DIH	https://dihslovenia.si/ Digital innovation hub Slovenia is an institution established by Chamber of commerce of Slovenia, with TECOS being one of the main strategic partners of the institution, supporting DIHS in providing services to companies supporting their digitalization especially those operating in the manufacturing sector. As such TECOS' expertise in innovation for manufacturing and factory and process automation solutions are the ones, where we are supporting the DIHS. Services of DIHS are related to digitalization support of the SMEs in the whole Slovenia, covering all sectors and supporting the implementation of the voucher scheme offered by Slovenian Entrepreneurship fund. As such DIHS offers and covers a wide range of focuses, since its organization is based on a Hub and spoke model, where DIHS is a more generalist, whereas individual strategic partners offer specialized services for specific sectors – e.g. TECOS is specializing on IOT, factory and process automation, 3D modelling and printing and innovation introduction. Main activities within the project will focus on: networking among stakeholders, introducing the advantages through best practices of innovation in manufacturing and factory and process automation, showcasing best practices and demonstration activities, education and trainings in the Factory and process automation and lean and agile innovation.		
DATE OF FIRST EVENT	*25/08/2020*	*LOCATION OF EVENT*	*Online Workshop*
DATE OF SECOND EVENT	*autumn 2020*	*LOCATION OF EVENT*	*TECOS*
DATE OF THIRD EVENT	*TBC in 2021*	*LOCATION OF EVENT*	*TBD*
CRITICAL STAKEHOLDERS	SMEs, HEIs, policy makers, business support organisations, business stakeholders, free-lance professionals		
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	• to get deeper knowledge on the needs of manufacturing SMEs in factory and process automation • to identify innovation potentials of SMES and obstacles they are facing • to collect and share individual best practices implemented by SMEs		

	• to test the designed suitable services in the field of digital transformation for SME
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	Lean innovation Living lab
ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☒ *Data Analytics, Complex Simulation and Modelling* ☒ *Machine Vision* ☐ *Predictive Maintenance* ☒ *Factory & Process Automation* ☒ *DI&I: Machinery* ☐ *Advanced & Smart Materials* ☒ *Industrial IoT* ☐ *Digital Marketing* ☐ *Innovation in a Circular Economy* ☒ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	• design of the structure of the project and workshops • identification of stakeholders to be involved • identification of SMEs needs related to COVIED-19 impact, • invitation and organization of the workshops • Identification of a list of services to support SMEs in the digital innovation • identification of joint activities and initiatives to be developed beyond the action
EXPECTED IMPACT	• increasing the knowledge and understanding of DIH potential among SMEs, policy makers, HE and research, education & training centers and business support organizations • optimizing and utilizing the innovation potential of manufacturing SMEs, • adjustment of the designed DIH services based on the real needs of SMEs and consequently improvement of innovations in manufacturing SMEs.
RELEVANCE FOR S3HUBSINCE	• Identification of good practices in Factory and process automation, as well as in Innovation in DI& I in Slovenia, as well as transfer of those from CE area in Slovenia. • Collect ideas and needs for Action plans and future projects • Improving competences of DIHs, and increase expertise and its transfer.
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* x Regional public authority x Higher education and research x Education/ Training Centre and Schools x SMEs x Business Support Organizations

4.9. PBN – Pannon Business Network Association

PARTNER INFORMATION	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	Balázs Barta , balazs.barta@pbn.hu Martin Dan martin.dan@pbn.hu
DIH PILOT ACTION TECHNICAL CONSIDERATIONS	
NAME OF THE DIH PILOT ACTION	DIH Raising awareness workshop towards regional policy stakeholders and university players
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Advanced-Manufacturing Laboratory (am-LAB) DIH
EVIDENCE OF FORMAL CONNECTION TO THE DIH	https://pbn.hu/en/ http://www.amlab.hu/en/index.php With the cooperation of PBN an advanced manufacturing centre, called am-LAB (PBN's spin-off company) was established in 2017, and since then this laboratory has gained the DIH status. The am-LAB is a service centre specialized on the application and presentation of most recent manufacturing technologies to develop smart end-user product in strong co-operation with our key customers. In am-LAB skilled and motivated multidisciplinary team of economists, engineers, medical staff, sales manager and international project coordinators work together who prefer lifelong learning Applied physics, sensor technology, modelling, ICT are representing the core technical competencies, while data analysis and visualization, project engineering, ROI calculations of the business perspectives. Sensor technology applications, polymer printing integration, strong interactions of smart production technologies ensure the smart character of the products and services offered by the am-LAB team. Due to cooperation with national institutions PBN supported approx. 300 companies in 2018.

DATE OF FIRST EVENT	*mid-June*	***LOCATION OF EVENT***	Advanced-Manufacturing Laboratory (am-LAB) DIH
DATE OF SECOND EVENT	*beginning of 2021*	***LOCATION OF EVENT***	Advanced-Manufacturing Laboratory (am-LAB) DIH
DATE OF THIRD EVENT	*autumn of 2021*	***LOCATION OF EVENT***	Advanced-Manufacturing Laboratory (am-LAB) DIH
CRITICAL STAKEHOLDERS	local policy makers, regional policy makers, business support organisations, universities		
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	• Informing the decision makers on regional and local level into the activities and services carried out/envisaged by am-LAB DIH • Awareness raising towards policy makers about the DIHs in general concentrating on the main activities and results of am-LAB • Informing the policy stakeholders about the roles of DIHs in the 2021-27 programming period→ emphasizing the		

	significance of DIHs in this period and the planned activities of am-LAB in accordance with the program requirement
	• Extend the cooperation network of our DIH→ Gain support from the policy stakeholders→ with joint effort am-LAB might extend its digitalisation portfolio
	• Highlighting am-LAB main digitalization results
	• Creating the detailed short-term and long-term action plan for the region
	• to understand the needs and expectations of policy makers in the area of digital transformation
	• Sharing individual best practices and action plans of am-LAB which might be utilized by policy makers
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	• Interactive presentation; • Living lab • Inno HUB
ASSOCIATED NAVIGATION CREWS	*Choose as many which will apply* ☒ *Data Analytics, Complex Simulation and Modelling* ☒ *Machine Vision* ☒ *Predictive Maintenance* ☒ *Factory & Process Automation* ☒ *DI&I: Machinery* ☒ *Advanced & Smart Materials* ☒ *Industrial IoT* ☒ *Digital Marketing* ☒ *Innovation in a Circular Economy* ☒ *Design & Engineering for Additive Manufacturing*
REQUIRED RESOURCES	• identification of the participants of the workshop • assess the needs of policy makers-→ review the needs assessment questionnaire filled • analysis of the already carried out need's assessment interview • invitation and organization of the workshops (1 in T2 and 2 in T3) • deeper understanding of policy makers' needs and their expectations towards the digital transformation, • identification of joint activities and initiatives (for example joint study visits, technology-oriented demonstrations or workshops focusing on the technology priority areas (Navigation Crew topics) oriented roundtables • follow up information send to all the stakeholders involved
EXPECTED IMPACT	• Policy makers and other participants will widen their knowledge about the DIHs in general • Participants of the workshop will be informed about the main activities and results of am-LAB • am-LAB Industry 4.0 services, best practices- in correlation with the Navigation Crew topics- will be also shared

	- increasing the level of awareness among policymakers on Technology Priority Areas (Navigation Crew topics) - The regional network on policy level might be strengthened - Extend the cooperation network of our DIH→ Gain support from the policy stakeholders→ with joint effort am-LAB might extend its digitalisation portfolio and services - Digitalisation knowledge and best practices of our DIH might be shared - increasing the knowledge and understanding of DIH initiative among policy makers, - increasing the level of awareness among policy makers on their digitalization needs and expectations - creating joint vision for West-Transdanubian region for how to start/ initiate and run digital transformation - getting involvement and declaration of all representatives of quadruple helix to build joint CERIS strategy focused on digital transformation
RELEVANCE FOR S3HUBSINCE	- Good practice how to cooperate with the public and educational sector, and how to involve them in project activities - Discuss the policy needs, and endeavour to satisfy their needs and priorities - creating a data base of good practices and ideas and concepts for joint strategy and action plans for the future initiatives - establishing and strengthening links between policy stakeholders that declare to act as the key players for digital transformation - involving policy makers, to support SMEs in business and organizational digital transformation. - identification of possibilities of implementing joint concepts and tests and run common projects on the CE level
TARGET GROUPS	*Which Target Groups are you planning to reach with the workshop?* Local public authority Regional public authority (National public authority) Universities

4.10. Croatian Chamber of Economy – Varazdin County Chamber

PARTNER INFORMATION	
PARTNER'S RESPONSIBLE MANAGER FOR DIH PILOT ACTION	**Renata Papec**

DIH PILOT ACTION TECHNICAL CONSIDERATIONS			
NAME OF THE DIH PILOT ACTION	DIH Matrix Varaždin		
NAME OF OFFICIAL REGIONAL DIGITAL INNOVATION HUB	Innovation Centre Nikola Tesla (ICENT) Zagreb is the leading constituent of the innovation ecosystem in Croatia for applied research and development in the field of engineering and related applications that lead Croatian society and economy towards competitiveness and sustainability. Croatian Robotics Digital Innovation Hub (CROBOHUB), hosted within ICENT, is the key Croatian facility to support companies to become more competitive by improving their business/production processes as well as products and services by up-taking digital technologies and robotic solutions.		
EVIDENCE OF FORMAL CONNECTION TO THE DIH	https://www.icent.hr/en/; Memorandum of Understanding		
DATE OF FIRST EVENT	June, 2020	**LOCATION OF EVENT**	On line or HGK
DATE OF SECOND EVENT	Beginning of 2021	**LOCATION OF EVENT**	[Insert location of Event]
DATE OF THIRD EVENT	tbd	**LOCATION OF EVENT**	[Insert location of Event]
CRITICAL STAKEHOLDERS	Local, regional and national public authority, SMEs, LE, universities, business support institutions, technology providers		
SCOPE/OBJECTIVE/ PILOT ACTION OUTCOME	[insert the scope/objective and expected outcome of DIH PILOT ACTION] • To assure access of local companies and other stakeholders to the newest digital technologies and training • To help companies better understanding how digital technologies can improve efficiency • To provide services for the digitalisation • To support the development of the regional innovation ecosystem		
WHAT FRAMEWORK OF INTERACTIVE/ COLLABORATIVE EXCHANGE WILL YOU BE USING?	Please provide some text insight into the methodology which your planning team is looking to use to create an interactive/ collaborative workshop. Open debate; site visite; best practice exchange;		
ASSOCIATED NAVIGATION CREWS	**Choose as many which will apply** ☒ Data Analytics, Complex Simulation and Modelling ☒ Machine Vision ☒ Predictive Maintenance ☒ Factory & Process Automation ☒ DI&I: Machinery ☐ Advanced & Smart Materials ☒ Industrial IoT		

	☒ Digital Marketing ☒ Innovation in a Circular Economy ☐ Design & Engineering for Additive Manufacturing
REQUIRED RESOURCES	This action will include organisation of three regional workshops with stakeholders from local, regional and national authority, business support organisations, relevant manufacturing sectors, the related education and R&D institutions. Effective organization of event includes suitable date and venue for meeting/on line platform and well-designed agenda, invitation, speakers and evaluation.
EXPECTED IMPACT	The actions will first of all affect the companies and organisations involved in the actions in the way that they will be able to confirm status/level of digital transformation readiness and the possibility to compare with the existing technologies. Also, participation in the actions will enable companies to change their mind-set towards innovative way of thinking and enable transfer of knowledge and possibility of staff training. Eventually, all these outcomes can lead to new investments in modernization of production, reduction of production costs and consequently creation of high-quality jobs and increase competitiveness. As for the SMEs, the actions can facilitate the user becoming more competitive and faster in responding to market needs and adapting production faster and easier.
RELEVANCE FOR S3HUBSINCE	The role of the actions should be increasing the awareness of using digital technology in the manufacturing sector in the region. The opportunity offered by project partnership is to contribute to development of regional cooperation potential through challenges of the mutual cooperation and projects.
TARGET GROUPS	Which Target Groups are you planning to reach with the workshop? X Local public authority X Regional public authority X National public authority X Higher education and research X Education/ Training Centre and Schools X Large Enterprises X SMEs X Business Support Organizations

5. Support Actions & Navigation Crew Action Plans

In addition to the Digital Innovation Hub Pilot Actions, Partners also planned a series of support actions which will be used to build relationships between Digital Innovation Hubs and create value for organisations which are critical for regional innovation smart specialisation.

Each Partner has dedicated their team to planning five support actions to build these opportunities. As explained in the methodology section, Training and Mobility actions look to build understanding and learning between digital innovation hubs. Transfer and Cooperation actions are looked to build RIS3 excellence. Within the following pages of this report, one can find a detailed list of the actions which are being championed by each Partner. The support actions have been laid out as part of Navigation Crew Action Plans. Navigation crews will be a network tool that is used to implement the support actions.

It is often that you will see actions applied to multiple thematic network areas, where Partners are looking for stakeholder support across a number of topic areas in order to deliver their value-creation vision. As is the nature of many technical solutions, it requires insight and expertise in multiple technology areas to bring a comprehensive application.
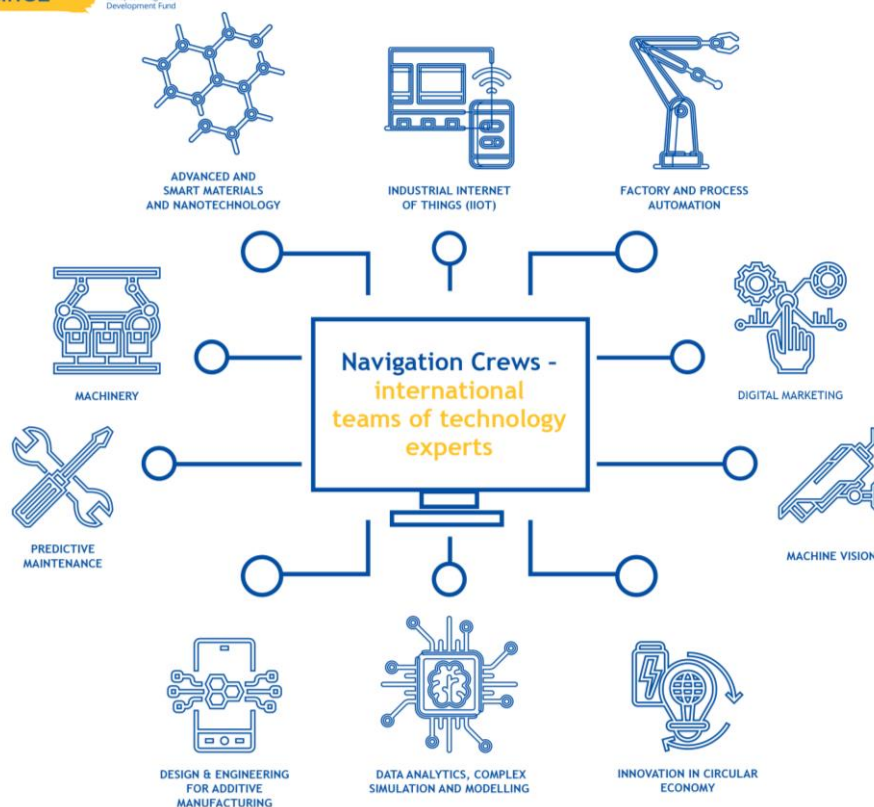

Figure 8 Visualization of the Navigation Crews (Source: Krakow Technology Park)

It is likely that actions may shift slightly as programming period strategy at regional, national and EU level is released across the upcoming year. Therefore, that Partners are utilising a planning tool called ASANA, to create up-to-date information exchange between Navigation Crew internal team members.

5.1. Support Action Overview

The following section provides some simple insight into the support actions planned by each Partner. For full detail of each Partner's actions, please contact the project management team. In total, over 60 additional actions have been planned to connect Partners, their Digital Innovation Hubs and the thematic Navigation Crews to which they are associated. This number includes 33 new transfer and cooperation projects which the partners will be working to implement over the coming months.

5.1.1. Carinthia University of Applied Sciences

Action Coordinator	Roland Willmann		
Total Action Count	6		
Action Type	**Action Name**	**Related Navigation Crew**	**Included CE Countries**
T&C	Digital Maturity Assessment 4 Manufacturing SME	➢ DI&I: Machinery	Slovenia Croatia Hungary Poland Italy Austria Germany
T&C	Design Patterns 4 Smart Materials	➢ *Advanced & Smart Materials* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Austria
T&C	Joint Project Proposal 3dppan.Eu Call	➢ *Design & Engineering for Additive Manufacturing*	Slovenia Austria
T&C	Knowledge Transfer On DIH-Databases of Experts Based on Actual Use Cases @ ASAM Project	➢ *Design & Engineering for Additive Manufacturing*	Slovenia Austria
T&M Transnational	Decision-Making Tool Concerning the Economic Use of AM For Production of Handling Tools in High-Volume Production @ Tool Makers Day Slovenia	➢ *Design & Engineering for Additive Manufacturing*	Slovenia Austria
T&M Regional	Circular Economy @ E-Nova 2020	➢ *Design & Engineering for Additive Manufacturing* ➢ *Innovation in a Circular Economy*	Austria

Action Coordinator	Markus Hoffman
Total Action Count	9

Action Type	Action Name	Related Navigation Crew	Included CE Countries
T&C	To Foster the Awareness of The Benefits of Digital Marketing for Regional Stakeholders	*Digital Marketing*	Austria Slovenia
T&C	Tailored Educational Trainings/Seminars for SME In Regard to Digital Marketing Topics.	*Digital Marketing*	Austria
T&C	Artificial Intelligence Solutions in The Area of Energy and Digital Marketing	*Digital Marketing*	Austria
T&C	Competence Network for Industrial IoT: From Basic Applications Towards Upgraded Developments for Predictive Maintenance and Integrating Artificial Intelligence	*Predictive Maintenance*	Hungary Austria
T&M Transnational	Artificial Intelligence Study Tour/Workshop in Baden-Württemberg (Workshop Hosted By BWCON)	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Industrial IoT*	Germany Austria
T&M Transnational	The Digital Transformation Ecosystem In Veneto Region	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Industrial IoT*	Italy Austria
T&M Transnational	Seminar on Digital Assessment Tools and IIot Experiences	➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Germany Austria
T&M Transnational	Factory 4.0. Factory & Process Automation	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Factory & Process Automation*	Poland Austria
T&M Regional	Transnational Exchange Action for Digital Technologies	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Design & Engineering for Additive Manufacturing*	Croatia Poland Italy Austria Germany

5.1.3. Bwcon GmbH

Action Coordinator	Carla Marquez – marquez@bwcon.de Valentina Grillea – grillea@bwcon.de
Total Action Count	5

Action Type	Action Name	Related Navigation Crew	Included CE Countries
T&C	"BE-READI ALPS" Business Economic Renewal to Enhance Strategic Development and Innovation in Alpine Space (Interreg Alpine Space Project)	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Slovenia Italy Austria Germany
T&C	"Circular 4.0" Digital Technologies as Enabler to Foster the Transition to The Circular Economy by The SME In the Alpine Space Area (Interreg Alpine Space Project)	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Slovenia Italy Austria Germany
T&C	MIND4MACHINES Project: Manufacturing Industry's Novel Digitalization Value Chains for Connecting Machines with People, Process, And Technology (Submitted Under H2020-INNOSUP-2020-01-Two-Stage)	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Industrial IoT* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Italy Germany
T&M Transnational	Enova 2020	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Digital Marketing*	Germany Austria
T&M Regional	PBN, IMECH & FB representatives join the Hightech Summit to Participate in Technology Lectures and Round Tables Devoted to AI technologies	➢ *Data Analytics, Complex Simulation and Modelling*	Hungary Italy Germany Austria

5.1.4. Fraunhofer IWU – Institute for Machine Tools and Forming Technology

Action Coordinator	Holger Kunze
Total Action Count	5

Action Type	Action Name	Related Navigation Crew	Included CE Countries
T&C	German-Austrian Project "Leitprojekt" On Production Systems Including Smart & Advanced Materials with Partners from Germany (KIT, Fraunhofer) And Austria (Profactor, Industrie 4.0)	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Austria Germany
T&C	Transnational Cooperation Project to Connect Innovation Eco-System of Germany, Hungary And Slovenia.	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Germany Hungary Slovenia
T&C	Transnational Cooperation Project to Connect Innovation Eco-System of Germany And Italy	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Germany Italy
T&M Transnational	Transnational Exchange Action for Digital Technologies	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Design & Engineering for Additive Manufacturing*	Croatia Poland Italy Austria Germany
T&M Regional	Seminar on Digital Assessment Tools and IIot Experiences	➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Slovenia Croatia Hungary Poland Italy Germany

Action Coordinator	Valerio Pesenti Stefano Ierace		
Total Action Count	**6**		
Action Type	**Action Name**	**Related Navigation Crew**	**Included CE Countries**
T&C	**Digital Industry Transformation Atlas**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Industrial IoT*	Austria Germany Italy
T&C	**H2020 Exploitation Radar**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Germany Hungary Slovenia Italy
T&C	**Activating PPPs To Support Digital Innovation Processes**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Germany Italy
T&M Transnational	**Artificial Intelligence Related Seminars in Baden-Württemberg Hosted By BWCON**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Advanced & Smart Materials* ➢ *Design & Engineering for Additive Manufacturing*	Croatia Poland Italy Austria Germany
T&M Transnational	**ENova Campus**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance*	Austria Italy
T&M Regional	**Public Private Partnerships Supporting Smart Industry Dedicated Labs**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Slovenia Croatia Hungary Poland Italy Germany

5.1.6. ECIPA – Training and Service Agency Consortium

Action Coordinator	Simona Aceto		
Total Action Count	5		

Action Type	Action Name	Related Navigation Crew	Included CE Countries
T&C	INNOREGIO - Creating A Common Innovation and Cooperation Area in The Involved Regions Promoted by A Cross-Border System for Innovation and Value Creation Partnerships	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Industrial IoT*	Italy Austria
T&C	TECHMOLOGY - New Technologies and Transnational Networks for Mobility	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Industrial IoT*	Slovenia Italy
T&C	EXPLOREINNOSPACES - Explore Innovation Solutions in A Cross-Border Area Through A Facilitating Cooperation Platform	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Industrial IoT*	Slovenia Croatia Hungary Poland Italy Germany
T&M Transnational	AM-LAB Meets Ecipa Nordest Hub: Sharing Know-How and Experiences About Models and Practices in Digital Transformation Services	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Industrial IoT*	Hungary Italy
T&M Regional	The Digital Transformation Ecosystem in Veneto Region	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Industrial IoT*	Italy

5.1.7. Krakow Technology Park

Action Coordinator	Monika Machowska
Total Action Count	7

Action Type	Action Name	Related Navigation Crew	Included CE Countries
T&C	**Central Europe Upstreaming for Policy Excellence in Advanced Manufacturing & Industry 4.0 Towards 2030**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Hungary Poland Italy Germany
T&C	**Transnational Cooperation Project: Boosting Digital Innovation Adoption Through AI**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing*	Poland Italy
T&C	**Study Visit to Stuttgart Region, Creating Opportunities for Cooperation and Transfer of Knowledge and Innovations Among Companies on Transnational Level**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Industrial IoT*	Germany Poland
T&M Transnational	**Seminar on Digital Assessment Tools and Ilot Experiences**	➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Germany Poland
T&M Transnational	**The Enova 2020 Conference**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Predictive Maintenance* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Design & Engineering for Additive Manufacturing*	Poland Austria
T&M Transnational	**Digital Transformation in manufacturing enterprises**	➢ *DI&I: Machinery*	Slovenia Croatia Hungary Poland Italy Austria Germany
T&M Regional	**Factory 4.0. Factory & Process Automation**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Factory & Process Automation*	Slovenia Croatia Hungary Poland Italy Germany

Action Coordinator	Simona Knežević Vernon		
Total Action Count	**5**		
Action Type	**Action Name**	**Related Navigation Crew**	**Included CE Countries**
T&C	**DIGITALIZATION IN MANUFACTURING**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Industrial IoT*	Slovenia Italy Austria
T&C	**INNOVATION IN DIGITALIZATION**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Industrial IoT*	Slovenia Hungary Italy Austria Germany
T&C	**Industrial transformation in machinery – testing lessons learnt from High impact action mechanism**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Slovenia Hungary Italy Germany Austria
T&M Transnational	**Fast prototyping facilities in practice**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Slovenia
T&M Regional	**Roundtable: how can the entrepreneurship and innovation ecosystem contribute to innovation in manufacturing**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Industrial IoT*	Slovenia

Action Coordinator	Balázs Barta balazs.barta@pbn.hu
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	Martin Dan martin.dan@pbn.hu

Total Action Count	8

Action Type	Action Name	Related Navigation Crew	Included CE Countries
T&C	Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the Chain Reactions CE project	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Innovation in a Circular Economy*	Hungary Germany
T&C	Application of digital solutions in the field of health, learning from the SMARTEN project H2020	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Design & Engineering for Additive Manufacturing*	Hungary Austria
T&C	Artificial Intelligence solutions in the area of Health, Manufacturing and Smart Cities	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Design & Engineering for Additive Manufacturing*	Hungary Austria
T&C	Knowledge transfer between IWU-PBN in connection with the application of smart materials in SMEs	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Design & Engineering for Additive Manufacturing*	Hungary Germany
T&M Transnational	PBN's DIH (called am-LAB) representatives take part in Seminar on digital assessment tools and IIot experiences	➢ *Advanced & Smart Materials* ➢ *Industrial IoT*	Germany Hungary
T&M Transnational	PBN's DIH (called am-LAB) representatives take part in	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Advanced & Smart Materials*	Germany Hungary

	Artificial Intelligence related seminars workshop in Baden-Württemberg workshop hosted by BWCON	➢ *Design & Engineering for Additive Manufacturing*	
T&M Transnational	**PBN's DIH (called am-LAB) representatives take part in study visit in a technology center of ITEMA and a Japanese enterprise in Italy hosted by IMECH**	➢ *Factory & Process Automation* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Design & Engineering for Additive Manufacturing*	Italy Hungary
T&M Regional	**ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization**	➢ *Data Analytics, Complex Simulation and Modelling* ➢ *Machine Vision* ➢ *Predictive Maintenance* ➢ *Factory & Process Automation* ➢ *DI&I: Machinery* ➢ *Advanced & Smart Materials* ➢ *Industrial IoT* ➢ *Digital Marketing* ➢ *Innovation in a Circular Economy* ➢ *Design & Engineering for Additive Manufacturing*	Hungary Italy Austria

Action Coordinator	Renata Papec Božica Šantek		
Total Action Count	**5**		
Action Type	**Action Name**	**Related Navigation Crew**	**Included CE Countries**
T&C	Factory Automation Use Case Project	➤ *Data Analytics, Complex Simulation and Modelling* ➤ *Machine Vision* ➤ *Predictive Maintenance* ➤ *Factory & Process Automation* ➤ *DI&I: Machinery* ➤ *Industrial IoT* ➤ *Innovation in a Circular Economy*	Slovenia Hungary Italy Germany Austria Croatia Poland
T&C	Transnational Cooperation Project to Establish A Competence Centre/DIH In Varaždin, Croatia And Contribute to Building the Regional Eco-System and Making It Sustainable Over Time	➤ *Data Analytics, Complex Simulation and Modelling* ➤ *Machine Vision* ➤ *Predictive Maintenance* ➤ *Factory & Process Automation* ➤ *DI&I: Machinery* ➤ *Industrial IoT* ➤ *Digital Marketing* ➤ *Innovation in a Circular Economy*	Croatia
T&C	Digital Marketing Project to Enable/Include More Companies to Take Advantage of The Benefits of Digital Marketing	➤ *Data Analytics, Complex Simulation and Modelling* ➤ *Digital marketing*	Slovenia Hungary Italy Germany Austria Croatia Poland
T&M Transnational	HGK's Project Members and Stakeholders Representatives Take Part in Webinar on Digital Assessment Tools, Ilot Solutions and Experiences	➤ *Advanced & Smart Materials* ➤ *Industrial IoT*	Germany Croatia
T&M Regional	Assessing and Improving the Digital Maturity of Enterprises	➤ *Data Analytics, Complex Simulation and Modelling* ➤ *Factory & Process Automation* ➤ *DI&I: Machinery* ➤ *Digital Marketing*	Slovenia Croatia

5.2. Navigation Crew Action Plans

Each Navigation Crew's goal during this planning period, was to ensure its active members were connected with actions, both training and mobility, and transfer and cooperation-oriented. Table 2 provides an overview of how many connected actions were tabulated for each Navigation Crew. It is important to note that some actions are repeated between Navigation Crews, because the scope of the action was to develop a multi-pronged technology-solution to an identified regional challenge. Because of this fact, no "total sum" is given in this portion of the report, and readers are requested to refer to the previous section for the summarized detail of each action on a Partner by Partner basis.

Table 2 Action Count by Navigation Crew (Source: Author Generated)

Navigation Crew	Total Action Count
Industrial IoT	57
Factory & Process Automation	15
Machine Vision	19
Predictive Maintenance	28
Design & Engineering for Additive Manufacturing	14
Data Analytics, Complex Simulation and Modelling	44
Innovation in a Circular Economy	7
Digital Marketing	4
Advanced and Smart Materials	17
DI&I: Machinery	13

The Navigation Crew Action Plans, were transferred to a digital tool – ASANA – as previously described. Within ASANA, each Navigation Crew Leader works with the Partners to monitor action delivery. As per the project plan, Partners and their stakeholder networks work to implement these actions over the next 18 months.

5.2.1. Industrial Internet of Things (IIoT)

Action Plan for	Industrial IoT
Navigation Crew Leader	IWU
Navigation Crew Members	IWU, Ecipa, PBN, HGK, FB, IMECH, TECOS
Total Action Count	57

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Transnational Cooperation Project	A.1	**IWU**	Transfer & Cooperation Action	Visits by Fraunhofer IWU and TECOS to Hungarian SMEs and RIS3 actors have found a lot of interest within the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits.	03/06/2019	TBC	Germany (Saxony), Hungary, Slovenia possible others	in progress
BE-READI ALPS	A.2	**bwcon**	Transfer & Cooperation Action	Business Economic Renewal to Enhance strategic Development and Innovation in Alpine Space	02/10/2019	01/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
Circular 4.0	A.3	**bwcon**	Transfer & Cooperation Action	Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area	02/10/2019	30/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				(Interreg Alpine Space Project)			SI: Drava DE: Baden-Württemberg	
Study visit to Stuttgart region	A.4	**KPT**	Transfer & Cooperation Action	Creating opportunities for cooperation and transfer of knowledge and innovations among companies on transnational level	05/10/2019	10/10/2019	Małopolskie, Świętokrzyskie, Wielkopolskie, Łódzkie, Mazowieckie, Dolnośląskie regions (PL) and Stuttgart region (DE)	complete
Transnational Cooperation Project	A.5	**IWU**	Transfer & Cooperation Action	Visits by Intellimech with a delegation of RIS3 actors to Fraunhofer IWU have found a lot of interest on both sides and with the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits.	08/11/2019	TBC	Germany (Saxony), Italy,	in progress
Transnational Cooperation Project	A.6	**IWU**	Transfer & Cooperation Action	Plans for German-Austrian Project "Leitprojekt" on production systems including Smart & Advanced Materials with partners from Germany (KIT, Fraunhofer) and Austria (Profactor, Industrie 4.0)	01/01/2020	31/08/2020	Germany (Saxony), Austria	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Acting locally winning globally in digital transformation. From evangelization to action.	A.7	**KPT**	Digital Innovation Hub Pilot Action	Krakow Technology Park has been officially selected (October 2019) as one of the 5 national Digital Innovation Hubs in Poland that will offer services to support the digital transformation of polish enterprises.	14/02/2020	14/02/2020	Małopolskie	complete
Central Europe Upstreaming for Policy Excellence in Advanced Manufacturing & Industry 4.0 towards 2030	A.8	**KPT**	Transfer & Cooperation Action	The project is the continuation and further development of the consequent activities and action plans undertaken by project partners originating from project partners consortiums as: 3DCentral, Synergy and S3HubsinCE financed by Interreg CE and SISCODE, Spirit i DIH2 financed by Horizon2020	01/03/2020	28/02/2022	Małopolskie (Poland), Vas (Hungary), Saxony (Germany), Lombardy (Italy)	in progress
Transnational cooperation project	A.9	**KPT**	Transfer & Cooperation Action	Boosting digital innovation adoption through AI	tbc	tbc	Małopolskie (Poland) Lombardy (Italy)	to do
MIND4MACHINES	A.10	**bwcon**	Transfer & Cooperation Action	Manufacturing industry's novel digitalization value chains for connecting machines with people, process, and technology (submitted under H2020-	15/04/2020	15/10/2020	•IT: Torino •DE: Saxony, Baden-Württemberg	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				INNOSUP-2020-01-two-stage)				
TICKET	A.11	**ECIPA**	Digital Innovation Hub Pilot Action	Introduction Ecipa Nordest Hub - Transform & Innovate Companies through the Key of the digitalization to Enhance compeTitiveness.	12/05/2020	12/05/2020	Veneto	complete
Digitalization potential Analysis (DPA) and IIoT experiences	A.12	**IWU**	Training & Mobility Action	Train the trainer on DPA and introduce some actual projects of the IWU on the topic IIoT	18/05/2020	18/05/2020	Saxony, North East Italy, Slovenia, Croatia, Hungary	complete
Cooperation InnoSax and S3Hubs	A.13	**IWU**	Digital Innovation Hub Pilot Action	Introduction Workshop	27/05/2020	27/05/2020	Saxony	complete
Competence Network for Industrial IoT	A.14	**FB**	Transfer & Cooperation Action	From basic applications towards upgraded developments for Predictive Maintenance and integrating Artificial Intelligence]	02/06/2020	30/06/2021	Regions from IIoT Navigation Crew: Burgenland, Saxony, Hungary, Slovenia, Croatia, Veneto, Lombardy; PP regions: Baden-Wurttemberg, Carinthia, Malepolska; Further CE regions: Styria, Tyrol, Vorarlberg, South	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
							Tyrol, Bavaria, Czech Republic, Slovakia; Regions outside CE: Switzerland, Flanders.	
Acting locally winning globally in digital transformation. From evangelization to action.	A.15	**KPT**	Digital Innovation Hub Pilot Action	Second Meeting	03/06/2020	03/06/2020	Małopolskie	complete
Digital Roadmaps and Intervention Strategies	A.16	**IMECH**	Digital Innovation Hub Pilot Action	Public Private Partnerships supporting the digital readiness of European enterprises	07/07/2020	07/07/2020	Lombardy	complete
DIH Matrix Varaždin	A.17	**HGK**	Digital Innovation Hub Pilot Action	Innovation Centre Nikola Tesla (ICENT) Zagreb is the leading constituent of the innovation ecosystem in Croatia for applied research and development in the field of engineering and related applications that lead Croatian society and economy towards competitiveness and sustainability.	June	June	Croatia	in progress
S3-DIH-Ost	A.18	**FB**	Digital Innovation	The Federal Ministry for digital and economic affairs (BMDW) supports	31/07/2020	31/07/2020	Austria	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Marketing for Digital transformation			Hub Pilot Action	the establishment of the national Digital Innovation Hub Ost (DIH-Ost).				
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.19	**PBN**	Digital Innovation Hub Pilot Action	With the cooperation of PBN an advanced manufacturing centre, called am-LAB (PBN's spin-off company) was established in 2017, and since then this laboratory has gained the DIH status.	Mid-June	Mid-June	HUN: West-Transdanubia	complete
Activating PPPs to support digital innovation processes	A.20	**IMECH**	Transfer & Cooperation Action	The idea of the TCA consists in taking the model behind the humanoid robotic platform LAB (based on a Public Private Partnership) and cooperate with interested Crews to extend the PPP model to other areas (technology areas and geographical areas).	01/07/2020	31/12/2021	All CE Regions	in progress
H2020 Exploitation Radar	A.21	**IMECH**	Transfer & Cooperation Action	Deepen the knowledge and further develop solutions in: 1.Zero Defect Manufacturing (Qu4lity) 2.Cyber Physical Systems (DIH4CPS)	01/07/2020	31/12/2021	All CE Regions	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				3.Artificial Intelligence				
Forum Digital	A.22	**PBN**	Transfer & Cooperation Action	Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the Chain Reactions CE project 2. Cyber Physical Systems (DIH4CPS) 3.Artificial Intelligence	01/07/2020	TBC 2021	HUN: West-Transdanubia GER: Bayern	in progress
The Digital Transformation ecosystem in Veneto region	A.23	**ECIPA**	Training & Mobility Action	To share knowledge about: • the benefits of enhancing digital transformation through an integrated ecosystem with complementary competences and services; • the exchange of good practices and demo cases of concrete cooperation models; • how to develop cooperation activities in the fields of IoT, Data	23/07/2020	23/07/2020	•Veneto •Regions of participant PPs	complete

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				Analytics and Predictive Maintenance.				
S3-DIH-Ost Marketing for Digital transformation	A.24	**FB**	Digital Innovation Hub Pilot Action	First meeting	31/07/2020	31/07/2020	Burgenland	to do
SMART THINKING FOR SMART MANUFACTURING	A.25	**TECOS**	Digital Innovation Hub Pilot Action	Help manufacturing companies adopt the principles and mentality of innovation adoption to increase their competitiveness and improve workforce competences.	25/08/2020	25/08/2020	Slovenia	to do
SMARTEN	A.26	**PBN**	Transfer & Cooperation Action	Application of digital solutions in the field of health, learning from the SMARTEN project H2020	Summer 2020	TBC 2021	HUN: West-Transdanubia AT: Burgenland	to do
Digital Industry Transformation Atlas	A.27	**IMECH**	Transfer & Cooperation Action	Be a destination hub for training policies and initiatives in the field of digital transformation	01/09/2020	30/04/2022	All CE Regions	to do
Roundtable	A.28	**TECOS**	Training & Mobility Action	how can the entrepreneurship and innovation ecosystem contribute to innovation in manufacturing	18/09/2020	18/11/2020	Slovenia Interested regions of participant PPs Regions of participant PPs …	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
INNOVATION IN DIGITALIZATION	A.29	**TECOS**	Transfer & Cooperation Action	Aims to connect innovation supporting ecosystems and their facilities on the topic of industry 4.0.	01/10/2020	TBC	Slovenia, Austria, Hungary, Italy, Germany	to do
PUBLIC PRIVATE PARTNERSHIPS SUPPORTING THE RAISE OF SMART INDUSTRY DEDICATED LABS	A.30	**IMECH**	Training & Mobility Action	The goal is to share a model that has been used to set up a leading Lab on Robotics and embedded AI systems, describe how the stakeholders have been cooperating, which long term goals have been identified and how they will be achieved.	01/10/2020	02/10/2020	Lombardy	to do
Visit at am-LAB	A.31	**PBN**	Training & Mobility Action	ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	26/10/2020	30/10/2020	HU: West-Transdanubia region (PBN) IT: Veneto (ECIPA) IT: Lombardia (IMECH) AT: Burgenland (FB)	to do
Fast prototyping facilities in practice	A.32	**TECOS**	Transfer & Cooperation Action	Aims to connect innovation supporting ecosystems and their facilities on the topic of industry 4.0.	11/11/2020	13/11/2020	Slovenia…	to do
SMART THINKING FOR SMART MANUFACTURING	A.33	**TECOS**	Digital Innovation	Second Meeting	Autumn 2020	Autumn 2020	Slovenia…	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
			Hub Pilot Action					
TICKET	A.34	**ECIPA**	Digital Innovation Hub Pilot Action	Second meeting	Autumn 2020	Autumn 2020	Veneto	to do
Cooperation InnoSax and S3Hubs	A.35	**IWU**	Digital Innovation Hub Pilot Action	Second meeting	TBC 2020	TBC 2020	Saxony	to do
Digital Roadmaps and Intervention Strategies	A.36	**IMECH**	Digital Innovation Hub Pilot Action	Second meeting	TBC 2020	TBC 2020	Lombardy	to do
Artificial Intelligence solutions in the area of Health, Manufacturing and Smart Cities	A.37	**PBN**	Transfer & Cooperation Action	Identification of the thematic elements of Artificial Intelligence solutions in the area of health, manufacturing and smart cities.	Autumn 2020	Summer 2021	HUN: West-Transdanubia (PBN) AT: Burgenland (FB)	to do
Smart material application	A.38	**PBN**	Transfer & Cooperation Action	With the help of the transfer and cooperation action between IWU and PBN- and with the other players, - the involved institutions in the field of smart materials might develop their digitalization level, and new digital solutions	Autumn 2020	TBC in 2021	HUN: West-Transdanubia (PBN) GER: Saxony (IWU))	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				(smart materials) might be implemented and this T&C action would ensure , that the S3HubsinCE project will achieve long-lasting, sustainable results for the regions by possible follow-up projects.				
Transnational Exchange Action for Digital Technologies	A.40	**FB**	Training & Mobility Action	• To get in contact with companies and identify possible needs and services • To highlight the benefits for regional companies and technology stakeholders of digital technologies and transformation (optimization of production, cost efficiency etc.) • To show the DIH and technology infrastructure and learn from the other partners • To show the possibilities of implementation of new technologies in the value chain at various levels	26/11/2020	27/11/2020	Austria, Germany (Fraunhofer und bwcon), Italy, Croatia, Poland	to do
S3-DIH-Ost	A.41	**FB**	Digital Innovation	Second meeting	28/02/2021	28/02/2021	Austria	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Marketing for Digital transformation			Hub Pilot Action					
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.42	**PBN**	Digital Innovation Hub Pilot Action	Second meeting	TBC 2021 (Beginning)	TBC 2021 (Beginning)	HUN: West-Transdanubia	to do
DIH Matrix Varaždin	A.43	**HGK**	Digital Innovation Hub Pilot Action	Second meeting	TBC 2021 (Beginning)	TBC 2021 (Beginning)	Croatia	to do
Digital Roadmaps and Intervention Strategies	A.44	**IMECH**	Digital Innovation Hub Pilot Action	Second meeting	01/02/2021	01/02/2021	Lombardy	to do
TICKET	A.45	**ECIPA**	Digital Innovation Hub Pilot Action	Third meeting	TBC 2021	TBC 2021	Veneto	to do
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.46	**PBN**	Digital Innovation Hub Pilot Action	Second meeting	TBC 2021 (Autumn)	TBC 2021 (Autumn)	HUN: West-Transdanubia	to do
Acting locally winning globally	A.47	**KPT**	Digital Innovation	Third meeting	TBC 2021	TBC 2021	Małopolskie	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
in digital transformation. From evangelization to action.			Hub Pilot Action					
Cooperation InnoSax and S3Hubs	A.48	**IWU**	Digital Innovation Hub Pilot Action	Third meeting	TBC 2021	TBC 2021	Saxony	to do
SMART THINKING FOR SMART MANUFACTURING	A.49	**TECOS**	Digital Innovation Hub Pilot Action	Third meeting	TBC 2021	TBC 2021	Slovenia	to do
S3-DIH-Ost Marketing for Digital transformation	A.50	**FB**	Digital Innovation Hub Pilot Action	Third meeting	TBC 2021	TBC 2021	Austria	to do
DIH Matrix Varaždin	A.51	**HGK**	Digital Innovation Hub Pilot Action	Third meeting	TBC 2021	TBC 2021	Croatia	to do
EXPLOREINNOSPACES	A.52	**ECIPA**	Transfer & Cooperation Action	Explore Innovation solutions in a cross-border area through a facilitating cooperation platform	TBD	TBD	Veneto, Austria, ideally all CE regions involved in S3HubsinCE project	to do
TECHMOLOGY	A.53	**ECIPA**	Transfer & Cooperation Action	New technologies and transnational networks for Mobility	TBD	TBD	Veneto, Slovenia	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
INNOREGIO	A.54	**ECIPA**	Transfer & Cooperation Action	This project was submitted within Interreg Programme ITA-AT: due to its strategic relevance, even though it has not been funded due to limited financial resources of the last Call, we are still in the process of negotiating how it could be activated before the end of 2021.	TBD	TBD	Veneto, Friuli Venezia Giulia, Austria	to do
DIGITALIZATION IN MANUFACTURING	A.55	**TECOS**	Transfer & Cooperation Action	The goal is to form a pool of project partners and beyond, that will be connected into a consortium providing digitalization solutions and tools, with hands on approach to manufacturing SMEs.	TBD	TBD	Slovenia, Austria, Italy	to do
Industrial transformation in machinery	A.56	**TECOS**	Transfer & Cooperation Action	Testing lessons learnt from High impact action mechanism.	TBD	TBD	Slovenia, Austria, Italy, Hungary, Germany Ideally all CE regions	to do
AM-LAB meets Ecipa Nordest Hub: sharing know-how and experiences about models and practices in	A.57	**ECIPA**	Training & Mobility Action	Exchange know-how and share experiences and practices; in particular what is particularly interesting to Ecipa Nordest Hub is the chance to compare service	01/10/2020	03/10/2020	IT HU	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
digital transformation services				providing models, and to learn about AM-LAB services configuration, and its experience with SMEs to foster and support digital transformation				

5.2.2. Factory and Process Automation

Action Plan for	Factory & Process Automation
Navigation Crew Leader	TECOS
Navigation Crew Members	KPT, CUAS, BWCON, IMECH, FB, HGK VZ,
Total Action Count	15

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
BE-READY ALPS – Business Economic Renewal to Enhance strategic Development and Innovatoin in Alpine Space	A.1	**bwcon**	Transfer & Cooperation Action	The overall objective of the project is to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research.	10/10/2019	01/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol, SI: Drava DE: Baden-Wurrtemberg	in progress
MIND4MACHINES Project: manufacturing industry's novel digitalization value chains for connecting machines with people, process, and technology (submitted under H2020-INNOSUP-	A.2	**bwcon**	Transfer & Cooperation Action	MIND4MACHINES aims to facilitate cross-border and cross-sectoral collaboration and to provide direct support for entrepreneurship and innovation in "smart ICT technologies for manufacturing industry", particularly covering the entire digital transformation value chain, from IoT (hardware, software, services and connectivity) to Big Data, Cloud Computing, Artificial Intelligence, Blockchain and Cybersecurity technologies. Thus, the project aims to create accelerating the market up-take of solutions for deep transformation of energy/resource intensive industries into	15/04/2020	15/10/2020	IT: Torino DE: Saxony, Baden-Wurttemberg	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
2020-01-two-stage)				sustainable, climate neutral and intelligent manufacturing, within the context of the European Green Deal				
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.3	**PBN**	Digital Innovation Hub Pilot Action	With the cooperation of PBN an advanced manufacturing centre, called am-LAB (PBN's spin-off company) was established in 2017, and since then this laboratory has gained the DIH status. The am-LAB is a service centre specialized on the application and presentation of most recent manufacturing technologies to develop smart end-user product in strong co-operation with our key customers. In am-LAB skilled and motivated multidisciplinary team of economists, engineers, medical staff, sales manager and international project coordinators work together who prefer lifelong learning. Applied physics, sensor technology, modelling, ICT are representing the core technical competencies, while data analysis and visualization, project engineering, ROI calculations of the business perspectives. Sensor technology applications, polymer printing integration, strong interactions of smart production technologies ensure the smart character of the products and services offered by the am-LAB team. Due to cooperation with national institutions PBN supported approx. 300 companies in 2018.	15/06/2020	30/11/2021	na	in progress
SMART THINKING FOR SMART MANUFACTURING	A.4	**TECOS**	Digital Innovation	Digital innovation hub Slovenia is an institution established by Chamber of commerce of Slovenia, with TECOS being one of the main	25/08/2020	24/12/2021	na	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
– Help manufacturing companies adopt the principles and mentality of innovation adoption to increase their competitiveness and improve workforce competences.			Hub Pilot Action	strategic partners of the institution, supporting DIHS in providing services to companies supporting their digitalization especially those operating in the manufacturing sector. As such TECOS' expertise in innovation for manufacturing and factory and process automation solutions are the ones, where we are supporting the DIHS. Main activities within the project will focus on: networking among stakeholders, introducing the advantages through best practices of innovation in manufacturing and factory and process automation, showcasing best practices and demonstration activities, education and trainings in the Factory and process automation and lean and agile innovation.				
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.5	**PBN**	Training & Mobility Action	To gain practical know-how in the field of: •The representatives of ECIPA, IMECH, FB to experience am-LAB DIH operation •Knowledge transfer about am-LAB digitalisation services, solutions and best practices •Sharing the model adopted by am-LAB how to approach manufacturing SMEs nationally and how to provide 4.0 services to these companies •Possible future cooperation among the partners (PBN, ECIPA, IMECH, FB) institutions, and indirectly with Hungarian, Italian and Austrian stakeholders •the benefits of the digital transformation for the companies (optimization of production, cost efficiency etc.)	26/10/2020	30/10/2020	HU: West Transdanubia region, IT: Veneto, Lombardia AT: Burgenland	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				•PBN will share the results of this action with relevant RIS3 stakeholders, to improve the provision of services to SMEs at regional level.				
Roundtable: how can the entrepreneurship and innovation ecosystem contribute to innovation in manufacturing	A.6	**TECOS**	Training & Mobility Action	To share knowledge about: •To share experience in understanding how ecosystems can contribute innovation in digitalization and manufacturing •To understand the state-of-the-art of the ecosystem and identify gaps •Exchange of good practices •Identification of a cooperation activities in Slovenia and beyond •Map expertise of stakeholders.	18/09/2020	18/07/2020	Slovenia, interested partners	to do
DIGITALIZATION IN MANUFACTURING	A.7	**TECOS**	Transfer & Cooperation Action	Through the implementation of the project and the exchange of experience of partners it has become evident significant expertise exists in all participating regions, with room for improvement in exchange of experience. Thus, with this transfer and cooperation action we will form a pool of project partners and beyond, that will be connected into a consortium providing digitalization solutions and tools, with hands on approach to manufacturing SMEs, especially micro and small ones. This established consortium will use available funds than to support SMEs in their digitalization efforts. The results will be used by PPs, SMEs, DIHs and other stakeholders.	01/09/2020	30/04/2021	Slovenia, Austria, Italy	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Innovation in Digitalization	A.8	**TECOS**	Transfer & Cooperation Action	Through this action we aim to connect innovation supporting ecosystems and their facilities. With such connectivity we will implement actions towards supporting innovation in the machinery sector, but also other domains related to Industry 4.0. The action will focus on: -Developing a pilot scope database of innovation supporting facilities (prototyping labs, fab labs) -Awareness raising activities through events, exchange of experience, best practice presentations -Small scale pilot and support activities towards SMEs, related to innovation counselling, prototyping and modelling aiming at DI and automation. The pilot action will be implementing with the support of relevant DIHs	01/10/2020	31/12/2021	Slovenia, Austria, Hungary, Italy, Germany	to do
Industrial transformation in machinery – testing lessons learnt from High impact action mechanism	A.9	**TECOS**	Transfer & Cooperation Action	Through HIA mechanism funded by European Commission, TECOS together with SRIP Factories of the future and Ministry of economic development and technology implements pilot action for Industrial transformation. HIA will be implemented by end of 2020, but actions implemented during the course of the project, together with comparable actions in other regions will serve as a study to develop a comprehensive platform, to be transferred to other CE regions. The objective is to develop an agile mechanism, that will be able to quickly support SMEs with their industrial transformation, which will than	02/05/2020	30/11/2020	Slovenia, Austria, Italy, Hungary, Germany Ideally all CE regions	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				later help the SMEs boost their innovation, competitiveness and share experiences.				
Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the Chain Reactions CE project	A.10	**PBN**	Transfer & Cooperation Action	•3 players (PBN, Vas County, City of Szombathely) are establishing a cooperation called Forum Digital. The initiatives started just in this year and in long-term will have a physical implementation, too, namely, the Via Nova Digitalization Centre where also PBN will be located in the future with the aim to train SMEs, students, implement R&D projects and also give place to start-ups. The vision of the initiative is to establish an international artificial intelligence-oriented teaching and research institute (Institute) in Szombathely with the participation of multi stakeholders, to serve as a basis for strengthening advanced technology-related industry. Therefore, ELTE university and as a prominent partner, the University Bologna will also be part of the commitment.	01/07/2020	31/12/2021	HU: West-Transdanubia, DE: Bayern	to do
Fast prototyping facilities in practice	A.11	**TECOS**	Training & Mobility Action	TECOS is together with Ministry of economic development and SRIP Factories of the future the designated implementation of a transformative mechanism for industry 4.0 High impact action. Within this a small-scale pilot action vouchers will be developed and implemented. Going forward the idea of HIA is to test agile mechanisms for industrial transformation, but going forward, the long-term objective is to develop a fully-fledged platform, together also with DIH, that will enable manufacturing companies to quickly react and adopt industrial transformation solutions. Thus, an exchange of	11/11/2020	13/11/2020	[interested PPs	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				experiences will be organized with relevant PPs that will discuss and test such solution and provide stakeholders in assessment and proposals for platforms, and agile mechanisms. In this frame also study visit will be organized, and it will be closely related to transfer and cooperation action 3. The aim for this mobility action/study visit is to exchange know-how and share experiences and practices; learn about different service models fostering industrial transformation. The idea is also to invite other interested partners to participate in this visit, thus being beneficial for exchange of experiences but also promote collaborative engagement by complementary ecosystems.]				
Acting locally winning globally in digital transformation. From evangelization to action.	A.12	**KPT**	Digital Innovation Hub Pilot Action	www.hub4industry.pl Krakow Technology Park has been officially selected (October 2019) as one of the 5 national Digital Innovation Hubs in Poland that will offer services to support the digital transformation of polish enterprises. Hub4industry is responsible for the provision of services in 4 polish regions located in the south of Poland: Subcarpathia, Silesia, Swietorzyskie and Małopolskie. DIH KTP focuses on following technologies: 5G, AI, IoT, cloud computing, cybersecurity, automation &robotics, AR/VR, BIM, 3D. The main activities carried out within the project will Focus on: information about the potential of new	14/02/2020	31/12/2021	Regional event	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				technologies (showcasing solutions),demonstration activities to practically approach digital technologies (prototyping, simulation of processes), education, trainings for SMEs who want to approach digital transformation, consulting services on how to introduce optimization or innovation, preparation of digital transformation plan, facilitation of implementation activities integration of new machines, devices and software.				
Factory 4.0. Factory & process automation Online training session (webinar) + online study visit at ASTOR Robotics Center (ARC) showroom and training centre https://www.astor.com.pl/en.html	A.13	**KPT**	Training & Mobility Action	To gain practical know-how in the field of: ▫Implementation of Industry 4.0 in Polish companies (approach & methodology): how do we work with companies (structure) ▫Where to look for long-term results of the Technology of Industry Technology 4.0 ▫the benefits of the digital transformation for the companies (optimization of production, cost efficiency etc.) ▫possibilities of implementation of new technologies in the value chain at various levels ▫showcasing client-centered smart factories based on technologies of the future ▫possibilities of implementing concepts, tests, projects related to robotics and production automation ▫discussion of a given example	08/06/2020	08/06/2020	Malopolska, Swietokrzyskie, Subcarpathian, Silesian, Germany, Hungary, Italy, Slovenia, Croatia, Austria	complete

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				▫Share best practices of actual projects at the ASTOR concerning factory and process automation and AI				
PBN's DIH (called am-LAB) representatives take part in study visit in a technology center of ITEMA and a Japanese enterprise in Italy hosted by IMECH	A.14	**PBN**	Training & Mobility Action	Due to the workshop/study visit, PBN's DIH (called am-LAB) will have the opportunity to widen their knowledge/exchange experience in digitization topics, more precisely in Additive Manufacturing	01/10/2020	30/11/2020	West Transdanubia, Lombardy	to do
Central Europe Upstreaming for Policy Excellence in Advanced Manufacturing & Industry 4.0 towards 2030	A.15	**KPT**	Transfer & Cooperation Action	•to improve sustainable linkages among actors of the innovation systems for strengthening regional innovation capacity in CENTRAL EUROPE •to generate improved knowledge & exchange on new technologies relevant for Central Europe Advanced Manufacturing & Industry 4.0 (CAMI4.0) •to enhance skills, capabilities and knowledge of people in charge of RTI policies, in a triple-helix context •to ensure awareness and shared sustainable responsibility on RTI knowledge resources to enhance policy decision making •to anticipate and fast-track policy strategies to promote aligned S3/RIS3 for CAMI4.0 Excellence	01/03/2020	28/02/2022	Małopolska (Poland), Vas (Hungary), Saxony (Germany), Lombardy (Italy)	in progress

Action Plan for				Machine Vision				
Navigation Crew Leader				IMECH				
Navigation Crew Members				[TECOS, HGK Varazdin]				
Total Action Count				19				

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
BE-READI ALPS	A.1	**bwcon**	Transfer & Cooperation Action	Approved running project to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research	02/10/2019	02/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
PUBLIC PRIVATE PARTNERSHIPS SUPPORTING THE RAISE OF SMART INDUSTRY DEDICATED LABS	A.2	**IMECH**	Training & Mobility Action	Share a model that has been used to set up a leading Lab on Robotics and embedded AI systems, describe how the stakeholders have been cooperating, which long term goals have been identified and how they will be achieved	01/10/2020	02/10/2020	IT: Lombardy Croatia?	to do
Artificial Intelligence in Baden Wurttemberg	A.3	**IMECH**	Training & Mobility Action	strengthen its network on AI and understand how transnational technology scouting and exchanges may be arranged on a permanent basis	31/10/2020	31/10/2020	IT: Lombardy DE: Baden-Württemberg	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
ENOVA Campus	A.4	**IMECH**	Training & Mobility Action	Contribute to the workshop presenting A strategical roadmap for artificial intelligence innovation in Lombardy manufacturing	26/11/2020	27/11/2020	IT: Lombardy AT: Burgenland	to do
H2020 Exploitation Radar	A.5	**IMECH**	Transfer & Cooperation Action	The goal of H2020 Exploitation Radar is to develop a Cascade Funding Exploitation roadmap targeted to the stakeholders (and partners) of S3Hubs Navigation Crews.	01/07/2020	31/12/2021	IT: Lombardy AT: Burgenland	in progress
DITA – Digital Industry Transformation Atlas	A.6	**IMECH**	Transfer & Cooperation Action	Identify, map and connect digital transformation training providers and DIHs	01/09/2020	30/04/2022	IT: Lombardy, Veneto AT: Burgenland SI: TECOS DE: IWU HU: PBN	in progress
Activate PPPs to support digital innovation processes	A.7	**IMECH**	Transfer & Cooperation Action	The idea of the TCA consists in taking the model behind the LAB (based on a Public Private Partnership) and cooperate with interested Crews to extend the PPP model to other areas (technology areas and geographical areas).	01/07/2020	31/12/2021	IT: Lombardy, Veneto Croatia?	in progress
Acting locally winning globally in digital transformation	A.8	**KPT**	Digital Innovation Hub Pilot Action	The action aims at creating Digital Council consisting of SMEs, policy makers and HE to act as Advisory and Support body for joint implementation of effective digital transformation in Malopolska region under KTP DIH	14/02/2020	14/02/2020	PL: Subcarpathia, Silesia, Swietorzyskie and Malopolska	complete

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Central Europe Upstreaming for Policy Excellence in Advanced Manufacturing & Industry 4.0 towards 2030	A.9	**KPT**	Transfer & Cooperation Action	Generate improved knowledge & exchange on new technologies relevant for Central Europe Advanced Manufacturing & Industry 4.0	01/03/2020	28/02/2022	PL: Małopolska HU: Vas DE: Saxony IT: Lombardy	in progress
SMART THINKING FOR SMART MANUFACTURING	A.10	**TECOS**	Digital Innovation Hub Pilot Action	Help manufacturing companies adopt the principles and mentality of digital innovation adoption to increase their competitiveness and improve workforce competences.	25/08/2020	09/07/2020	SI: TECOS	in progress
Roundtable: how can the entrepreneurship and innovation ecosystem contribute to innovation in manufacturing	A.11	**TECOS**	Training & Mobility Action	Share experience in understanding how ecosystems can contribute innovation in digitalization and manufacturing	18/09/2020	18/09/2020	Slovenia Interested regions of participant PPs Regions of participant PPs	to do
Digitalization in Manufacturing	A.12	**TECOS**	Transfer & Cooperation Action	We will form a pool of project partners and beyond, that will be connected into a consortium providing digitalization solutions and tools, with hands on approach to manufacturing SMEs, especially micro and small ones. This established consortium will use available funds than to support SMEs in their digitalization efforts	TBD	TBD	Slovenia Austria Italy	to do
Industrial transformation in machinery – testing lessons learnt from High	A.13	**TECOS**	Transfer & Cooperation Action	Through HIA mechanism funded by European Commission, TECOS together with SRIP Factories of the future and Ministry of economic development and technology implements pilot action for Industrial transformation. The goal is to develop an agile mechanism, that will be able	TBD	TBD	Slovenia, Austria, Italy, Hungary, Germany	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
impact action mechanism				to quickly support SMEs with their industrial transformation, which will than later serve the SMEs boost their innovation, competitiveness and share experiences.			Ideally all CE regions	
Fast prototyping facilities in practice	A.14	**TECOS**	Training & Mobility Action	The aim for this mobility action/study visit is to exchange know-how and share experiences and practices; learn about different service models fostering industrial transformation.	11/11/2020	13/11/2020	SI	to do
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.15	**PBN**	Digital Innovation Hub Pilot Action	Inform the decision makers on regional and local level into the activities and services carried out/envisaged by am-LAB DIH	TBD	TBD	HU	to do
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.16	**PBN**	Training & Mobility Action	Share the model adopted by am-LAB how to approach manufacturing SMEs nationally and how to provide 4.0 services to these companies	26/10/2020	30/10/2020	HU: West-Transdanubian region IT: Veneto, Lombardia AT: Burgenland	to do
Artificial Intelligence solutions in the area of Health, Manufacturing and Smart Cities	A.17	**PBN**	Transfer & Cooperation Action	With the help of the transfer and cooperation action between FB and PBN- and with the other players, - the involved institutions in the field of health, manufacturing and smart cities (PBN) might develop their digitalization level, and new digital solutions (AI solutions) might be implemented and this T&C action would ensure , that the S3HubsinCE project will achieve long-lasting, sustainable results for the regions by possible follow-up projects	01/10/2020	01/07/2021	HU: West-Transdanubia AT: Burgenland	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Application of digital solutions in the field of health, learning from the SMARTEN project H2020	A.18	**PBN**	Transfer & Cooperation Action	The project has been submitted: It aims at elaborating holistic smart hospital AI maturity and readiness evaluation systems and at developing individualised, AI-based innovative health-related pilots	01/01/2021	31/12/2023	HUN: West-Transdanubia AT: Burgenland	to do
DIH Matrix Varaždin	A.19	**HGK**	Digital Innovation Hub Pilot Action	To assure access of local companies and other stakeholders to the newest digital technologies and training To help companies better understanding how digital technologies can improve efficiency To provide services for the digitalisation To support the development of the regional innovation ecosystem	15/07/2020	15/07/2020	Croatia	to do

Action Plan for	Predictive Maintenance
Navigation Crew Leader	IMECH
Navigation Crew Members	[CUAS, FB, ECIPA, PBN, HGK]
Total Action Count	28

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
S3-DIH-Ost: Marketing for Digital transformation	A.1	FB	Digital Innovation Hub Pilot Action	Support and centralize regional initiatives to enable a coordinated approach based on the different TPAs and, at the same time, create a short-term and long-term action plan to support the digital transformation in the region	31/07/2020	31/07/2020	Vienna, Burgenland, Upper and Lower Austria	to do
ENOVA Campus	A.2	FB	Training & Mobility Action	Transnational Exchange Action for Digital Technologies: A session to get in contact with companies, learn about DIH infrastructures and show the possibilities of implementation of new technologies in the value chain at various levels	26/11/2020	27/11/2020	AT: Carinthia, Burgenland DE: Saxony, Baden Württemberg IT: Lombardy HR PL: Malopolska HU: Vas	to do
Competence Network for Industrial IoT: From basic applications towards upgraded	A.3	FB	Transfer & Cooperation Action	The TCA wants to generate a knowledge pool of excellent demonstration and technology use cases, (2) connect sufficient appropriate resources (finance, experts, critical number of participants) (3) monitor future trends for IIoT and its specific distinctions regarding	02/06/2020	30/06/2021	AT: Burgenland, Carinthia, Styria, Tyrol, Vorarlberg	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
developments for Predictive Maintenance and integrating Artificial Intelligence				technologies and fields of application. A long-term projects roadmap will be elaborated.			IT: South Tyrol, Veneto, Lombardia DE: Saxony, Baden-Wurttemberg PL: Malepolska HU SI HR	
BE-READI ALPS	A.4	**bwcon**	Transfer & Cooperation Action	Approved running project to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research	02/10/2019	02/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
MIND4MACHINES	A.5	**bwcon**	Transfer & Cooperation Action	A submitted proposal that aims to facilitate cross-border and cross-sectoral collaboration and to provide direct support for entrepreneurship and innovation in "smart ICT technologies for manufacturing industry", particularly covering the entire digital transformation value chain, from IoT (hardware, software, services and connectivity) to Big Data, Cloud Computing, Artificial Intelligence, Blockchain and Cybersecurity technologies	15/04/2020	15/10/2020	IT: Piemonte DE: Saxony, Baden-Württemberg	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Transnational Cooperation Project DE-SI-HU	A.6	**IWU**	Transfer & Cooperation Action	Visits by Fraunhofer IWU and TECOS to Hungarian SMEs and RIS3 actors have found a lot of interest within the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits with the aim to apply to international projects and for further cooperation	01/06/2019	01/06/2019	DE: Saxony HU SI	to do
Transnational Cooperation Project DE-IT	A.7	**IWU**	Transfer & Cooperation Action	Visits by Intellimech with a delegation of RIS3 actors to Fraunhofer IWU have found a lot of interest on both sides and with the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits with the aim to apply to international projects and for further cooperation	08/11/2019	30/11/2019	DE: Saxony IT: Lombardy	in progress
ENOVA Campus	A.8	**IWU**	Training & Mobility Action	Transnational Exchange Action for Digital Technologies	26/11/2019	27/11/2020	AT: Carinthia, Burgenland DE: Saxony, Baden Württemberg IT: Lombardy HR: PL: Malopolska HU: Vas	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Digital Roadmaps and Intervention Strategies: Public Private Partnerships supporting the digital readiness of European enterprises	A.9	**IMECH**	Digital Innovation Hub Pilot Action	Increase the general readiness level of enterprises in the field of data analytics by matching enterprise needs and existing demonstrators	07/07/2020	07/07/2020	IT: Lombardy	to do
PUBLIC PRIVATE PARTNERSHIPS SUPPORTING THE RAISE OF SMART INDUSTRY DEDICATED LABS	A.10	**IMECH**	Training & Mobility Action	Share a model that has been used to set up a leading Lab on Robotics and embedded AI systems, describe how the stakeholders have been cooperating, which long term goals have been identified and how they will be achieved	01/10/2020	02/10/2020	IT: Lombardy Croatia	to do
ENOVA Campus	A.11	**IMECH**	Training & Mobility Action	Contribute to the workshop presenting A strategical roadmap for artificial intelligence innovation in Lombardy manufacturing	26/11/2020	27/11/2020	AT: Carinthia, Burgenland DE: Saxony, Baden Württemberg IT: Lombardy HR: Continental Croatia PL: Malopolska HU: Vas	to do
H2020 Exploitation Radar	A.12	**IMECH**	Transfer & Cooperation Action	The goal of H2020 Exploitation Radar is to develop a Cascade Funding Exploitation roadmap targeted to the stakeholders (and partners) of S3Hubs Navigation Crews.	01/07/2020	31/12/2021	IT: Lombardy AT: Burgenland	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
DITA – Digital Industry Transformation Atlas	A.13	**IMECH**	Transfer & Cooperation Action	Identify, map and connect digital transformation training providers and DIHs	01/09/2020	30/04/2022	IT: Lombardy, Veneto AT: Burgenland SI: TECOS DE: IWU HU: PBN	in progress
Activate PPPs to support digital innovation processes	A.14	**IMECH**	Transfer & Cooperation Action	The idea of the TCA consists in taking the model behind the LAB (based on a Public Private Partnership) and cooperate with interested Crews to extend the PPP model to other areas (technology areas and geographical areas).	01/07/2020	31/12/2021	IT: Lombardy, Veneto Croatia	in progress
TICKET – Transform & Innovate Companies through the Key of the digitalization to Enhance compeTitiveness.	A.15	**ECIPA**	Digital Innovation Hub Pilot Action	identify the innovation digital needs of SMEs collect and share individual best practices implemented by SMEs design suitable services in the field of digital transformation for SMEs get a deeper knowledge on type of successful models useful to provide digitalization services to the SMEs	12/05/2020	12/05/2020	IT: Veneto	complete
The Digital Transformation ecosystem in Veneto region	A.16	**ECIPA**	Training & Mobility Action	share knowledge about: the benefits of enhancing digital transformation through an integrated ecosystem with complementary competences and services; the exchange of good practices and demo cases of concrete cooperation models; how to develop cooperation activities in the fields of IoT, Data Analytics and Predictive Maintenance.	23/07/2020	23/07/2020	IT: Veneto	complete
EXPLOREINNOSPACES: Explore Innovation solutions in a	A.17	**ECIPA**	Transfer & Cooperation Action	Exploit ExploreInnoSpaces and expand it (geography and content-wise) with concrete examples of the use of the various technologies associated with S3HUBSinCE Navigation Crews,	TBD	TBD	IT: Veneto AT: Carinthia	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
cross-border area through a facilitating cooperation platform				as well as with a map of "technical" allies around Europe on the same TPAs			All CE regions involved in S3HubsinCE project	
AM-LAB meets Ecipa Nordest Hub: sharing know-how and experiences about models and practices in digital transformation services	A.18	**ECIPA**	Training & Mobility Action	Exchange know-how and share experiences and practices; in particular what is particularly interesting to Ecipa Nordest Hub is the chance to compare service providing models, and to learn about AM-LAB services configuration, and its experience with SMEs to foster and support digital transformation	01/10/2020	03/10/2020	IT HU	to do
ENOVA Campus	A.19	**KPT**	Training & Mobility Action	The workshop would include regional DIH stakeholders. The purpose should be the Know-how exchange between at least two regional DIHs	26/11/2019	27/11/2020	AT: Carinthia, Burgenland DE: Saxony, Baden Württemberg IT: Lombardy HR: Continental Croatia PL: Malopolska HU: Vas	in progress
Central Europe Upstreaming for Policy Excellence in Advanced	A.20	**KPT**	Transfer & Cooperation Action	Generate improved knowledge & exchange on new technologies relevant for Central Europe Advanced Manufacturing & Industry 4.0	01/03/2020	28/02/2022	PL: Małopolska HU: Vas DE: Saxony	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Manufacturing & Industry 4.0 towards 2030							IT: Lombardy	
Industrial transformation in machinery – testing lessons learnt from High impact action mechanism	A.21	**TECOS**	Transfer & Cooperation Action	Through HIA mechanism funded by European Commission, TECOS together with SRIP Factories of the future and Ministry of economic development and technology implements pilot action for Industrial transformation. The goal is to develop an agile mechanism, that will be able to quickly support SMEs with their industrial transformation, which will than later serve the SMEs boost their innovation, competitiveness and share experiences.	TBD	TBD	SI AT IT HU DE	to do
Fast prototyping facilities in practice	A.22	**TECOS**	Training & Mobility Action	The aim for this mobility action/study visit is to exchange know-how and share experiences and practices; learn about different service models fostering industrial transformation.	11/11/2020	13/11/2020	SI	to do
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.23	**PBN**	Digital Innovation Hub Pilot Action	Inform the decision makers on regional and local level into the activities and services carried out/envisaged by am-LAB DIH	Mid-June	Mid-June	HU	complete
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.24	**PBN**	Training & Mobility Action	Share the model adopted by am-LAB how to approach manufacturing SMEs nationally and how to provide 4.0 services to these companies	01/10/2020	03/10/2020	HU: West-Transdanubian region IT: Veneto, Lombardia AT: Burgenland	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Artificial Intelligence solutions in the area of Health, Manufacturing and Smart Cities	A.25	**PBN**	Transfer & Cooperation Action	With the help of the transfer and cooperation action between FB and PBN- and with the other players, - the involved institutions in the field of health, manufacturing and smart cities (PBN) might develop their digitalization level, and new digital solutions (AI solutions) might be implemented and this T&C action would ensure , that the S3HubsinCE project will achieve long-lasting, sustainable results for the regions by possible follow-up projects	01/10/2020	01/07/2021	HU: West-Transdanubia AT: Burgenland	to do
Application of digital solutions in the field of health, learning from the SMARTEN project H2020	A.26	**PBN**	Transfer & Cooperation Action	The project has been submitted: It aims at elaborating holistic smart hospital AI maturity and readiness evaluation systems and at developing individualised, AI-based innovative health-related pilots	01/01/2021	31/12/2023	HUN: West-Transdanubia AT: Burgenland	to do
Knowledge transfer between IWU-PBN in connection with the application of smart materials in SMEs	A.27	**PBN**	Transfer & Cooperation Action	Experts of Fraunhofer IWU will train the representatives of PBN and its DIH (am-LAB) in connection with smart materials in the framework of workshops/study tours¤ PBN (am-LAB) staff will widen their knowledge in this field Work commonly on transnational/cross-border project proposals in smart materials	01/10/2020	30/06/2021	HU: West-Transdanubia (PBN) DE: Saxony (IWU)	to do
DIH Matrix Varaždin	A.28	**HGK**	Digital Innovation Hub Pilot Action	Support the raise of a Digital Innovation Hub in Varazdin, in cooperation with Innovation Centre Nikola Tesla (ICENT) Zagreb and its Croatian Robotics Digital Innovation Hub (CROBOHUB)	TBD	TBD	HR:	to do

Action Plan for	**Design & Engineering for Additive Manufacturing**
Navigation Crew Leader	CUAS
Navigation Crew Members	bwcon, PBN
Total Action Count	14

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
"BE-READI ALPS" Business Economic Renewal to Enhance strategic Development and Innovation in Alpine Space (Interreg Alpine Space Project)	A.1	**bwcon**	Transfer & Cooperation Action	The overall objective of the project is to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research.	02/10/2020	01/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
"Circular 4.0" Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area (Interreg Alpine Space Project)	A.2	**bwcon**	Transfer & Cooperation Action	The main objective of the CIRCULAR4.0 project is to strengthen digitalization processes by SMEs to foster innovation processes and accelerate the transition to the Circular Economy (CE) in Alpine Space.	02/10/2019	30/06/2022	IT: Veneto, Lombardy, Turin AT: Upper Austria, Land Salzburg, Vienna Region SI: Central Slovenia DE: Baden-Württemberg, Bavaria	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
MIND4MACHINES Project: manufacturing industry's novel digitalization value chains for connecting machines with people, process, and technology (submitted under H2020-INNOSUP-2020-01-two-stage)	A.3	**bwcon**	Transfer & Cooperation Action	MIND4MACHINES aims to facilitate cross-border and cross-sectoral collaboration and to provide direct support for entrepreneurship and innovation in "smart ICT technologies for manufacturing industry", particularly covering the entire digital transformation value chain	15/04/2020	15/10/2020	IT: Torino DE: Saxony, Baden-Württemberg	in progress
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.4	**PBN**	Digital Innovation Hub Pilot Action	Informing the decision makers on regional and local level into the activities and services carried out/envisaged by am-LAB DIH	15/06/2020	30/06/2020	HUN: Nyugat-Dunantül	in progress
Joint project proposal 3dppan.eu call	A.5	**CUAS**	Transfer & Cooperation Action	Writing a joint project proposal involving one SME, TECOS and CUAS to solve a problem case to be defined jointly for the SME.	31/08/2020	31/08/2020	AT: Kärnten SL: Vzhodna Slovenija	in progress
Knowledge transfer on DIH-databases of experts based on actual use cases @ ASAM project	A.6	**CUAS**	Transfer & Cooperation Action	Involving the network of TECOS concerning AM to the ASAM project for knowledge transfer in both directions	30/10/2020	31/10/2020	AT: Kärnten SL: Vzhodna Slovenija	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Decision-making tool concerning the economic use of AM for production of handling tools in high-volume production @ Tool makers day Slovenia	A.7	**CUAS**	Training & Mobility Action	Demonstrate the potential of a decision-making tool for use of AM during the engineering process.	12/05/2020	09/06/2020	AT: Kärnten SL: Vzhodna Slovenija	in progress
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.8	**PBN**	Training & Mobility Action	The representatives of ECIPA, IMECH, FB to experience am-LAB DIH operation	26/10/2020	30/10/2020	HU: West-Transdanubian region (PBN) IT: Veneto (ECIPA) IT: Lombardia (IMECH) AT: Burgenland (FB	in progress
Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the	A.9	**PBN**	Transfer & Cooperation Action	3 players (PBN, Vas County, City of Szombathely) are establishing a cooperation called Forum Digital. The initiatives started just in this year and in long-term will have a physical implementation, too, namely, the Via Nova Digitalization Centre where also PBN will be located in the future with the aim to train SMEs, students, implement R&D projects and also give place to start-ups	01/07/2020	31/12/2021	HUN: West-Transdanubia GER: Bayern	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Chain Reactions CE project								
Application of digital solutions in the field of health, learning from the SMARTEN project H2020	A.10	**PBN**	Transfer & Cooperation Action	With the support of FB partner of S3HubsinCE, PBN was looking for Austrian project partners with whom we can work together in the SMARTEN project H2020	01/07/2020	31/12/2021	HUN: West-Transdanubia AT: Burgenland	in progress
Artificial Intelligence solutions in the area of Health, Manufacturing and Smart Cities	A.11	**PBN**	Transfer & Cooperation Action	Exchange know-how, services, and solutions in the field of AI through thematic WS.	30/09/2020	30/06/2021	HUN: West-Transdanubia AT: Burgenland	in progress
Knowledge transfer between IWU-PBN in connection with the application of smart materials in SMEs	A.12	**PBN**	Transfer & Cooperation Action	The knowledge transfer might be considered as a "train the trainer" activity between IWU-PBN in connection with the methods of the application and utilisation of smart materials at companies	30/09/2020	31/12/2021	HUN: West-Transdanubia (PBN) GER: Saxony (IWU)	in progress
PBN's DIH (called am-LAB) representatives take part in Artificial Intelligence related seminars workshop in Baden-Württemberg	A.13	**PBN**	Training & Mobility Action	Due to the workshop/seminar PBN's DIH (called am-LAB) widen their knowledge/exchange experience in digitalization topics, more precisely in the topic how Artificial Intelligence solutions might be applied to SMEs	30/10/2020	31/10/2020	GER: Baden-Württemberg region	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
workshop hosted by BWCON								
PBN's DIH (called am-LAB) representatives take part in study visit in a technology center of ITEMA and a Japanese enterprise in Italy hosted by IMECH	A.14	**PBN**	Training & Mobility Action	Due to the workshop/study visit, PBN's DIH (called am-LAB) will have the opportunity to widen their knowledge/exchange experience in digitization topics, more precisely in Additive Manufacturing	01/10/2020	30/11/2020	IT: Lombardia	in progress

Action Plan for	Data Analytics, Complex Simulation and Modelling
Navigation Crew Leader	IMECH
Navigation Crew Members	[PBN, HGK, TECOS, Bwcon, KTP, ECIPA]
Total Action Count	44

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
S3-DIH-Ost: Marketing for Digital transformation	A.1	FB	Digital Innovation Hub Pilot Action	Support and centralize regional initiatives to enable a coordinated approach based on the different TPAs and, at the same time, create a short-term and long-term action plan to support the digital transformation in the region	31/07/2020	31/07/2020	Vienna, Burgenland, Upper and Lower Austria	to do
ENOVA Campus	A.2	FB	Training & Mobility Action	A session to get in contact with companies, learn about DIH infrastructures and show the possibilities of implementation of new technologies in the value chain at various levels	26/11/2020	27/11/2020	AT: Carinthia, Burgenland DE: Saxony and Baden-Württemberg IT: Lombardy HR: Continental Croatia PL: Malopolska	to do
Artificial Intelligence solutions in the area of Energy and Digital Marketing	A.4	FB	Transfer & Cooperation Action	Action aimed at offering the possibility for engagement and common development of possible use-cases for applications in the field of AI.	TBD	TBD	HU: West-Transdanubia (PBN) AT: Burgenland (FB)	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
BE-READI ALPS	A.5	**bwcon**	Transfer & Cooperation Action	Approved running project to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research	02/10/2019	02/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
MIND4MACHINES	A.6	**bwcon**	Transfer & Cooperation Action	A submitted proposal that aims to facilitate cross-border and cross-sectoral collaboration and to provide direct support for entrepreneurship and innovation in "smart ICT technologies for manufacturing industry", particularly covering the entire digital transformation value chain, from IoT (hardware, software, services and connectivity) to Big Data, Cloud Computing, Artificial Intelligence, Blockchain and Cybersecurity technologies	15/04/2020	15/10/2020	IT: Piemonte DE: Saxony, Baden-Württemberg	in progress
DIGI HUB Südbaden & S3HubsinCE – transnational cooperation supporting digital transformation	A.7	**bwcon**	Digital Innovation Hub Pilot Action	Bring together the different projects and initiatives of the sub-regions Southern Upper Rhine and High Rhine in the field of digitisation	30/07/2020	30/07/2020	DE: Baden W	to do
PBN, IMECH & FB representatives join the Hightech Summit to Participate in Technology	A.8	**bwcon**	Training & Mobility Action	Widen the knowledge exchange experience in digitalization topics, and specifically, how Artificial Intelligence solutions might be applied from SMEs	30/09/2020	02/10/2020	HU: West-Transdanubian region IT: Lombardia AT: Burgenland	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Lectures and Round Tables Devoted to AI technologies hosted by BWCON				Knowledge transfer in digitalisation services focused on AI-based solutions and best practices Showcase the benefits of digital transformation for the companies (optimization of production, cost efficiency etc.) with the usage of AI technologies Possible future cooperation among the partners (PBN, IMECH, bwcon) and related Hungarian, Italian and German stakeholders				
ENOVA Campus	A.9	**bwcon**	Training & Mobility Action	thrive knowledge exchange within the associated Navigation Crew's topics see the DIH and technology infrastructure from the partner FB and exchange experiences with other PPs attending comprehend the possibilities of implementation of new technologies in the value chain at various levels	26/11/2019	27/11/2020	AT: Carinthia, Burgenland DE: Saxony and Baden-Württemberg IT: Lombardy HR: PL: Malopolska	in progress
"Circular 4.0" Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area	A.10	**bwcon**	Transfer & Cooperation Action	Strengthen digitalization processes by SMEs to foster innovation processes and accelerate the transition to the Circular Economy (CE) in Alpine Space	02/10/2020	30/06/2022	IT: Veneto, Lombardy, Turin AT: Upper Austria, Land Salzburg, Vienna Region SI: Central Slovenia DE: Baden-Württemberg, Bavaria	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Transnational Cooperation Project DE-SI-HU	A.11	**IWU**	Transfer & Cooperation Action	Visits by Fraunhofer IWU and TECOS to Hungarian SMEs and RIS3 actors have found a lot of interest within the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits with the aim to apply to international projects and for further cooperation	01/06/2019	30/06/2019	DE: Saxony HU: SI:	to do
Transnational Cooperation Project DE-IT	A.12	**IWU**	Transfer & Cooperation Action	Visits by Intellimech with a delegation of RIS3 actors to Fraunhofer IWU have found a lot of interest on both sides and with the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits with the aim to apply to international projects and for further cooperation	01/01/2020	31/08/2020	DE: Saxony AT:	in progress
Transnational Cooperation Project DE-AT	A.13	**IWU**	Transfer & Cooperation Action	Plans for German-Austrian Project "Leitprojekt" on production systems including Smart & Advanced Materials with partners from Germany (KIT, Fraunhofer) and Austria (Profactor, Industrie 4.0)	08/11/2019	TBD	DE: AT:	in progress
ENOVA Campus	A.14	**IWU**	Training & Mobility Action	Transnational Exchange Action for Digital Technologies	26/11/2019	27/11/2020	AT: Carinthia, Burgenland DE: Saxony and Baden-Württemberg IT: Lombardy HR: Continental Croatia	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
							PL: Malopolska	
Digital Roadmaps and Intervention Strategies: Public Private Partnerships supporting the digital readiness of European enterprises	A.15	**IMECH**	Digital Innovation Hub Pilot Action	Increase the general readiness level of enterprises in the field of data analytics by matching enterprise needs and existing demonstrators	07/07/2020	07/07/2020	IT: Lombardy	to do
PUBLIC PRIVATE PARTNERSHIPS SUPPORTING THE RAISE OF SMART INDUSTRY DEDICATED LABS	A.16	**IMECH**	Training & Mobility Action	Share a model that has been used to set up a leading Lab on Robotics and embedded AI systems, describe how the stakeholders have been cooperating, which long term goals have been identified and how they will be achieved	01/10/2020	02/10/2020	IT: Lombardy Croatia	to do
Artificial Intelligence in Baden Wurttemberg	A.17	**IMECH**	Training & Mobility Action	strengthen its network on AI and understand how transnational technology scouting and exchanges may be arranged on a permanent basis	31/10/2020	31/10/2020	IT: Lombardy DE: Baden-Württemberg	to do
H2020 Exploitation Radar	A.18	**IMECH**	Transfer & Cooperation Action	The goal of H2020 Exploitation Radar is to develop a Cascade Funding Exploitation roadmap targeted to the stakeholders (and partners) of S3Hubs Navigation Crews.	01/07/2020	31/12/2021	IT: Lombardy AT: Burgenland	in progress
DITA – Digital Industry	A.19	**IMECH**	Transfer & Cooperation Action	Identify, map and connect digital transformation training providers and DIHs	01/09/2020	30/04/2022	IT: Lombardy, Veneto	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Transformation Atlas							AT: Burgenland SI: TECOS DE: IWU HU: PBN	
Activate PPPs to support digital innovation processes	A.20	**IMECH**	Transfer & Cooperation Action	The idea of the TCA consists in taking the model behind the LAB (based on a Public Private Partnership) and cooperate with interested Crews to extend the PPP model to other areas (technology areas and geographical areas).	01/07/2020	31/12/2021	IT: Lombardy, Veneto Croatia	in progress
TICKET – Transform & Innovate Companies through the Key of the digitalization to Enhance compeTitiveness.	A.21	**ECIPA**	Digital Innovation Hub Pilot Action	Identify the innovation digital needs of SMEs collect and share individual best practices implemented by SMEs design suitable services in the field of digital transformation for SMEs get a deeper knowledge on type of successful models useful to provide digitalization services to the SMEs	12/05/2020	12/05/2020	IT: Veneto	complete
The Digital Transformation ecosystem in Veneto region	A.22	**ECIPA**	Training & Mobility Action	Share knowledge about: the benefits of enhancing digital transformation through an integrated ecosystem with complementary competences and services; the exchange of good practices and demo cases of concrete cooperation models; how to develop cooperation activities in the fields of IoT, Data Analytics and Predictive Maintenance.	23/07/2020	23/07/2020	IT: Veneto	complete
EXPLOREINNOSPACES: Explore Innovation solutions in a cross-border area through a facilitating	A.23	**ECIPA**	Transfer & Cooperation Action	Exploit ExploreInnoSpaces and expand it (geography and content-wise) with concrete examples of the use of the various technologies associated with S3HUBSinCE Navigation Crews, as well as with a map of "technical" allies around Europe on the same TPAs			IT: Veneto AT: Carinthia All CE regions involved in S3HubsinCE project	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
cooperation platform								
AM-LAB meets Ecipa Nordest Hub: sharing know-how and experiences about models and practices in digital transformation services	A.24	**ECIPA**	Training & Mobility Action	to exchange know-how and share experiences and practices; in particular what is particularly interesting to Ecipa Nordest Hub is the chance to compare service providing models, and to learn about AM-LAB services configuration, and its experience with SMEs to foster and support digital transformation	01/10/2020	03/10/2020	IT: HU:	to do
INNOREGIO	A.25	**ECIPA**	Transfer & Cooperation Action	An action aimed at creating a common innovation and cooperation area in the involved regions (mainly rural regions and with untapped competitive potential), promoted by a cross-border system for innovation and value creation partnerships.	TBD	TBD	IT: Veneto, Friuli, South Tyrol AT: Carinthia, Tyrol	to do
TECHMOLOGY	A.26	**ECIPA**	Transfer & Cooperation Action	The TCA aims at improving entrepreneurial competences and digital skills among SMEs dealing with the production and services linked to the means of transport, in collaboration with centers of excellence (including DIHs), to develop new products and services based on I4.0 technologies,	TBD	TBD	IT: Veneto, Friuli SI:	to do
ENOVA Campus	A.27	**KPT**	Training & Mobility Action	The workshop would include regional DIH stakeholders. The purpose should be the Know-how exchange between at least two regional DIHs	26/11/2019	27/11/2020	AT: Carinthia, Burgenland DE: Saxony and Baden-Württemberg	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
							IT: Lombardy HR: Continental croatia PL: Malopolska	
Factory 4.0. Factory & process automation	A.28	**KPT**	Training & Mobility Action	Regional workshop on digital transformation, practices and trends	08/06/2020	08/06/2020	PL: Malopolska, Świętokrzyskie, Subcarpathian, Silesian DE; HU; IT: SI: HR: AT:	complete
Transnational cooperation project	A.29	**KPT**	Transfer & Cooperation Action	Implement a scalable Design Innovation acceleration programme, a connected voucher scheme and a virtual open space to boost growth at the crossroad between traditional CCIs and AI SMEs	tbc	tbc	PL: Małopolska IT: Lombardy	to do
Study visit to Stuttgart region	A.30	**KPT**	Transfer & Cooperation Action	Visit to create opportunities for cooperation and transfer of knowledge and innovations among 15 companies on transnational level Matchmaking between companies from Malopolska region and Stuttgart region Exchange of knowledge and best practices	05/10/2019	10/10/2019	PL: Małopolskie, Świętokrzyskie, Wielkopolskie, Łódzkie, Mazowieckie, Dolnośląskie De: Stuttgart	complete
Central Europe Upstreaming for Policy Excellence in Advanced Manufacturing & Industry 4.0 towards 2030	A.31	**KPT**	Transfer & Cooperation Action	Generate improved knowledge & exchange on new technologies relevant for Central Europe Advanced Manufacturing & Industry 4.0	01/03/2020	28/02/2022	PL: Małopolska HU: Vas DE: Saxony IT: Lombardy	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
SMART THINKING FOR SMART MANUFACTURING	A.32	**TECOS**	Digital Innovation Hub Pilot Action	Help manufacturing companies adopt the principles and mentality of digital innovation adoption to increase their competitiveness and improve workforce competences.	25/08/2020	09/07/2020	SI: TECOS	in progress
Roundtable: how can the entrepreneurship and innovation ecosystem contribute to innovation in manufacturing	A.33	**TECOS**	Training & Mobility Action	Share experience in understanding how ecosystems can contribute innovation in digitalization and manufacturing	18/09/2020	18/09/2020	Slovenia Interested regions of participant PPs Regions of participant PPs	to do
Digitalization in Manufacturing	A.34	**TECOS**	Transfer & Cooperation Action	We will form a pool of project partners and beyond, that will be connected into a consortium providing digitalization solutions and tools, with hands on approach to manufacturing SMEs, especially micro and small ones. This established consortium will use available funds than to support SMEs in their digitalization efforts	TBD	TBD	Slovenia Austria Italy	to do
Industrial transformation in machinery – testing lessons learnt from High impact action mechanism	A.35	**TECOS**	Transfer & Cooperation Action	Through HIA mechanism funded by European Commission, TECOS together with SRIP Factories of the future and Ministry of economic development and technology implements pilot action for Industrial transformation. The goal is to develop an agile mechanism, that will be able to quickly support SMEs with their industrial transformation, which will than later serve the SMEs boost their innovation, competitiveness and share experiences.	TBD	TBD	Slovenia, Austria, Italy, Hungary, Germany Ideally all CE regions	to do
Fast prototyping facilities in practice	A.36	**TECOS**	Training & Mobility Action	The aim for this mobility action/study visit is to exchange know-how and share experiences and	11/11/2020	13/11/2020	SI	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				practices; learn about different service models fostering industrial transformation.				
Innovation in Digitalization	A.37	**TECOS**	Transfer & Cooperation Action	this action aims at connecting innovation supporting ecosystems and their facilities. With such connectivity we will implement actions towards supporting innovation in the machinery sector, but also other domains related to Industry 4.0.	01/10/2020	TBD	SI AT HU IT DE	to do
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.38	**PBN**	Digital Innovation Hub Pilot Action	Inform the decision makers on regional and local level into the activities and services carried out/envisaged by am-LAB DIH	01/06/2020	30/06/2020	HU	to do
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.39	**PBN**	Training & Mobility Action	Share the model adopted by am-LAB how to approach manufacturing SMEs nationally and how to provide 4.0 services to these companies	26/10/2020	30/10/2020	HU: West-Transdanubian region IT: Veneto, Lombardia AT: Burgenland	to do
Artificial Intelligence related seminars workshop in Baden-Württemberg workshop hosted by BWCON	A.40	**PBN**	Training & Mobility Action	Due to the workshop/seminar PBN's DIH (called am-LAB) widen their knowledge/exchange experience in digitalisation topics, more precisely in the topic how Artificial Intelligence solutions might be applied to SMEs	31/10/2020	31/10/2020	DE: Baden-Württemberg	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Artificial Intelligence solutions in the area of Health, Manufacturing and Smart Cities	A.41	**PBN**	Transfer & Cooperation Action	With the help of the transfer and cooperation action between FB and PBN- and with the other players, - the involved institutions in the field of health, manufacturing and smart cities (PBN) might develop their digitalization level, and new digital solutions (AI solutions) might be implemented and this T&C action would ensure , that the S3HubsinCE project will achieve long-lasting, sustainable results for the regions by possible follow-up projects	01/10/2020	01/07/2021	HU: West-Transdanubia AT: Burgenland	to do
Application of digital solutions in the field of health, learning from the SMARTEN project H2020	A.42	**PBN**	Transfer & Cooperation Action	The project has been submitted: It aims at elaborating holistic smart hospital AI maturity and readiness evaluation systems and at developing individualised, AI-based innovative health-related pilots	01/01/2021	31/12/2023	HUN: West-Transdanubia AT: Burgenland	to do
Knowledge transfer between IWU-PBN in connection with the application of smart materials in SMEs	A.43	**PBN**	Transfer & Cooperation Action	Experts of Fraunhofer IWU will train the representatives of PBN and its DIH (am-LAB) in connection with smart materials in the framework of workshops/study tours▫ PBN (am-LAB) staff will widen their knowledge in this field Work commonly on transnational/cross-border project proposals in smart materials	01/10/2020	30/06/2021	HU: West-Transdanubia (PBN) DE: Saxony (IWU)	to do
Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the	A.44	**PBN**	Transfer & Cooperation Action	Establish a cooperation called Forum Digital. various timeframes. Short term is within one year, followed by 2-5 years, and beyond 5 years periods	01/07/2020	TBC	HU: West-Transdanubia DE: Bayern	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
framework of the Chain Reactions CE project								
DIH Matrix Varaždin	A.45	**HGK**	Digital Innovation Hub Pilot Action	Support the raise of a Digital Innovation Hub in Varazdin, in cooperation with Innovation Centre Nikola Tesla (ICENT) Zagreb and its Croatian Robotics Digital Innovation Hub (CROBOHUB)	TBD	TBD	HR: Continental Croatia	to do
Assessing and improving the digital maturity of enterprises	A.46	**HGK**	Training & Mobility Action	A regional session aimed at increasing knowledge and competences in the field of digital transformation	TBD	TBD	HR SI	to do

Action Plan for	Innovation in a Circular Economy
Navigation Crew Leader	CUAS
Navigation Crew Members	bwcon, PBN
Total Action Count	7

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
BE-READI ALPS" Business Economic Renewal to Enhance strategic Development and Innovation in Alpine Space (Interreg Alpine Space Project)	A.1	bwcon	Transfer & Cooperation Action	The overall objective of the project is to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research.	02/10/2019	01/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
Circular 4.0" Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area (Interreg Alpine Space Project)	A.2	bwcon	Transfer & Cooperation Action	The main objective of the CIRCULAR4.0 project is to strengthen digitalization processes by SMEs to foster innovation processes and accelerate the transition to the Circular Economy (CE) in Alpine Space.	02/10/2019	30/06/2022	IT: Veneto, Lombardy, Turin AT: Upper Austria, Land Salzburg, Vienna Region SI: Central Slovenia DE: Baden-Württemberg, Bavaria	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
MIND4MACHINES Project: manufacturing industry's novel digitalization value chains for connecting machines with people, process, and technology (submitted under H2020-INNOSUP-2020-01-two-stage)	A.3	**bwcon**	Transfer & Cooperation Action	MIND4MACHINES aims to facilitate cross-border and cross-sectoral collaboration and to provide direct support for entrepreneurship and innovation in "smart ICT technologies for manufacturing industry", particularly covering the entire digital transformation value chain.	15/04/2020	15/10/2020	IT: Torino DE: Saxony, Baden-Württemberg	in progress
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.4	**PBN**	Digital Innovation Hub Pilot Action	Informing the decision makers on regional and local level into the activities and services carried out/envisaged by am-LAB DIH	15/06/2020	30/06/2020	HUN: Nyugat-Dunantül	in progress
Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the Chain Reactions CE project	A.5	**PBN**	Transfer & Cooperation Action	3 players (PBN, Vas County, City of Szombathely) are establishing a cooperation called Forum Digital. The initiatives started just in this year and in long-term will have a physical implementation, too, namely, the Via Nova Digitalization Centre where also PBN will be located in the future with the aim to train SMEs, students, implement R&D projects and also give place to start-ups	01/07/2020	31/12/2021	HUN: West-Transdanubia GER: Bayern	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.6	**PBN**	Training & Mobility Action	Possible future cooperation among the partners (PBN, ECIPA, IMECH, FB) institutions, and indirectly with Hungarian, Italian and Austrian stakeholders	26/10/2020	30/10/2020	HU: West-Transdanubian region (PBN) IT: Veneto (ECIPA) IT: Lombardia (IMECH) AT: Burgenland (FB)	in progress
Circular Economy @ e-Nova 2020	A.7	**CUAS**	Training & Mobility Action	Explaining the potential and risk of Additive Manufacturing in conjunction with circular Economy	26/11/2020	27/11/2020	AT: Burgenland	in progress

Action Plan for				**Digital Marketing**				
Navigation Crew Leader				FB				
Navigation Crew Members				IWU, KPT, HGK, bwcon				
Total Action Count				4				

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
To foster the awareness of the benefits of Digital Marketing for regional stakeholders	A.1	IWU, bwcon, HGK	Transfer & Cooperation Action	Goal is to create the foundation (gain knowledge and identify possible project partners) for a DEP project in the field of Advanced Digital Skills.	01.05.2020	30.06.2021	Croatia, Germany	in progress
Tailored educational trainings/seminars for SME in regard to digital marketing topics.	A.2	IWU, bwcon, HGK	Transfer & Cooperation Action	To supports companies and their employees in systematically building expertise and skills in regard to digital marketing. The training scheme is developed in cooperation between the NC partners and interested companies and will be tailored to the specific needs of the participating companies.	01.07.2020	30.06.2021	Germany	in progress
Enova fair & DIH Exchange	A.3	IWU, CUAS, KPT, IMECH, HGK	Training & Mobility Action	Two-day event at national fair. One session for presentation at public event with NC leaders. One WS for DIH knowledge exchange. Virtual study tour if possible.	26.11.2020	27.11.2020	Kärnten, Burgenland, Croatia, Poland, Italy	In progress
Inauguration WS "Digitalisierung Burgenland"	A.4	FB	Event	WS with regional stakeholder about thematic priorities for digitalization in Burgenland, Synergies with S3HubsinCE and the establishment of a digitalisation platform	25.06.2020	25.06.2020	Burgenland	complete

5.2.9. Advanced and Smart Materials and Nanotechnology

Action Plan for	Advanced & Smart Materials
Navigation Crew Leader	IWU
Navigation Crew Members	PNB; Intellimech BWCon, CUAS
Total Action Count	17

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
BE-READI ALPS	A.1	bwcon	Transfer & Cooperation Action	The overall objective of the project is to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research	02/10/2019	01/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol SI: Drava DE: Baden-Württemberg	in progress
Circular 4.0	A.2	bwcon	Transfer & Cooperation Action	Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area (Interreg Alpine Space Project)	02/10/2019	30/06/2022	IT: Veneto, Lombardy, Turin AT: Upper Austria, Land Salzburg, Vienna Region SI: Central Slovenia DE: Baden-Württemberg, Bavaria	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
DIH workshop	A.3	**PBN**	Digital Innovation Hub Pilot Action	DIH Raising awareness workshop towards regional policy stakeholders and university players	15/06/2020	15/10/2021	HU: West-Transdanubian region	in progress
Design patterns 4 smart materials	A.4	**CUAS**	Transfer & Cooperation Action	Achieve better access to smart materials knowledge for engineers and designers based on a recommender system currently under development at CUAS	01/01/2021	31/12/2021	Germany/Austria]	to do
Interregional Am Lab visit	A.5	**PBN**	Training & Mobility Action	ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	26/10/2020	30/10/2020	HU: West-Transdanubian region (PBN) IT: Veneto (ECIPA) IT: Lombardia (IMECH) AT: Burgenland (FB)	to do
Leitprojekt - Transnational Cooperation Project]	A.6	**IWU**	Transfer & Cooperation Action	Plans for German-Austrian Project "Leitprojekt" on production systems including Smart & Advanced Materials with partners from Germany (KIT, Fraunhofer) and Austria (Profactor, Industrie 4.0)	01/01/2020	31/08/2020	DE: Saxony, DE: Baden Würtenberg AT: Kärnten	in progress
Transnational Cooperation Project	A.7	**IWU**	Transfer & Cooperation Action	Visits by Fraunhofer IWU and TECOS to Hungarian SMEs and RIS3 actors have found a lot of interest within the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits.	03/06/2019	tbc	HU: West-Transdanubian region (PBN) SI: Eastern Slovenia DE: Saxony	in progress

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
Transnational Cooperation Project	A.8	**IWU**	Transfer & Cooperation Action	Visits by Intellimech with a delegation of RIS3 actors to Fraunhofer IWU have found a lot of interest on both sides and with the relevant communities in the involved countries and regions. It is planned to intensify this connection and plan follow-up visits.	08/11/2019	tbc	DE: Saxony IT: Lombardia	in progress
Industrial transformation in machinery	A.9	**TECOS**	Transfer & Cooperation Action	Industrial transformation in machinery – testing lessons learnt from High impact action mechanism	08/11/2019	tbc	Slovenia, Austria,Italy, Hungary, Germany Ideally all CE regions	to do
Forum Digital	A.10	**PBN**	Transfer & Cooperation Action	Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the Chain Reactions CE project 2. Cyber Physical Systems (DIH4CPS) 3. Artificial Intelligence	01/07/2020	tbc	HUN: West-Transdanubia GER: Bayern	in progress
SMARTEN	A.11	**PBN**	Transfer & Cooperation Action	Application of digital solutions in the field of health, learning from the SMARTEN project H2020	Summer 2020	Tbc 2021	HUN: West-Transdanubia AT: Burgenland	to do
Artificial Intelligence solutions	A.12	**PBN**	Transfer & Cooperation Action	Identification of the thematic elements of Artificial Intelligence solutions in the area of health, manufacturing and smart cities.	Autumn 2020	Summer 2021	HUN: West-Transdanubia AT: Burgenland	to do
Smart Material Applications	A.13	**PBN**	Transfer & Cooperation Action	Knowledge transfer between IWU-PBN in connection with the application of smart materials in SMEs	Autumn 2020	Summer 2021	HUN: West-Transdanubia DE: Saxony	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
IIoT Workshop	A.14	**PBN**	Training & Mobility Action	PBN's DIH (called am-LAB) representatives take part in Seminar on digital assessment tools and IIoT experiences	18/05/2020	18/05/2020	Representatives from all partners of the S3HubsinCE project	complete
AI Workshop	A.15	**PBN**	Training & Mobility Action	PBN's DIH (called am-LAB) representatives take part in Artificial Intelligence related seminars workshop in Baden-Württemberg workshop hosted by BWCON	01/10/2020	01/10/2020	Representatives from all partners of the S3HubsinCE project	to do
Study visit to Lombardy	A.16	**PBN**	Training & Mobility Action	PBN's DIH (called am-LAB) representatives take part in study visit in a technology center of ITEMA and a Japanese enterprise in Italy hosted by IMECH	October /November 2020	October /November 2020	HU: West Transdanubian Region IT: Lombardy	to do
Fast prototyping facilities in practice	A.17	**TECOS**	Training & Mobility Action	TECOS is together with Ministry of economic development and SRIP Factories of the future the designated implementation of a transformative mechanism for industry 4.0 High impact action. Within this a small-scale pilot action vouchers will be developed and implemented. Going forward the idea of HIA is to test agile mechanisms for industrial transformation, but going forward, the long-term objective is to develop a fully-fledged platform, together also with DIH, that will enable manufacturing companies to quickly react and adopt industrial transformation solutions. Thus, an exchange of experiences will be	11/11 2020	13/11/2020	SI: Eastern Slovenia	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				organized with relevant PPs that will discuss and test such solution and provide stakeholders in assessment and proposals for platforms, and agile mechanisms. In this frame also study visit will be organized, and it will be closely related to transfer and cooperation action 3.				

Action Plan for	DI & I: Machinery
Navigation Crew Leader	TECOS
Navigation Crew Members	PBN, INTELLIMECH, KPT,HGK VŽ
Total Action Count	13

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
BE-READO ALPS – Business Economic Renewal to Enhance strategic Development and Innovation in Alpine Space	A.1	**bwcon**	Transfer & Cooperation Action	The overall objective of the project is to develop and test initiatives to develop a living laboratory that will encourage traditional SMEs to a second life by creating value chains that are broadened at alpine level and linked to value-added partnerships: digital innovation, private finance and research.	10/10/2019	01/06/2022	IT: Veneto, Lombardy, Bolzano AT: Styria, Vienna, Tirol, SI: Drava DE: Baden-Wurrtemberg	in progress
MIND4MACHINES Project: manufacturing industry's novel digitalization value chains for connecting machines with people, process, and technology (submitted under H2020-INNOSUP-2020-01-two-stage)	A.2	**bwcon**	Transfer & Cooperation Action	MIND4MACHINES aims to facilitate cross-border and cross-sectoral collaboration and to provide direct support for entrepreneurship and innovation in "smart ICT technologies for manufacturing industry", particularly covering the entire digital transformation value chain, from IoT (hardware, software, services and connectivity) to Big Data, Cloud Computing, Artificial Intelligence, Blockchain and Cybersecurity technologies. Thus, the project aims to create accelerating the market up-take of solutions for deep transformation of energy/resource intensive industries into sustainable, climate neutral and intelligent	15/04/2020	15/10/2020	IT: Torino DE: Saxony, Baden-Wurttemberg	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				manufacturing, within the context of the European Green Deal.				
DIH Raising awareness workshop towards regional policy stakeholders and university players	A.3	**PBN**	Digital Innovation Hub Pilot Action	With the cooperation of PBN an advanced manufacturing centre, called am-LAB (PBN's spin-off company) was established in 2017, and since then this laboratory has gained the DIH status. The am-LAB is a service centre specialized on the application and presentation of most recent manufacturing technologies to develop smart end-user product in strong co-operation with our key customers. In am-LAB skilled and motivated multidisciplinary team of economists, engineers, medical staff, sales manager and international project coordinators work together who prefer lifelong learning Applied physics, sensor technology, modelling, ICT are representing the core technical competencies, while data analysis and visualization, project engineering, ROI calculations of the business perspectives. Sensor technology applications, polymer printing integration, strong interactions of smart production technologies ensure the smart character of the products and services offered by the am-LAB team. Due to cooperation with national institutions PBN supported approx. 300 companies in 2018.	15/06/2020	30/11/2021	na	in progress
SMART THINKING FOR SMART MANUFACTURING – Help manufacturing companies adopt	A.4	**TECOS**	Digital Innovation Hub Pilot Action	https://dihslovenia.si/ Digital innovation hub Slovenia is an institution established by Chamber of commerce of Slovenia, with TECOS being one of the main strategic partners of the institution, supporting	25/08/2020	24/12/2021	na	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
the principles and mentality of innovation adoption to increase their competitiveness and improve workforce competences.				DIHS in providing services to companies supporting their digitalization especially those operating in the manufacturing sector. As such TECOS' expertise in innovation for manufacturing and factory and process automation solutions are the ones, where we are supporting the DIHS.				
Digital Maturity Assessment 4 Manufacturing SME	A.5	**CUAS**	Transfer & Cooperation Action	Exchange experiences about the application and concepts of digital assessment tools for manufacturing enterprises.	15/07/2020	15/07/2020	SI, HR, H, PL, I	complete
ECIPA, IMECH and FB representatives visit am-LAB (PBN's DIH) to experience best practices in digitalization	A.6	**PBN**	Training & Mobility Action	To gain practical know-how in the field of: •The representatives of ECIPA, IMECH, FB to experience am-LAB DIH operation •Knowledge transfer about am-LAB digitalisation services, solutions and best practices •Sharing the model adopted by am-LAB how to approach manufacturing SMEs nationally and how to provide 4.0 services to these companies •Possible future cooperation among the partners (PBN, ECIPA, IMECH, FB) institutions, and indirectly with Hungarian, Italian and Austrian stakeholders •the benefits of the digital transformation for the companies (optimization of production, cost efficiency etc.)	26/10/2020	30/10/2020	HU: West Transdanubian region, IT: Veneto, Lombardia AT: Burgenland	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				•PBN will share the results of this action with relevant RIS3 stakeholders, to improve the provision of services to SMEs at regional level.				
Roundtable: how can the entrepreneurship and innovation ecosystem contribute to innovation in manufacturing	A.7	**TECOS**	Training & Mobility Action	To share knowledge about: •To share experience in understanding how ecosystems can contribute innovation in digitalization and manufacturing •To understand the state-of-the-art of the ecosystem and identify gaps •Exchange of good practices •Identification of a cooperation activities in Slovenia and beyond •Map expertise of stakeholders.	18/09/2020	18/07/2020	Slovenia, interested partners	to do
Seminar on digital assessment tools and IIot experiences	A.8	**IWU**	Training & Mobility Action	•Spread knowledge about the T.O.P. Model and a methodology for digitalization •discussion of a given example •Share best practices of actual projects at the IWU concerning IIoT •To get in contact with companies and identify possible needs and services •To highlight the benefits for regional companies and technology stakeholders of digital technologies and transformation (optimization of production, cost efficiency etc.) •To show the DIH and technology infrastructure and learn from the other partners	18/05/2020	18/05/2020	Germany (Saxony), Poland, Hungary, Italy, Slovenia, Croatia	complete

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				•To show the possibilities of implementation of new technologies in the value chain at various levels				
DIGITALIZATION IN MANUFACTURING	A.9	**TECOS**	Transfer & Cooperation Action	Through the implementation of the project and the exchange of experience of partners it has become evident significant expertise exists in all participating regions, with room for improvement in exchange of experience. Thus, with this transfer and cooperation action we will form a pool of project partners and beyond, that will be connected into a consortium providing digitalization solutions and tools, with hands on approach to manufacturing SMEs, especially micro and small ones. This established consortium will use available funds than to support SMEs in their digitalization efforts.	01/09/2020	30/04/2021	Slovenia, Austria, Italy	to do
Innovation in Digitalization	A.10	**TECOS**	Transfer & Cooperation Action	Through this action we aim to connect innovation supporting ecosystems and their facilities. With such connectivity we will implement actions towards supporting innovation in the machinery sector, but also other domains related to Industry 4.0. The action will focus on: -Developing a pilot scope database of innovation supporting facilities (prototyping labs, fab labs, ….) -Awareness raising activities through events, exchange of experience, best practice presentations	01/10/2020	31/12/2021	Slovenia, Austria, Hungary, Italy, Germany	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				-Small scale pilot and support activities towards SMEs, related to innovation counselling, prototyping and modelling aiming at DI and automation. The pilot action will be implementing with the support of relevant DIHs				
Industrial transformation in machinery – testing lessons learnt from High impact action mechanism	A.11	**TECOS**	Transfer & Cooperation Action	Through HIA mechanism funded by European Commission, TECOS together with SRIP Factories of the future and Ministry of economic development and technology implements pilot action for Industrial transformation. HIA will be implemented by end of 2020, but actions implemented during the course of the project, together with comparable actions in other regions will serve as a study to develop a comprehensive platform, to be transferred to other CE regions. The objective is to develop an agile mechanism, that will be able to quickly support SMEs with their industrial transformation, which will than later help the SMEs boost their innovation, competitiveness and share experiences.	02/05/2020	30/11/2020	Slovenia, Austria, Italy, Hungary, Germany Ideally all CE regions	to do
Public-Private cooperation, called Forum Digital between Policy makers and PBN utilizing the experience learnt in Regensburg visit in the framework of the Chain Reactions CE project	A.12	**PBN**	Transfer & Cooperation Action	•3 players (PBN, Vas County, City of Szombathely) are establishing a cooperation called Forum Digital. The initiatives started just in this year and in long-term will have a physical implementation, too, namely, the Via Nova Digitalization Centre where also PBN will be located in the future with the aim to train SMEs, students, implement R&D projects and also give place to start-ups. The vision of the initiative is to establish an international artificial intelligence-oriented teaching and research institute (Institute) in Szombathely	01/07/2020	31/12/2021	HU: West-Transdanubia, DE: Bayern	to do

Name of Action	No	Contributing Partner	Action Category	Short Description	Start Date	End Date	Involved CE Regions	Status
				with the participation of multi stakeholders, to serve as a basis for strengthening advanced technology-related industry. Therefore, ELTE university and as a prominent partner, the University Bologna will also be part of the commitment.				
Fast prototyping facilities in practice	A.13	**TECOS**	Training & Mobility Action	TECOS is together with Ministry of economic development and SRIP Factories of the future the designated implementation of a transformative mechanism for industry 4.0 High impact action. Within this a small-scale pilot action vouchers will be developed and implemented. Going forward the idea of HIA is to test agile mechanisms for industrial transformation, but going forward, the long-term objective is to develop a fully-fledged platform, together also with DIH, that will enable manufacturing companies to quickly react and adopt industrial transformation solutions. Thus, an exchange of experiences will be organized with relevant PPs that will discuss and test such solution and provide stakeholders in assessment and proposals for platforms, and agile mechanisms. In this frame also study visit will be organized, and it will be closely related to transfer and cooperation action 3. The aim for this mobility action/study visit is to exchange know-how and share experiences and practices; learn about different service models fostering industrial transformation.	11/11/2020	13/11/2020	interested PPs	to do

6. Conclusions & Next Steps

The purpose of this document has been to provide a detailed summary of the planning work which Partners have undertaken over the past nine-months to move their vision to reality, of a connected network of digital innovation hubs, brought together through common interests and cooperation to promote RIS3 excellence.

6.1. Conclusions

The report has presented and explored the concepts which each Partner developed associated to their regional Digital Innovation Hub. The Digital Innovation Hub Pilot Actions represent models whereby the Partner connects their regional initiative to S3HubsinCE, to generate a base structure through which the Partners and their stakeholders will promote RIS3 Excellence.

Overall, ten (10) Digital Innovation Hub Pilot Action Concepts were developed, and over sixty (60) support actions were planned by Partners within the S3HubsinCE project team. All Project Partners contributed to action development, bringing between 6 and 10 actions into the S3HubsinCE partnership, including 33 Transfer & Cooperation actions which focus on developing new projects to generate closer to market, value-creation opportunities for RIS3-critical organisations. All Navigation Crews have facilitated the development of support actions oriented to the specified thematic topic of the Crew, which means that each Navigation Crew has planned to implement actions which will connect active members within the Crew's membership.

6.2. Next Steps

To promote onward sustainability and stewardship of these actions two digital tools are used. The first, ASANA, is an internal project tool used for detailed project action planning and update provision. It allows the Partners to work together and inform each other about implementation timelines. The second, DIHNET.eu/S3HubinCE online community is a public-tool, which all stakeholders can join to receive information about the Digital Innovation Hubs connected within the network, and the actions which each Partner and Digital Innovation Hub team are arranging to connect and exchange on research and innovation ecosystem development.

Each Partner is expected to deliver their Digital Innovation Hub Pilot Action and minimum five (5) support actions by the end of June 2021, with multiple interim deadlines. It should be noted that with the onset of COVID-19 in March 2020, some adaptation of the DIH Inauguration Events and T&M actions will be required. This has been notified to the Joint Secretariat, and partners are implementing appropriate mitigation procedures to keep the spirit of the Digital Innovation Hub exchange alive.

Further detail of Partner's action implementation will be documented within later project reports, with a full model providing lessons learnt and future vision based on Partner's results, formulated into the Transnational Policy and Technology Blueprint which will be presented at the Public RIS3 Investment Forum in November 2021. This Blueprint will provide recommendations on how to further develop connections between regional innovation smart specialisation-critical organisations and a transnational network of Digital Innovation Hubs to promote central European competitiveness.

7. Abbreviations

Abbreviation	Explanation
PP	Project Partner
IC	Impact Controlling
S3	Smart Specialisation Strategy
AF	Application Form
DIH	Digital Innovation Hubs
JRC	Joint Research Centre
CERIS3	Central Europe Research & Innovation Smart Specialisation Strategy
DEP	Digital Europe Programme
T&M	Training & Mobility (Actions)
T&C	Transfer & Cooperation (Actions)
TBD	To Be Determined