AI REDGIO 5.0

Collaboration Corridors for AI-at the-Edge (E)DIH – M12

D3.2

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Abbreviations and Acronyms:	
EDIH	European Digital Innovation Hub
DIH	Digital Innovation Hub
WP	Work Package
EU	European Union
D	Deliverable
T	Task
D BEST	Data, Business, Ecosystem, Skills and Technology
DLT	Distributed Ledger Technology
AI	Artificial Intelligence
IoT	Internet of Things
IP	Intellectual Property
GDPR	General Data Protection Regulation
R&D	Research and Development

1. Executive summary

By being part of a larger network of similar organisations, hubs will be encouraged to collaborate to achieve a wide range of benefits, including improving the number and maturity of services offered. In the medium and long term, collaborations can help (E)DIHs generate new services or improve the quality of those currently offered, leveraging different skills and perspectives or drawing on a broader pool of creativity, knowledge and experience. Therefore, defining structured schemes that guide (E)DIHs in the collaboration process and encouraging hubs to develop/improve services in cooperation is a fundamental aspect to respond more promptly to the real needs of the entrepreneurial fabric of the regional ecosystem.

The key objective of the AI REDGIO 5.0 project is to create an ecosystem composed exclusively of (E)DIHs active in artificial intelligence for the manufacturing sector. This objective wants to be achieved in the context of T3.3. “(E)DIH Collaboration Corridors for AI-at-the-Edge Industry 5.0”, designing and implementing a methodology for the identification, implementation and validation of collaboration opportunities. Deliverable 3.2 provides a description of the methodological approach and identifies potential opportunities for collaboration between DIHs to create new services or improve existing ones. The methodology revolves around a six-step process that covers the entire collaboration process; from identifying potential service portfolio expansion to testing and validating collaboration scenarios.

The potential collaboration opportunities identified in this deliverable cover a total of 22 (E)DIHs from 13 countries currently active within the AI REDGIO 5.0 ecosystem. These were based on the current and future service offering of each hub and key criteria aimed at measuring the level compatibility and most appropriate collaboration corridors between pairs of hubs in terms of geographical proximity, technological focus and sectorial coverage. In this sense, a smart matching framework was applied leading to the creation of personalized collaboration factsheets for each hub. The main results regarding potential collaboration corridors among the hubs are summarized below:

- 177 potential collaborations aimed at developing new services (48 data, 34 business, 41 ecosystem, 33 skills, 21 technological).
- 498 possible collaborations aimed at improving existing services (71 data, 117 business, 122 ecosystem, 77 skills, 111 technological).

Between M14 and M36, these collaborations will be monitored, regular networking meetings will be organised and will be used to analyse the preparation, planning and progress of the collaboration corridors among all 22 (E)DIHs.

2. Introduction

"Task 3.3 - (E)DIH collaboration corridors for AI-at-the-Edge Industry 5.0" aims to promote and define in a structured way collaboration schemes that (E)DIHs can use to improve their service offering, and respond therefore more efficiently to the needs of SMEs, start-ups and the public sector in their regional ecosystem.

2.1. Scope of the deliverable

The scope of this document is to present the methodological framework set to achieve the objectives of T3.3 and first activities carried out so far for building the collaboration corridors in the AI REDGIO 5.0 ecosystem. This deliverable relies on key inputs collected in D3.1 regarding the Service Portfolio analysis and activities developed in T3.1 and T3.2.

In particular, D3.2 includes:

- **Chapter 3 "The AI DIHs Collaboration Baseline":** This chapter provides an overview of four preset collaboration scenarios that EDIHs can follow to improve their service offerings. In this regard, it should be noted that three scenarios were developed within the AI DIH Network project and one in the AI REGIO project. Ready-made rule sets and features are described for each scenario.
- **Chapter 4 "Methodology for AI DIHs Collaboration":** This chapter presents the methodological framework, providing details on the steps and activities to carry out to achieve the overall goal of T3.3.
- **Chapter 5 "Implementation of AI DIH Collaboration Scenario Framework":** This chapter details the results of the analysis carried out in phases 1 and 2 and the main findings extracted from them.
- **Chapter 6 "Roadmap activities":** This chapter details the next steps to be taken during the M13-M36 period.
- **Chapter 7 "Conclusions":** This chapter provides a summary of results and findings detailed in chapter 5.

3. The AI (E)DIHs Collaboration Baseline

The AI REDGIO 5.0 innovation action aims to consolidate the collaboration in the pan-European network of Digital Innovation Hubs (DIHs) focused on Artificial Intelligence (AI). As a result of these collaborations, (E)DIHs will provide a wider range of services and continue to act as the first regional point of contact to help companies become more competitive in business/production processes.

Following ad hoc collaboration schemes, (E)DIHs will have the opportunity to specialize in the provision of AI-based services in order to respond promptly to the specific needs of their ecosystem and its stakeholders. Hence the creation of a network based on consolidated collaborations will generate a double positive effect: firstly, it will allow DIHs to find a balance between transversal and technical skills in order to provide specific services based on the needs of their ecosystem; secondly, it will allow DIHs to broaden their competences and knowledge by leveraging the network to improve the quality of the services provided.

In the field of AI, collaboration is considered key to foster industrial and technological capacity across Europe and maximise the benefits of efforts and sustained investments.

The methodology for the implementation of collaboration scenarios used in the AI REDGIO 5.0 ecosystem is built on the solid baselines generated in the AI DIH Network project[1] and the additional outcomes and knowledge extracted from the application of the three grand collaboration scenarios in the AI REGIO[2] project.

Specifically, the blueprint for cross-border collaboration between DIHs[3], as a result of the AI DIH Network project, sets the **three Grand Collaboration Scenarios** to be applied in AI REDGIO 5.0: Development of a new service, Partnership to deliver a service jointly and Matchmaking. It is valuable and relevant as its structure had an AI focus and therefore, has a solid applicability for WP3.3 of the AI REDGIO 5.0 project.

The three Grand Collaboration Scenarios were developed considering the active participation of DIHs which provided inputs and feedback on cross-border cooperation possibilities. In parallel, an experimental methodology was designed by the Consortium of the AI DIH Network Project to improve the collaboration relationships between DIHs and identify costs, benefits and risks of the actors involved in a specific collaboration scenario. In particular, the methodological structure included:

- **Identification** of **cooperation opportunities**;
- **Development** of **scenarios for the cooperation opportunities based on a customer journey mapping**:
    - This process mainly analysed the (E)DIHs´ needs, requirements and features of their customer base; how to better address them and the possibilities for improvement of current services through collaboration in order to increase their performance.
- **Evaluation** of **costs, risks** and **benefits;**
- **Managing** the **costs** and **risks** by identifying solutions to overcome the barriers towards cooperation;
- Develop **practical mechanisms for cooperation** (legal and financial issues).

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[1] AI DIH network project: https://ai-dih-network.eu

[2] AI REGIO project: https://www.airegio-project.eu/

[3] AI DIH Network, Final Study Report (2020), presented by PwC, in partnership with CARSA and Innovalia, to the European Commission – DG CONNECT: https://ai-dih-network.eu/media_and_training.html

As a continuation of the baseline set in AI DIH Network, AI REGIO identified potential collaboration opportunities within the network of DIHs part of this project and, as a result, one additional sub-scenario arose and was tested and validated: Internal partnership to deliver a service jointly.

Below, each scenario is detailed in short with its own implementation scheme, including the benefits, costs and risks for the hubs involved as well as the potential solutions derived from the feasibility check.

3.1. Development of a new service

This scenario is based on a hub´s interest in **expanding its current service portfolio** in order to adapt better to the needs and requirements of the ecosystem and **select partners interested in developing a new service together**.

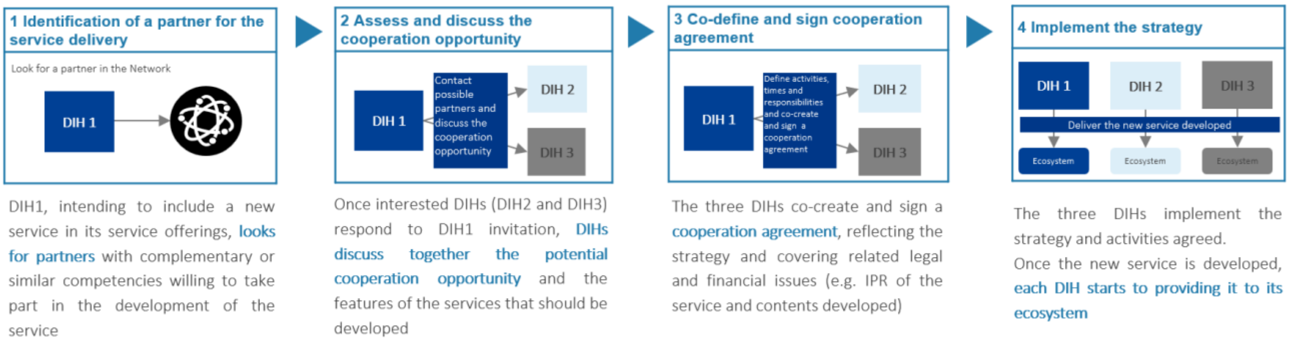

Figure 1: Development of a new service structure

The evaluation of costs, benefits, and risks pertaining to the participants engaged in this collaborative scenario highlights a set of opportunities for improvement, including the enhancement of knowledge towards EU markets and ecosystems, which would enable DIHs to more readily identify shared needs and challenges or the capacity to defining and implementing standard templates for governing the development of new services.

3.2. Partnership to deliver a service jointly

Delivery of Joint services offers an EDIH the possibility to **enter into a partnership with other hubs that have additional, complementing competences** when providing an existing service in order to better meet the request of a client.

In particular, for joint service provision, EDIHs may find it necessary to exchange experts or expertise and/or share their existing facilities. These specific cases do not introduce significant deviations from the outlined process. Nevertheless, these aspects should be clearly addressed within the cooperation agreement between the DIHs. This collaboration scenario is summarised in Figure 2.

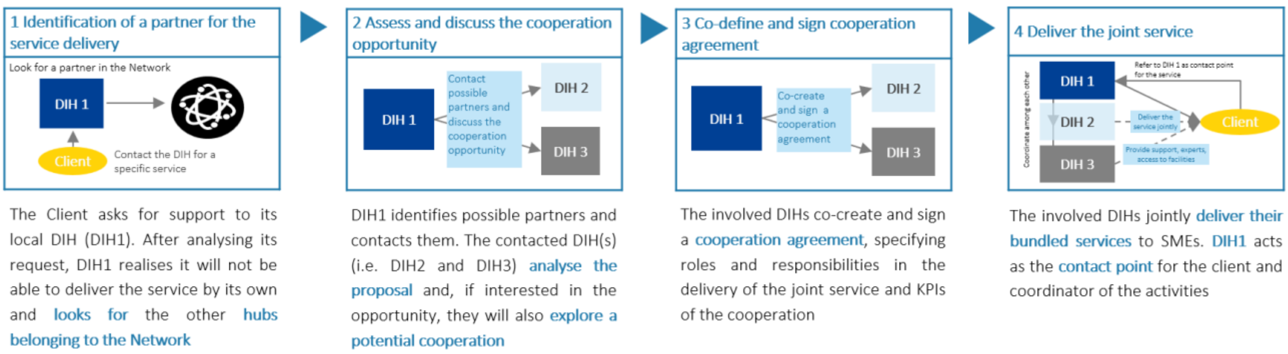

Figure 2: Joint service structure

Based on the analysis of the costs, benefits, and risks of the scenario, it is important to consider that the effectiveness of this scheme can be improved through some measures, such as regulating the liability of the parties, introducing non-compete agreement clauses that can protect the exclusivity of the relationship created or using templates for IP protection.

3.2.1. Internal partnership to deliver a service jointly

A sub-type of this collaboration scenario has emerged in previous iterations of DIH collaborations, especially during the AI REGIO project. The outcome was the generation of two distinct situations defined as inter or intra-collaborations.

- Intra-collaborations are defined as collaborations that occur among two or more different entities as part of the same DIH.
- Inter-collaborations are defined as collaborations that occur among two or more DIHs.

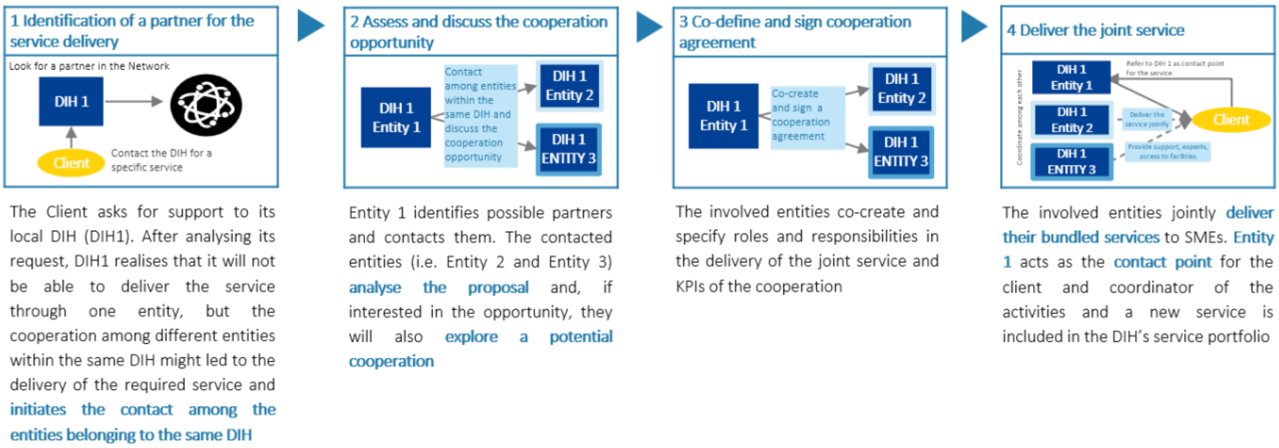

Figure 3: Internal partnership to deliver a service jointly

This sub-type will be taken into consideration during the 2nd iteration of the actual implementing process of the collaboration instances within AI REDGIO 5.0 and developed in D3.7.

3.3. Matchmaking

This scenario comes into play when a DIH seeks to **assist a customer in finding potential collaborators in a different ecosystem**. The matchmaking request may pertain to various types of partners, including technology providers, business associates, or financial backers, such as identifying solution providers, customers, investors, industrial partners, and more. By engaging other hubs in this search, the DIH expands the pool of potential partners available to its clients. Collaboratively, with the DIH Network's involvement, this approach fosters the creation of business opportunities that span diverse ecosystems. This collaboration scenario is summarized in Figure 4.

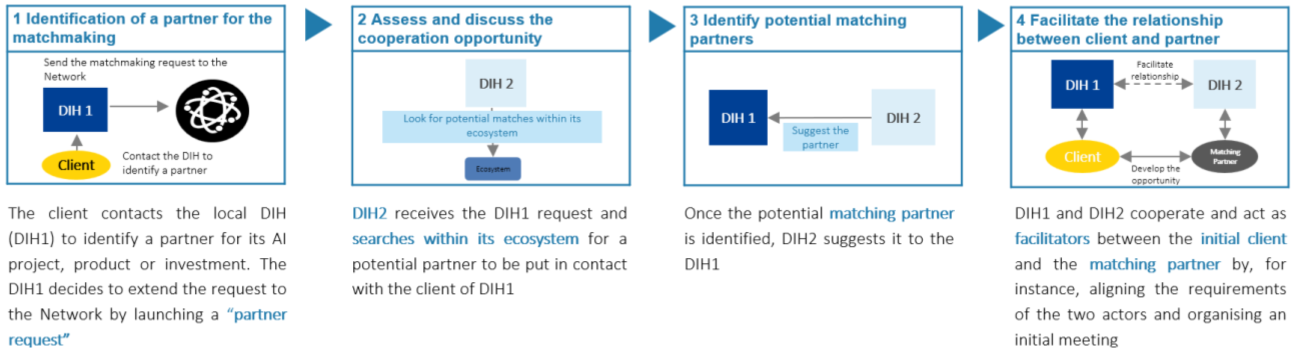

Figure 4: Matchmaking structure

In relationship to the analysis of costs, benefits, and risks associated to this collaboration scenario some ways to enhance its effectiveness are identified, such as the incorporation of non-compete clauses within the cooperation agreement, provision of financial incentives to support DIHs in initiating matchmaking activities or the establishment of a strong online presence for the DIH to streamline networking and matchmaking activities.

4. AI REDGIO 5.0 Methodology for AI (E)DIHs Collaboration

4.1. Objectives of AI (E)DIH Collaboration

Three objectives are needed to support a consolidated network of AI-at-the-Edge Industry 5.0:

1. Define structured frameworks through the creation of inter-regional collaborations, also known as "corridors" among (E)DIHs;
2. Define collaboration plans to be implemented and overcome obstacles that might otherwise prevent partnerships;
3. Equip (E)DIHs with key tools and mechanisms for collaboration by tapping into the experience and know-how of different hubs that enable them to offer long term support to SMEs and public sector within their own ecosystem and beyond.

In this process, it is essential to provide (E)DIHs with insight on strategic ways of working together in a coordinated manner. The added-value emerges from future services that (E)DIHs might develop together and later provide individually to their own customers.

The contribution of AI REDGIO 5.0 within T3.3 is to:

- **Upgrade the Service Catalogue** of each (E)DIH, identify their compatibility, test and monitor collaboration corridors between them.
- **Enhance collaboration from the AI REDGIO 5.0 Network** with new methods and tools to govern the transition from regional DIHs to (E)DIH-to-(E)DIH cross-border collaboration.
- **Consolidate the network** of innovation leaders to offer and provide services to the less advantaged regions.

4.2. Methodological approach for building collaboration scenarios in AI REDGIO 5.0

A methodology for collaboration scenarios has been defined in AI REDGIO 5.0 with the aim of accomplishing the set objectives. This methodology aims to identify the most appropriate collaboration opportunities among (E)DIHs with the scope of enhancing their current service offering by adding new offered services to their portfolio and enabling them to better address the customer and market needs. In this respect, this methodology considers the preferences and realities of the hubs, together with the nature, identity and added-value provided by an AI (E)DIH. The implementation plan for the collaboration corridors consists of 4 phases that encompass 6 steps, covering the entire collaborative process from exploration of the enlargement of the service portfolios to the consolidation of concrete collaborations in a sustainable manner. The first two phases take place in AI REDGIO 5.0's 1st iteration, from M3 to M12, while phases 3 and 4 will be carried out during the 2nd iteration from M13 to M36.

- **Phase 1: Exploration** – This phase will identify which hubs, depending on their characteristics and the needs of the interested parties, can be suitably matched to offer the best support to the interested parties. This phase consists of two steps: Service Portfolio Analysis and (E)DIH collaboration scenarios identification.
- **Phase 2: Initiation –** This phase will consist of two steps (collaboration tools and testing) and will draft structural mechanisms to support the initiation and preparation of the collaboration journeys.
- **Phase 3: Expansion** – This phase will define the (E)DIH Collaboration journey and will monitor and analyse the (E)DIHs interactions.

- **Phase 4: Consolidation –** This phase will depict the realistic needs and results to achieve sustainable EU-collaborations between (E)DIHs.

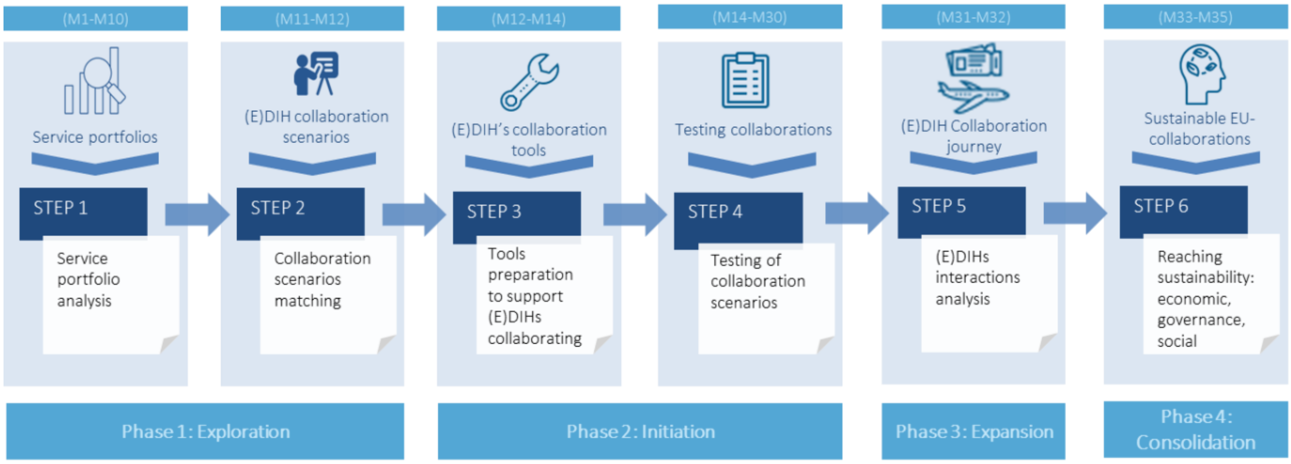

Figure 5: (E)DIH Collaboration Methodology

4.2.1. Step 1: Service portfolio analysis

The Service Portfolio is the main tool used in AI REDGIO 5.0 to map the complete lists of services provided by (E)DIHs to their customers. It is based on a "3-level" taxonomy divided into class; type and service. The categorization contains 5 classes namely Data, Business, Ecosystem, Skills and Technology also known in short as D BEST. The Catalogue contains 56 services subdivided into 12 for Data, 14 for Business, 12 for Ecosystem, 9 for Skills and 9 for Technology.

The Service Portfolio tool was initially used in the AI REGIO project and improved in format and interface for AI REDGIO 5.0. In this sense, it was launched in T3.1 and presented in a series of tutorial workshops that also include guidance on compiling the customer journeys and service pipelines for all 22 (E)DIHs active in the project. In a nutshell, the Service Portfolio tool includes:

- Service Catalogue: includes current services provided, as well as the services that the (E)DIHs would like to offer in the future and their corresponding description;
- Service Pipelines: includes the analysis of the customer base, identification of their types of customers and the creation of a matrix with the services they would provide tailored to the customer type creating a pipeline of services.

The main focus in building the (E)DIHs collaboration corridors was an analysis of the current and future services. A statistical analysis was the outcome of the Service Portfolio with the aim of:

- Understanding which services are currently offered and which ones are intended to be developed in the future as new;
- Mapping the share of (E)DIHs for each service class, the top current and new services;
- Establish the profiles associated with the three Grand Collaboration scenarios;
- Implement a smart matching framework to enable partnerships formation;
- Provide an analytical roadmap of possible collaboration corridors.

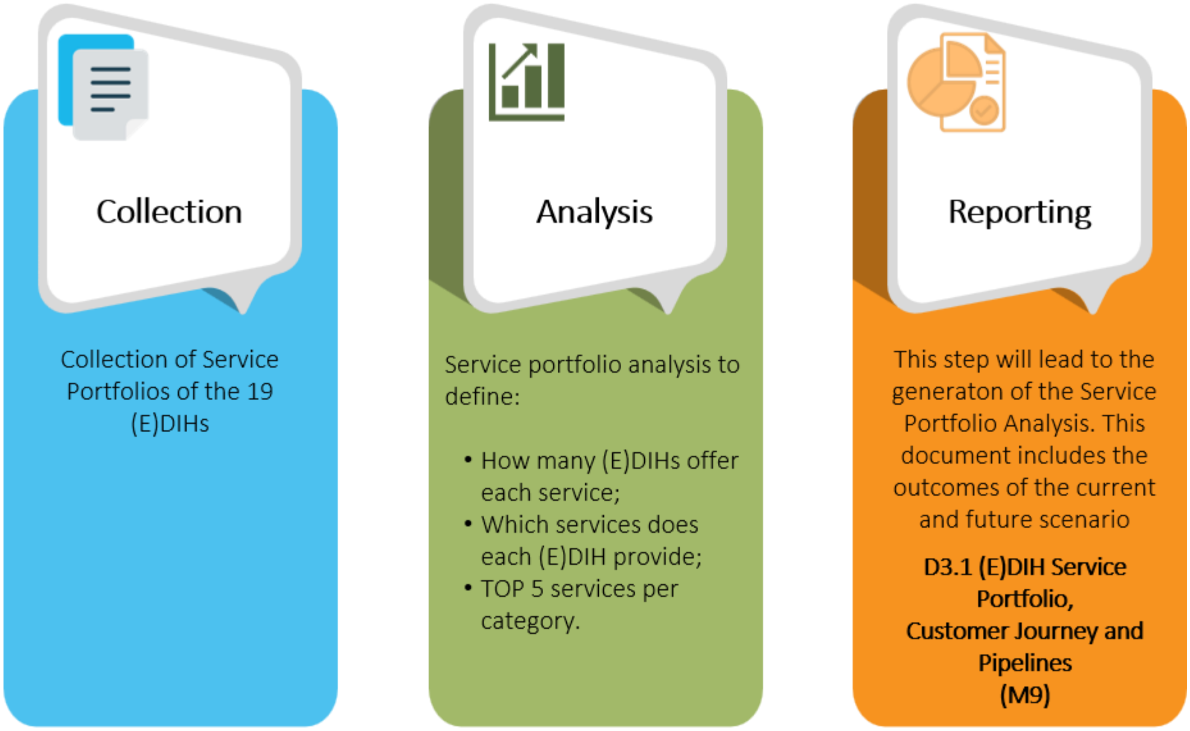

Figure 6: Steps followed in the Service Portfolio Analysis

Please refer to Deliverable 3.1 *(E)DIH Service Portfolio, Customer Journey and Pipelines* for more details.

4.2.2. Step 2: AI REDGIO 5.0 (E)DIH Collaboration Scenarios

On the 10th of November 2023, a workshop on Collaboration Corridors was organised for all 22 (E)DIHs in the Consortium, but opened to all the interested parties within the project. The main aspects discussed were:

- Overview of **the baseline for the three grand collaboration scenarios** first applied in the AI DIH Network and then adapted and implemented also during the AI REGIO project;
- **Framework cooperation agreements** as formal documents that can be used by (E)DIHs which decide to develop a service in collaboration;
- **Lessons learned** on previous DIH collaborations, especially the good practices and limitations encountered during the AI REGIO project;
- Process and methodology for **building the Collaboration Corridors** within AI REDGIO 5.0.

(E)DIH Collaboration scenarios identification

In order to identify potential collaboration corridors and establish the most appropriate compatibility opportunities among AI REDGIO 5.0 (E)DIHs, a **smart matching framework** has been developed to support and facilitate partnership building. This framework is based on:

- Previously tested methodologies applied in other Horizon 2020 projects and applied successfully with the goal to enhance collaboration such as AI REGIO and AI DIH Network.
- Direct interests, needs, characteristics, preferences indicated by the (E)DIHs in the AI REDGIO 5.0 ecosystem.

The methodology used to assess and measure the level of compatibility between (E)DIHs is based on the following steps:

Data Collection

Data is collected from internal and external sources in order to have a complete picture of the ecosystem of each (E)DIH. Internal sources represent primary information collected within the AI REDGIO 5.0 project such as the Service Portfolio. The external sources refer to all information gathered outside of the project. This step represents the baseline to build the **compatibility assessment procedure.** The data resources used to collect the information is displayed below:

Table 1: Data Sources used for the compatibility assessment and rating

	Data sources	Purpose
Internal sources	Service Portfolio	Map current and future service offer and understand the customer focus of (E)DIHs
External sources	EDIH Catalogue[1]	Map key characteristics of (E)DIHs within AI REDGIO 5.0 Consortium (geographical position; technological/sectoral coverage).

Data analysis and collaboration compatibility rating

The data collection step is followed by a data analysis. Four criteria are used to identify and evaluate the compatibility between (E)DIHs and define the collaboration corridors. These are: service offering, geographical proximity, technological coverage and sectoral coverage.

These four criteria together with key information regarding the desired future service offer of the hubs will be used to measure the compatibility for collaboration among different (E)DIHs. In general, other characteristics may also be added to the compatibility matrix as hubs are complex organisations that evolve over time.

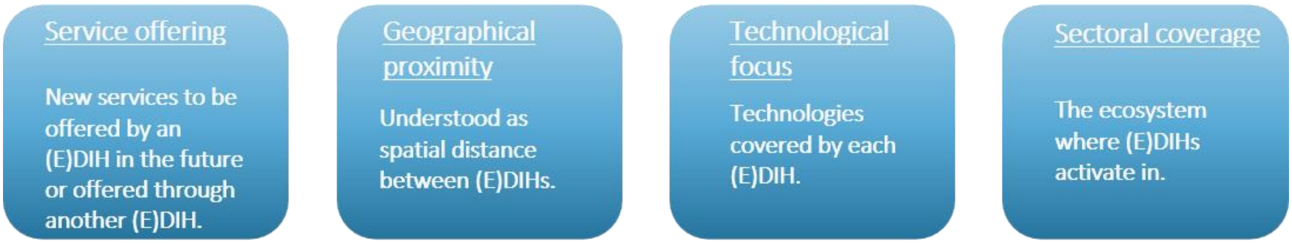

Figure 7: Criteria considered for collaboration compatibility

The 22 AI REDGIO 5.0 (E)DIHs have been mapped in these dimensions based on the information gathered in the previous step, enabling the comparison among them and the rating of their compatibility which led to the definition of the collaboration corridors.

Geographical proximity

One of the key criteria to enhance potential collaboration corridors between (E)DIHs is geographical proximity. Although digital transformation has accelerated remote working, this factor plays a significant role for boosting structured collaborations and exchanges of experiences and know-how of other hubs.

The approach applied for rating the collaboration compatibility in terms of geographical proximity is the following.

[1] EDIH Catalogue | European Digital Innovation Hubs Network (europa.eu)

1. A **score of 3** is given to (E)DIHs located in the same or neighbouring countries (e.g., countries sharing a border).
2. A **score of 2** is given to (E)DIHs in included in the same European macro-region, in accordance with the division proposed by EuroVoc[1] that identifies 4 main macro-areas across Europe:
    a. *Northern Europe*: Finland, Faroe Islands, Iceland, Norway, Denmark, Sweden, Estonia, Latvia and Lithuania;
    b. *Southern Europe*: Gibraltar, Greece, Italy, Malta, Portugal, San Marino, Holy See, Cyprus, and Spain (including Canary Islands);
    c. *Western Europe*: France, Channel Islands, Germany, Ireland, Liechtenstein, Luxembourg, Andorra, Monaco, Netherlands, Isle of Man, UK, Switzerland, Austria, and Belgium;
    d. *Central and Eastern Europe*: Albania, Hungary, Poland, Romania, Bulgaria, Belarus, Bosnia and Herzegovina, Croatia, Kosovo, North Macedonia, Montenegro, Moldova, Slovakia, Czechia, Russia, Serbia, Slovenia, Montenegro, Ukraine, and Caucasus countries.
3. A **score of 1** is given to (E)DIHs in countries that are neither in neighbouring countries nor belong to the same macro-region.

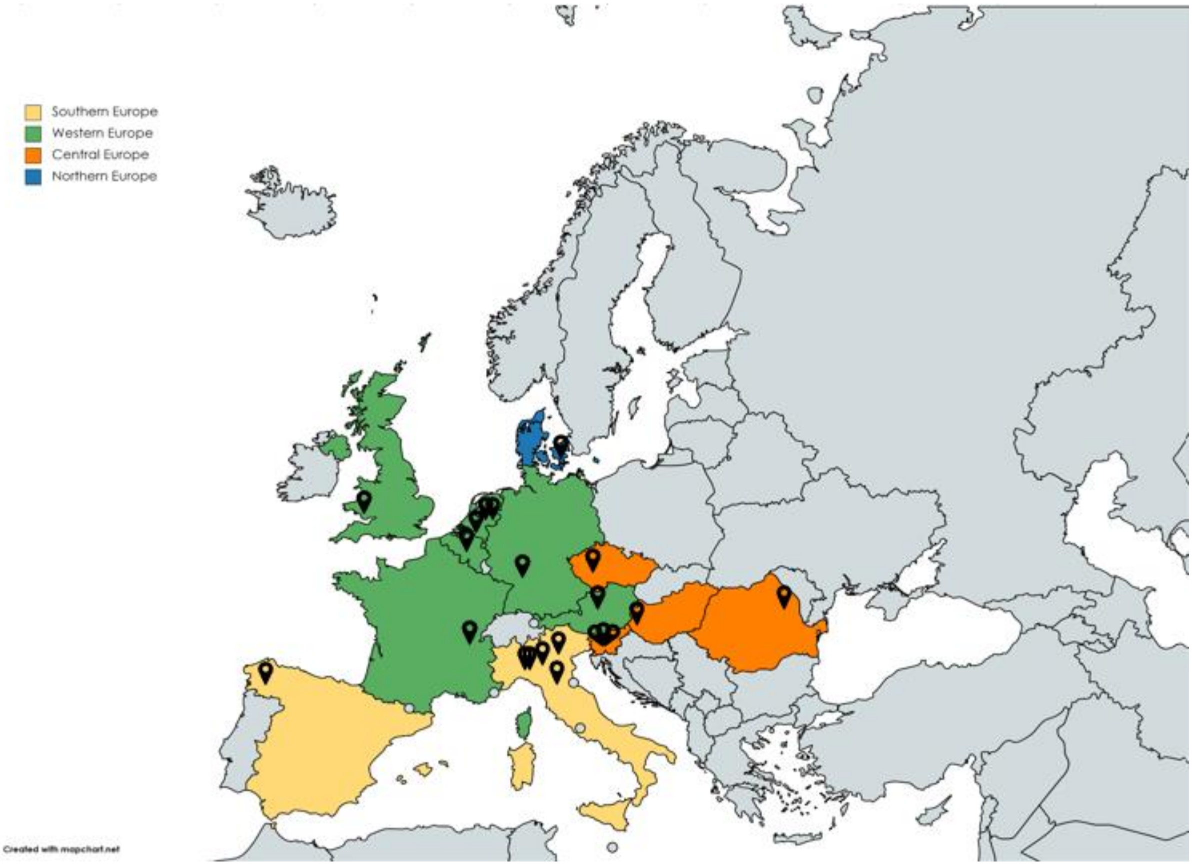

Figure 8: Geographical division considered for the compatibility rating

The scores obtained for each pair of (E)DIHs according to their geographical proximity can be consulted in section 5.1.1 Geographical proximity.

[1] https://eur-lex.europa.eu/browse/eurovoc.html?params=72,7206,911#arrow_911

Technological focus

A second criterion to establish the most appropriate collaboration corridors is the technological focus of (E)DIHs where individual hubs are assumed to have a higher motivation and interest in forming strong partnerships with similar entities that activate in the same technological domains. In this manner, (E)DIHs know-how tends to increase as well as the quality of services offered to SMEs and startups within their own ecosystems. This criterion also contributes to increased TRLs, more stable customer journeys, a more accelerated digital transformation and long-term sustainability of hubs.

According to information provided by (E)DIHs, hubs have knowledge, skills and capabilities in the use of 9 technologies on average. Based on this input, the following approach has been applied to the rating for the technological focus:

1. A **score of 3** is given to the matches of (E)DIHs covering at least 10 common technologies (above 100% of the average);
2. A **score of 2** is given to the matches of (E)DIHs covering a number of common technologies comprised between 7 (included) and 9 (included) (with coverage ranging from 66.7% up to 100%);
3. A **score of 1** is given to the matches of (E)DIHs covering a number of common technologies lower than 7 (excluded) (with coverage ranging from 33.3% up to 66.7%);
4. A **score of 0** is given to the matches of (E)DIHs covering no common technologies (with coverage ranging less than 33.3%).

To ensure consistency of this criterion, the list of technologies included in the EDIH Catalogue have been considered:

Table 2: Technologies considered for the compatibility rating

<table>
<tr><th colspan="2">Technological competences</th></tr>
<tr><td>
• Additive manufacturing
• Artificial Intelligence & Decision support
• Big data
• BI tools
• Blockchain and Distributed Ledger Technology (DLT)
• Chemical engineering (plants, products)
• Cloud Services
• Communication network
• Cyber-physical systems
• Cybersecurity
• Data
• Digital twins
• Displays
• Gamification
• High performance computing
• Human computer interaction
• Industrial biotechnology
</td><td>
• Internet of Things
• Internet Services & Applications
• Laser-based manufacturing and materials processing
• Location-based applications
• Logistics
• Micro- and nanoelectronics, optoelectronics
• Mobility
• New technologies for Audio-Visual sector - Media
• Organic and large area electronics
• Other (please specify)
• Photonics
• Quantum Technologies (computing/communication)
• Robotics
• Semiconductors and Nanotechnology
• Sensors & Vision Processing Systems
• Simulation engineering and modelling
• Software Architectures
• Virtual Reality
</td></tr>
</table>

The scores obtained for each pair of (E)DIHs in accordance with similar technological focus can be consulted in section 5.1.2 Technological focus.

Sectorial coverage

The third criterion is focused on the similarity between (E)DIHs' ecosystems and the sectoral coverage is a relevant indicator in this sense. Some hubs consider that collaborations based on complementary sectors can contribute positively to the value proposition offered to SMEs and startups within their own region. This allows both organizations to expand on their markets, better engage existing audiences, and increase profitability.

According to information provided by (E)DIH, hubs have knowledge, skills and capabilities related to 6 sectors on average. In this respect, the following approach has been applied:

1. A **score of 3** is given to those matches of (E)DIHs active in 5 or more common sectors (above 100% of the average);
2. A **score of 2** is given to those matches of (E)DIHs active between 3 (included) and 4 (included) common sectors (with coverage ranging from 66.7% up to 100%);
3. A **score of 1** is given to those matches of (E)DIHs active in less than 3 (excluded) common sectors (with coverage ranging from 33.3% up to 66.7%);
4. A **score of 0** is given to those matches of (E)DIHs that cover no common sector (with coverage ranging less than 33.3%).

To ensure consistency in this criterion, the list of sectors included in the EDIH Catalogue has been considered:

Table 3: Sectors considered for the compatibility rating

<table>
<tr><th colspan="2">Sectoral coverage</th></tr>
<tr><td>
• Aeronautics
• Agricultural biotechnology and food biotechnology
• Automotive
• Community Led Local Development
• Construction & Assembly
• Consumer products
• Cultural and creative economy
• Defence
• Education
• Electricity
• Energy
• Energy, fuels and petroleum engineering
• Environment
• Financial
• Fishery
• Food and beverages
• Health care
• Leather
• Life sciences
• Manufacturing and processing
</td><td>
• Maritime
• Metal working and industrial production
• Mining and extraction
• NMP Non Metallic Materials & basic processes
• Nuclear
• Paper and wood
• Personal services
• Polymers and plastics
• Public administration
• Real estate
• Retail, wholesale or distribution
• Security
• Smart City
• Space
• Telecommunications
• Textiles
• Tobacco
• Transport & Mobility
• Transport sector
• Travel and tourism
</td></tr>
</table>

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The scores obtained for each pair of (E)DIHs in terms of sectoral coverage can be consulted in section 5.1.3 Sectorial coverage.

Data aggregation and matching

Individual compatibility scores were calculated for each of the above-mentioned criteria. The **Collaboration Compatibility Score** has considered the preferences and active ecosystem of each (E)DIH to create an overall compatibility assessment. This approach will finally determine the potential and suitability of each (E)DIH to establish cross-border collaborations and can be consulted in section 5.1.4 Overall compatibility of (E)DIHs.

Identification of potential collaboration opportunities

The first three phases presented above (data collection, data analysis and compatibility rating and data aggregation and matching) are based on assessing the likeliness and interests of each (E)DIH to implement new services based on a variety of additional factors such as geographical proximity, technological focus, sectoral coverage and customer focus.

The hypothesis assumes that (E)DIHs would be interested in cooperating to enhance their own ecosystem where they activate, using collaboration corridors to enhance their role within the pan-European network of EDIHs. In this sense, the analysis of current and future services completed in the Service Portfolio enables the identification of complementarities and additional synergies for establishing sustainable collaboration corridors.

In essence, 3 main (E)DIH profiles have been identified for each service based on the dynamics between current offered services and new services to be developed:

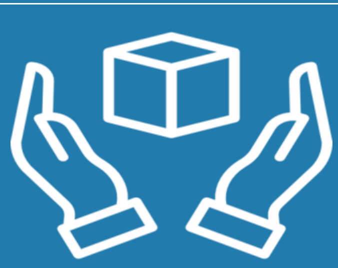
- **Profile 0**: (E)DIHs that neither offer the service currently, nor have the capability to provide it in the future.
- **Profile 1**: (E)DIHs that do not offer the service currently, but have the capability and know-how to develop it and provide it in the future.
- **Profile 2**: (E)DIHs that currently offer the service, but are interested in improving its maturity. They can achieve this goal by collaborating with an (E)DIH in the same situation or providing it outside of its ecosystem.

Considering the definition of these profiles and the characteristics of the three Grand Collaboration Scenarios, (E)DIHs can be clustered into 3 different cooperation approaches that focus on provision of services:

PROFILE 1

All DIHs that do not currently offer the specific service, but wish to do so, can be coupled within this collaboration approach. In this situation, DIHs will **collaborate in order to design and create a new service** that will help them to address the needs of their ecosystem and customers.

Besides, this collaboration scenario creates potential future partnerships and increases the visibility in other EU countries and regions. This type of approach is suitable for (E)DIHs identified as Profile 1.



DEVELOPMENT OF A NEW SERVICE

PROFILE 2

PARTNERSHIP TO PROVIDE SERVICE JOINTLY

Any (E)DIH that currently offers the service, and in order to better and more accurately address the customer needs as well as accelerate the maturity of the service offered can cooperate with another (E)DIH with similar characteristics to do so. In this case, the **(E)DIHs will collaborate to provide an existing service that they currently offer, thanks to the complementary competences they have**. This approach ensures the (E)DIHs enhance their current service portfolio by increasing alternatives for customers and creating potential future partnerships. This type of approach is suitable for (E)DIHs identified as Profile 2.

PROFILE 0 + PROFILE 2

All those (E)DIHs that do not currently offer the specific service, nor do they wish to do so, they can make use of the third case study, namely, rely on a DIH that on the contrary offers the requested service. In this case, **the (E)DIH will be directly supported by another (E)DIH who will replace it in the provision of the service**. By involving other hubs, the DIH will have the ability to satisfy its customers without investing time or resources. This collaboration scenario provides the opportunity to generate potential future partnerships. This type of approach is suitable for DIHs identified as Profile 0 and Profile 2.

MATCHMAKING

4.2.3. Step 3: (E)DIH Collaboration tools

This phase is based on developing a set of tools created and used to enable and ease collaboration, and provide insight on the compatibility possibilities among the different (E)DIHs based on the information gathered in previous phases with the end goal to find the most suitable partners for collaborations.

These tools are:

- **Collaboration factsheet:** This is a key output comprised of visual representations of (E)DIH summarizing the core characteristics of each hub and the compatibility for collaboration with other (E)DIHs, based on the inputs they provided during Step 2. Individual compatibility scores are calculated for each criterion mentioned in *(E)DIH Collaboration scenarios identification*. The Collaboration Compatibility Score is calculated by adding the individual ones to create an overall compatibility assessment. Specifically, this parameter helps to determine the suitability of every DIH for establishing cross-border collaborations. The higher the final score is, the higher the compatibility for collaboration between two (E)DIHs. The final Collaboration Compatibility Score obtained for each pair of (E)DIHs can be consulted in section 5.1.4 Overall compatibility of (E)DIHs. Based on these results, an "(E)DIH fact sheet" will be generated for each hub. This single-page document contains information on potential collaboration opportunities, indicating which Hubs are best suited for creating partnerships according to the type of collaboration scenarios. A template of an example of an (E)DIH Fact Sheet is presented below.

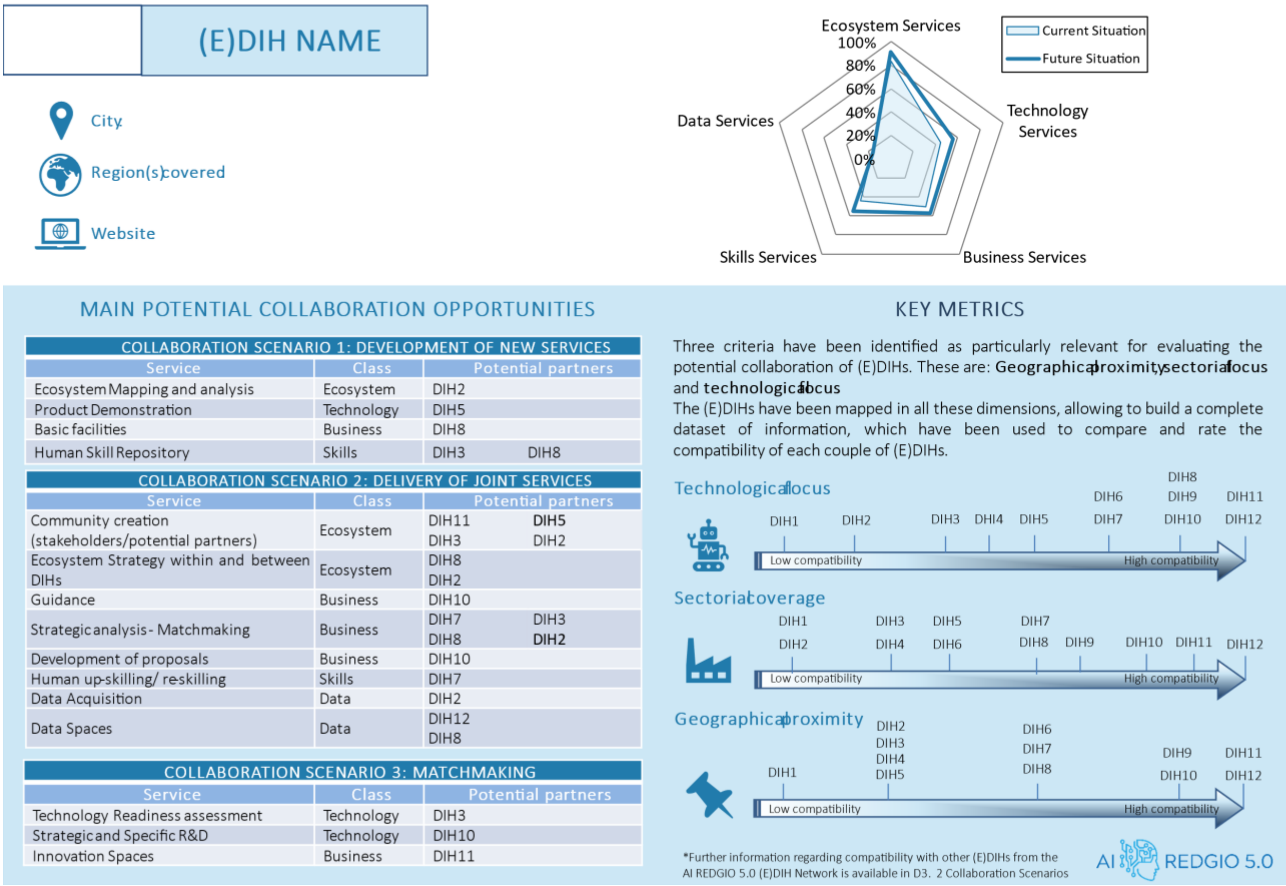


Figure 9: Example of the (E)DIH Fact Sheet

- **Networking meetings:** This activity consists of organizing a series of networking meetings once the Collaboration factsheets have been shared with the (E)DIHs in the project. The scope of these meetings is to encourage an interactive networking process for (E)DIHs to identify their most appropriate partners and the development of a specific service marked especially as a future service. In this way, collaboration activities can be monitored closely and from their inception. The aim is to coordinate these meetings until concrete plans for collaboration are underway and continue the monitoring process with the collaboration scenario reporting template tool afterwards.

- **Collaboration scenario reporting template:** This is a section derived from the (E)DIH Handbook – Chapter III: (E)DIH Services Development, implementation and exploitation focused on new services

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to-be developed through which the hubs are periodically monitored regarding their individual and collaborative implementation processes of new services.

(E)DIHs will be invited to participate in networking meetings in order to align with the interests and needs of potential service collaboration partners. In this process, they will each receive a personalised collaboration factsheet to understand their potential collaboration opportunities. At the same time, (E)DIHs will be asked to report on their collaborative experience periodically which is necessary to monitor and test their collaboration journey.

4.2.4. Step 4: Testing Collaboration

The collaboration process will start and be monitored through the Collaboration Scenario reporting template. As mentioned in Section 4.2.3, the (E)DIH Handbook will be used as an essential tool to report the collaboration experiences of the (E)DIHs. In this line, there is a 3-stage process for compiling this reporting that further enables the analysis of the collaboration journey and the assessment of their sustainability levels within and beyond the AI REDGIO 5.0 project.

In this sense, the collaboration plan is structured as follows:

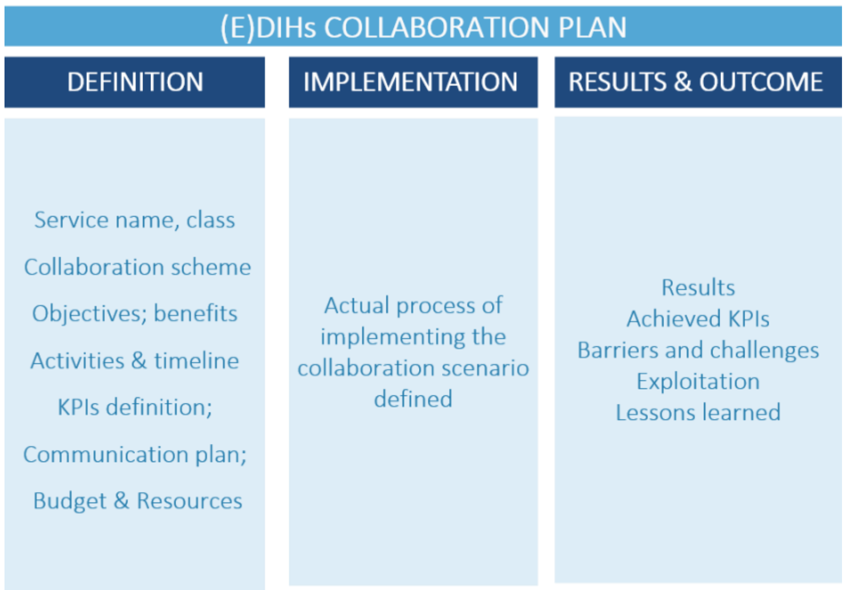

Figure 10: (E)DIHs Collaboration Plan

4.2.5. Step 5: (E)DIH Collaboration journey

The progress of each collaboration is documented using the tools defined in Steps 3 and 4 of Phase 2 of the methodology. The information is collected in the Collaboration Scenario Report and analysed considering the lessons learned, barriers and mitigation measures taken to accomplish successful collaboration schemes among AI REDGIO 5.0 (E)DIHs. The main outcome will be an analysis of the (E)DIH collaboration journey and its results will be presented to all (E)DIHs during a workshop.

4.2.6. Step 6: Sustainable EU Collaborations

During the consolidation phase, the finalised collaborations will undergo a sustainability analysis where (E)DIHs in collaboration partnerships will have to assess the exploitation potential of their services. This will require an extensive definition and evaluation of key economic, governance and social aspects that would be applicable and necessary to ensure the long-term structural partnership potential of EU-wide collaborations among entities such as (E)DIHs.

5. Implementation of the AI REDGIO 5.0 Collaboration Scenarios

This section presents the results obtained during the first three steps of the collaboration corridors methodology.

The following 22 EDIHs participated in this process. Information on the region of reference as well as the short and long name is provided in the table below.

Table 4: List of EDIHs being part of AI REDGIO 5.0 Ecosystem

Nº	DIH short name	DIH long name	Region of reference
1	AFIL	ASSOCIAZIONE FABBRICA INTELLIGENTE LOMBARDIA	Lombardy - Italy
2	SRC-EDIH	Competence Centre for Advanced Control Technologies	Ljubljana - Slovenia
3	JSI	Jožef Stefan Institute	Ljubljana - Slovenia
4	4PDIH	University of Ljubljana	Ljubljana - Slovenia
5	DiTMaPS	DIH DiTMaPS	Ljubljana - Slovenia
6	OOST NL	Think East Netherlands	Apeldoorn - Netherlands
7	UTW	University of Twente	Overijssel - Netherlands
8	Polymeris	Polymeris	Rhone - Alpes - France
9	HIT	Hub Innovazione Trentino	Trentino Alto Adige - Italy
10	ART-ER	ART-ER-SOCIETA CONSORTILE PER AZIONI	Emilia-Romagna - Italy
11	MAKE	Flanders Make	Heverlee – Belgium
12	GAIN	The Galician Innovation Agency	Galicia – Spain
13	MADEcc	MADE Competence Center Industry 4.0	Lombardy - Italy
14	TUIASI	Technical University Gheorghe Asachi Iasi	Iasi - Romania
15	CVUT	Czech Technical University in Prague	Prague - Czech
16	MADE	Manufacturing Academy of Denmark	Copenhagen - Denmark
17	PBN	Pannon Business Network	Zanati - Hungary
18	DMIW	Digital Manufacturing Innovation Hub Wales	Bridgend - Wales
19	SCCH	Software Competence Center Hagenberg GmbH	Hagenberg - Austria
20	Intellimech	Intellimech, Consorzio per la Meccatronica	Lombardy - Italy
21	BRAINPORT	Brainport Industries	Eindhoven - Netherlands
22	SIG	Steinbeis	Baden Wutenberg - Germany

5.1. Results of the Service Portfolio analysis

This section presents the main results of the Service Portfolio Analysis according to the current and future services based on the D BEST classification (Data, Business, Ecosystem, Skills and Technology). Part of the results displayed in this chapter represent the outcome of *D3.1 (E)DIH Service Portfolio, Customer Journey and Pipelines.* However, it is noted that:

- In the period between the publication of this document and the aforementioned one, new hubs have joined the AI REDGIO 5.0 consortium, therefore, this document also provides information relating to the service portfolio of the new members.

- There may be slight differences in the overall results due to the continuous updating of the Service Portfolio by some hubs.

5.1.1. Current services offering

Overall, the analysis shows that the 22 (E)DIHs of the AI REDGIO 5.0 network currently offer a total of 498 services, in turn distributed as follows: 122 services for the Ecosystem class (24%), followed by 117 services for the Business class (23%), 111 services for the Technology class (22%), 77 services for the Skills class (15%) and finally 71 services for the Data class (14%).

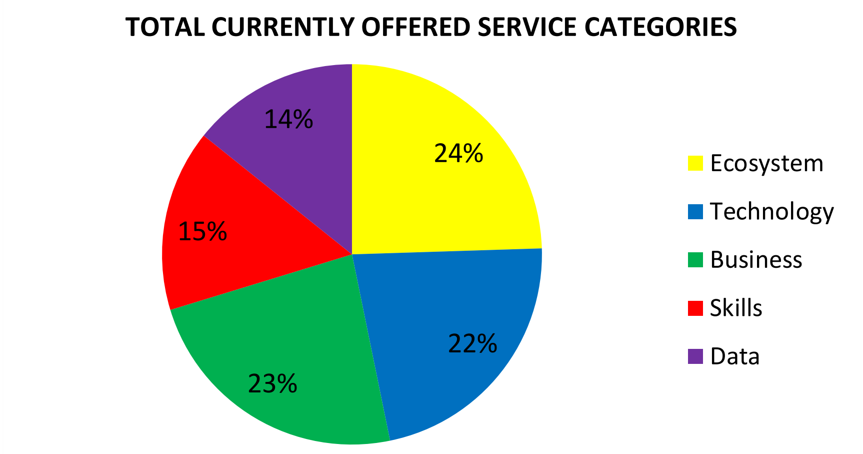

Figure 11: Distribution of the services currently offered by the (E)DIHs

As Figure 12 shows, among the various services, *Maturity Assessment* (Skills) is the most offered service followed by *Tech concept and Development* (Technology) and *Raise Awareness* (Ecosystem) services. *Maturity Assessment* is the only one in the Skills class to enter the Top 10, while the services belonging to the Technology and Business classes are the most present. In contrast, no Business and Data services make the Top 10.

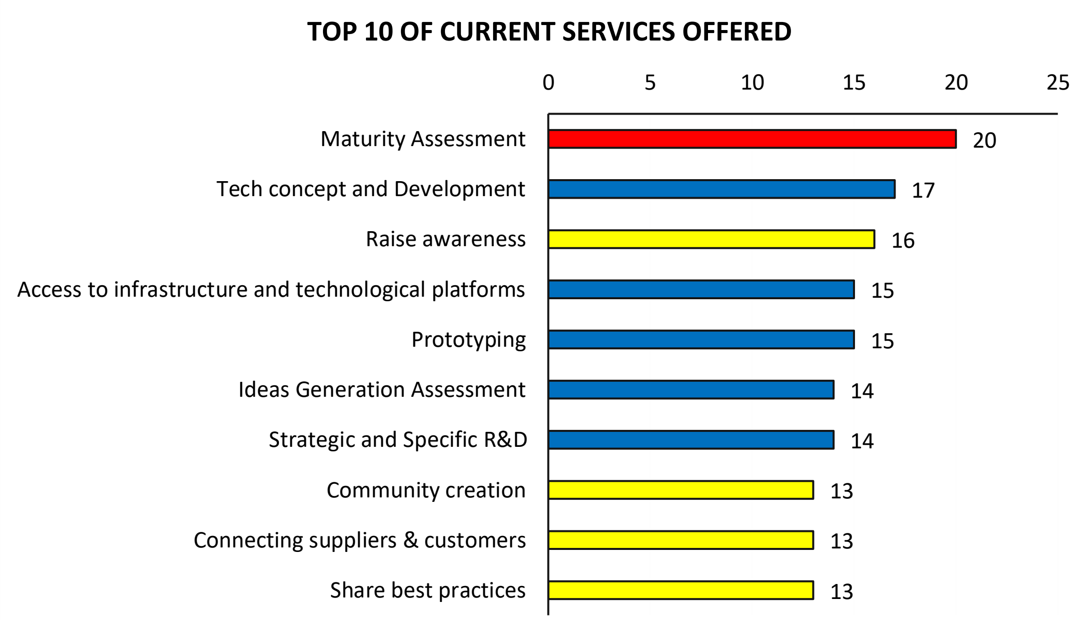

Figure 12: TOP 10 services offered

Analysing the D BEST classes individually, the analysis shows the following:

- **Data services:** within this class, *Decision Support & Development* is the most offered service with 12 (E)DIHs offering it, followed by *Data Acquisition* and *Data Analysis* services with 8 (E)DIHs offering them.
- **Business services:** within this class, *Connection to funding resources* and *Creating Consortia* are the two most offered services with 13 (E)DIHs offering them. These services are closely followed by *Research call* and *Funding opportunity* and *Business development* services, which are covered by 12 (E)DIHs.
- **Ecosystem services:** within this class, *Raise Awareness* is the most offered service with 16 (E)DIHs offering it, closely followed by *Community Creation, Connecting Suppliers & Customers* and *Share Best Practices* with 13 (E)DIHs offering them.
- **Skills services:** within this class, *Maturity Assessment* is the most offered service with 20 (E)DIHs offering it, followed by *Educational Program* with 11.
- **Technology services:** within this class, *Tech Concept & Development* is the most offered service with 17 (E)DIHs offering it. Additionally, 15 (E)DIHs cover the *Access to infrastructure and technological platform* and *Prototyping* services.

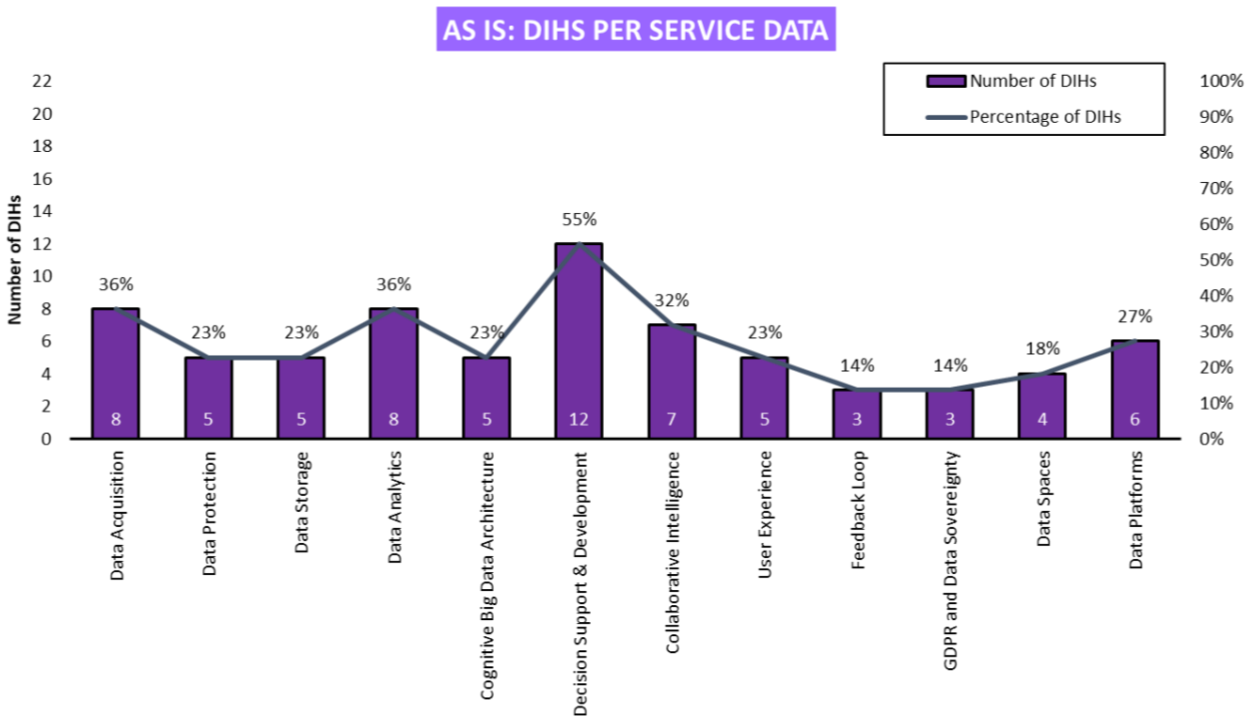

Figure 13: Distribution of the Data services currently offered by the (E)DIHs

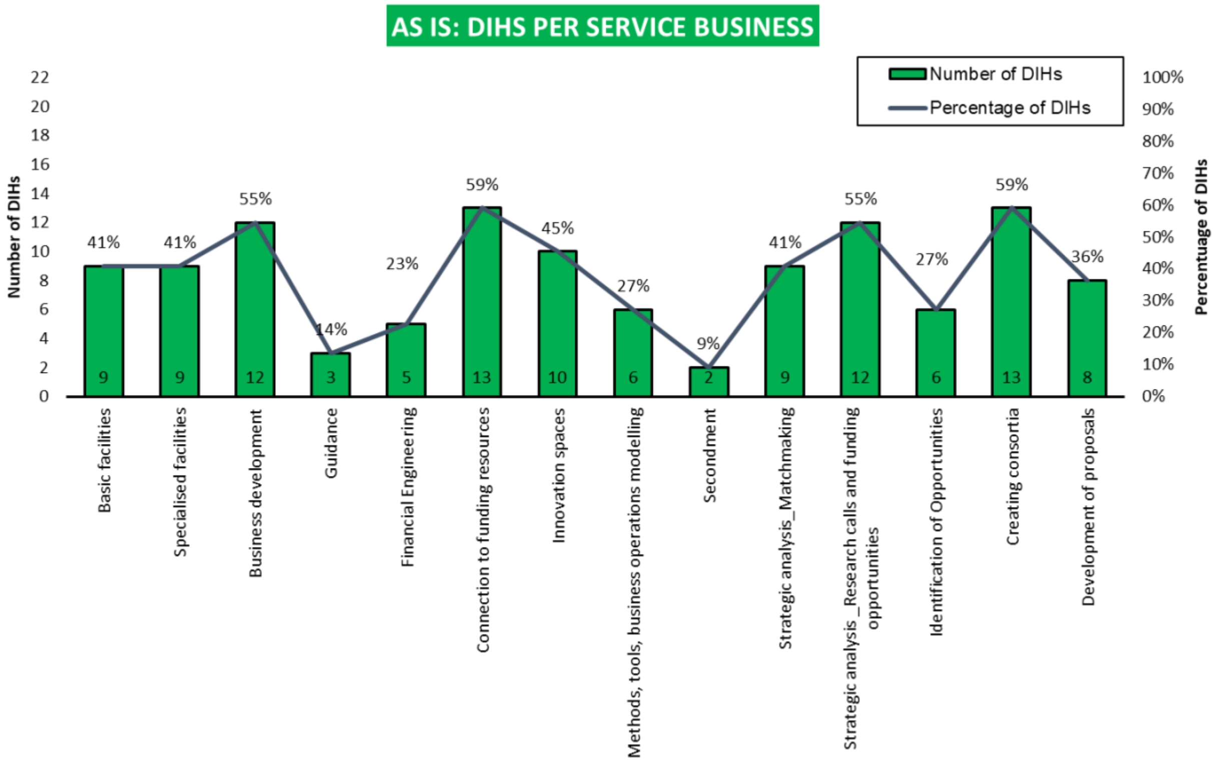

Figure 14: Distribution of the Business services currently offered by the (E)DIHs

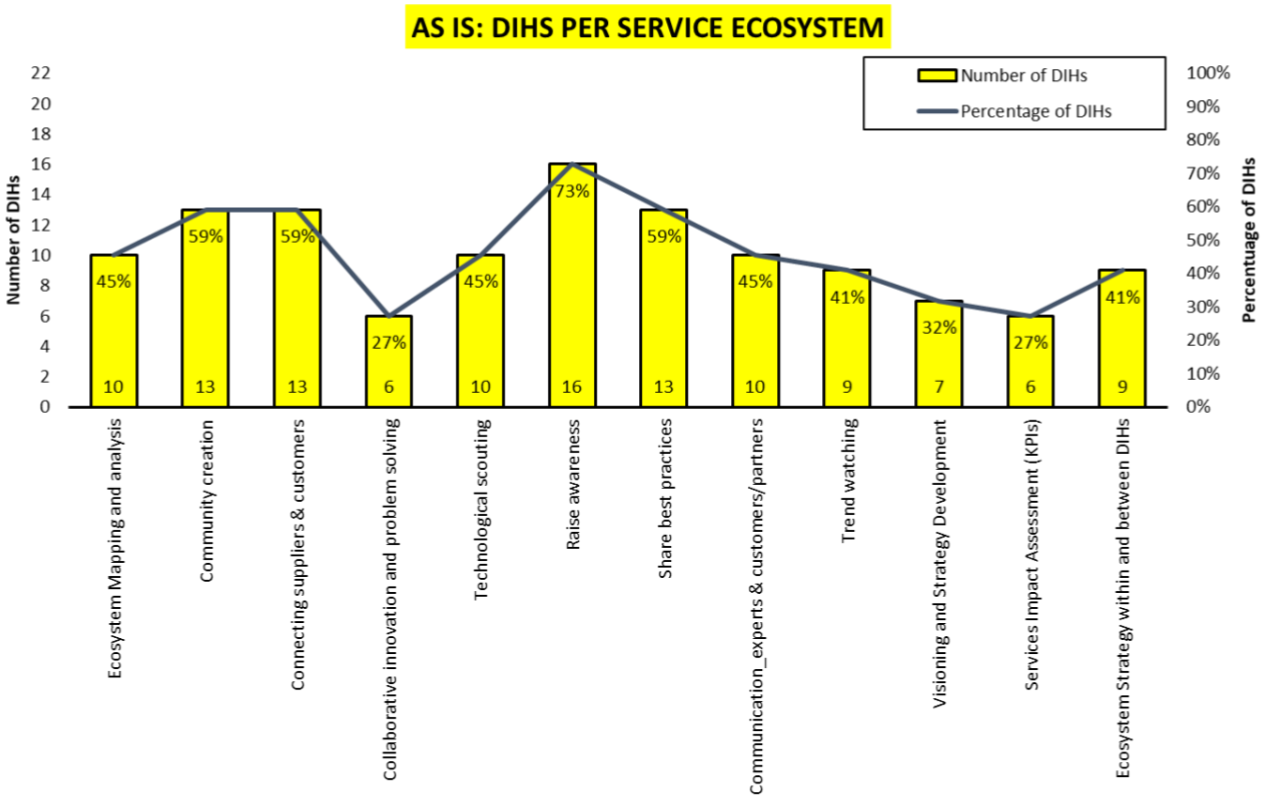

Figure 15: Distribution of the Ecosystem services currently offered by the (E)DIHs

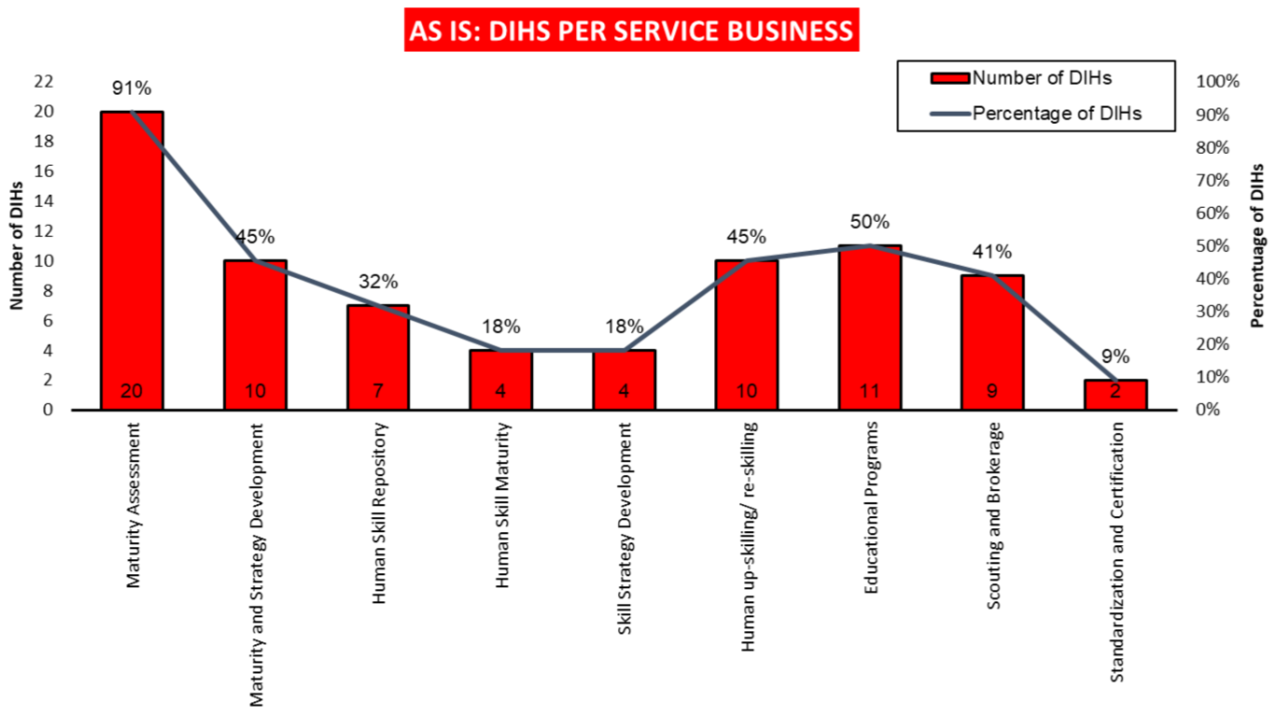

Figure 16: Distribution of the Skills services currently offered by the (E)DIHs

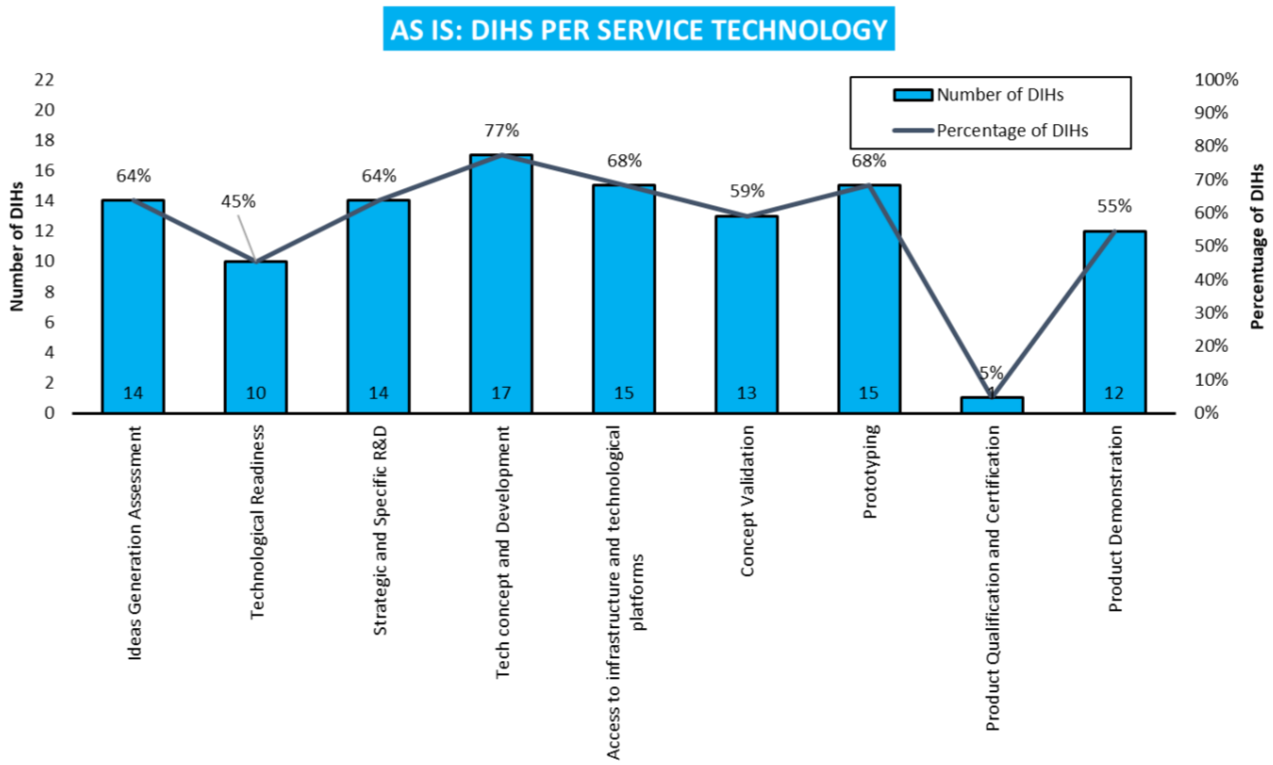

Figure 17: Distribution of the Technology services currently offered by the (E)DIHs

5.1.2. Future service offering: development of new services

Regarding the services that the hubs would like to offer in the future, the analysis shows that there is a marked interest among the (E)DIHs for the services belonging to the Data (27%) and Skills (19%) classes with

48 and 33 services to be developed. These are the classes in which less services are currently offered by the AI REDGIO 5.0 ecosystem. Additionally, and due to the collaborative nature of the services within this class, the (E)DIHs show a broad interest in the development of services of the Ecosystem (23%) class with 41 services to be further developed and offered. Following, Business (19%) with 31 future services and Technology (12%) with 21 future offered services are the two classes with least preferred as a consequence of currently being the classes mostly covered at present.

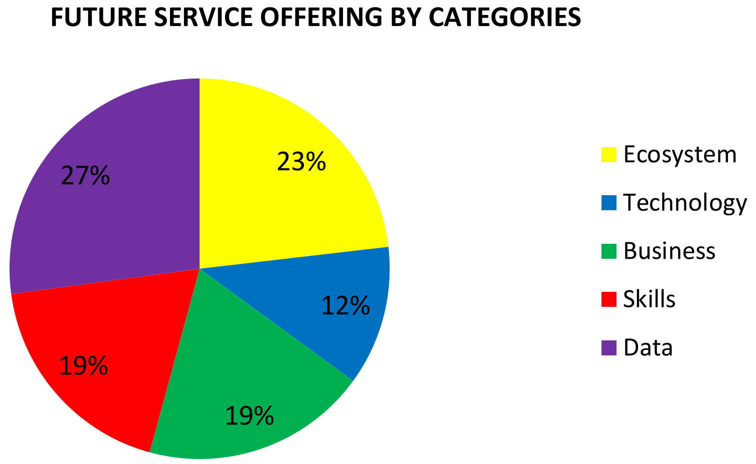

Figure 18: Distribution of the services (E)DIHs would like to offer in the future

At the individual level, the analysis shows in Figure 19, that *Collaborative innovation and problem solving* (Ecosystem) and *Collaborative Intelligence* (Data) are the services that most (E)DIHs want to develop in AI REDGIO 5.0. Concretely 7 (E)DIHs aim to offer these services in the future. Other services, such as Comm*unity creation* (Ecosystem), *Guidance* (Business), *Maturity and Strategy Development* (Skills), *Skill Strategy Development* (Skills) and *Feedback Loop* (Data) are also in the spotlight of 6 (E)DIHs, followed by *Interaction between business experts and customers/partners* (Ecosystem) and *Technological readiness* (Technology) that aim to be developed by 5 (E)DIHs.

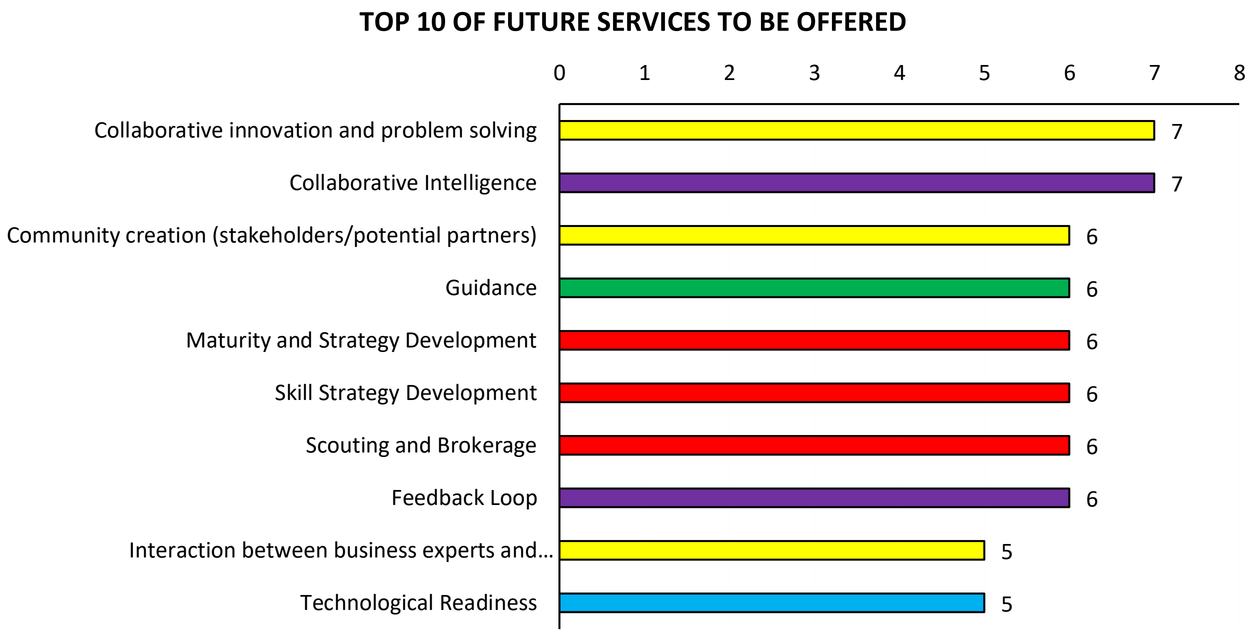

Figure 19: TOP 10 future services offered

Analysing the D BEST classes individually, the analysis shows the following:

- **Data services:** within this class, *Collaborative Intelligence* is the service that most (E)DIHs would like to offer in the future with 7 (E)DIHs planning to develop it in AI REDGIO 5.0. This service is closely followed by *Feedback Loop* with 6 (E)DIHs interested and *Data Storage, User Experience* and *GDPR and Data Sovereignty* with 5 (E)DIHs.
- **Business services:** within this class, *Guidance* is the main service to be newly implemented, with 6 (E)DIHs interested in offering it in the future. Additionally, 4 (E)DIHs would like to include *Identification of Opportunities* and *Innovation spaces* respectively in their service portfolios.
- **Ecosystem services:** within this class, *Collaborative innovation* and *problem solving* is the service that most (E)DIHs would like to develop and offer in the future with 7 interested entities. In this line, 6 (E)DIHs intend to include *Community creation* in their portfolio while 5 (E)DIHs*, Interaction between business experts and customers/partners*.
- **Skills services:** within this class, and *Skill Strategy Development, Scouting and Brokerage and Maturity and Strategy Development are* the three services that most (E)DIHs (6) would like to offer in the future. In contrast, no EDIHs aim to develop *Maturity Assessment* neither *Standardization and Certification.*
- **Technology services:** within this class, *Technological Readiness* is the main service that (E)DIHs want to develop, with 5 interested organisations. Likewise, *Ideas Generation Assessment, Product Qualification* and *Certification and Product Demonstration services* are aimed to be developed and offered in the future by 3 (E)DIHs.

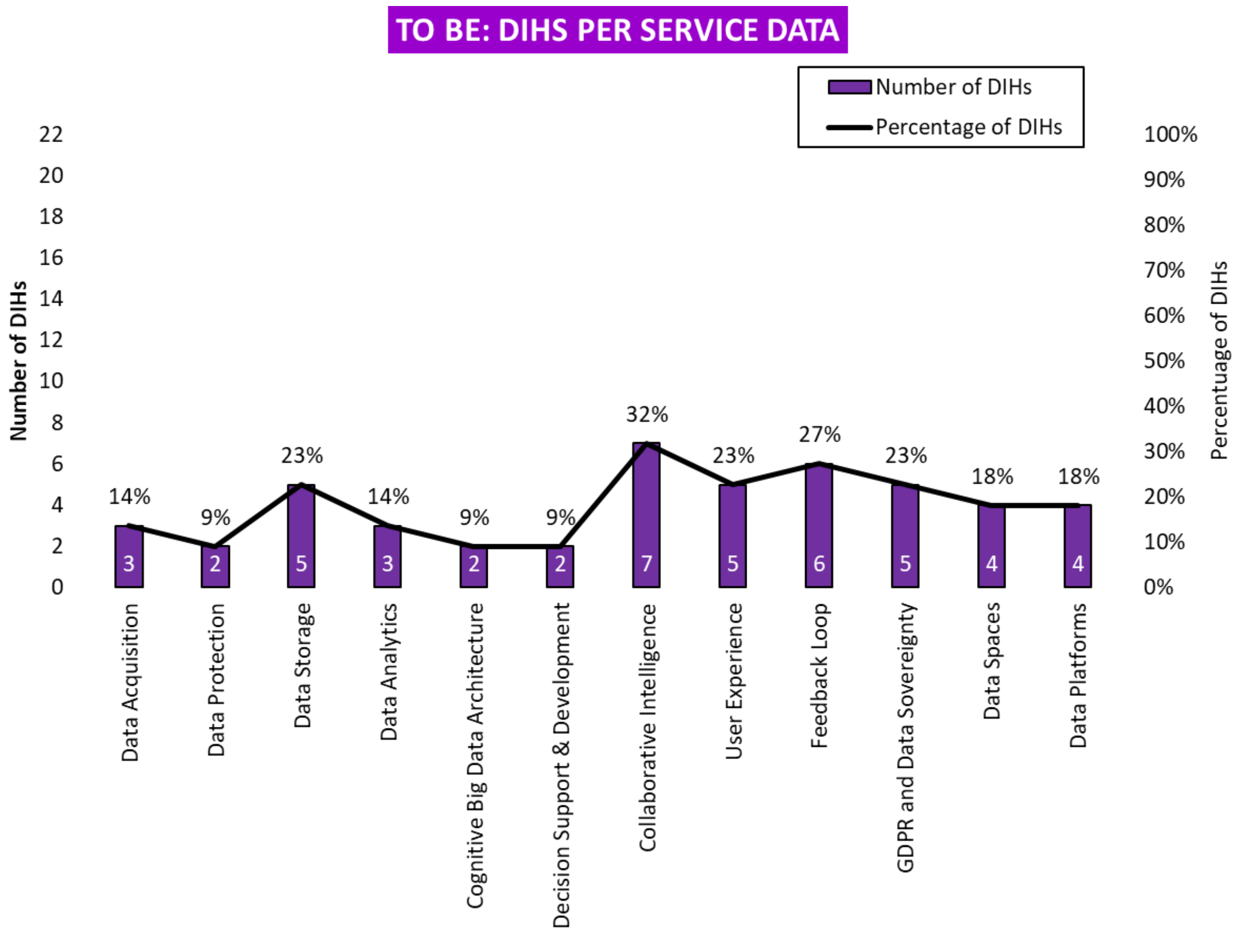

Figure 20: Distribution of the Data services (E)DIHs would like to offer in the future

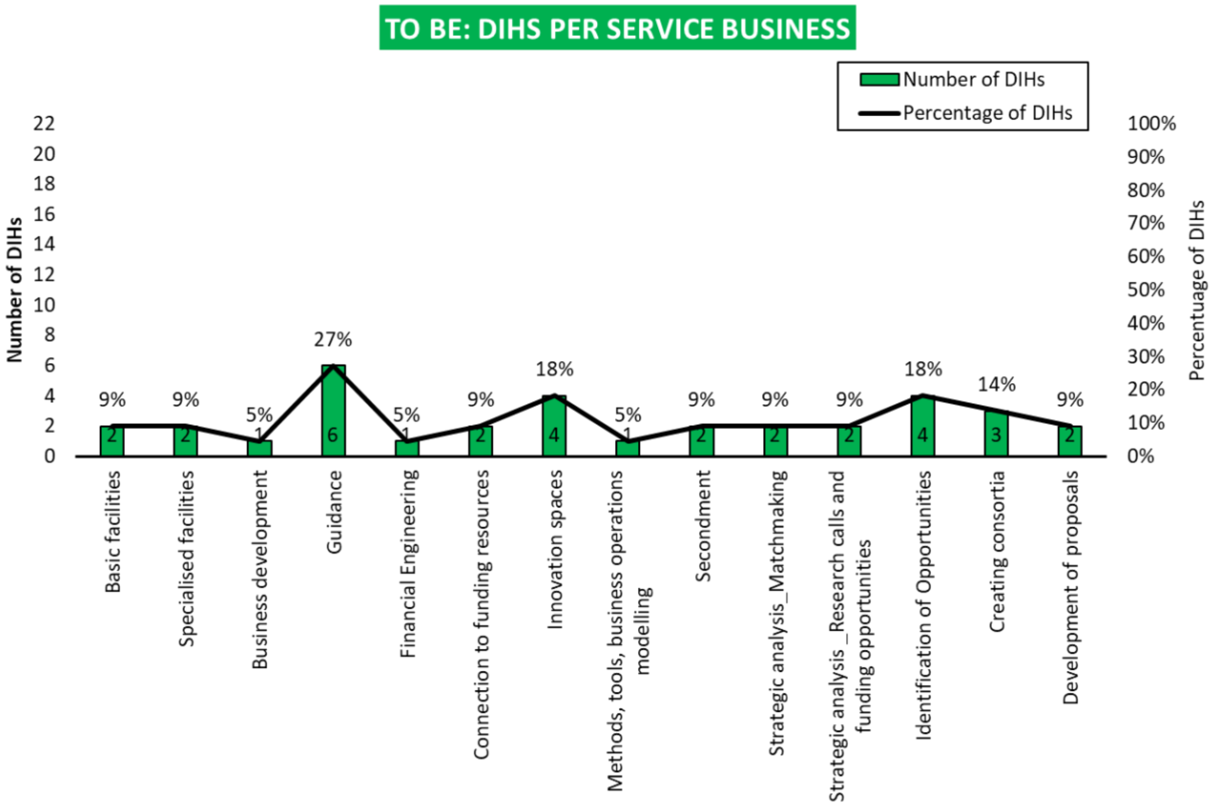

Figure 21: Distribution of the Business services (E)DIHs would like to offer in the future

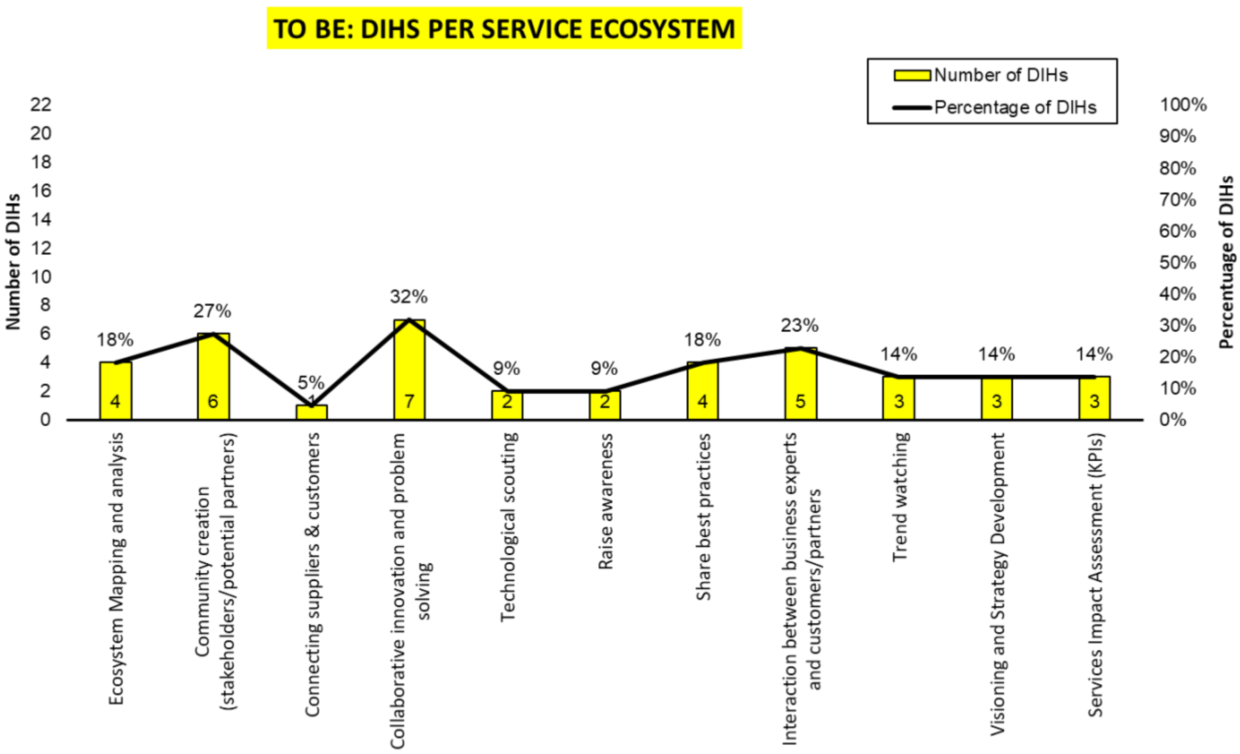

Figure 22: Distribution of the Ecosystem services (E)DIHs would like to offer in the future

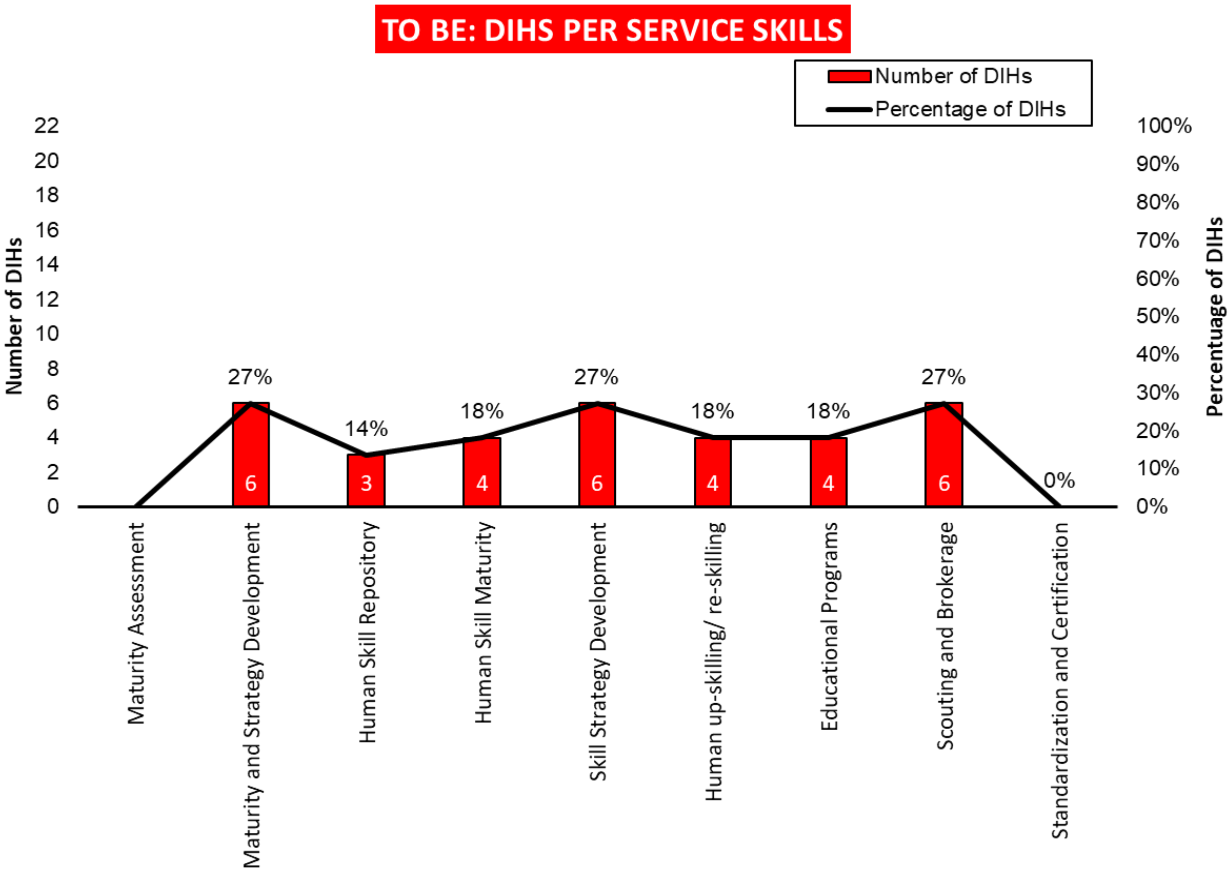

Figure 23: Distribution of the Skills services (E)DIHs would like to offer in the future

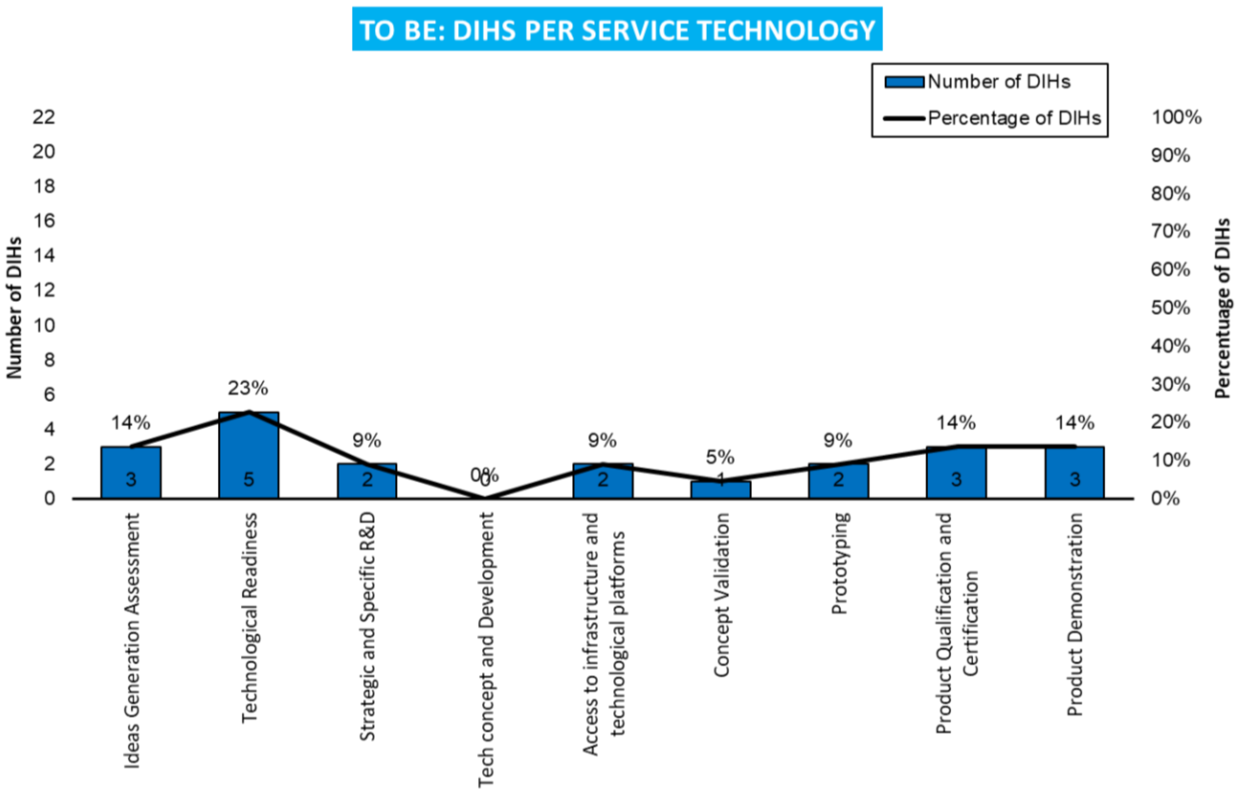

Figure 24: Distribution of the Technology services (E)DIHs would like to offer in the future

5.1.3. Projections of future offer

Starting from the current offer, a radar chart analysis has been carried out for each D BEST class, with the aim of contrasting how the general offering of the (E)DIHs community will change if all (E)DIHs decide to integrate future services into the own portfolio. Specifically, the radar graphs presented below (from Figure 25 to Figure 29) have been constructed considering only the interest of the hubs in the creation of new services. In particular, the analysis shows the following:

- Within the **Data class**, *Collaborative Intelligence* is the service for which the greatest increase is expected with 32%, followed by *Feedback Loop* with 27% and *Data Storage*, *User Experience* and *GDPR and Data Sovereignty* with an expected 23% of increase.
- In the **Business class** it can be registered an interest for several services. For example, *Creating consortia* are sought by 16 (E)DIHs, with a future potential coverage of 73%, *Connection to funding resources* by 15 (E)DIHs with a future potential coverage of 68%, and *Research calls and funding opportunities* by 14 (E)DIHs with a future potential coverage of 64%. On the other hand, *Guidance is the* service where more difference is noticed with an increase from 14% to 41% of coverage.
- For the **Ecosystem class**, 20 (E)DIHs are interested in *Community Creation* increasing the future coverage from 55% to 91%. It is followed by *Raise awareness* which would achieve coverage from 73% to 82% and *Share best practices* which would achieve coverage from 59% to 77%.
- Within **Skills services**, *Maturity and Strategy Development*, *Skill Strategy Development* register a similar increase rate respectively of 27%. Additionally, *Human Skill Repositor* and *Human Skill Maturity* present an average increase of 18%.
- For the **Technology class,** 17 (E)DIHs on average are interested in *Ideas Generation Assessment*, *Access to infrastructure and technological platforms* and *Prototyping* increasing the future coverage respectively of 14%, 9% and 9%, while regarding *Tech concept*, which is currently broadly covered by (E)DIHs, no increasing is perceived.

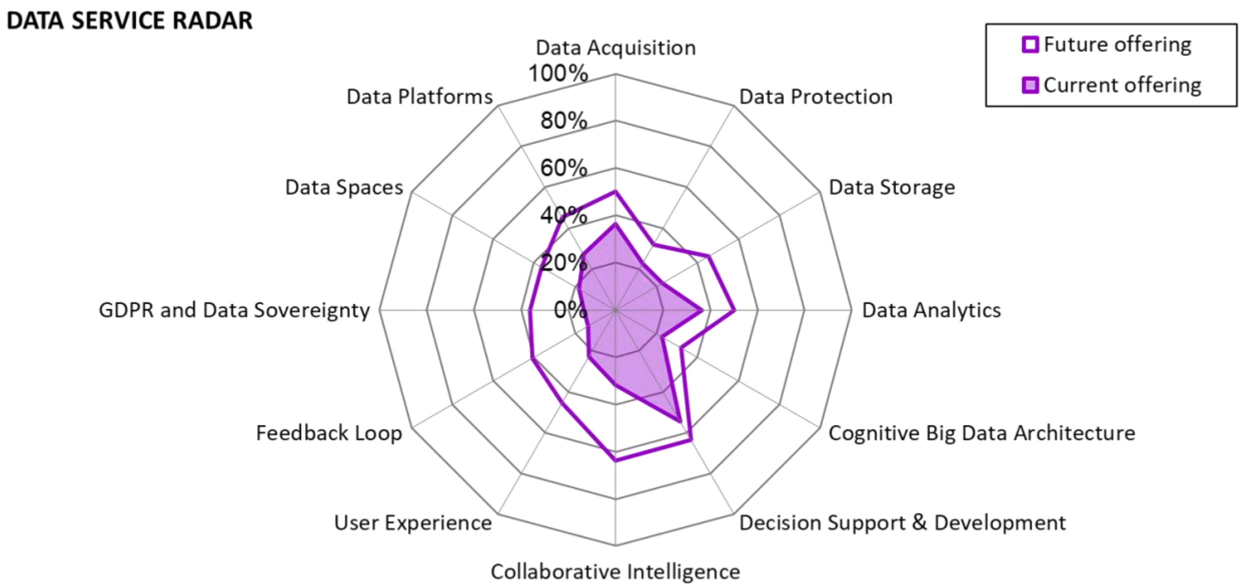

Figure 25: Data service Radar

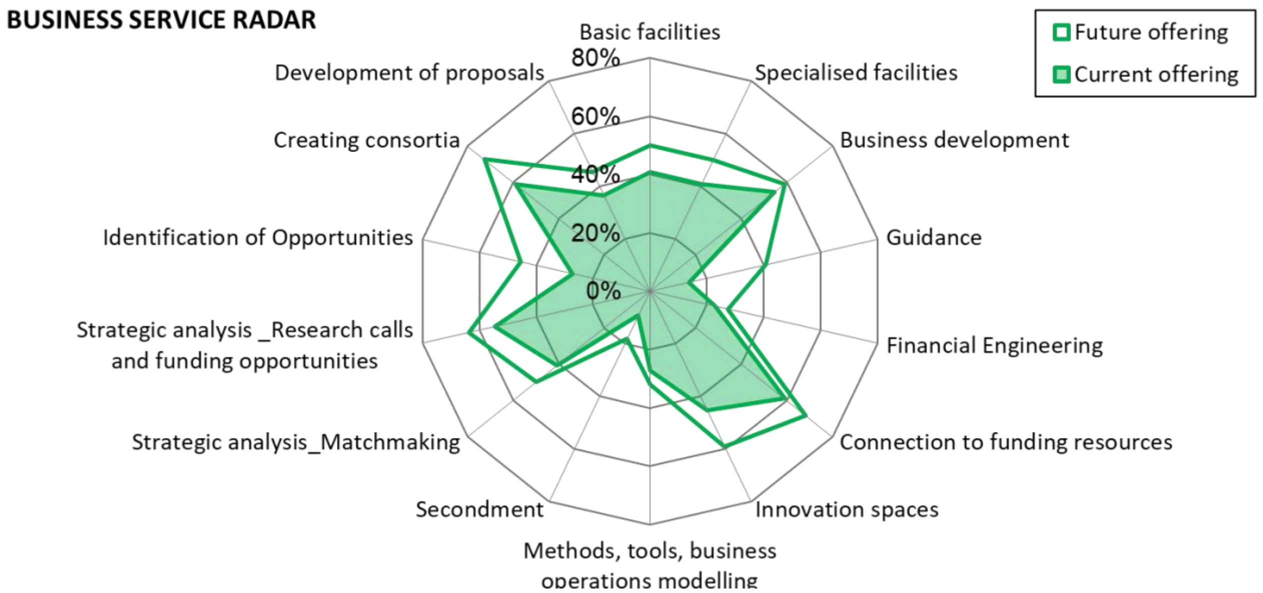

Figure 26: Business service Radar

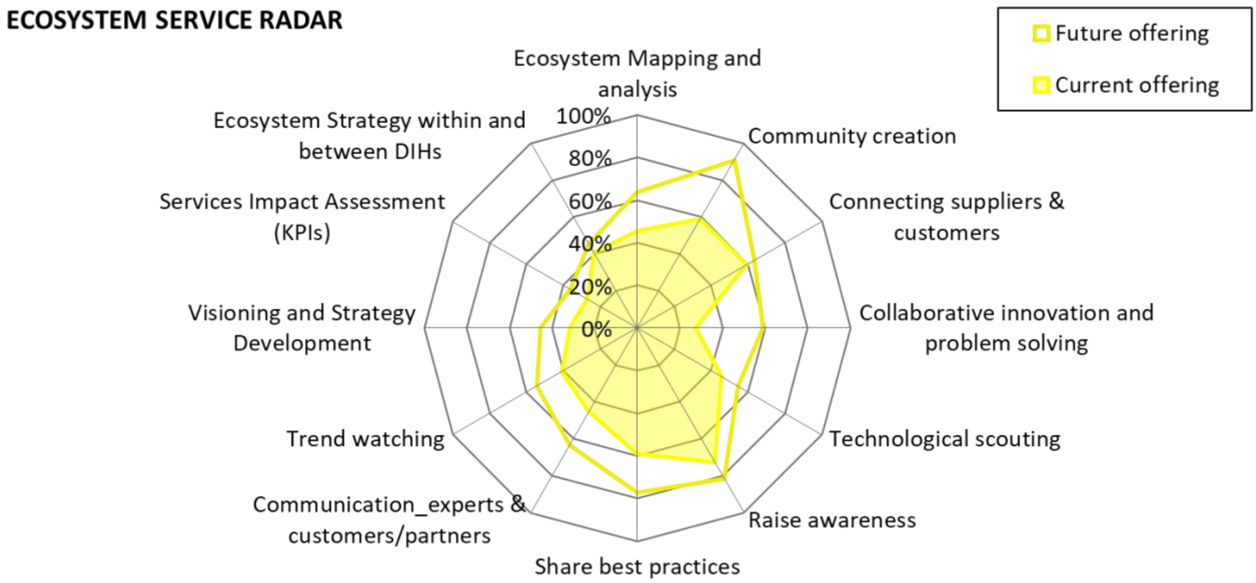

Figure 27: Ecosystem service Radar

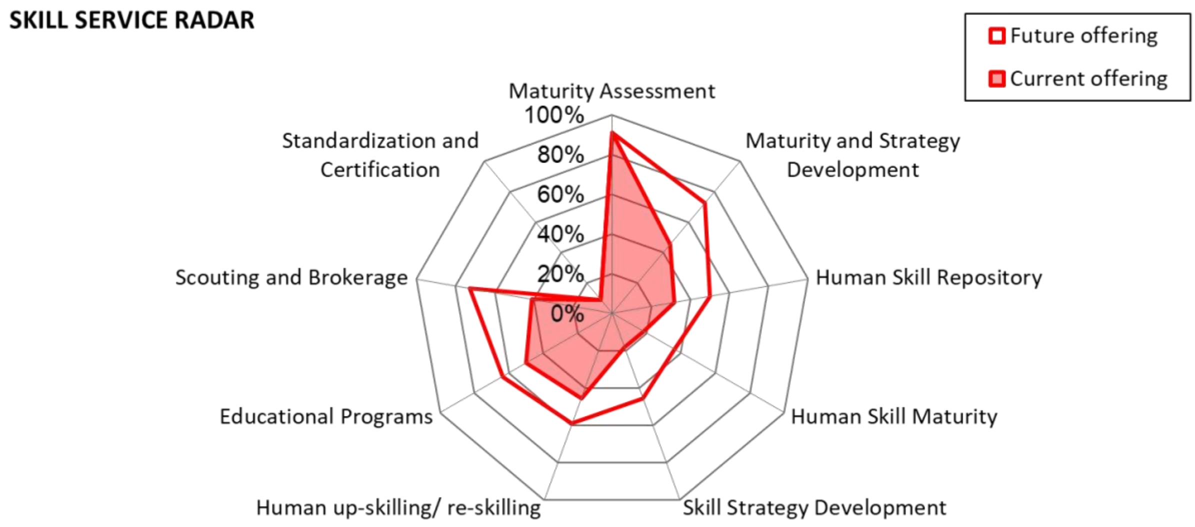

Figure 28: Skills service Radar

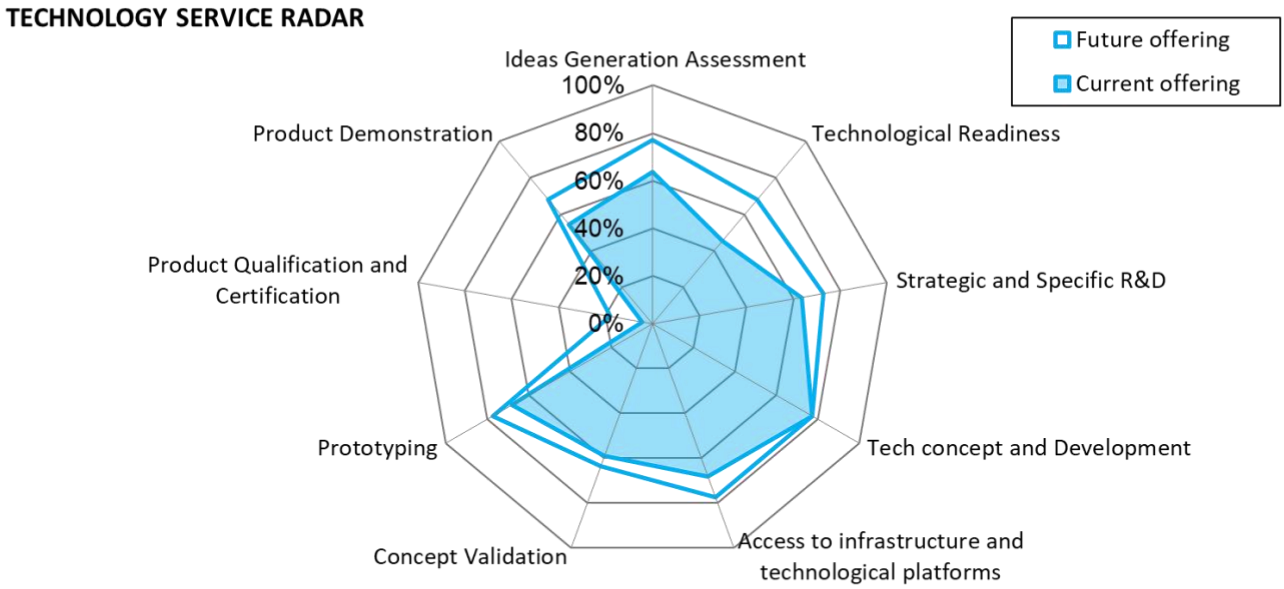

Figure 29: Technology service Radar

In general, considering the future offer (based on the AI IS services and the TO BE ones) it is noted that Ecosystem and Business classes are the two categories of services with the greatest focus, followed by Technology. Considering the current service portfolios, together with the services that the (E)DIHs aim to develop in AI REDGIO 5.0, these two classes would represent the 24% and 22% of the future service offerings.

5.1.4. Overlap analysis

In this section, the current and future service offerings have been overlaid to identify possible collaboration opportunities between EDIHs, in line with the three scenarios introduced in section 3 The AI (E)DIHs Collaboration Baseline: Development of a new service, Partnership to provide service jointly and Matchmaking.

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AI REDGIO 5.0

Figure 30: Relationship between each DIH profile and collaboration scenario

Overall, the analysis shows that within the AI REDGIO 5.0 ecosystem the following can be distinguished:

- 554 cases of a specific service that is not currently offered, nor will it be offered in the future. To simplify the work, from now on these hubs will be part of the category called "Profile 0".
- 177 of a specific service which is not currently offered, but which will be offered in the future. To simplify the work, from now on these hubs will be part of the category called "Profile 1".
- 498 of a specific service which, although currently offered, could be improved in the future. To simplify the work, from now on these hubs will be part of the category called "Profile 2".

At the individual hub level, the overlap exercise shows what is summarized in Table 5.

Table 5: Profiles identified for each (E)DIH based on current service offering and services to be improved/implemented

AI REDGIO 5.0 Consortium	Profile 0: Number of services that are not currently offered nor will be offered in the future	Profile 1: Number of services that are not currently offered but that hubs want to develop in the future	Profile 2: Number of services currently offered but which could be improved
AFIL	36	6	14
SRC-EDIH	21	3	32
JSI	21	21	14
4PDIH	29	11	16
DiTMAPs	40	3	13
OOST NL	19	3	34
UTW	7	44	5
Polymeris	22	4	30
HIT	42	10	4
ARTER	33	3	20
FLANDERS MAKE	31	9	16
GAIN	16	3	37
MADE cc	5	13	38
TUIASI	35	10	11
CVUT	26	8	22
MADE	33	7	16
PBN	28	3	25
DMIW	24	3	29
SCCH	26	4	26

Intellimech	15	3	38
BRAINPORT	30	3	23
SIG	15	3	38
TOTAL	554	177	498

At the level of the individual services, a visual representation is provided to position the three profiles and therefore the possible collaboration scenarios.

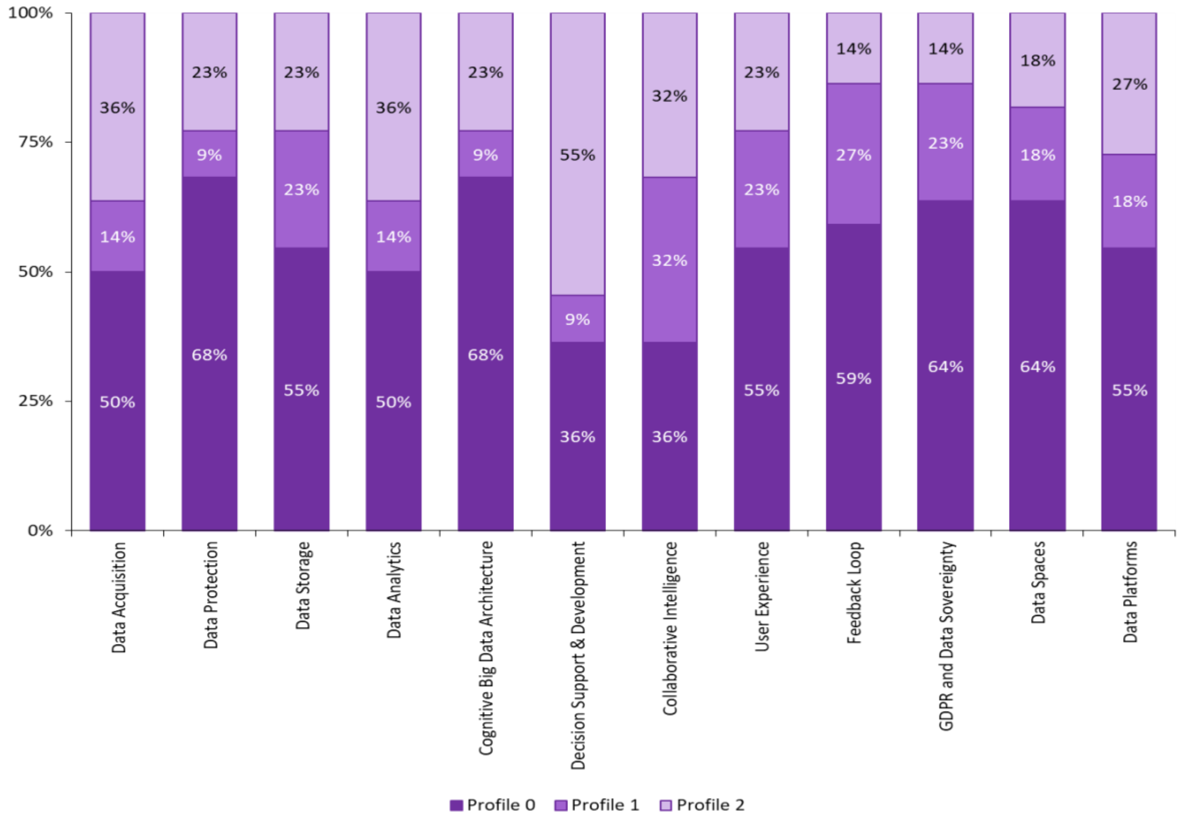

Figure 31: Present and future offer of the Data class if development/improvement expectations are respected

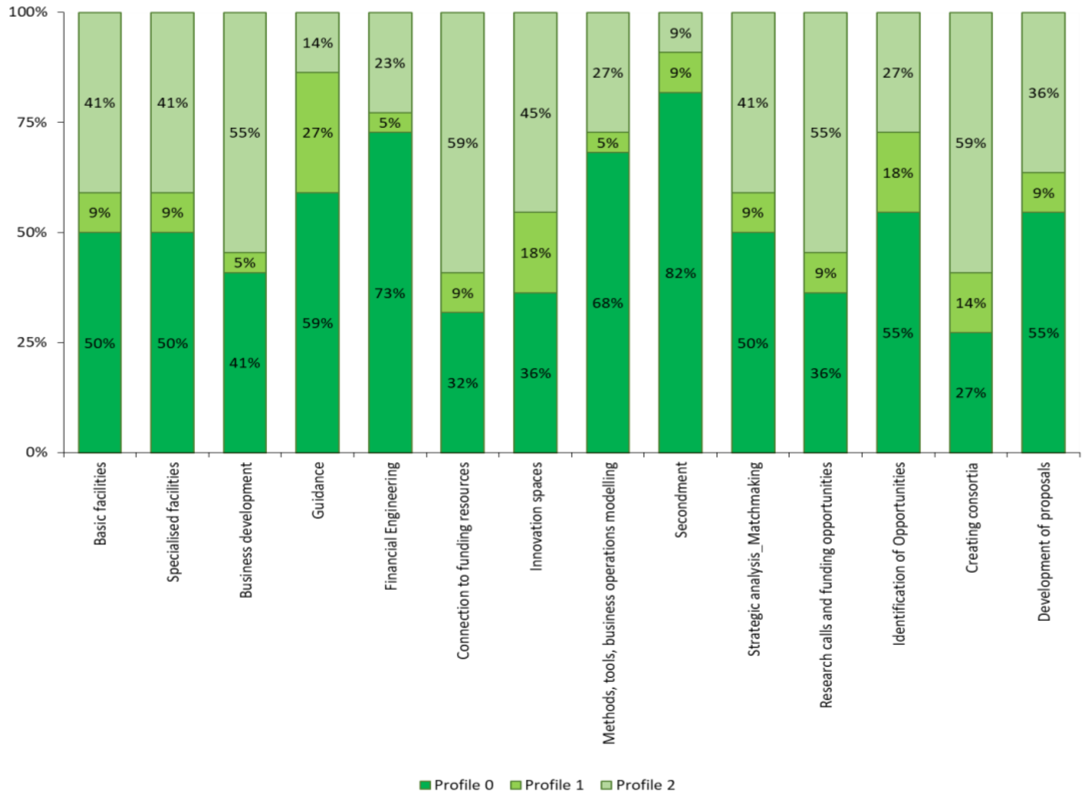

Figure 32: Present and future offer of the Business class if development/improvement expectations are respected

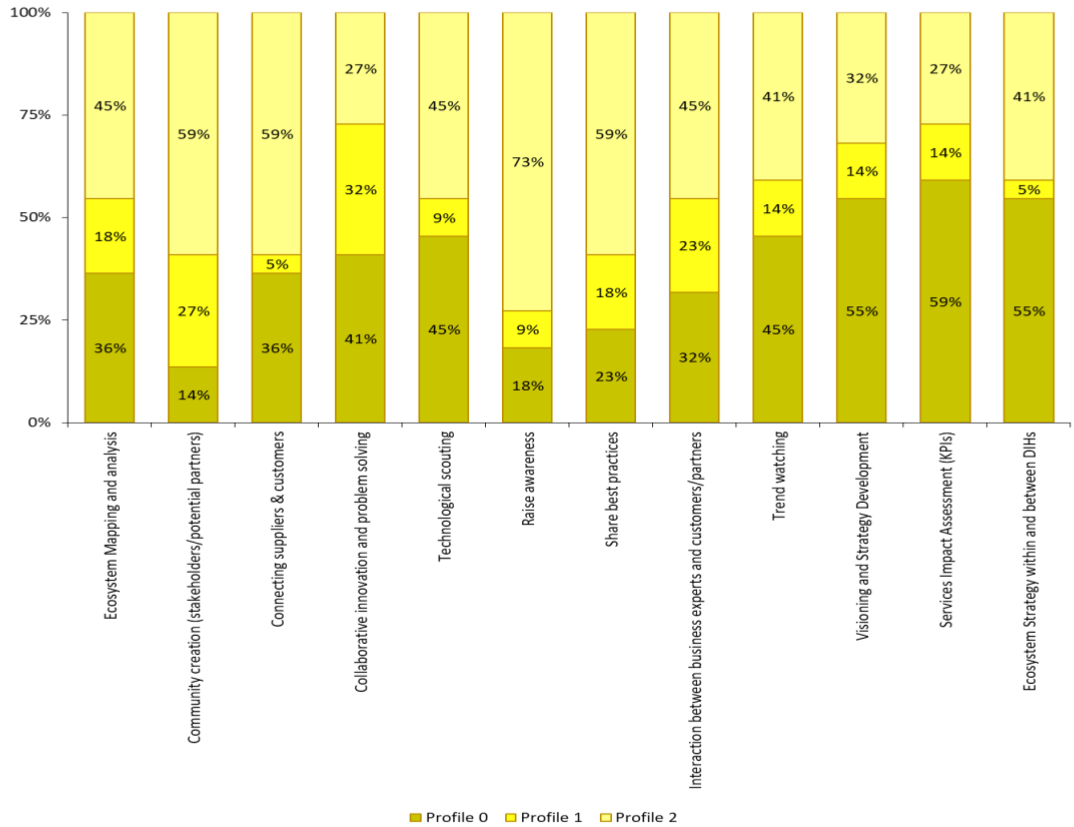

Figure 33 Present and future offer of services of the Ecosystem class if development/improvement expectations are respected

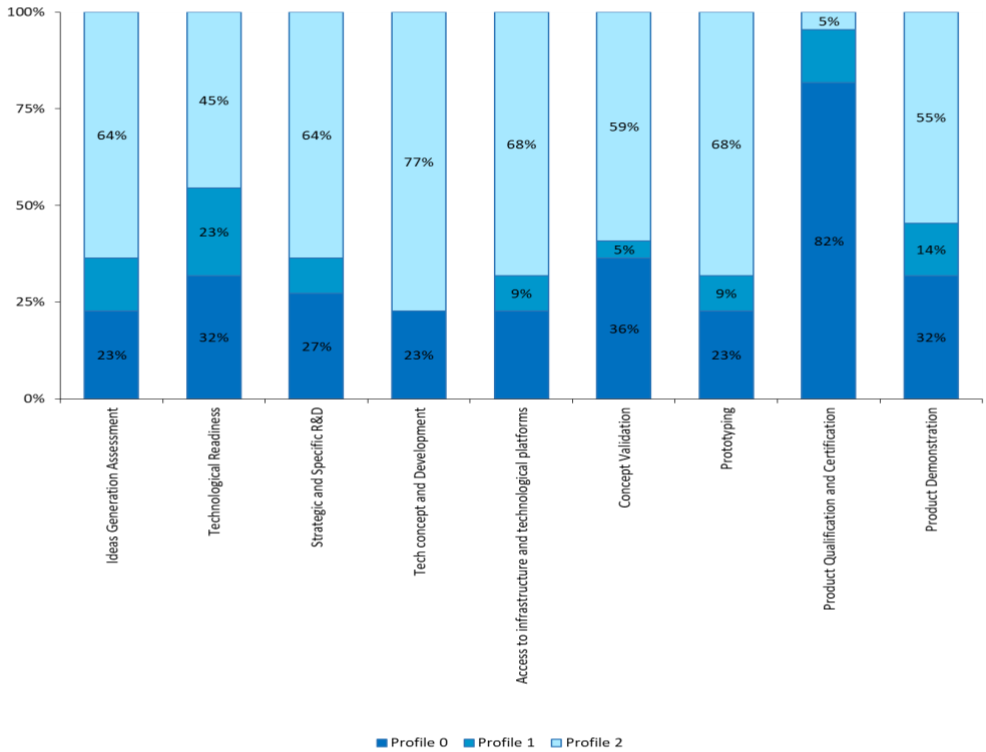

Figure 34: Present and future offer of services of the Technology class if development/improvement expectations are respected

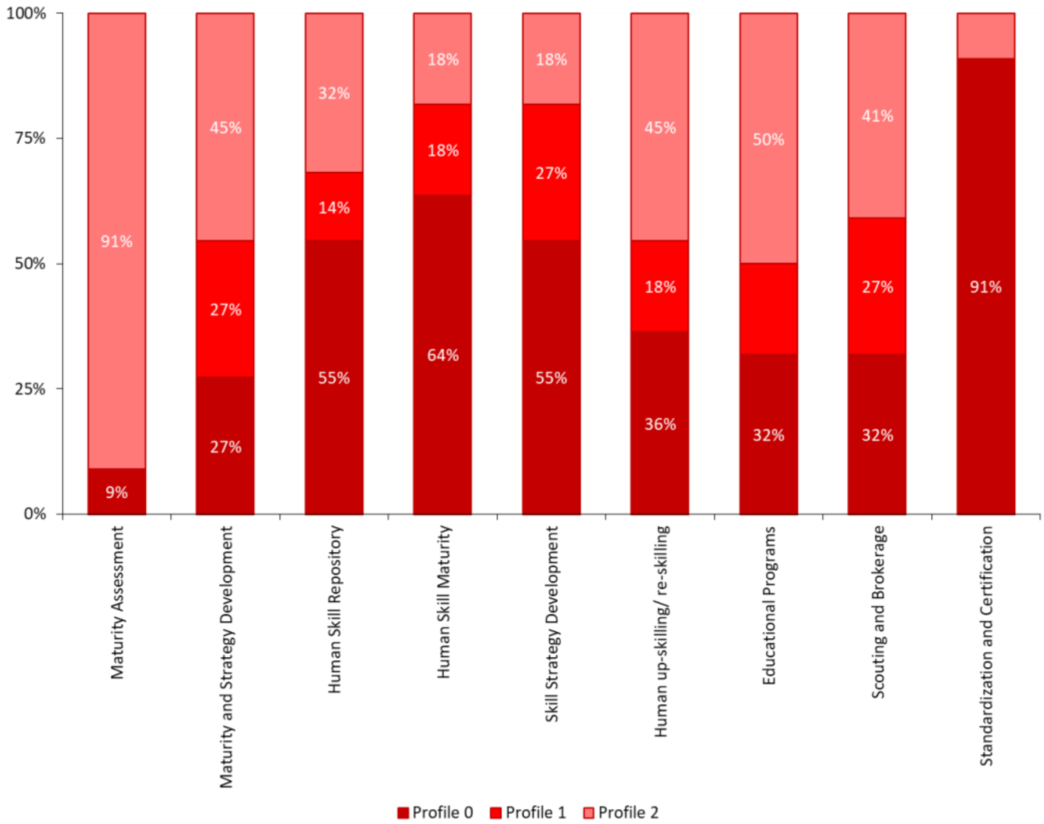

Figure 35: Present and future offer of services of the Skill class if development/improvement expectations are respected

From the graphs above it can be seen that:

- The focus of the hubs is mainly aimed at the provision of services belonging to the **Ecosystem** and **Technology** classes. Analysing the graphs, it emerges that, out of the 23 services offered within the two classes, there are 20 services whose present and future offer coverage exceeds 50% with peaks above 80% for services such as: *Community creation* (Ecosystem), *Raise awareness* (Ecosystem) and *Access to infrastructure and technological platforms* (Technology).
- *Standardization and Certification* (Skills) is the least considered service, given that no hub is interested in developing it in the near future and only two hubs currently offer it.
- There are 6 services that cannot be developed through Collaboration Scenario 1, given the lack of at least two hubs that would like to develop it jointly from scratch. In particular, the services are: *Connecting suppliers & customers* (Ecosystem), *Ecosystem Strategy within and between DIHs* (Ecosystem), *Concept Validation* (Technology), *Business development* (Business), *Financial Engineering* (Business) and *Methods, tools, business operations modelling* (Business).
- There are 15 services that can be developed through Collaboration Scenario 1, but which will see the hubs "forced" to select the partner with which to collaborate, given the lack of alternatives. For each of these services, there are only two hubs interested in their future development. The following services fall into this category:
    - *Technological scouting*, *Raise awareness* for the Ecosystem class;
    - *Strategic and Specific R&D*, *Access to infrastructure and technological platforms*, and *Prototyping* for the Technology class;
    - *Basic facilities*, *Specialised facilities*, *Connection to funding resources*, *Secondment*, *Strategic analysis: Matchmaking*, *Strategic analysis: Research calls and funding opportunities* and *Development of proposals* for the Business class;
    - *Data Protection*, *Cognitive Big Data Architecture* and *Decision Support & Development* for the Data class.
- There is only one service where Collaboration Scenario 2 cannot be implemented, even if applicable, given the lack of additional hubs willing to improve it. This is the case of *Product Qualification and Certification* (Technology).

5.1. Establishment of (E)DIH Collaboration Compatibility

As presented in the section dedicated to *Data analysis and collaboration compatibility rating*, each (E)DIH has been assessed based on three criteria in order to analyse their compatibility: geographical proximity, technological focus and sectorial coverage. The subsequent sections provide scores for each pair of (E)DIHs, along with the overall compatibility scores.

5.1.1. Geographical proximity

The AI REDGIO 5.0 consortium involved 22 (E)DIHs from 13 different countries, being an important aspect to be considered while planning collaborative services. In this line, and according to the previously presented methodology, the geographical proximity of the 22 (E)DIHs has been analysed and rated from 1 to 3. The following table shows the final scoring matrix which has been used to assess the compatibility of the (E)DIHs in terms of geographical proximity.

Table 6: Compatibility rating according to geographical proximity

GEOGRAPHICAL PROXIMITY		IT	SI	SI	SI	SI	NL	NL	FR	IT	IT	BE	ES	IT	RO	CZ	DK	HU	WAL	AT	IT	NL	DE
			KCSTV																				
		AFIL	SRC-EDIH	DIH JSI	4PDIH (University of Ljubljana)	DIH DiTMaPS	OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
IT	AFIL - Lombardy Cluster of Advanced Manufacturing		3	3	3	3	1	1	3	3	3	1	2	3	1	1	1	1	1	3	3	1	1
SI	KCSTV: SRC-EDIH	3		3	3	3	1	1	1	3	3	1	1	3	2	2	1	3	1	3	3	1	1
SI	KCSTV: DIH JSI (Jožef Stefan Institute)	3	3		3	3	1	1	1	3	3	1	1	3	2	2	1	3	1	3	3	1	1
SI	KCSTV: 4PDIH (University of Ljubljana)	3	3	3		3	1	1	1	3	3	1	1	3	2	2	1	3	1	3	3	1	1
SI	KCSTV: DIH DiTMaPS	3	3	3	3		1	1	1	3	3	1	1	3	2	2	1	3	1	3	3	1	1
NL	OOST NL	1	1	1	1	1		3	2	1	1	3	1	1	1	1	1	1	2	2	1	3	3
NL	UTW	1	1	1	1	1	3		2	1	1	3	1	1	1	1	1	1	2	2	1	3	3
FR	Polymeris	3	1	1	1	1	2	2		3	3	3	3	3	1	1	1	1	2	2	3	2	3
IT	DIH Trentino (HIT)	3	3	3	3	3	1	1	3		3	1	2	3	1	1	1	1	1	3	3	1	1
IT	ARTER	3	3	3	3	3	1	1	3	3		1	2	3	1	1	1	1	1	3	3	1	1
BE	EDIH DIGITALIS (Coordinator: Flanders	1	1	1	1	1	3	3	3	1	1		1	1	1	1	1	1	2	2	1	3	3
ES	GAIN	2	1	1	1	1	1	1	3	2	2	1		2	1	1	1	1	1	1	2	1	1
IT	EDIH/DHI MADE Competence Center I4.0	3	3	3	3	3	1	1	3	3	3	1	2		1	1	1	1	1	3	3	1	1
RO	TUASI (eDIH-DIZ)	1	2	2	2	2	1	1	1	1	1	1	1	1		2	1	3	1	1	1	1	1
CZ	Czech Technical University in Prague (CVUT)	1	2	2	2	2	1	1	1	1	1	1	1	1	2		1	2	1	3	1	1	3
DK	MADE - Manufacturing Academy of Denmark	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	3
HU	PBN/ am-LAB DIH	1	3	3	3	3	1	1	1	1	1	1	1	1	3	2	1		1	3	1	1	1
WAL	DMIW	1	1	1	1	1	2	2	2	1	1	2	1	1	1	1	1	1		2	1	2	1
AT	AI5Production (SCCH)	3	3	3	3	3	2	2	2	3	3	2	1	3	1	3	1	3	2		3	2	3
IT	INTELLIMECH	3	3	3	3	3	1	1	3	3	3	1	2	3	1	1	1	1	1	3		1	1
NL	BRAINPORT	1	1	1	1	1	3	3	2	1	1	3	1	1	1	1	1	1	2	2	1		3
DE	STEINBEIS	1	1	1	1	1	3	3	3	1	1	3	1	1	1	3	3	1	1	3	1	3	

5.1.2. Technological focus

The technological emphasis of each (E)DIHs has been employed as a criterion to determine compatibility among them. Extracted from the EDIH catalogue and the (E)DIH profiles developed within WP3, the technologies encompassed by each (E)DIH have been utilized to create the subsequent mapping of technologies:

Table 7: Mapping of the technologies covered by the AI REDGIO 5.0 (E)DIHs (Part 1)

TECHNOLOGIES	AFIL	SRC-EDIH	DIH JSI (Jožef Stefan Institute)	4PDIH (University of Ljubljana)	DIH DiTMaPS	OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)
Additive manufacturing	YES	YES					YES				YES
Artificial Intelligence & Decision support	YES		YES	YES	YES		YES	YES		YES	YES
Big data	YES		YES	YES			YES			YES	
BI tools											
Blockchain and Distributed Ledger Technology (DLT)	YES		YES	YES							
Chemical engineering (plants, products)											
Cloud Services											
Communication network	YES				YES						
Cyber-physical systems	YES				YES	YES	YES	YES	YES	YES	YES
Cybersecurity	YES		YES	YES							YES
Data	YES				YES			YES		YES	
Digital twins	YES	YES			YES		YES	YES		YES	YES
Displays											
Gamification				YES							
High performance computing		YES	YES	YES						YES	YES
Human computer interaction				YES							
Industrial biotechnology											
Internet of Things	YES		YES	YES	YES		YES	YES		YES	YES
Internet Services & Applications											
Laser-based manufacturing and materials processing	YES										
Location-based applications										YES	YES
Logistics					YES				YES		
Micro- and nanoelectronics, optoelectronics											YES

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Mobility	YES										
New technologies for Audio-Visual sector - Media											
Organic and large area electronics											
Other (please specify)											
Photonics	YES										YES
Quantum Technologies (computing/communication)				YES							
Robotics	YES	YES	YES		YES	YES	YES	YES			
Semiconductors and Nanotechnology	YES										YES
Sensors & Vision Processing Systems						YES	YES	YES			YES
Simulation engineering and modelling					YES		YES			YES	YES
Software Architectures					YES						
Virtual Reality	YES	YES	YES	YES			YES			YES	YES

Table 8: Mapping of the technologies covered by the AI REDGIO 5.0 (E)DIHs (Part 2)

TECHNOLOGIES	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
Additive manufacturing		YES	YES	YES	YES			YES		YES	
Artificial Intelligence & Decision support	YES		YES	YES	YES		YES	YES	YES	YES	
Big data	YES	YES		YES	YES	YES					
BI tools				YES							
Blockchain and Distributed Ledger Technology (DLT)			YES								
Chemical engineering (plants, products)											
Cloud Services	YES		YES		YES					YES	
Communication network			YES								
Cyber-physical systems				YES	YES		YES				
Cybersecurity	YES	YES	YES					YES		YES	YES

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Data				YES	YES				YES		
Digital twins		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Displays										YES	
Gamification				YES						YES	
High performance computing	YES		YES								
Human computer interaction		YES		YES	YES				YES		
Industrial biotechnology			YES								
Internet of Things	YES	YES	YES	YES	YES		YES		YES		
Internet Services & Applications				YES		YES					
Laser-based manufacturing and materials processing			YES		YES						
Location-based applications											
Logistics		YES		YES	YES						
Micro- and nanoelectronics, optoelectronics											
Mobility			YES								
New technologies for Audio-Visual sector - Media											
Organic and large area electronics											
Other (please specify)											
Photonics											
Quantum Technologies (computing/communication)											
Robotics		YES	YES	YES	YES	YES	YES	YES	YES	YES	
Semiconductors and Nanotechnology											
Sensors & Vision Processing Systems	YES		YES	YES	YES			YES	YES	YES	
Simulation engineering and modelling			YES	YES	YES	YES				YES	
Software Architectures			YES	YES							
Virtual Reality			YES		YES	YES		YES	YES	YES	

Derived from the technological coverage mapping, it is evident that within the AI REDGIO 5.0 project, the (E)DIHs span a broad spectrum of technologies. Certain (E)DIHs lack a distinct technological focus, encompassing a majority of the considered technologies, whereas others concentrate on a more specific range of technologies within the same domain as it is the case of Steinbeis, OOST NL or DIH Trentino.

When it comes to the most covered technologies by the AI REDGIO 5.0 (E)DIH ecosystem, the **Digital Twins** concept is the most extended one with 17 (E)DIHs out of 22 providing services related to this technology, closely followed by **AI and Decision Support** and **Robotics**, both covered by 16 (E)DIHs. On the other side, technologies such as **Chemical engineering**, **New technologies for Audio-Visual sector – Media** or **Organic and large area electronics** are not yet covered by the AI REDGIO 5.0 (E)DIH ecosystem.

Based on the previously showed mapping of technologies each set of hubs has been analysed, as shown in Table 9. In this first step, the number of common covered technologies has been counted.

Next, according to the number of common technologies covered by each pair of (E)DIHs, the numbers have been transformed into a 0 to 3 scale, based on the criteria presented in section Technological focus. The pairs with a score of 3 present high compatibility in terms of technological coverage; while those with a score of 0 present low compatibility. This second step can be seen in Table 10.

Table 9: Number of common technologies covered by each pair of (E)DIHs

TECHNOLOGICAL COVERAGE		AFIL	KCSTV				OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
			SRC-EDIH	DIH JSI	4PDIH (University of Ljubljana)	DIH DiTMaPS																	
AFIL - Lombardy Cluster of Advanced Manufacturing			4	7	6	7	2	8	6	1	7	9	4	6	11	8	10	4	5	6	6	6	2
KCSTV	SRC-EDIH	4		3	2	2	1	4	2	0	3	4	1	3	5	3	4	3	2	4	3	4	1
	DIH JSI (Jožef Stefan Institute)	7	3		7	3	1	5	3	0	5	5	5	4	7	4	5	3	3	4	4	4	1
	4PDIH (University of Ljubljana)	6	2	7		2	0	4	2	0	5	5	5	4	6	5	5	2	2	3	4	4	1
	DIH DiTMaPS	7	2	3	2		2	6	6	2	6	5	2	4	7	9	8	3	5	3	5	4	1
OOST NL		2	1	1	0	2		3	3	1	1	2	1	1	2	3	3	1	2	2	2	2	0
UTW		8	4	5	4	6	3		6	1	7	8	4	5	8	9	10	5	5	6	6	7	1
Polymeris		6	2	3	2	6	3	6		1	5	5	3	3	5	7	7	2	5	4	6	4	1
DIH Trentino (HIT)		1	0	0	0	2	1	1	1		1	1	0	1	0	2	2	0	1	0	0	0	0
ARTER		7	3	5	5	6	1	7	5	1		8	4	3	6	7	8	4	4	3	5	4	1
EDIH DIGITALIS (Coordinator: Flanders Make)		9	4	5	5	5	2	8	5	1	8		5	4	9	7	8	3	4	6	5	7	2
GAIN		4	1	5	5	2	1	4	3	0	4	5		3	6	4	5	1	2	3	3	4	1
EDIH/DHI MADE Competence Center I4.0		6	3	4	4	4	1	5	3	1	3	4	3		5	7	7	3	3	4	4	4	2
TUASI (eDIH-DIZ)		11	5	7	6	7	2	8	5	0	6	9	6	5		8	10	4	4	7	6	9	2
Czech Technical University in Prague (CVUT)		8	3	4	5	9	3	9	7	2	7	7	4	7	8		12	5	5	5	7	7	1
MADE - Manufacturing Academy of Denmark		10	4	5	5	8	3	10	7	2	8	8	5	7	10	12		5	5	6	8	8	1
PBN/ am-LAB DIH		4	3	3	2	3	1	5	2	0	4	3	1	3	4	5	5		2	3	3	4	1
DMIW		5	2	3	2	5	2	5	5	1	4	4	2	3	4	5	5	2		3	4	3	1
AI5Production (SCCH)		6	4	4	3	3	2	6	4	0	3	6	3	4	7	5	6	3	3		5	7	2
INTELLIMECH		6	3	4	4	5	2	6	6	0	5	5	3	4	6	7	8	3	4	5		5	1
BRAINPORT		6	4	4	4	4	2	7	4	0	4	7	4	4	9	7	8	4	3	7	5		2
STEINBEIS		2	1	1	1	1	0	1	1	0	1	2	1	2	2	1	1	1	1	2	1	2	

Table 10: Compatibility rating according to technological focus

TECHNOLOGICAL COVERAGE		AFIL	KCSTV				OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
			SRC-EDIH	DIH JSI	4PDIH (University of Ljubljana)	DIH DiTMaPS																	
AFIL - Lombardy Cluster of Advanced Manufacturing			1	2	1	2	1	2	1	1	2	2	1	1	3	2	3	1	1	1	1	1	1
KCSTV	SRC-EDIH	1		1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	DIH JSI (Jožef Stefan Institute)	2	1		2	1	1	1	1	0	1	1	1	1	2	1	1	1	1	1	1	1	1
	4PDIH (University of Ljubljana)	1	1	2		1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	DIH DiTMaPS	2	1	1	1		1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1
OOST NL		1	1	1	0	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
UTW		2	1	1	1	1	1		1	1	2	2	1	1	2	2	3	1	1	1	1	2	1
Polymeris		1	1	1	1	1	1	1		1	1	1	1	1	1	2	2	1	1	1	1	1	1
DIH Trentino (HIT)		1	0	0	0	1	1	1	1		1	1	0	1	0	1	1	0	1	0	0	0	0
ARTER		2	1	1	1	1	1	2	1	1		2	1	1	1	2	2	1	1	1	1	1	1
EDIH DIGITALIS (Coordinator: Flanders Make)		2	1	1	1	1	1	2	1	1	2		1	1	2	2	2	1	1	1	1	2	1
GAIN		1	1	1	1	1	1	1	1	0	1	1		1	1	1	1	1	1	1	1	1	1
EDIH/DHI MADE Competence Center I4.0		1	1	1	1	1	1	1	1	1	1	1	1		1	2	2	1	1	1	1	1	1
TUASI (eDIH-DIZ)		3	1	2	1	2	1	2	1	0	1	2	1	1		2	3	1	1	2	1	2	1
Czech Technical University in Prague (CVUT)		2	1	1	1	2	1	2	2	1	2	2	1	2	2		3	1	1	1	2	2	1
MADE - Manufacturing Academy of Denmark		3	1	1	1	2	1	3	2	1	2	2	1	2	3	3		1	1	1	2	2	1
PBN/ am-LAB DIH		1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1		1	1	1	1	1
DMIW		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1
AI5Production (SCCH)		1	1	1	1	1	1	1	1	0	1	1	1	1	2	1	1	1	1		1	2	1
INTELLIMECH		1	1	1	1	1	1	1	1	0	1	1	1	1	1	2	2	1	1	1		1	1
BRAINPORT		1	1	1	1	1	1	2	1	0	1	2	1	1	2	2	2	1	1	2	1		1
STEINBEIS		1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	

5.1.3. Sectorial coverage

Despite the strong sectorial focus of the AI REDGIO 5.0 consortium towards the Manufacturing and processing sector, being this the most covered sector, the (E)DIHs present a broad coverage of a variety of sectors, as presented in the table below:

Table 11: Mapping of the sectors covered by the AI REDGIO 5.0 (E)DIHs (Part1)

SECTORS	AFIL	SRC-EDIH	DIH JSI (Jožef Stefan Institute)	4PDIH (University of Ljubljana)	DIH DiTMaPS	OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)
Aeronautics	YES						YES				
Agricultural biotechnology and food biotechnology			YES	YES				YES			
Automotive	YES	YES			YES			YES			YES
Community Led Local Development				YES							
Construction & Assembly	YES				YES				YES	YES	
Consumer products											YES
Cultural and creative economy										YES	
Defence											
Education		YES		YES	YES		YES				
Electricity											
Energy	YES							YES		YES	YES
Energy, fuels and petroleum engineering											
Environment	YES										
Financial											
Fishery											
Food and beverages						YES		YES	YES		
Health care			YES			YES	YES	YES		YES	
Leather											
Life sciences										YES	
Manufacturing and processing	YES	YES	YES	YES	YES	YES	YES	YES	YES		YES
Maritime											
Metal working and industrial production	YES					YES					YES

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Mining and extraction											
NMP Non Metallic Materials & basic processes											
Nuclear											
Paper and wood											
Personal services											
Polymers and plastics	YES										
Public administration		YES		YES						YES	
Real estate											
Retail, wholesale or distribution											
Security											
Smart City				YES							
Space											
Telecommunications				YES							
Textiles	YES										
Tobacco											
Transport & Mobility					YES					YES	YES
Transport sector					YES						
Travel and tourism			YES							YES	
Travel and tourism		YES						YES			

Table 12: Mapping of the sectors covered by the AI REDGIO 5.0 (E)DIHs (Part2)

SECTORS	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
Aeronautics											YES
Agricultural biotechnology and food biotechnology	YES					YES					YES

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Automotive			YES	YES	YES				YES		YES
Community Led Local Development											YES
Construction & Assembly			YES	YES	YES						YES
Consumer products									YES		
Cultural and creative economy											YES
Defence											
Education			YES	YES	YES				YES		
Electricity				YES							YES
Energy	YES			YES							YES
Energy, fuels and petroleum engineering											
Environment	YES			YES							YES
Financial											
Fishery	YES										
Food and beverages	YES				YES	YES					
Health care	YES		YES	YES	YES	YES					YES
Leather											
Life sciences	YES										YES
Manufacturing and processing		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Maritime	YES										YES
Metal working and industrial production				YES					YES		YES
Mining and extraction											
NMP Non Metallic Materials & basic processes											YES
Nuclear				YES							
Paper and wood	YES										
Personal services											
Polymers and plastics					YES						
Public administration	YES		YES	YES							

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Real estate											
Retail, wholesale or distribution											
Security											
Smart City				YES							YES
Space				YES							
Telecommunications	YES			YES							
Textiles			YES						YES		
Tobacco											
Transport & Mobility			YES								YES
Transport sector											
Travel and tourism											
Travel and tourism											

Through a quick analysis of the sectorial coverage of the AI REDGIO 5.0 (E)DIHs, it can be seen that while some of the hubs cover all kind of sectors and count with competences to act in several fields, such as Steinbeis or CVUT, other (E)DIHs focus on specific areas and, therefore, offer specialised services in those specific fields, as is the case of MADE, AI5Production, DMIW or Brainport.

The main sectors covered by the AI REDGIO 5.0 (E)DIHs are **Manufacturing and processing** covered by 20 (E)DIHs out of 22. On the second and third place **Health care**, with 50% of the (E)DIHs covering it, and **Automotive** with 10 (E)DIHs covering it can be found. On the other side, some sectors such as Defence, Leather or Retail, wholesale or distribution, among others, are not covered by the (E)DIHs in the ecosystem.

First, based on the mapping of the sectorial coverage, each pair of hubs has been individually analysed and the number of common sectors covered has been indicated, as it can be seen in Table 13.

Next, according to the number of common sectors covered by each pair of (E)DIHs, the numbers have been transformed into a 0 to 3 scale, based on the criteria presented in section Sectorial coverage. The pairs with a score of 3 present high compatibility in terms of sectors; while those with a score of 0 present low compatibility. This scoring can be seen in Table 14.

Table 13: Number of common sectors covered by each pair of (E)DIHs

SECTORIAL COVERAGE		AFIL	KCSTV				OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
			SRC-EDIH	DIH JSI	4PDIH (University of Ljubljana)	DIH DiTMaPS																	
	AFIL - Lombardy Cluster of Advanced Manufacturing		2	1	1	3	2	2	3	2	2	4	2	1	4	6	4	1	1	1	4	1	7
KCSTV	SRC-EDIH	2		1	3	3	1	2	2	1	1	2	1	1	4	4	3	1	1	1	3	1	2
KCSTV	DIH JSI (Jožef Stefan Institute)	1	1		2	1	2	2	3	1	2	1	2	1	2	2	2	3	1	1	1	1	3
KCSTV	4PDIH (University of Ljubljana)	1	3	2		2	1	2	2	1	1	1	3	1	3	5	2	2	1	1	2	1	4
KCSTV	DIH DiTMaPS	3	3	1	2		1	2	2	2	2	3	0	1	5	4	4	1	1	1	3	1	4
	OOST NL	2	1	2	1	1		2	3	2	1	2	2	1	2	3	3	3	1	1	2	1	3
	UTW	2	2	2	2	2	2		2	1	1	1	1	1	3	3	3	2	1	1	2	1	3
	Polymeris	3	2	3	2	2	3	2		2	2	3	4	1	3	4	4	4	1	1	2	1	5
	DIH Trentino (HIT)	2	1	1	1	2	2	1	2		1	1	1	1	2	2	3	2	1	1	1	1	2
	ARTER	2	1	2	1	2	1	1	2	1		2	4	0	4	4	2	1	0	0	0	0	6
	EDIH DIGITALIS (Coordinator: Flanders	4	2	1	1	3	2	1	3	1	2		1	1	3	4	2	1	1	1	4	1	5
	GAIN	2	1	2	3	0	2	1	4	1	4	1		0	2	5	2	3	0	0	0	0	6
	EDIH/DHI MADE Competence Center I4.0	1	1	1	1	1	1	1	1	1	0	1	0		1	1	1	1	1	1	1	1	1
	TUASI (eDIH-DIZ)	4	4	2	3	5	2	3	3	2	4	3	2	1		6	5	2	1	1	4	1	5
	Czech Technical University in Prague (CVUT)	6	4	2	5	4	3	3	4	2	4	4	5	1	6		5	2	1	1	4	1	9
	MADE - Manufacturing Academy of Denmark	4	3	2	2	4	3	3	4	3	2	2	2	1	5	5		3	1	1	3	1	4
	PBN/ am-LAB DIH	1	1	3	2	1	3	2	4	2	1	1	3	1	2	2	3		1	1	1	1	3
	DMIW	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1		1	1	1	1
	AI5Production (SCCH)	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1		1	1	1
	INTELLIMECH	4	3	1	2	3	2	2	2	1	0	4	0	1	4	4	3	1	1	1		1	3
	BRAINPORT	1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1		1
	STEINBEIS	7	2	3	4	4	3	3	5	2	6	5	6	1	5	9	4	3	1	1	3	1	

Table 14: Compatibility rating according to sectorial coverage

SECTORIAL COVERAGE		AFIL	KCSTV				OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
			SRC-EDIH	DIH JSI	4PDIH (University of Ljubljana)	DIH DiTMaPS																	
AFIL - Lombardy Cluster of Advanced Manufacturing			1	1	1	2	1	1	2	1	1	2	1	1	2	3	2	1	1	1	2	1	3
KCSTV	SRC-EDIH	1		1	2	2	1	1	1	1	1	1	1	1	2	2	2	1	1	1	2	1	1
	DIH JSI (Jožef Stefan Institute)	1	1		1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	2
	4PDIH (University of Ljubljana)	1	2	1		1	1	1	1	1	1	1	2	1	2	3	1	1	1	1	1	1	2
	DIH DiTMaPS	2	2	1	1		1	1	1	1	1	2	0	1	3	2	2	1	1	1	2	1	2
OOST NL		1	1	1	1	1		1	2	1	1	1	1	1	1	2	2	2	1	1	1	1	2
UTW		1	1	1	1	1	1		1	1	1	1	1	1	2	2	2	1	1	1	1	1	2
Polymeris		2	1	2	1	1	2	1		1	1	2	2	1	2	2	2	2	1	1	1	1	3
DIH Trentino (HIT)		1	1	1	1	1	1	1	1		1	1	1	1	1	1	2	1	1	1	1	1	1
ARTER		1	1	1	1	1	1	1	1	1		1	2	0	2	2	1	1	0	0	0	0	3
EDIH DIGITALIS (Coordinator: Flanders		2	1	1	1	2	1	1	2	1	1		1	1	2	2	1	1	1	1	2	1	3
GAIN		1	1	1	2	0	1	1	2	1	2	1		0	1	3	1	2	0	0	0	0	3
EDIH/DHI MADE Competence Center I4.0		1	1	1	1	1	1	1	1	1	0	1	0		1	1	1	1	1	1	1	1	1
TUASI (eDIH-DIZ)		2	2	1	2	3	1	2	2	1	2	2	1	1		3	3	1	1	1	2	1	3
Czech Technical University in Prague (CVUT)		3	2	1	3	2	2	2	2	1	2	2	3	1	3		3	1	1	1	2	1	3
MADE - Manufacturing Academy of Denmark		2	2	1	1	2	2	2	2	2	1	1	1	1	3	3		2	1	1	2	1	2
PBN/ am-LAB DIH		1	1	2	1	1	2	1	2	1	1	1	2	1	1	1	2		1	1	1	1	2
DMIW		1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1		1	1	1	1
AI5Production (SCCH)		1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1		1	1	1
INTELLIMECH		2	2	1	1	2	1	1	1	1	0	2	0	1	2	2	2	1	1	1		1	2
BRAINPORT		1	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1		1
STEINBEIS		3	1	2	2	2	2	2	3	1	3	3	3	1	3	3	2	2	1	1	2	1	

5.1.4. Overall compatibility of (E)DIHs

Taking into account the three aforementioned criteria— geographical proximity, technological focus and sectorial coverage—the overall compatibility assessment has been conducted. This involved summing the scores for each (E)DIH pair across the individual criteria, yielding Table 15.

By taking into account geographical proximity, technological focus, and sectorial coverage, this compatibility assessment facilitates the identification of (E)DIH pairs with the greatest potential for future collaboration. The matrix serves as a representation of mutually beneficial matches for (E)DIHs, ensuring win-win scenarios. Consequently, this conclusive compatibility rating enables the alignment of (E)DIHs based on the services they aim to enhance or implement in subsequent stages.

Table 15: Overall compatibility of the AI REDGIO 5.0 (E)DIHs

OVERALL COMPATIBILITY		AFIL	KCSTV				OOST NL	UTW	Polymeris	DIH Trentino (HIT)	ARTER	EDIH DIGITALIS (Flanders Make)	GAIN	EDIH/DHI MADE Competence Center I4.0	TUASI (eDIH-DIZ)	Czech Technical University in Prague (CVUT)	MADE - Manufacturing Academy of Denmark	PBN/ am-LAB DIH	DMIW	AI5Production (SCCH)	INTELLIMECH	BRAINPORT	STEINBEIS
			SRC-EDIH	DIH JSI	4PDIH (University of Ljubljana)	DIH DiTMaPS																	
AFIL - Lombardy Cluster of Advanced Manufacturing			5	6	5	7	3	4	6	5	6	5	4	5	6	6	6	3	3	5	6	3	5
KCSTV	SRC-EDIH	5		5	6	6	3	3	3	4	5	3	3	5	5	5	4	5	3	5	6	3	3
	DIH JSI (Jožef Stefan Institute)	6	5		6	5	3	3	4	4	5	3	3	5	5	4	3	6	3	5	5	3	4
	4PDIH (University of Ljubljana)	5	6	6		5	2	3	3	4	5	3	4	5	5	6	3	5	3	5	5	3	4
	DIH DiTMaPS	7	6	5	5		3	3	3	5	5	4	2	5	7	6	5	5	3	5	6	3	4
OOST NL		3	3	3	2	3		5	5	3	3	5	3	3	3	4	4	4	4	4	3	5	5
UTW		4	3	3	3	3	5		4	3	4	6	3	3	5	5	6	3	4	4	3	6	6
Polymeris		6	3	4	3	3	5	4		5	5	6	6	5	4	5	5	4	4	4	5	4	7
DIH Trentino (HIT)		5	4	4	4	5	3	3	5		5	3	3	5	2	3	4	2	3	4	4	2	2
ARTER		6	5	5	5	5	3	4	5	5		4	5	4	4	5	4	3	2	4	4	2	5
EDIH DIGITALIS (Coordinator: Flanders Make)		5	3	3	3	4	5	6	6	3	4		3	3	5	5	4	3	4	4	4	6	7
GAIN		4	3	3	4	2	3	3	6	3	5	3		3	3	5	3	4	2	2	3	2	5
EDIH/DHI MADE Competence Center I4.0		5	5	5	5	5	3	3	5	5	4	3	3		3	4	4	3	3	5	5	3	3
TUASI (eDIH-DIZ)		6	5	5	5	7	3	5	4	2	4	5	3	3		7	7	5	3	4	4	4	5
Czech Technical University in Prague (CVUT)		6	5	4	6	6	4	5	5	3	5	5	5	4	7		7	4	3	5	5	4	7
MADE - Manufacturing Academy of Denmark		6	4	3	3	5	4	6	5	4	4	4	3	4	7	7		4	3	3	5	4	6
PBN/ am-LAB DIH		3	5	6	5	5	4	3	4	2	3	3	4	3	5	4	4		3	5	3	3	4
DMIW		3	3	3	3	3	4	4	4	3	2	4	2	3	3	3	3	3		4	3	4	3
AI5Production (SCCH)		5	5	5	5	5	4	4	4	4	4	4	2	5	4	5	3	5	4		5	5	5
INTELLIMECH		6	6	5	5	6	3	3	5	4	4	4	3	5	4	5	5	3	3	5		3	4
BRAINPORT		3	3	3	3	3	5	6	4	2	2	6	2	3	4	4	4	3	4	5	3		5
STEINBEIS		5	3	4	4	4	5	6	7	2	5	7	5	3	5	7	6	4	3	5	4	5	

5.2. Potential collaboration opportunities identified in AI REDGIO 5.0

This chapter outlines the potential collaboration opportunities that each (E)DIH could establish within the AI REDGIO 5.0 ecosystem through the three collaboration scenarios highlighted in Chapter 3 The AI (E)DIHs Collaboration Baseline. In particular, for each (E)DIH the following is presented:

- The complete list of potential (E)DIHs with which to collaborate for the development of new services (Collaboration Scenario 1);
- The complete list of potential (E)DIHs with which to collaborate for the improvement of a service currently offered (Collaboration Scenario 2);
- The list of potential (E)DIHs that could offer a specific service that the ecosystem might need, but the (E)DIH does not want to offer it as part of its service portfolio (Collaboration Scenario 3).

5.2.1. AFIL - ASSOCIAZIONE FABBRICA INTELLIGENTE LOMBARDIA

According to what emerged from the Service Portfolio provided by AFIL, there are **six new services that the hub would like to develop** while **fourteen are those that could be improved** through collaborations.

The following tables summarize the potential partners with which AFIL could establish collaborations aimed at developing or improving services.

Table 16: Potential partners for AFIL to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Collaborative innovation and problem solving	Ecosystem	JSI MAKE MADE cc	UTW OOST NL DMIW
Visioning and Strategy Development	Ecosystem	JSI	UTW
Access to infrastructure and technological platforms	Technology	UTW	
Innovation spaces	Business	HIT SRC-EDIH	GAIN
Strategic analysis: Matchmaking	Business	UTW	
Strategic analysis: Research calls and funding opportunities	Business	UTW	

Table 17: Potential partners for AFIL to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Ecosystem Mapping and analysis	Ecosystem	Polymeris Intellimech 4PDIH SIG MADE cc	GAIN OOST NL DMIW BRAINPORT

[1] The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

[2] The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[2]**
Community creation	Ecosystem	Intellimech ARTER Polymeris SIG MAKE SRC-EDIH MADE cc GAIN DMIW PBN BRAINPORT OOST NL
Connecting suppliers & customers	Ecosystem	JSI MADE Intellimech Polymeris SIG MAKE SRC-EDIH MADE cc GAIN DMIW BRAINPORT OOST NL
Raise awareness	Ecosystem	MADE Intellimech ARTER CVUT Polymeris HIT SIG MAKE SRC-EDIH MADE cc 4PDIH GAIN DMIW PBN
Share best practices	Ecosystem	Polymeris Intellimech 4PDIH SRC-EDIH MAKE MADE cc SIG GAIN PBN BRAINPORT DMIW OOST NL
Communication_experts & customers/partners	Ecosystem	JSI MADE ARTER Intellimech MADE cc SIG GAIN DMIW OOST NL
Trend watching	Ecosystem	Polymeris Intellimech 4PDIH MAKE MADE cc SIG GAIN OOST NL
Ecosystem Strategy within and between DIHs	Ecosystem	DiTMAPs Polymeris MADE SRC-EDIH MADE cc SIG GAIN OOST NL

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Ideas Generation Assessment	Technology	DiTMAPs JSI Polymeris TUIASI ARTER Intellimech 4PDIH SRC-EDIH SCCH MAKE MADE cc GAIN PBN
Strategic and Specific R&D	Technology	DiTMAPs CVUT Polymeris TUIASI ARTER Intellimech DMIW SCCH HIT MAKE MADE cc GAIN PBN
Connection to funding resources	Business	Polymeris ARTER Intellimech MADE cc SIG GAIN PBN BRAINPORT DMIW OOST NL
Creating consortia	Business	JSI CVUT Polymeris MADE ARTER Intellimech MADE cc SIG GAIN PBN DMIW OOST NL
Educational Programs	Skill	CVUT Polymeris MADE Intellimech SRC-EDIH SCCH MAKE MADE cc BRAINPORT OOST NL
Scouting and Brokerage	Skill	MADE ARTER Intellimech SRC-EDIH MAKE MADE cc SIG GAIN

Table 18, instead, presents some examples of partners who could provide AFIL's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 18: Potential partners for AFIL to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Human Skill Maturity	Skills	SRC-EDIH, OOST NL, GAIN
Skill Strategy Development	Skills	Polymeris, GAIN, OOST NL

Human up-skilling/ re-skilling	Skills	CVUT, SCCH, MADE
Decision Support & Development	Data	JSI, 4PDIH, PBN
Collaborative Intelligence	Data	4PDIH, SRC-EDIH, SCCH

5.2.2. SRC-EDIH - Competence Centre for Advanced Control Technologies

According to what emerged from the Service Portfolio provided by SRC EDIH, there are **three new services that the hub would like to develop** while **thirty-two are those that could be improved through collaborations**.

The following tables summarize the potential partners with which SRC EDIH could establish collaborations aimed at developing or improving services.

Table 19: Potential partners for SRC-EDIH to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Interaction between business experts and customers/partners	Ecosystem	HIT Polymeris	MAKE UTW
Innovation spaces	Business	AFIL	HIT
Creating consortia	Business	HIT	UTW

Table 20: Potential partners for SRC-EDIH to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Community creation	Ecosystem	Intellimech ARTER PBN AFIL MADE cc DMIW GAIN	SIG Polymeris MAKE BRAINPORT OOST NL
Connecting suppliers & customers	Ecosystem	Intellimech JSI AFIL MADE cc MADE DMIW	GAIN SIG Polymeris MAKE BRAINPORT OOST NL
Collaborative innovation and problem solving	Ecosystem	ARTER MADE HIT	SIG Polymeris

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Technological scouting	Ecosystem	Intellimech ARTER PBN MADE cc DMIW	GAIN SIG MAKE OOST NL
Raise awareness	Ecosystem	Intellimech 4PDIH ARTER PBN CVUT AFIL MADE cc MADE	HIT DMIW GAIN SIG Polymeris MAKE OOST NL
Share best practices	Ecosystem	Intellimech 4PDIH PBN AFIL MADE cc DMIW	GAIN SIG Polymeris MAKE BRAINPORT OOST NL
Services Impact Assessment (KPIs)	Ecosystem	MADE cc MADE SIG	Polymeris OOST NL
Ecosystem Strategy within and between DIHs	Ecosystem	DiTMAPs AFIL MADE cc MADE	GAIN SIG Polymeris OOST NL
Ideas Generation Assessment	Technology	DiTMAPs Intellimech 4PDIH JSI ARTER PBN SCCH	AFIL TUIASI MADE cc GAIN Polymeris MAKE
Technological Readiness	Technology	Intellimech ARTER SCCH CVUT MADE cc	DMIW GAIN BRAINPORT OOST NL

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Tech concept and Development	Technology	DiTMAPs Intellimech 4PDIH JSI ARTER PBN SCCH CVUT	TUIASI MADE cc DMIW GAIN UTW Polymeris MAKE OOST NL
Access to infrastructure and technological platforms	Technology	DiTMAPs 4PDIH JSI ARTER SCCH CVUT TUIASI	MADE cc DMIW GAIN Polymeris MAKE BRAINPORT OOST NL
Prototyping	Technology	DiTMAPs Intellimech 4PDIH JSI ARTER PBN SCCH	CVUT MADE cc DMIW GAIN Polymeris MAKE OOST NL
Product Demonstration	Technology	DiTMAPs Intellimech PBN SCCH CVUT MADE cc	DMIW GAIN Polymeris BRAINPORT OOST NL
Basic facilities	Business	Intellimech ARTER CVUT MADE cc	DMIW SIG BRAINPORT OOST NL
Specialised facilities	Business	Intellimech CVUT MADE cc DMIW	SIG Polymeris BRAINPORT OOST NL
Business development	Business	ARTER PBN CVUT MADE cc MADE DMIW	GAIN SIG Polymeris BRAINPORT OOST NL
Guidance	Business	SIG	BRAINPORT

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[2]**
Connection to funding resources	Business	Intellimech JSI ARTER PBN AFIL MADE cc DMIW GAIN SIG Polymeris BRAINPORT OOST NL
Methods, tools, business operations modelling	Business	PBN MADE cc MADE SIG OOST NL
Identification of Opportunities	Business	Intellimech MADE cc GAIN Polymeris
Development of proposals	Business	Intellimech PBN MADE cc DMIW SIG Polymeris OOST NL
Maturity Assessment	Skill	4PDIH Intellimech DiTMAPs JSI PBN CVUT SCCH ARTER MADE cc HIT HIT MADE Polymeris MAKE BRAINPORT DMIW OOST NL UTW GAIN SIG
Maturity and Strategy Development	Skill	PBN MADE cc MADE Polymeris BRAINPORT DMIW UTW GAIN SIG
Human Skill Repository	Skill	4PDIH SCCH MAKE BRAINPORT OOST NL GAIN
Human Skill Maturity	Skill	OOST NL GAIN SIG
Educational Programs	Skill	Intellimech CVUT SCCH AFIL MADE cc MADE Polymeris MAKE BRAINPORT OOST NL

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Scouting and Brokerage	Skill	Intellimech ARTER AFIL MADE cc	MADE MAKE GAIN SIG
Data Acquisition	Data	Intellimech DiTMAPs CVUT SCCH	TUIASI DMIW GAIN
Data Protection	Data	JSI SCCH	TUIASI GAIN
Data Analytics	Data	Intellimech JSI PBN CVUT	SCCH GAIN SIG
Collaborative Intelligence	Data	4PDIH SCCH TUIASI	MADE cc DMIW SIG

Table 21, instead, presents some examples of partners who could provide SRC EDIH's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 21: Potential partners for SRC-EDIH to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Ecosystem Mapping and analysis	Ecosystem	Polymeris, BRAINPORT, DMIW
Trend watching	Ecosystem	AFIL, Intellimech, OOST NL
GDPR and Data Sovereignty	Data	SCCH, BRAINPORT, SIG
Data Spaces	Data	SCCH, GAIN, SIG
Data Platforms	Data	DiTMAPs, TUIASI, Intellimech

5.2.3. JSI - Jožef Stefan Institute

According to what emerged from the Service Portfolio provided by JSI, there are **twenty-one new services that the hub would like to develop** while **fourteen are those that could be improved** through collaborations.

The following tables summarize the potential partners with which JSI could establish collaborations aimed at developing or improving services.

Table 22: Potential partners for JSI to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners**[1]
Ecosystem Mapping and analysis	Ecosystem	HIT MADE UTW
Community creation (stakeholders/potential partners)	Ecosystem	4PDIH CVUT HIT MADE UTW
Collaborative innovation and problem solving	Ecosystem	AFIL MADE cc MAKE DMIW OOST NL UTW
Technological scouting	Ecosystem	UTW
Raise awareness	Ecosystem	UTW
Share best practices	Ecosystem	CVUT MADE UTW
Trend watching	Ecosystem	MADE UTW
Visioning and Strategy Development	Ecosystem	AFIL UTW
Services Impact Assessment (KPIs)	Ecosystem	MAKE GAIN
Technological Readiness	Technology	4PDIH TUIASI DiTMAPs UTW
Strategic and Specific R&D	Technology	UTW
Product Qualification and Certification	Technology	TUIASI UTW
Specialised facilities	Business	UTW
Guidance	Business	MADE cc HIT MADE OOST NL UTW
Development of proposals	Business	UTW
Maturity and Strategy Development	Skill	4PDIH SCCH DiTMAPs CVUT MAKE
Scouting and Brokerage	Skill	SCCH Polymeris BRAINPORT DMIW UTW
Data Storage	Data	4PDIH TUIASI MADE cc BRAINPORT

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners[1]**
Collaborative Intelligence	Data	PBN CVUT ARTER BRAINPORT Intellimech UTW
Data Spaces	Data	TUIASI CVUT MADE cc
Data Platforms	Data	TUIASI CVUT MADE cc

Table 23: Potential partners for JSI to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Connecting suppliers & customers	Ecosystem	AFIL MADE cc SRC-EDIH SIG Intellimech Polymeris
Communication_experts & customers/partners	Ecosystem	AFIL MADE Intellimech GAIN ARTER MAKE MADE cc BRAINPORT SIG OOST NL DMIW
Ideas Generation Assessment	Technology	PBN SCCH AFIL TUIASI 4PDIH MADE cc DiTMAPs Polymeris SRC-EDIH GAIN Intellimech MAKE ARTER
Tech concept and Development	Technology	PBN MADE cc 4PDIH CVUT DiTMAPs Polymeris SRC-EDIH DMIW Intellimech GAIN ARTER UTW SCCH MAKE TUIASI OOST NL

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Access to infrastructure and technological platforms	Technology	4PDIH DiTMAPs SRC-EDIH ARTER SCCH TUIASI MADE cc	CVUT Polymeris DMIW GAIN MAKE BRAINPORT OOST NL
Concept Validation	Technology	PBN 4PDIH Intellimech ARTER SCCH TUIASI	MADE cc Polymeris GAIN MAKE BRAINPORT OOST NL
Prototyping	Technology	PBN 4PDIH DiTMAPs SRC-EDIH Intellimech ARTER SCCH	MADE cc CVUT Polymeris DMIW GAIN MAKE OOST NL
Connection to funding resources	Business	PBN AFIL SRC-EDIH Intellimech ARTER MADE cc	SIG Polymeris DMIW GAIN BRAINPORT OOST NL
Strategic analysis _Research calls and funding opportunities	Business	PBN Intellimech ARTER MADE cc SIG CVUT	Polymeris DMIW GAIN BRAINPORT OOST NL
Creating consortia	Business	PBN AFIL Intellimech ARTER MADE cc SIG	CVUT Polymeris DMIW MADE GAIN OOST NL

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Maturity Assessment	Skill	PBN, CVUT, 4PDIH, Polymeris, DiTMAPs, DMIW, SRC-EDIH, MADE, Intellimech, GAIN, ARTER, UTW, SCCH, MAKE, MADE cc, BRAINPORT, HIT, OOST NL, SIG
Data Protection	Data	SRC-EDIH, TUIASI, SCCH, GAIN
Data Analytics	Data	PBN, SIG, SRC-EDIH, CVUT, Intellimech, GAIN, SCCH
Decision Support & Development	Data	PBN, SIG, 4PDIH, CVUT, DiTMAPs, DMIW, Intellimech, GAIN, SCCH, UTW, MADE cc

Table 24, instead, presents some examples of partners who could provide JSI's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 24: Potential partners for JSI to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Ecosystem Strategy within and between DIHs	Ecosystem	SRC-EDIH, Polymeris, MADE
Basic facilities	Business	CVUT, BRAINPORT, DMIW
Business development	Business	SRC-EDIH, PBN, CVUT
Data Acquisition	Data	CVUT, SCCH, TUASI
Cognitive Big Data Architecture	Data	Intellimech, SIG

5.2.4. 4PDIH - University of Ljubljana

According to what emerged from the Service Portfolio provided by 4PDIH, there are **eleven new services that the hub would like to develop** while **sixteen are those that could be improved** through collaborations.

The following tables summarize the potential partners with which 4PDIH could establish collaborations aimed at developing or improving services.

Table 25: Potential partners for 4PDIH to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Community creation (stakeholders/potential partners)	Ecosystem	JSI CVUT HIT	MADE UTW
Technological Readiness	Technology	JSI TUIASI	UTW DiTMAPs
Maturity and Strategy Development	Skill	JSI CVUT SCCH	MAKE DiTMAPs
Skill Strategy Development	Skill	SCCH MADE MAKE	UTW MADE cc
Data Acquisition	Data	UTW MADE cc	
Data Protection	Data	UTW	
Data Storage	Data	JSI BRAINPORT	TUIASI MADE cc
Data Analytics	Data	TUIASI UTW	
Cognitive Big Data Architecture	Data	UTW	
Feedback Loop	Data	PBN CVUT UTW	Intellimech MADE cc
GDPR and Data Sovereignty	Data	CVUT TUIASI	UTW MADE cc

Table 26: Potential partners for 4PDIH to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Ecosystem Mapping and analysis	Ecosystem	Polymeris BRAINPORT DMIW OOST NL AFIL	Intellimech MADE cc GAIN SIG

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY

Service	Class	Potential partners[2]	
Raise awareness	Ecosystem	SRC-EDIH PBN CVUT HIT Polymeris MADE MAKE	DMIW OOST NL ARTER AFIL Intellimech MADE cc GAIN
Share best practices	Ecosystem	SRC-EDIH PBN Polymeris MAKE BRAINPORT DMIW	OOST NL AFIL Intellimech MADE cc GAIN SIG
Trend watching	Ecosystem	Polymeris MAKE OOST NL AFIL	Intellimech MADE cc GAIN SIG
Ideas Generation Assessment	Technology	JSI SRC-EDIH PBN SCCH Polymeris MAKE TUIASI	ARTER AFIL Intellimech MADE cc GAIN DiTMAPs
Tech concept and Development	Technology	JSI SRC-EDIH PBN CVUT SCCH Polymeris MAKE DMIW	TUIASI OOST NL UTW ARTER Intellimech MADE cc GAIN DiTMAPs
Access to infrastructure and technological platforms	Technology	JSI SRC-EDIH PBN SCCH Polymeris MAKE TUIASI	ARTER AFIL Intellimech MADE cc GAIN DiTMAPs

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Concept Validation	Technology	JSI PBN SCCH Polymeris MAKE BRAINPORT	TUIASI OOST NL ARTER Intellimech MADE cc GAIN
Prototyping	Technology	JSI SRC-EDIH PBN CVUT SCCH Polymeris MAKE	DMIW OOST NL ARTER Intellimech MADE cc GAIN DiTMAPs
Maturity Assessment	Skill	JSI SRC-EDIH PBN CVUT SCCH HIT Polymeris MADE MAKE BRAINPORT	DMIW OOST NL UTW ARTER Intellimech MADE cc GAIN SIG DiTMAPs
Human Skill Repository	Skill	SRC-EDIH SCCH MAKE	BRAINPORT OOST NL GAIN
Decision Support & Development	Data	JSI PBN CVUT SCCH DMIW UTW	Intellimech MADE cc GAIN SIG DiTMAPs
Collaborative Intelligence	Data	SRC-EDIH SCCH DMIW	TUIASI MADE cc SIG
User Experience	Data	PBN SCCH	DMIW SIG
Data Spaces	Data	SCCH GAIN	SIG
Data Platforms	Data	PBN SCCH TUIASI	Intellimech DiTMAPs

Table 27, instead, presents some examples of partners who could provide 4PDIH's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 27: Potential partners for 4PDIH to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Connecting suppliers & customers	Ecosystem	Polymeris, MADE, MAKE
Collaborative innovation and problem solving	Ecosystem	ART-ER, SIG, SRC-EDIH
Specialised facilities	Business	CVUT, BRAINPORT, DMIW
Business development	Business	SRC-EDIH, PBN, CVUT
Guidance	Business	SRC-EDIH, BRAINPORT, SIG

5.2.5. DiTMAPs

According to what emerged from the Service Portfolio provided by DiTMAPs, there are **three new services that the hub would like to develop** while **thirteen are those that could be improved** through collaborations.

The following tables summarize the potential partners with which DiTMAPs could establish collaborations aimed at developing or improving services.

Table 28: Potential partners for DiTMAPs to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Technological Readiness	Technology	TUIASI JSI	4PDIH UTW
Maturity and Strategy Development	Skill	CVUT JSI SCCH	4PDIH MAKE
Educational Programs	Skill	DMIW UTW	GAIN

Table 29: Potential partners for DiTMAPs to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Ecosystem Strategy within and between DIHs	Ecosystem	AFIL SRC-EDIH MADE MADE cc	SIG Polymeris OOST NL GAIN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Ideas Generation Assessment	Technology	AFIL TUIASI SRC-EDIH Intellimech JSI ARTER PBN SCCH MADE cc 4PDIH MAKE Polymeris GAIN
Strategic and Specific R&D	Technology	AFIL TUIASI Intellimech CVUT ARTER HIT PBN SCCH MADE cc MAKE DMIW Polymeris GAIN
Tech concept and Development	Technology	TUIASI SRC-EDIH Intellimech CVUT JSI ARTER PBN SCCH MADE cc 4PDIH MAKE DMIW UTW Polymeris OOST NL GAIN
Access to infrastructure and technological platforms	Technology	TUIASI SRC-EDIH CVUT JSI ARTER SCCH MADE cc 4PDIH MAKE DMIW Polymeris BRAINPORT OOST NL GAIN
Prototyping	Technology	SRC-EDIH Intellimech CVUT JSI ARTER PBN SCCH MADE cc 4PDIH MAKE DMIW Polymeris OOST NL GAIN
Product Demonstration	Technology	SRC-EDIH Intellimech CVUT PBN SCCH MADE cc DMIW Polymeris BRAINPORT OOST NL GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Maturity Assessment	Skill	SRC-EDIH, SCCH, Intellimech, SIG, CVUT, MAKE, JSI, DMIW, MADE, UTW, ARTER, Polymeris, HIT, BRAINPORT, PBN, GAIN
Human up-skilling/ re-skilling	Skill	Intellimech, SIG, CVUT, DMIW, MADE, OOST NL, SCCH, GAIN, MADE cc
Data Acquisition	Data	TUIASI, SCCH, SRC-EDIH, DMIW, Intellimech, GAIN, CVUT
Data Storage	Data	Intellimech, SCCH, CVUT, GAIN
Decision Support & Development	Data	Intellimech, 4PDIH, CVUT, SIG, JSI, DMIW, PBN, UTW, SCCH, GAIN, MADE cc
Data Platforms	Data	TUIASI, SCCH, Intellimech, 4PDIH, PBN

Table 30, instead, presents some examples of partners who could provide DiTMAPs' customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 30: Potential partners for DiTMAPs to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Ecosystem Mapping and analysis	Ecosystem	MADE cc, GAIN, SIG
Human Skill Repository	Business	SRC_EDIH, BRAINPORT, MAKE
User Experience	Skills	4PDIH, PBN, SCCH
Scouting and Brokerage	Skills	MADE, MAKE, ART-ER
Feedback Loop	Data	DMIW, TUIASI, SCCH

5.2.6. OOST NL

According to what emerged from the Service Portfolio provided by OOST NL, there are **three new services that the hub would like to develop** while **thirty-four are those that could be improved** through collaborations.

The following tables summarize the potential partners with which OOST NL could establish collaborations aimed at developing or improving services.

Table 31: Potential partners for OOST NL to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners**[1]
Collaborative innovation and problem solving	Ecosystem	MAKE, JSI, UTW, AFIL, DMIW, MADE cc
Guidance	Business	MAKE, JSI, UTW, AFIL, DMIW, MADE cc
Decision Support & Development	Data	TUIASI

Table 32: Potential partners for OOST NL to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Ecosystem Mapping and analysis	Ecosystem	SIG, GAIN, Polymeris, AFIL, BRAINPORT, MADE cc, DMIW, 4PDIH, Intellimech
Community creation	Ecosystem	SIG, SRC-EDIH, Polymeris, Intellimech, MAKE, ARTER, BRAINPORT, GAIN, DMIW, AFIL, PBN, MADE cc
Connecting suppliers & customers	Ecosystem	SIG, JSI, Polymeris, SRC-EDIH, MAKE, Intellimech, BRAINPORT, GAIN, DMIW, AFIL, MADE, MADE cc

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Technological scouting	Ecosystem	SIG, MAKE, BRAINPORT, DMIW, PBN, SRC-EDIH, Intellimech, ARTER, GAIN, MADE cc, AFIL
Raise awareness	Ecosystem	SIG, Polymeris, MAKE, DMIW, MADE, PBN, CVUT, SRC-EDIH, Intellimech, ARTER, HIT, GAIN, AFIL, MADE cc, 4PDIH
Share best practices	Ecosystem	SIG, Polymeris, MAKE, BRAINPORT, DMIW, PBN, SRC-EDIH, Intellimech, GAIN, AFIL, MADE cc, 4PDIH
Communication_experts & customers/partners	Ecosystem	SIG, DMIW, MADE, JSI, Intellimech, ARTER, GAIN, AFIL, MADE cc
Trend watching	Ecosystem	SIG, Polymeris, MAKE, Intellimech, GAIN, AFIL, MADE cc, 4PDIH
Services Impact Assessment (KPIs)	Ecosystem	SIG, Polymeris, MADE, SRC-EDIH, MADE cc
Ecosystem Strategy within and between DIHs	Ecosystem	SIG, Polymeris, MADE, SRC-EDIH, GAIN, AFIL, MADE cc, DiTMAPs
Technological Readiness	Technology	BRAINPORT, DMIW, SCCH, CVUT, SRC-EDIH, Intellimech, ARTER, GAIN, MADE cc

<table>
<tr><th colspan="4">COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY</th></tr>
<tr><th>Service</th><th>Class</th><th colspan="2">Potential partners[2]</th></tr>
<tr><td>Tech concept and Development</td><td>Technology</td><td>UTW
Polymeris
MAKE
DMIW
PBN
SCCH
CVUT
JSI</td><td>SRC-EDIH
Intellimech
ARTER
GAIN
TUIASI
MADE cc
DiTMAPs
4PDIH</td></tr>
<tr><td>Access to infrastructure and technological platforms</td><td>Technology</td><td>Polymeris
MAKE
BRAINPORT
DMIW
SCCH
CVUT
JSI</td><td>SRC-EDIH
ARTER
GAIN
TUIASI
MADE cc
DiTMAPs
4PDIH</td></tr>
<tr><td>Concept Validation</td><td>Technology</td><td>Polymeris
MAKE
BRAINPORT
PBN
SCCH
JSI</td><td>Intellimech
ARTER
GAIN
TUIASI
MADE cc
4PDIH</td></tr>
<tr><td>Prototyping</td><td>Technology</td><td>Polymeris
MAKE
DMIW
PBN
SCCH
CVUT
JSI</td><td>SRC-EDIH
Intellimech
ARTER
GAIN
MADE cc
DiTMAPs
4PDIH</td></tr>
<tr><td>Product Demonstration</td><td>Technology</td><td>Polymeris
BRAINPORT
DMIW
PBN
SCCH
CVUT</td><td>SRC-EDIH
Intellimech
GAIN
MADE cc
DiTMAPs</td></tr>
<tr><td>Basic facilities</td><td>Business</td><td>SIG
BRAINPORT
DMIW
CVUT</td><td>SRC-EDIH
Intellimech
ARTER
MADE cc</td></tr>
<tr><td>Specialised facilities</td><td>Business</td><td>SIG
Polymeris
BRAINPORT
DMIW</td><td>CVUT
SRC-EDIH
Intellimech
MADE cc</td></tr>
</table>

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Business development	Business	SIG Polymeris BRAINPORT DMIW MADE PBN CVUT SRC-EDIH ARTER GAIN MADE cc
Financial Engineering	Business	N/A
Connection to funding resources	Business	SIG Polymeris BRAINPORT DMIW PBN JSI SRC-EDIH Intellimech ARTER GAIN AFIL MADE cc
Innovation spaces	Business	SIG UTW Polymeris BRAINPORT DMIW PBN CVUT Intellimech MADE cc
Methods, tools, business operations modelling	Business	SIG MADE PBN SRC-EDIH MADE cc
Strategic analysis_Matchmaking	Business	SIG Polymeris BRAINPORT PBN Intellimech ARTER GAIN MADE cc
Strategic analysis _Research calls and funding opportunities	Business	SIG Polymeris BRAINPORT DMIW PBN CVUT JSI Intellimech ARTER GAIN MADE cc
Identification of Opportunities	Business	Polymeris SRC-EDIH Intellimech GAIN MADE cc
Creating consortia	Business	SIG Polymeris DMIW MADE PBN CVUT JSI Intellimech ARTER GAIN AFIL MADE cc

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Development of proposals	Business	SIG Polymeris DMIW PBN SRC-EDIH Intellimech MADE cc
Maturity Assessment	Skill	SIG UTW Polymeris MAKE BRAINPORT DMIW MADE PBN SCCH CVUT JSI SRC-EDIH Intellimech ARTER HIT GAIN DiTMAPs
Human Skill Repository	Skill	MAKE BRAINPORT SCCH SRC-EDIH GAIN 4PDIH
Human Skill Maturity	Skill	SIG SRC-EDIH GAIN
Skill Strategy Development	Skill	Polymeris SIG GAIN
Human up-skilling/ re-skilling	Skill	SIG DMIW MADE SCCH CVUT Intellimech GAIN MADE cc DiTMAPs
Educational Programs	Skill	Polymeris MAKE BRAINPORT MADE SCCH CVUT SRC-EDIH Intellimech AFIL MADE cc

Table 33, instead, presents some examples of partners who could provide OOST NL's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 33: Potential partners for OOST NL to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Scouting and Brokerage	Skills	MADE, MAKE, SRC-EDIH
Standardization and Certification	Skills	SCCH, SIG
GDPR and Data Sovereignty	Data	SCCH, BRAINPORT, SIG
Data Spaces	Data	GAIN, SIG, SCCH
Data Platforms	Data	4PDIH, PBN, DiTMAPs

5.2.7. UTW - University of Twente

According to what emerged from the Service Portfolio provided by UTW, there are **fourty-four new services that the hub would like to develop** while **five are those that could be improved** through collaborations.

The following tables summarize the potential partners with which UTW could establish collaborations aimed at developing or improving services.

Table 34: Potential partners for UTW to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners[1]**
Ecosystem Mapping and analysis	Ecosystem	MADE, HIT, JSI
Community creation (stakeholders/potential partners)	Ecosystem	MADE, HIT, CVUT, 4PDIH, JSI
Connecting suppliers & customers	Ecosystem	N/A
Collaborative innovation and problem solving	Ecosystem	DMIW, MADE cc, JSI, AFIL, AFIL, OOST NL
Technological scouting	Ecosystem	JSI
Raise awareness	Ecosystem	JSI
Share best practices	Ecosystem	MADE, JSI, CVUT
Interaction between business experts and customers/partners	Ecosystem	Polymeris, HIT, MAKE, SRC-EDIH
Trend watching	Ecosystem	JSI, MADE
Visioning and Strategy Development	Ecosystem	JSI, AFIL
Ideas Generation Assessment	Technology	SIG, HIT
Technological Readiness	Technology	JSI, DiTMAPs, TUIASI, 4PDIH
Strategic and Specific R&D	Technology	JSI
Access to infrastructure and technological platforms	Technology	AFIL
Concept Validation	Technology	N/A
Prototyping	Technology	TUIASI
Product Qualification and Certification	Technology	JSI, TUIASI

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Product Demonstration	Technology	MAKE TUIASI	
Basic facilities	Business	HIT	
Specialised facilities	Business	JSI	
Business development	Business	N/A	
Guidance	Business	MADE JSI MADE cc	HIT OOST NL
Connection to funding resources	Business	HIT	
Methods, tools, business operations modelling	Business	N/A	
Secondment	Business	MADE cc	
Strategic analysis: Matchmaking	Business	AFIL	
Strategic analysis: Research calls and funding opportunities	Business	AFIL	
Identification of Opportunities	Business	SIG MADE	HIT
Creating consortia	Business	HIT SRC-EDIH	
Development of proposals	Business	JSI	
Human Skill Repository	Skill	Polymeris MADE cc	
Human Skill Maturity	Skill	MAKE SCCH	MADE cc
Skill Strategy Development	Skill	MAKE MADE SCCH	MADE cc 4PDIH
Human up-skilling/ re-skilling	Skill	Polymeris MAKE	PBN
Educational Programs	Skill	DMIW GAIN	DiTMAPs
Scouting and Brokerage	Skill	Polymeris BRAINPORT DMIW	SCCH JSI
Data Acquisition	Data	MADE cc 4PDIH	
Data Protection	Data	4PDIH	
Data Analytics	Data	TUIASI 4PDIH	
Cognitive Big Data Architecture	Data	4PDIH	

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Collaborative Intelligence	Data	BRAINPORT CVUT PBN	JSI ARTER Intellimech
User Experience	Data	TUIASI ARTER	Intellimech MADE cc
Feedback Loop	Data	PBN CVUT MADE cc	Intellimech 4PDIH
GDPR and Data Sovereignty	Data	CVUT TUIASI	MADE cc 4PDIH

Table 35: Potential partners for UTW to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Tech concept and Development	Technology	JSI SRC-EDIH DMIW Intellimech ARTER PBN GAIN SCCH CVUT	OOST NL Polymeris MAKE TUIASI MADE cc 4PDIH DiTMAPs DiTMAPs
Innovation spaces	Business	DMIW Intellimech PBN SIG CVUT	OOST NL Polymeris BRAINPORT MADE cc
Maturity Assessment	Skill	JSI SRC-EDIH DMIW MADE Intellimech ARTER HIT PBN GAIN	SIG SCCH CVUT OOST NL Polymeris MAKE BRAINPORT DiTMAPs

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Maturity and Strategy Development	Skill	SRC-EDIH DMIW MADE PBN GAIN	SIG Polymeris BRAINPORT MADE cc
Decision Support & Development	Data	JSI DMIW Intellimech PBN GAIN SIG	SCCH CVUT MADE cc 4PDIH DiTMAPs

Table 36, instead, presents some examples of partners who could provide UTW 's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 36: Potential partners for UTW to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING[1]		
Service	**Class**	**Potential partners**
Standardization and Certification	Skills	SCCH, SIG
Data Storage	Data	SCCH, BRAINPORT, SIG
Data Spaces	Data	GAIN, SIG, SCCH
Data Platforms	Data	4PDIH, PBN, DiTMAPs

5.2.8. POLYMERIS

According to what emerged from the Service Portfolio provided by POLYMERIS, there are **four new services that the hub would like to develop,** while **thirty are those that could be improved** through collaborations.

The following tables summarize the potential partners with which POLYMERIS could establish collaborations aimed at developing or improving services.

Table 37: Potential partners for POLYMERIS to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[2]	
Interaction between business experts and customers/partners	Ecosystem	MAKE HIT	UTW SRC-EDIH
Human Skill Repository	Skill	MADE cc UTW	

1 The matchmaking opportunities have been selected according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Human up-skilling/ re-skilling	Skill	MAKE PBN	UTW
Scouting and Brokerage	Skill	UTW JSI SCCH	BRAINPORT DMIW

Table 38: Potential partners for POLYMERIS to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Ecosystem Mapping and analysis	Ecosystem	SIG GAIN AFIL Intellimech OOST NL	MADE cc DMIW BRAINPORT 4PDIH
Community creation	Ecosystem	SIG GAIN MAKE AFIL Intellimech ARTER	OOST NL MADE cc DMIW PBN BRAINPORT SRC-EDIH
Connecting suppliers & customers	Ecosystem	SIG GAIN MAKE AFIL MADE Intellimech	OOST NL MADE cc JSI DMIW BRAINPORT SRC-EDIH
Collaborative innovation and problem solving	Ecosystem	SIG MADE ARTER	HIT SRC-EDIH
Raise awareness	Ecosystem	SIG GAIN MAKE AFIL MADE Intellimech ARTER HIT	CVUT OOST NL MADE cc DMIW PBN SRC-EDIH 4PDIH
Share best practices	Ecosystem	SIG GAIN MAKE AFIL Intellimech OOST NL	MADE cc DMIW PBN BRAINPORT SRC-EDIH 4PDIH

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Trend watching	Ecosystem	SIG GAIN MAKE AFIL Intellimech OOST NL MADE cc 4PDIH
Services Impact Assessment (KPIs)	Ecosystem	SIG MADE OOST NL MADE cc SRC-EDIH
Ecosystem Strategy within and between DIHs	Ecosystem	SIG GAIN AFIL MADE OOST NL MADE cc SRC-EDIH DiTMAPs
Ideas Generation Assessment	Technology	GAIN MAKE AFIL Intellimech ARTER MADE cc JSI PBN SCCH TUIASI SRC-EDIH 4PDIH DiTMAPs
Strategic and Specific R&D	Technology	GAIN MAKE AFIL Intellimech ARTER HIT CVUT MADE cc DMIW PBN SCCH TUIASI DiTMAPs
Tech concept and Development	Technology	GAIN MAKE Intellimech ARTER CVUT OOST NL MADE cc JSI DMIW PBN SCCH UTW TUIASI SRC-EDIH 4PDIH DiTMAPs
Access to infrastructure and technological platforms	Technology	GAIN MAKE ARTER CVUT OOST NL MADE cc JSI DMIW SCCH BRAINPORT TUIASI SRC-EDIH 4PDIH DiTMAPs

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Concept Validation	Technology	GAIN MAKE Intellimech OOST NL MADE cc JSI PBN SCCH BRAINPORT TUIASI 4PDIH
Prototyping	Technology	GAIN MAKE Intellimech ARTER CVUT OOST NL MADE cc JSI DMIW PBN SCCH SRC-EDIH 4PDIH DiTMAPs
Product Demonstration	Technology	GAIN Intellimech CVUT OOST NL MADE cc DMIW PBN SCCH BRAINPORT SRC-EDIH DiTMAPs
Specialised facilities	Business	SIG Intellimech CVUT OOST NL MADE cc DMIW BRAINPORT SRC-EDIH
Business development	Business	SIG GAIN MADE ARTER CVUT OOST NL MADE cc DMIW PBN BRAINPORT SRC-EDIH
Financial Engineering	Business	MADE OOST NL MADE cc BRAINPORT
Connection to funding resources	Business	SIG GAIN AFIL Intellimech ARTER OOST NL MADE cc JSI DMIW PBN BRAINPORT SRC-EDIH
Innovation spaces	Business	SIG Intellimech CVUT OOST NL MADE cc DMIW PBN UTW BRAINPORT

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Strategic analysis_Matchmaking	Business	SIG GAIN Intellimech ARTER	OOST NL MADE cc PBN
Strategic analysis _Research calls and funding opportunities	Business	SIG GAIN Intellimech ARTER CVUT OOST NL	MADE cc JSI DMIW PBN BRAINPORT
Identification of Opportunities	Business	GAIN Intellimech OOST NL	MADE cc SRC-EDIH
Creating consortia	Business	SIG GAIN AFIL MADE Intellimech ARTER	CVUT OOST NL MADE cc JSI DMIW PBN
Development of proposals	Business	SIG Intellimech MADE cc OOST NL	MADE cc DMIW PBN SRC-EDIH
Maturity Assessment	Skill	SIG GAIN MAKE MADE Intellimech ARTER HIT CVUT OOST NL	JSI DMIW PBN SCCH UTW BRAINPORT SRC-EDIH DiTMAPs
Maturity and Strategy Development	Skill	SIG GAIN MADE MADE cc DMIW	PBN UTW BRAINPORT SRC-EDIH
Skill Strategy Development	Skill	SIG GAIN	OOST NL

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Educational Programs	Skill	MAKE, OOST NL, AFIL, MADE cc, MADE, SCCH, Intellimech, BRAINPORT, CVUT, SRC-EDIH

Table 39, instead, presents some examples of partners who could provide POLYMERIS's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 39: Potential partners for POLYMERIS to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Human Skill Maturity	Business	SRC-EDIH, OOST NL, GAIN
Standardization and Certification	Business	SCCH, SIG
Decision Support & Development	Data	JSI, 4PDIH, PBN
Collaborative Intelligence	Data	DMIW, TUIASI, SIG
User Experience	Data	4PDIH, PBN, SCCH

5.2.9. HIT - Hub Innovazione Trentino

According to what emerged from the Service Portfolio provided by HIT, there are **ten new services that the hub would like to develop** while **four are those that could be improved** through collaborations.

The following tables summarize the potential partners with which HIT could establish collaborations aimed at developing or improving services.

Table 40: Potential partners for HIT to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners[1]**
Ecosystem Mapping and analysis	Ecosystem	JSI, UTW, MADE
Community creation (stakeholders/potential partners)	Ecosystem	JSI, CVUT, MADE, UTW, 4PDIH
Interaction between business experts and customers/partners	Ecosystem	Polymeris, MAKE, SRC-EDIH, UTW
Ideas Generation Assessment	Technology	UTW, SIG
Basic facilities	Business	UTW
Guidance	Business	MADE cc, OOST NL, JSI, UTW, MADE

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Connection to funding resources	Business	UTW	
Innovation spaces	Business	AFIL SRC-EDIH	GAIN
Identification of Opportunities	Business	MADE UTW	SIG
Creating consortia	Business	UTW SRC-EDIH	

Table 41: Potential partners for HIT to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Collaborative innovation and problem solving	Ecosystem	ARTER Polymeris SRC-EDIH	MADE SIG
Raise awareness	Ecosystem	ARTER Polymeris AFIL MADE cc SRC-EDIH MADE Intellimech 4PDIH	DMIW GAIN CVUT OOST NL MAKE PBN SIG
Strategic and Specific R&D	Technology	ARTER Polymeris AFIL MADE cc DiTMAPs Intellimech SCCH	DMIW GAIN CVUT MAKE PBN TUIASI
Maturity Assessment	Skill	ARTER Polymeris DiTMAPs JSI SRC-EDIH MADE Intellimech SCCH DMIW	GAIN CVUT OOST NL UTW MAKE PBN SIG BRAINPORT

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Table 42, instead, presents some examples of partners who could provide HIT's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 42: Potential partners for HIT to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Scouting and Brokerage	Skills	SRC-EDIH, MADE, MAKE
Standardization and Certification	Skills	SCCH, SIG
Data Acquisition	Data	CVUT, SCCH, DMIW
Data Protection	Data	JSI, TUAISI, GAIN
Data Storage	Data	CVUT; Intellimech, GAIN

5.2.10. ART-ER

According to what emerged from the Service Portfolio provided by ART-ER, there are **three new services that the hub would like to develop** while **twenty are those that could be improved** through collaborations.

The following tables summarize the potential partners with which ART-ER could establish collaborations aimed at developing or improving services.

Table 43: Potential partners for ART-ER to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Collaborative Intelligence	Data	JSI CVUT UTW	Intellimech PBN BRAINPORT
User Experience	Data	TUIASI UTW	Intellimech MADE cc
Data Platforms	Data	JSI CVUT	MADE cc

Table 44: Potential partners for ART-ER to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Community creation	Ecosystem	AFIL SRC-EDIH Polymeris GAIN SIG Intellimech	MAKE MADE cc PBN OOST NL DMIW BRAINPORT

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Collaborative innovation and problem solving	Ecosystem	SRC-EDIH HIT Polymeris	SIG MADE
Technological scouting	Ecosystem	SRC-EDIH GAIN SIG Intellimech MAKE	MADE cc PBN OOST NL DMIW
Raise awareness	Ecosystem	AFIL SRC-EDIH HIT Polymeris GAIN SIG CVUT 4PDIH	MADE Intellimech MAKE MADE cc PBN OOST NL DMIW
Communication_experts & customers/partners	Ecosystem	AFIL JSI GAIN SIG MADE	Intellimech MADE cc OOST NL DMIW
Ideas Generation Assessment	Technology	AFIL 4PDIH DiTMAPs JSI SRC-EDIH Polymeris GAIN	MAKE TUIASI MADE cc Intellimech SCCH PBN
Technological Readiness	Technology	SRC-EDIH GAIN CVUT Intellimech SCCH	MADE cc OOST NL DMIW BRAINPORT
Strategic and Specific R&D	Technology	AFIL HIT Polymeris GAIN CVUT DiTMAPs Intellimech	SCCH MAKE TUIASI MADE cc PBN DMIW

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Tech concept and Development	Technology	JSI SRC-EDIH Polymeris GAIN CVUT 4PDIH DiTMAPs Intellimech	SCCH UTW MAKE TUIASI MADE cc PBN OOST NL DMIW
Access to infrastructure and technological platforms	Technology	JSI SRC-EDIH Polymeris GAIN CVUT 4PDIH DiTMAPs DiTMAPs	SCCH MAKE TUIASI MADE cc OOST NL DMIW BRAINPORT
Concept Validation	Technology	JSI Polymeris GAIN 4PDIH Intellimech SCCH MAKE	TUIASI MADE cc PBN OOST NL BRAINPORT
Prototyping	Technology	JSI SRC-EDIH Polymeris GAIN CVUT 4PDIH DiTMAPs	Intellimech SCCH MAKE MADE cc PBN OOST NL DMIW
Basic facilities	Business	SRC-EDIH SIG CVUT Intellimech	MADE cc OOST NL DMIW BRAINPORT
Business development	Business	SRC-EDIH Polymeris GAIN SIG CVUT MADE	MADE cc PBN OOST NL DMIW BRAINPORT

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Connection to funding resources	Business	AFIL JSI SRC-EDIH Polymeris GAIN SIG	Intellimech MADE cc PBN OOST NL DMIW BRAINPORT
Strategic analysis_Matchmaking	Business	Polymeris GAIN SIG Intellimech	MADE cc PBN OOST NL BRAINPORT
Strategic analysis _Research calls and funding opportunities	Business	JSI Polymeris GAIN SIG CVUT Intellimech	MADE cc PBN OOST NL DMIW BRAINPORT
Creating consortia	Business	AFIL JSI Polymeris GAIN SIG CVUT	MADE Intellimech MADE cc PBN OOST NL DMIW
Maturity Assessment	Skill	SIG CVUT DiTMAPs JSI SRC-EDIH HIT Polymeris GAIN SCCH	UTW MAKE MADE Intellimech OOST NL PBN BRAINPORT DMIW
Scouting and Brokerage	Skill	AFIL SRC-EDIH GAIN SIG	MADE Intellimech MAKE MADE cc

Table 45, instead, presents some examples of partners who could provide ART-ER's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 45: Potential partners for ART-ER to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Innovation spaces	Ecosystem	PBN, CVUT, Polymeris

Identification of Opportunities	Ecosystem	Intellimech, MADE cc, OOST NL
Development of proposals	Data	Intellimech, DMIW, OOST NL
Data Acquisition	Data	CVUT, SCCH, TUAISI
Data Protection	Data	JSI, TUAISI, GAIN

5.2.11. FLANDERS MAKE

According to what emerged from the Service Portfolio provided by FLANDERS MAKE, there are **nine new services that the hub would like to develop** while **fourteen are those that could be improved** through collaborations.

The following tables summarize the potential partners with which FLANDERS MAKE could establish collaborations aimed at developing or improving services.

Table 46: Potential partners for FLANDERS MAKE to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Collaborative innovation and problem solving	Ecosystem	UTW AFIL OOST NL	DMIW JSI MADE cc
Interaction between business experts and customers/partners	Ecosystem	Polymeris UTW	HIT SRC-EDIH
Services Impact Assessment (KPIs)	Ecosystem	JSI GAIN	
Ecosystem Strategy within and between DIHs	Ecosystem	N/A	
Product Demonstration	Technology	UTW TUIASI	
Maturity and Strategy Development	Skill	CVUT SCCH DiTMAPs	JSI 4PDIH
Human Skill Maturity	Skill	UTW SCCH	MADE cc
Skill Strategy Development	Skill	UTW SCCH MADE	MADE cc 4PDIH
Human up-skilling/ re-skilling	Skill	Polymeris UTW	PBN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Table 47: Potential partners for FLANDERS MAKE to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Community creation	Ecosystem	SIG Polymeris BRAINPORT OOST NL AFIL DMIW	Intellimech ARTER SRC-EDIH PBN GAIN MADE cc
Connecting suppliers & customers	Ecosystem	SIG Polymeris BRAINPORT OOST NL AFIL DMIW	MADE Intellimech JSI SRC-EDIH GAIN MADE cc
Technological scouting	Ecosystem	SIG OOST NL DMIW Intellimech ARTER	SRC-EDIH PBN GAIN MADE cc
Raise awareness	Ecosystem	SIG Polymeris CVUT OOST NL AFIL DMIW MADE Intellimech	ARTER SRC-EDIH HIT PBN GAIN MADE cc 4PDIH
Share best practices	Ecosystem	SIG Polymeris BRAINPORT OOST NL AFIL DMIW	Intellimech SRC-EDIH PBN GAIN MADE cc 4PDIH
Trend watching	Ecosystem	SIG Polymeris OOST NL AFIL	Intellimech GAIN MADE cc 4PDIH

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Ideas Generation Assessment	Technology	Polymeris AFIL TUIASI Intellimech SCCH ARTER DiTMAPs JSI SRC-EDIH PBN GAIN MADE cc 4PDIH
Strategic and Specific R&D	Technology	Polymeris CVUT AFIL TUIASI DMIW Intellimech SCCH ARTER DiTMAPs HIT PBN GAIN MADE cc
Tech concept and Development	Technology	Polymeris UTW CVUT OOST NL TUIASI DMIW Intellimech SCCH ARTER DiTMAPs JSI SRC-EDIH PBN GAIN MADE cc 4PDIH
Access to infrastructure and technological platforms	Technology	Polymeris BRAINPORT CVUT OOST NL TUIASI DMIW SCCH ARTER DiTMAPs JSI SRC-EDIH GAIN MADE cc 4PDIH
Concept Validation	Technology	Polymeris BRAINPORT OOST NL TUIASI Intellimech SCCH ARTER JSI PBN GAIN MADE cc 4PDIH
Prototyping	Technology	Polymeris CVUT OOST NL DMIW Intellimech SCCH ARTER DiTMAPs JSI SRC-EDIH PBN GAIN MADE cc 4PDIH

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Maturity Assessment	Skill	SIG, SCCH, Polymeris, ARTER, UTW, DiTMAPs, BRAINPORT, JSI, CVUT, SRC-EDIH, OOST NL, HIT, DMIW, PBN, MADE, GAIN, Intellimech
Human Skill Repository	Skill	BRAINPORT, SRC-EDIH, OOST NL, GAIN, SCCH, 4PDIH
Educational Programs	Skill	Polymeris, MADE, BRAINPORT, Intellimech, CVUT, SCCH, OOST NL, SRC-EDIH, AFIL, MADE cc
Scouting and Brokerage	Skill	SIG, ARTER, AFIL, SRC-EDIH, MADE, GAIN, Intellimech, MADE cc

Table 48, instead, presents some examples of partners who could provide FLANDERS MAKE's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 48: Potential partners for FLANDERS MAKE to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Ecosystem Mapping and analysis	Ecosystem	BRAINPORT, DMIW, Polymeris
Strategic analysis: Research calls and funding opportunities	Business	PBN, CVUT, JSI
Identification of Opportunities	Business	SRC-EDIH, Intellimech, OOST NL
Data Spaces	Data	SCCH, SIG, GAIN
Data Platforms	Data	Intellimech, TUIASI, DiTMAPs

5.2.12. GAIN – The Galician Innovation Agency

According to what emerged from the Service Portfolio provided by GAIN, there are **three new services that the hub would like to develop** while **thirty-seven are those that could be improved** through collaborations.

The following tables summarize the potential partners with which GAIN could establish collaborations aimed at developing or improving services.

Table 49: Potential partners for GAIN to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Services Impact Assessment (KPIs)	Ecosystem	JSI MAKE	
Innovation spaces	Business	AFIL HIT	SRC-EDIH
Educational Programs	Skill	UTW DMIW	DiTMAPs

Table 50: Potential partners for GAIN to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Ecosystem Mapping and analysis	Ecosystem	Polymeris SIG AFIL 4PDIH Intellimech	OOST NL MADE cc DMIW BRAINPORT
Community creation	Ecosystem	Polymeris SIG ARTER PBN AFIL SRC-EDIH	Intellimech MAKE OOST NL MADE cc DMIW BRAINPORT
Connecting suppliers & customers	Ecosystem	Polymeris SIG AFIL JSI SRC-EDIH MADE	Intellimech MAKE OOST NL MADE cc DMIW BRAINPORT
Technological scouting	Ecosystem	SIG ARTER PBN SRC-EDIH Intellimech	MAKE OOST NL MADE cc DMIW

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Raise awareness	Ecosystem	Polymeris SIG CVUT ARTER PBN AFIL 4PDIH SRC-EDIH	MADE Intellimech HIT MAKE OOST NL MADE cc DMIW
Share best practices	Ecosystem	Polymeris SIG PBN AFIL 4PDIH SRC-EDIH	Intellimech MAKE OOST NL MADE cc DMIW BRAINPORT
Communication_experts & customers/partners	Ecosystem	SIG ARTER AFIL JSI MADE	Intellimech OOST NL MADE cc DMIW
Trend watching	Ecosystem	Polymeris SIG AFIL 4PDIH	Intellimech MAKE OOST NL MADE cc
Visioning and Strategy Development	Ecosystem	SIG PBN MADE	Intellimech MADE cc BRAINPORT
Ecosystem Strategy within and between DIHs	Ecosystem	Polymeris SIG AFIL SRC-EDIH	MADE OOST NL MADE cc DiTMAPs
Ideas Generation Assessment	Technology	Polymeris ARTER PBN AFIL 4PDIH JSI SRC-EDIH	Intellimech MAKE TUIASI MADE cc SCCH DiTMAPs
Technological Readiness	Technology	CVUT ARTER SRC-EDIH Intellimech OOST NL	MADE cc DMIW SCCH BRAINPORT

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Strategic and Specific R&D	Technology	Polymeris CVUT ARTER PBN AFIL Intellimech HIT MAKE TUIASI MADE cc DMIW SCCH DiTMAPs
Tech concept and Development	Technology	Polymeris CVUT ARTER PBN 4PDIH JSI SRC-EDIH Intellimech MAKE OOST NL UTW TUIASI MADE cc DMIW SCCH DiTMAPs
Access to infrastructure and technological platforms	Technology	Polymeris CVUT ARTER 4PDIH JSI SRC-EDIH MAKE OOST NL TUIASI MADE cc DMIW SCCH BRAINPORT DiTMAPs
Concept Validation	Technology	Polymeris ARTER PBN 4PDIH JSI Intellimech MAKE OOST NL TUIASI MADE cc SCCH BRAINPORT
Prototyping	Technology	Polymeris CVUT ARTER PBN 4PDIH JSI SRC-EDIH Intellimech MAKE OOST NL MADE cc DMIW SCCH DiTMAPs
Product Demonstration	Technology	Polymeris CVUT PBN SRC-EDIH Intellimech OOST NL MADE cc DMIW SCCH BRAINPORT DiTMAPs

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Business development	Business	Polymeris SIG CVUT ARTER PBN SRC-EDIH MADE OOST NL MADE cc DMIW BRAINPORT
Connection to funding resources	Business	Polymeris SIG ARTER PBN AFIL JSI SRC-EDIH Intellimech OOST NL MADE cc DMIW BRAINPORT
Strategic analysis_Matchmaking	Business	Polymeris SIG ARTER PBN Intellimech OOST NL MADE cc BRAINPORT
Strategic analysis _Research calls and funding opportunities	Business	Polymeris SIG CVUT ARTER PBN JSI Intellimech OOST NL MADE cc DMIW BRAINPORT
Identification of Opportunities	Business	Polymeris SRC-EDIH Intellimech OOST NL MADE cc
Creating consortia	Business	Polymeris SIG CVUT ARTER PBN AFIL JSI MADE Intellimech OOST NL MADE cc DMIW
Maturity Assessment	Skill	Polymeris SIG CVUT ARTER PBN JSI SRC-EDIH MADE Intellimech HIT MAKE OOST NL UTW DMIW SCCH BRAINPORT DiTMAPs

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Maturity and Strategy Development	Skill	Polymeris SIG PBN SRC-EDIH MADE	UTW MADE cc DMIW BRAINPORT
Human Skill Repository	Skill	UTW MADE cc DMIW BRAINPORT	OOST NL SCCH BRAINPORT
Human Skill Maturity	Skill	SIG SRC-EDIH	OOST NL
Skill Strategy Development	Skill	Polymeris SIG	OOST NL
Human up-skilling/ re-skilling	Skill	SIG CVUT MADE Intellimech OOST NL	MADE cc DMIW SCCH DiTMAPs
Scouting and Brokerage	Skill	SIG ARTER AFIL SRC-EDIH	MADE Intellimech MAKE MADE cc
Data Acquisition	Data	CVUT SRC-EDIH Intellimech TUIASI	DMIW SCCH DiTMAPs
Data Protection	Data	JSI SRC-EDIH	TUIASI SCCH
Data Storage	Data	CVUT Intellimech	SCCH DiTMAPs
Data Analytics	Data	SIG CVUT PBN JSI	SRC-EDIH Intellimech SCCH
Decision Support & Development	Data	SIG CVUT PBN 4PDIH JSI Intellimech	UTW MADE cc DMIW SCCH DiTMAPs
Data Spaces	Data	SIG 4PDIH	SCCH

Table 51, instead, presents some examples of partners who could provide GAIN's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 51: Potential partners for GAIN to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Collaborative innovation and problem solving	Ecosystem	SRC-EDIH, HIT, Polymeris
Basic facilities	Business	CVUT, BRAINPORT, DMIW
Guidance	Business	SRC-EDIH, BRAINPORT, SIG
Development of proposals	Business	PBN, Polymeris, DMIW
Standardization and Certification	Business	SIG, SCCH

5.2.13. MADE cc - MADE Competence Center Industry 4.0

According to what emerged from the Service Portfolio provided by MADE cc, there are **thirteen new services that the hub would like to develop** while **thirty-seven are those that could be improved** through collaborations.

The following tables summarize the potential partners with which MADE cc could establish collaborations aimed at developing or improving services.

Table 52: Potential partners for MADE cc to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Collaborative innovation and problem solving	Ecosystem	JSI AFIL OOST NL	DMIW UTW MAKE
Guidance	Business	JSI HIT MADE	OOST NL UTW
Secondment	Business	UTW	
Human Skill Repository	Skill	Polymeris UTW	
Human Skill Maturity	Skill	SCCH UTW	MAKE
Skill Strategy Development	Skill	SCCH 4PDIH MADE	UTW MAKE
Data Acquisition	Data	UTW 4PDIH	
Data Storage	Data	JSI 4PDIH	BRAINPORT TUIASI

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners[1]**
User Experience	Data	Intellimech, TUIASI, ARTER, UTW
Feedback Loop	Data	Intellimech, PBN, 4PDIH, UTW, CVUT
GDPR and Data Sovereignty	Data	4PDIH, TUIASI, CVUT, UTW
Data Spaces	Data	JSI, TUIASI, CVUT
Data Platforms	Data	JSI, ARTER, CVUT

Table 53: Potential partners for MADE cc to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Ecosystem Mapping and analysis	Ecosystem	Intellimech, SIG, Polymeris, OOST NL, AFIL, BRAINPORT, 4PDIH, GAIN, DMIW
Community creation	Ecosystem	SRC-EDIH, PBN, Intellimech, MAKE, Polymeris, SIG, AFIL, OOST NL, ARTER, BRAINPORT, DMIW, GAIN
Connecting suppliers & customers	Ecosystem	JSI, DMIW, SRC-EDIH, MAKE, Intellimech, SIG, Polymeris, OOST NL, AFIL, BRAINPORT, MADE, GAIN
Technological scouting	Ecosystem	SRC-EDIH, MAKE, Intellimech, SIG, ARTER, OOST NL, DMIW, GAIN, PBN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Raise awareness	Ecosystem	SRC-EDIH Intellimech HIT Polymeris AFIL 4PDIH MADE CVUT ARTER DMIW PBN MAKE SIG OOST NL GAIN
Share best practices	Ecosystem	SRC-EDIH Intellimech Polymeris AFIL 4PDIH DMIW PBN MAKE SIG OOST NL BRAINPORT GAIN
Communication_experts & customers/partners	Ecosystem	JSI Intellimech AFIL MADE ARTER DMIW SIG OOST NL GAIN
Trend watching	Ecosystem	Intellimech Polymeris AFIL 4PDIH MAKE SIG OOST NL GAIN
Visioning and Strategy Development	Ecosystem	Intellimech MADE PBN SIG BRAINPORT GAIN
Services Impact Assessment (KPIs)	Ecosystem	SRC-EDIH Polymeris MADE SIG OOST NL
Ecosystem Strategy within and between DIHs	Ecosystem	SRC-EDIH Polymeris AFIL DiTMAPs MADE SIG OOST NL GAIN
Ideas Generation Assessment	Technology	JSI SRC-EDIH Intellimech Polymeris SCCH AFIL 4PDIH DiTMAPs ARTER PBN MAKE TUIASI GAIN

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Technological Readiness	Technology	SRC-EDIH Intellimech SCCH CVUT ARTER DMIW OOST NL BRAINPORT GAIN
Strategic and Specific R&D	Technology	Intellimech HIT Polymeris SCCH AFIL DiTMAPs CVUT ARTER DMIW PBN MAKE TUIASI GAIN
Tech concept and Development	Technology	JSI SRC-EDIH Intellimech Polymeris SCCH 4PDIH DiTMAPs CVUT ARTER DMIW PBN MAKE OOST NL UTW TUIASI GAIN
Access to infrastructure and technological platforms	Technology	JSI SRC-EDIH Polymeris SCCH 4PDIH DiTMAPs CVUT ARTER DMIW MAKE OOST NL BRAINPORT TUIASI GAIN
Concept Validation	Technology	JSI Intellimech Polymeris SCCH 4PDIH ARTER PBN MAKE OOST NL BRAINPORT TUIASI GAIN
Prototyping	Technology	JSI SRC-EDIH Intellimech Polymeris SCCH 4PDIH DiTMAPs CVUT ARTER DMIW PBN MAKE OOST NL GAIN

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Product Demonstration	Technology	SRC-EDIH Intellimech Polymeris SCCH DiTMAPs CVUT	DMIW PBN OOST NL BRAINPORT GAIN
Basic facilities	Business	SRC-EDIH Intellimech CVUT ARTER	DMIW SIG OOST NL BRAINPORT
Specialised facilities	Business	SRC-EDIH Intellimech Polymeris CVUT	DMIW SIG OOST NL BRAINPORT
Business development	Business	SRC-EDIH Polymeris MADE CVUT ARTER DMIW	PBN SIG OOST NL BRAINPORT GAIN
Financial Engineering	Business	SRC-EDIH Intellimech Polymeris	OOST NL GAIN
Connection to funding resources	Business	JSI Intellimech Polymeris AFIL MADE CVUT	ARTER DMIW PBN SIG OOST NL GAIN
Innovation spaces	Skill	Intellimech Polymeris CVUT DMIW PBN	SIG OOST NL UTW BRAINPORT
Methods, tools, business operations modelling	Skill	SRC-EDIH MADE PBN	SIG OOST NL
Strategic analysis_Matchmaking	Skill	Intellimech Polymeris ARTER PBN	SIG OOST NL BRAINPORT GAIN

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Strategic analysis _Research calls and funding opportunities	Skill	JSI Intellimech Polymeris CVUT ARTER DMIW PBN SIG OOST NL BRAINPORT GAIN
Identification of Opportunities	Skill	SRC-EDIH Intellimech Polymeris OOST NL GAIN
Creating consortia	Skill	JSI Intellimech Polymeris AFIL MADE CVUT ARTER DMIW PBN SIG OOST NL GAIN
Development of proposals	Skill	SRC-EDIH Intellimech Polymeris DMIW PBN SIG OOST NL
Maturity Assessment	Skill	JSI SRC-EDIH Intellimech HIT Polymeris SCCH DiTMAPs MADE CVUT ARTER DMIW PBN MAKE SIG OOST NL UTW BRAINPORT
Maturity and Strategy Development	Skill	SRC-EDIH Polymeris MADE DMIW PBN SIG UTW BRAINPORT GAIN
Human up-skilling/ re-skilling	Skill	Intellimech SCCH DiTMAPs MADE CVUT DMIW SIG OOST NL GAIN
Educational Programs	Skill	SRC-EDIH Intellimech Polymeris SCCH AFIL MADE CVUT MAKE OOST NL BRAINPORT

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Scouting and Brokerage	Skill	SRC-EDIH, ARTER Intellimech, MAKE AFIL, SIG MADE, GAIN
Decision Support & Development	Data	JSI, DMIW Intellimech, PBN SCCH, SIG 4PDIH, UTW DiTMAPs, GAIN CVUT
Collaborative Intelligence	Data	SRC-EDIH, DMIW SCCH, SIG 4PDIH, TUIASI

Table 54, instead, presents some examples of partners who could provide MADE cc's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 54: Potential partners for MADE cc to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Ideas Generation Assessment	Technology	JSI, 4PDIH, SRC-EDIH
Strategic and Specific R&D	Technology	PBN, CVUT, SCCH CCH, SIG
Basic facilities	Business	BRAINPORT, DMIW, OOST NL
Standardization and Certification	Business	SCCH, SIG
Data Acquisition	Data	DMIW, TUIASI, DiTMAPs

5.2.14. TUIASI - Technical University Gheorghe Asachi Iasi (EDIH-DIZ)

According to what emerged from the Service Portfolio provided by TUIASI, there are **ten new services that the hub would like to develop** while **eleven are those that could be improved** through collaborations.

The following tables summarize the potential partners with which TUIASI could establish collaborations aimed at developing or improving services.

Table 55: Potential partners for TUIASI to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners[1]**
Technological Readiness	Technology	DiTMAPs, UTW JSI, 4PDIH
Prototyping	Technology	UTW

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Product Qualification and Certification	Technology	JSI UTW	
Product Demonstration	Technology	UTW MAKE	
Data Storage	Data	JSI 4PDIH	BRAINPORT MADE cc
Data Analytics	Data	UTW 4PDIH	
Decision Support & Development	Data	OOST NL	
User Experience	Data	UTW ARTER	Intellimech MADE cc
GDPR and Data Sovereignty	Data	CVUT UTW	4PDIH MADE cc
Data Spaces	Data	CVUT JSI	MADE cc

Table 56: Potential partners for TUIASI to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Ideas Generation Assessment	Technology	DiTMAPs AFIL JSI SRC-EDIH PBN MAKE 4PDIH	Intellimech Polymeris SCCH ARTER MADE cc GAIN
Strategic and Specific R&D	Technology	CVUT DiTMAPs AFIL PBN MAKE Intellimech Polymeris	SCCH ARTER DMIW MADE cc GAIN HIT

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Tech concept and Development	Technology	CVUT DiTMAPs JSI SRC-EDIH PBN MAKE UTW 4PDIH	Intellimech Polymeris SCCH ARTER DMIW OOST NL MADE cc GAIN
Access to infrastructure and technological platforms	Technology	CVUT DiTMAPs JSI SRC-EDIH MAKE 4PDIH Polymeris	SCCH ARTER BRAINPORT DMIW OOST NL MADE cc GAIN
Concept Validation	Technology	JSI PBN MAKE 4PDIH Intellimech Polymeris	SCCH ARTER BRAINPORT OOST NL MADE cc GAIN
Data Acquisition	Data	CVUT DiTMAPs SRC-EDIH Intellimech	SCCH DMIW GAIN
Data Protection	Data	JSI SRC-EDIH	SCCH GAIN
Cognitive Big Data Architecture	Data	CVUT SIG	Intellimech SCCH
Collaborative Intelligence	Data	SRC-EDIH SIG 4PDIH	SCCH DMIW MADE cc
Feedback Loop	Data	SCCH	DMIW
Data Platforms	Data	DiTMAPs PBN 4PDIH	Intellimech SCCH

Table 57, instead, presents some examples of partners who could provide TUIASI's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 57: Potential partners for TUIASI to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**

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Maturity Assessment	Skills	JSI, 4PDIH, SRC-EDIH
Maturity and Strategy Development	Skills	SRC-EDIH, PBN, Polymeris
Human Skill Repository	Skills	MAKE, BRAINPORT, OOST NL
Human Skill Maturity	Skills	GAIN, SIG, OOST NL
Skill Strategy Development	Skills	OOST NL, GAIN, SIG

5.2.15. Czech Technical University in Prague (CVUT)

According to what emerged from the Service Portfolio provided by CVUT, there are **eight new services that the hub would like to develop** while **twenty-two are those that could be improved** through collaborations.

The following tables summarize the potential partners with which CVUT could establish collaborations aimed at developing or improving services.

Table 58: Potential partners for CVUT to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Community creation (stakeholders/potential partners)	Ecosystem	JSI MADE UTW	HIT 4PDIH
Share best practices	Ecosystem	JSI MADE	UTW
Maturity and Strategy Development	Skill	JSI SCCH DiTMAPs	MAKE 4PDIH
Collaborative Intelligence	Data	JSI PBN ARTER	BRAINPORT UTW Intellimech
Feedback Loop	Data	PBN MADE cc UTW	Intellimech 4PDIH
GDPR and Data Sovereignty	Data	TUIASI MADE cc	UTW 4PDIH
Data Spaces	Data	JSI TUIASI	MADE cc
Data Platforms	Data	JSI ARTER	MADE cc

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Table 59: Potential partners for CVUT to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Raise awareness	Ecosystem	MADE AFIL SRC-EDIH PBN MAKE SIG 4PDIH Intellimech	Polymeris ARTER DMIW OOST NL MADE cc GAIN HIT
Technological Readiness	Technology	SRC-EDIH Intellimech SCCH ARTER BRAINPORT	DMIW OOST NL MADE cc GAIN
Strategic and Specific R&D	Technology	DiTMAPs AFIL PBN MAKE Intellimech Polymeris SCCH	ARTER DMIW MADE cc GAIN HIT TUIASI
Tech concept and Development	Technology	DiTMAPs SRC-EDIH PBN MAKE UTW 4PDIH JSI Intellimech	Polymeris SCCH ARTER DMIW OOST NL MADE cc GAIN TUIASI
Access to infrastructure and technological platforms	Technology	DiTMAPs Intellimech PBN MAKE 4PDIH Polymeris SCCH	ARTER BRAINPORT OOST NL MADE cc GAIN TUIASI

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Prototyping	Technology	DiTMAPs SRC-EDIH PBN MAKE 4PDIH JSI Intellimech Polymeris SCCH ARTER DMIW OOST NL MADE cc GAIN
Product Demonstration	Technology	SRC-EDIH PBN Intellimech Polymeris SCCH BRAINPORT DMIW OOST NL MADE cc GAIN
Basic facilities	Business	SRC-EDIH SIG Intellimech ARTER BRAINPORT DMIW OOST NL MADE cc
Specialised facilities	Business	SRC-EDIH SIG Intellimech Polymeris BRAINPORT DMIW OOST NL MADE cc
Business development	Business	MADE SRC-EDIH PBN SIG Polymeris ARTER BRAINPORT DMIW OOST NL MADE cc GAIN
Innovation spaces	Business	PBN SIG UTW Intellimech Polymeris BRAINPORT DMIW OOST NL MADE cc
Secondment	Business	SIG
Strategic analysis _Research calls and funding opportunities	Business	PBN SIG JSI Intellimech Polymeris ARTER BRAINPORT DMIW OOST NL MADE cc GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Creating consortia	Business	MADE AFIL PBN SIG JSI Intellimech	Polymeris ARTER DMIW OOST NL MADE cc GAIN
Maturity Assessment	Skill	MADE DiTMAPs SRC-EDIH PBN MAKE SIG UTW JSI	Intellimech Polymeris SCCH ARTER BRAINPORT DMIW OOST NL HIT
Human up-skilling/ re-skilling	Skill	MADE SIG Intellimech SCCH	DMIW OOST NL MADE cc GAIN
Educational Programs	Skill	MADE AFIL SRC-EDIH MAKE Intellimech	Polymeris SCCH BRAINPORT OOST NL MADE cc
Data Acquisition	Data	SRC-EDIH Intellimech SCCH	DMIW GAIN TUIASI
Data Storage	Data	Intellimech SCCH	GAIN
Data Analytics	Data	SRC-EDIH PBN SIG JSI	Intellimech SCCH GAIN
Cognitive Big Data Architecture	Data	Intellimech SIG	SCCH TUIASI
Decision Support & Development	Data	PBN SIG UTW 4PDIH JSI	Intellimech SCCH DMIW MADE cc GAIN

Table 60, instead, presents some examples of partners who could provide CVUT's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 60: Potential partners for CVUT to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Technological scouting	Ecosystem	SRC-EDIH, PBN, MADE
Interaction between business experts and customers/partners	Ecosystem	JSI, MADE, DMIW
Ideas Generation Assessment	Technology	JSI, 4PDIH, SCCH
Concept Validation	Technology	Polymeris, MAKE, BRAINPORT
Product Qualification and Certification	Technology	SCCH

5.2.16. MADE - Manufacturing Academy of Denmark

According to what emerged from the Service Portfolio provided by MADE, there are **seven new services that the hub would like to develop** while **sixteen are those that could be improved** through collaborations.

The following tables summarize the potential partners with which MADE could establish collaborations aimed at developing or improving services.

Table 61: Potential partners for MADE to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Ecosystem Mapping and analysis	Ecosystem	UTW HIT	JSI
Community creation (stakeholders/potential partners)	Ecosystem	CVUT UTW HIT	JSI 4PDIH
Share best practices	Ecosystem	CVUT UTW	JSI
Trend watching	Ecosystem	UTW	JSI
Guidance	Business	UTW OOST NL HIT	MADE cc JSI
Identification of Opportunities	Business	SIG UTW	HIT
Skill Strategy Development	Skill	AFIL UTW SIG	SRC-EDIH HIT

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Table 62: Potential partners for MADE to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Connecting suppliers & customers	Ecosystem	SIG AFIL Intellimech Polymeris SRC-EDIH MAKE	OOST NL BRAINPORT MADE cc JSI DMIW GAIN
Collaborative innovation and problem solving	Ecosystem	SIG Polymeris SRC-EDIH	HIT ARTER
Raise awareness	Ecosystem	CVUT SIG AFIL Intellimech Polymeris DiTMAPs SRC-EDIH HIT	PBN MAKE OOST NL ARTER MADE cc DMIW GAIN 4PDIH
Communication_experts & customers/partners	Ecosystem	SIG AFIL Intellimech OOST NL ARTER	MADE cc JSI DMIW GAIN
Visioning and Strategy Development	Ecosystem	SIG Intellimech PBN	BRAINPORT MADE cc GAIN
Services Impact Assessment (KPIs)	Ecosystem	SIG Polymeris SRC-EDIH	OOST NL MADE cc
Ecosystem Strategy within and between DIHs	Ecosystem	SIG AFIL Polymeris DiTMAPs	SRC-EDIH OOST NL MADE cc GAIN
Business development	Business	CVUT SIG Polymeris SRC-EDIH PBN OOST NL	ARTER BRAINPORT MADE cc DMIW GAIN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Financial Engineering	Business	Polymeris OOST NL BRAINPORT MADE cc
Methods, tools, business operations modelling	Business	SIG SRC-EDIH PBN OOST NL MADE cc
Creating consortia	Business	CVUT SIG AFIL Intellimech Polymeris PBN OOST NL ARTER MADE cc JSI DMIW GAIN
Maturity Assessment	Skill	CVUT SIG UTW Intellimech Polymeris DiTMAPs SRC-EDIH HIT PBN MAKE OOST NL ARTER BRAINPORT JSI DMIW SCCH
Maturity and Strategy Development	Skill	SIG UTW Polymeris SRC-EDIH PBN BRAINPORT MADE cc DMIW GAIN
Human up-skilling/ re-skilling	Skill	CVUT SIG Intellimech DiTMAPs OOST NL MADE cc DMIW SCCH GAIN
Educational Programs	Skill	CVUT AFIL Intellimech Polymeris SRC-EDIH MAKE OOST NL BRAINPORT MADE cc SCCH
Scouting and Brokerage	Skill	SIG AFIL Intellimech SRC-EDIH MAKE ARTER MADE cc GAIN

Table 63, instead, presents some examples of partners who could provide MADE's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 63: Potential partners for MADE to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Technology Readiness assessment	Technology	INESCTEC
Strategic and Specific R&D	Technology	COMET
Innovation Spaces	Business	ARTER
Business development	Business	INESCTEC
Decision analytics	Data	AIN-IRIS

5.2.17. PBN/ am-LAB DIH

According to what emerged from the Service Portfolio provided by PBN/ am-LAB DIH , there are **three new services that the hub would like to develop** while **twenty-five are those that could be improved** through collaborations.

The following tables summarize the potential partners with which PBN/ am-LAB DIH could establish collaborations aimed at developing or improving services.

Table 64: Potential partners for PBN/ am-LAB DIH to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Human up-skilling/ re-skilling	Skill	Polymeris UTW	MAKE
Collaborative Intelligence	Data	JSI CVUT UTW R	BRAINPORT ARTER Intellimech
Feedback Loop	Data	4PDIH CVUT MADE cc	UTW Intellimech

Table 65: Potential partners for PBN/ am-LAB DIH to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Community creation	Ecosystem	SRC-EDIH Polymeris SIG OOST NL GAIN DMIW Intellimech	MAKE ARTER AFIL BRAINPORT MADE cc PBN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Technological scouting	Ecosystem	SRC-EDIH SIG OOST NL GAIN DMIW	Intellimech MAKE ARTER MADE cc PBN
Raise awareness	Ecosystem	SRC-EDIH 4PDIH CVUT Polymeris MADE SIG OOST NL GAIN	DMIW Intellimech MAKE ARTER AFIL MADE cc HIT PBN
Share best practices	Ecosystem	SRC-EDIH 4PDIH Polymeris SIG OOST NL GAIN	DMIW Intellimech MAKE AFIL BRAINPORT MADE cc
Visioning and Strategy Development	Ecosystem	MADE SIG GAIN Intellimech	Intellimech BRAINPORT MADE cc
Ideas Generation Assessment	Technology	JSI SRC-EDIH SCCH TUIASI 4PDIH DiTMAPs Polymeris	GAIN Intellimech MAKE ARTER AFIL MADE cc
Strategic and Specific R&D	Technology	SCCH TUIASI DiTMAPs CVUT Polymeris GAIN DMIW	Intellimech MAKE ARTER AFIL MADE cc HIT

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Tech concept and Development	Technology	JSI SRC-EDIH SCCH TUIASI 4PDIH DiTMAPs CVUT Polymeris OOST NL	GAIN DMIW Intellimech MAKE UTW ARTER MADE cc
Concept Validation	Technology	JSI SCCH TUIASI 4PDIH Polymeris OOST NL GAIN	Intellimech MAKE ARTER BRAINPORT MADE cc
Prototyping	Technology	JSI SRC-EDIH SCCH 4PDIH DiTMAPs CVUT Polymeris	OOST NL GAIN DMIW Intellimech MAKE ARTER MADE cc
Product Demonstration	Technology	SRC-EDIH SCCH DiTMAPs CVUT Polymeris OOST NL	GAIN DMIW Intellimech BRAINPORT MADE cc
Business development	Business	SRC-EDIH CVUT Polymeris MADE SIG OOST NL	GAIN DMIW ARTER BRAINPORT MADE cc
Connection to funding resources	Business	JSI SRC-EDIH DiTMAPs	Polymeris DMIW Intellimech
Innovation spaces	Business	CVUT Polymeris SIG OOST NL DMIW	Intellimech UTW BRAINPORT MADE cc

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Methods, tools, business operations modelling	Business	SRC-EDIH MADE SIGE	OOST NL MADE cc
Strategic analysis_Matchmaking	Business	Polymeris SIG OOST NL GAIN	Intellimech ARTER BRAINPORT MADE cc
Strategic analysis _Research calls and funding opportunities	Business	JSI CVUT Polymeris SIG OOST NL GAIN	DMIW Intellimech ARTER BRAINPORT MADE cc
Creating consortia	Business	JSI CVUT Polymeris MADE SIG OOST NL	GAIN DMIW Intellimech ARTER AFIL MADE cc
Development of proposals	Business	SRC-EDIH Polymeris SIG OOST NL	SRC-EDIH Polymeris SIG OOST NL
Maturity Assessment	Skill	JSI SRC-EDIH SCCH 4PDIH DiTMAPs CVUT Polymeris MADE SIG OOST NL	GAIN DMIW Intellimech MAKE UTW ARTER BRAINPORT MADE cc HIT
Maturity and Strategy Development	Skill	SRC-EDIH Polymeris MADE SIG GAIN	DMIW UTW BRAINPORT MADE cc
Data Analytics	Data	JSI SRC-EDIH SCCH	CVUT SIG GAIN Intellimech

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[2]**
Decision Support & Development	Data	JSI, GAIN, SCCH, DMIW, 4PDIH, Intellimech, DiTMAPs, UTW, CVUT, MADE cc, SIG
User Experience	Data	SCCH, SIG, 4PDIH, DMIW, DiTMAPs
Data Platforms	Data	SCCH, DiTMAPs, TUIASI, Intellimech, 4PDIH

Table 66, instead, presents some examples of partners who could provide PBN/ am-LAB DIH's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 66: Potential partners for PBN/ am-LAB DIH to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Access to infrastructure and technological platforms	Ecosystem	JSI, 4PDIH, SRC-EDIH
Product Qualification and Certification	Ecosystem	HIT
Human Skill Repository	Business	4PDIH, SRC-EDIH, SCCH
Human Skill Maturity	Business	OOST NL, GAIN, SIG
Data Storage	Data	CVUT, SCCH, Intellimech

5.2.18. DMIW - Digital Manufacturing Innovation Hub Wales

According to what emerged from the Service Portfolio provided by DMIW, there are **three new services that the hub would like to develop** while **twenty-nine are those that could be improved** through collaborations.

The following tables summarize the potential partners with which DMIW could establish collaborations aimed at developing or improving services.

Table 67: Potential partners for DMIW to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners[1]**
Collaborative innovation and problem solving	Ecosystem	JSI, MADE cc, AFIL, UTW, OOST NL, MAKE
Educational Programs	Skill	DiTMAPs, GAIN, UTW

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Scouting and Brokerage	Skill	JSI SCCH Polymeris BRAINPORT UTW

Table 68: Potential partners for DMIW to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Ecosystem Mapping and analysis	Ecosystem	Polymeris OOST NL BRAINPORT Intellimech SIG AFIL MADE cc 4PDIH GAIN
Community creation	Ecosystem	Polymeris MAKE OOST NL BRAINPORT SRC-EDIH PBN Intellimech SIG AFIL MADE cc ARTER GAIN
Connecting suppliers & customers	Ecosystem	Polymeris MAKE OOST NL BRAINPORT JSI SRC-EDIH Intellimech MADE SIG AFIL MADE cc GAIN
Technological scouting	Ecosystem	MAKE OOST NL SRC-EDIH PBN Intellimech SIG MADE cc ARTER GAIN
Raise awareness	Ecosystem	Polymeris MAKE OOST NL SRC-EDIH PBN CVUT Intellimech HIT MADE SIG AFIL MADE cc 4PDIH ARTER GAIN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Share best practices	Ecosystem	Polymeris MAKE OOST NL BRAINPORT SRC-EDIH PBN	Intellimech SIG AFIL MADE cc 4PDIH GAIN
Communication_experts & customers/partners	Ecosystem	OOST NL JSI Intellimech MADE SIG	AFIL MADE cc ARTER GAIN
Technological Readiness	Technology	SCCH OOST NL BRAINPORT SRC-EDIH CVUT	Intellimech MADE cc ARTER GAIN
Strategic and Specific R&D	Technology	Polymeris MAKE SCCH PBN CVUT Intellimech HIT	TUIASI AFIL MADE cc DiTMAPs ARTER GAIN
Tech concept and Development	Technology	Polymeris OOST NL UTW BRAINPORT PBN	CVUT Intellimech SIG MADE cc
Access to infrastructure and technological platforms	Technology	Polymeris MAKE SCCH OOST NL BRAINPORT JSI SRC-EDIH	CVUT TUIASI MADE cc 4PDIH DiTMAPs ARTER GAIN
Prototyping	Technology	Polymeris MAKE SCCH OOST NL JSI SRC-EDIH PBN	CVUT Intellimech MADE cc 4PDIH DiTMAPs ARTER GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Product Demonstration	Technology	Polymeris SCCH OOST NL BRAINPORT SRC-EDIH PBN	CVUT Intellimech MADE cc DiTMAPs GAIN
Basic facilities	Business	OOST NL BRAINPORT SRC-EDIH CVUT	Intellimech SIG MADE cc ARTER
Specialised facilities	Business	Polymeris OOST NL BRAINPORT SRC-EDIH	CVUT Intellimech SIG MADE cc
Business development	Business	Polymeris OOST NL BRAINPORT SRC-EDIH PBN CVUT MADE	SIG MADE cc 4PDIH DiTMAPs ARTER GAIN
Connection to funding resources	Business	Polymeris OOST NL BRAINPORT JSI SRC-EDIH PBN	Intellimech SIG AFIL MADE cc ARTER GAIN
Innovation spaces	Business	Polymeris OOST NL UTW BRAINPORT PBN	CVUT Intellimech SIG MADE cc
Strategic analysis _Research calls and funding opportunities	Business	Polymeris OOST NL BRAINPORT JSI PBN CVUT	Intellimech SIG MADE cc ARTER GAIN

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners[1]**
Creating consortia	Business	Polymeris OOST NL JSI PBN CVUT Intellimech MADE SIG AFIL MADE cc ARTER GAIN
Development of proposals	Business	Polymeris OOST NL SRC-EDIH PBN Intellimech SIG MADE cc
Maturity Assessment	Skill	Polymeris MAKE SCCH OOST NL UTW BRAINPORT JSI SRC-EDIH PBN CVUT Intellimech HIT MADE SIG MADE cc 4PDIH DiTMAPs ARTER GAIN
Maturity and Strategy Development	Skill	Polymeris UTW BRAINPORT SRC-EDIH PBN MADE SIG MADE cc GAIN
Human up-skilling/ re-skilling	Skill	SCCH OOST NL CVUT Intellimech MADE SIG MADE cc DiTMAPs GAIN
Data Acquisition	Data	SCCH SRC-EDIH CVUT Intellimech TUIASI DiTMAPs GAIN
Decision Support & Development	Data	SCCH UTW JSI PBN CVUT Intellimech SIG MADE cc 4PDIH DiTMAPs GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Collaborative Intelligence	Data	SCCH SRC-EDIH SIG TUIASI	MADE cc 4PDIH DiTMAPs
User Experience	Data	SCCH PBN	SIG 4PDIH
Feedback Loop	Data	SCCH	TUIASI

Table 69, instead, presents some examples of partners who could provide DMIW's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 69: Potential partners for DMIW to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Identification of Opportunities	Technology	SRC-EDIG, Polymeris, OOST NL
Human Skill Repository	Technology	MAKE, BRAINPORT, Polymeris
Human Skill Maturity	Technology	GAIN, SIG, SRC-EDIH
Skill Strategy Development	Technology	GAIN, SIG, SRC-EDIH, OOST NL
Standardization and Certification	Technology	SCCH, SIG

5.2.19. SCCH - Software Competence Center Hagenberg GmbH (AI5PRODUCTION)

According to what emerged from the Service Portfolio provided by SSCH, there are **four new services that the hub would like to develop** while **twenty-six are those that could be improved** through collaborations.

The following tables summarize the potential partners with which SSCH could establish collaborations aimed at developing or improving services.

Table 70: Potential partners for SSCH to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Maturity and Strategy Development	Skill	JSI CVUT DiTMAPs	4PDIH MAKE
Human Skill Maturity	Skill	MADE cc UTW	MAKE
Skill Strategy Development	Skill	MADE cc 4PDIH UTW	MAKE MADE

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

Scouting and Brokerage	Skill	JSI BRAINPORT BMIW	Polymeris UTW

Table 71: Potential partners for SSCH to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
deas Generation Assessment	Technology	JSI SRC-EDIH PBN Intellimech AFIL MADE cc 4PDIH	DiTMAPs Polymeris MAKE TUIASI ARTER GAIN
Technological Readiness	Technology	SRC-EDIH CVUT Intellimech BRAINPORT MADE cc	DMIW OOST NL ARTER GAIN
Strategic and Specific R&D	Technology	PBN CVUT Intellimech AFIL MADE cc DiTMAPs HIT	Polymeris MAKE DMIW TUIASI ARTER GAIN
Tech concept and Development	Technology	JSI SRC-EDIH PBN CVUT Intellimech MADE cc 4PDIH DiTMAPs	Polymeris MAKE DMIW TUIASI OOST NL UTW ARTER GAIN
Access to infrastructure and technological platforms	Technology	JSI SRC-EDIH CVUT BRAINPORT MADE cc 4PDIH DiTMAPs	Polymeris MAKE DMIW TUIASI OOST NL ARTER GAIN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Concept Validation	Technology	JSI PBN Intellimech BRAINPORT MADE cc 4PDIH Polymeris MAKE TUIASI OOST NL ARTER GAIN
Prototyping	Technology	JSI SRC-EDIH PBN CVUT Intellimech MADE cc 4PDIH DiTMAPs Polymeris MAKE DMIW OOST NL ARTER GAIN
Product Qualification and Certification	Technology	N/A
Product Demonstration	Technology	SRC-EDIH PBN CVUT Intellimech BRAINPORT MADE cc DiTMAPs Polymeris DMIW OOST NL GAIN
Maturity Assessment	Skill	JSI SRC-EDIH PBN CVUT Intellimech SIG BRAINPORT MADE cc 4PDIH DiTMAPs HIT Polymeris MAKE DMIW OOST NL UTW ARTER MADE GAIN
Human Skill Repository	Skill	SRC-EDIH BRAINPORT 4PDIH MAKE OOST NL GAIN
Human up-skilling/ re-skilling	Skill	CVUT Intellimech SIG MADE cc DiTMAPs DMIW OOST NL MADE GAIN
Educational Programs	Skill	SRC-EDIH CVUT Intellimech AFIL BRAINPORT MADE cc Polymeris MAKE OOST NL MADE

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Standardization and Certification	Skill	SIG
Data Acquisition	Data	SRC-EDIH, DMIW, CVUT, TUIASI, Intellimech, GAIN, DiTMAPs
Data Protection	Data	JSI, TUIASI, SRC-EDIH, GAIN
Data Storage	Data	CVUT, 4PDIH, Intellimech, GAIN
Data Analytics	Data	JSI, Intellimech, SRC-EDIH, SIG, PBN, GAIN, CVUT
Cognitive Big Data Architecture	Data	CVUT, SIG, Intellimech, TUIASI
Decision Support & Development	Data	JSI, 4PDIH, PBN, DiTMAPs, CVUT, DMIW, Intellimech, UTW, SIG, GAIN, MADE cc
Collaborative Intelligence	Data	SRC-EDIH, 4PDIH, SIG, DMIW, MADE cc, TUIASI
User Experience	Data	PBN, 4PDIH, SIG, DMIW
Feedback Loop	Data	DMIW, TUIASI
GDPR and Data Sovereignty	Data	SIG, BRAINPORT
Data Spaces	Data	SIG, GAIN, 4PDIH
Data Platforms	Data	PBN, DiTMAPs, Intellimech, TUIASI, 4PDIH

Table 72, instead, presents some examples of partners who could provide SSCH's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 72: Potential partners for SSCH to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Visioning and Strategy Development	Ecosystem	PBN, MADE; BRAINPORT
Services Impact Assessment (KPIs)	Ecosystem	Polymeris, MADE, OOST NL

Ecosystem Strategy within and between DIHs	Technology	MADE cc, GAIN, AFIL
Basic facilities	Business	BRAINPORT, DMIW, CVUT
Specialised facilities	Business	SRC-EDIH, Intellimech, MADE cc

5.2.20. INTELLIMECH - Intellimech, Consorzio per la Meccatronica

According to what emerged from the Service Portfolio provided by Intellimech, there are **three new services that the hub would like to develop** while **thirty-five are those that could be improved** through collaborations.

The following tables summarize the potential partners with which Intellimech could establish collaborations aimed at developing or improving services.

Table 73: Potential partners for Intellimech to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners[1]**	
Collaborative Intelligence	Data	JSI CVUT ARTER	BRAINPORT PBN UTW
User Experience	Data	MADE cc	UTW
Feedback Loop	Data	CVUT MADE cc 4PDIH	PBN UTW

Table 74: Potential partners for Intellimech to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[2]**	
Ecosystem Mapping and analysis	Ecosystem	AFIL Polymeris MADE cc 4PDIH SIG	DMIW OOST NL BRAINPORT GAIN
Community creation	Ecosystem	SRC-EDIH AFIL Polymeris MADE cc MAKE SIG	ARTER PBN DMIW OOST NL BRAINPORT GAIN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

2 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Connecting suppliers & customers	Ecosystem	SRC-EDIH AFIL JSI Polymeris MADE MADE cc MAKE	SIG DMIW OOST NL BRAINPORT GAIN
Technological scouting	Ecosystem	SRC-EDIH MADE cc MAKE SIG ARTER	PBN DMIW OOST NL GAIN
Raise awareness	Ecosystem	SRC-EDIH AFIL CVUT Polymeris MADE MADE cc 4PDIH HIT	MAKE SIG ARTER PBN DMIW OOST NL GAIN
Share best practices	Ecosystem	SRC-EDIH Polymeris MADE cc 4PDIH MAKE SIG	ARTER PBN DMIW OOST NL BRAINPORT GAIN
Communication_experts & customers/partners	Ecosystem	AFIL JSI MADE MADE cc SIG	ARTER DMIW OOST NL GAIN
Trend watching	Ecosystem	AFIL Polymeris MADE cc 4PDIH	MAKE SIG OOST NL GAIN
Visioning and Strategy Development	Ecosystem	BRAINPORT MADE cc	GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Ideas Generation Assessment	Technology	SRC-EDIH AFIL DiTMAPs JSI SCCH Polymeris MADE cc	4PDIH MAKE TUIASI ARTER PBN GAIN
Technological Readiness	Technology	SRC-EDIH CVUT SCCH MADE cc ARTER	DMIW OOST NL BRAINPORT GAIN
Strategic and Specific R&D	Technology	AFIL DiTMAPs CVUT SCCH Polymeris MADE cc HIT	MAKE TUIASI ARTER PBN DMIW GAIN
Tech concept and Development	Technology	SRC-EDIH DiTMAPs JSI CVUT SCCH Polymeris MADE cc 4PDIH	MAKE TUIASI ARTER PBN DMIW OOST NL UTW GAIN
Concept Validation	Technology	JSI SCCH Polymeris MADE cc 4PDIH MAKE	TUIASI ARTER PBN OOST NL BRAINPORT GAIN
Prototyping	Technology	SRC-EDIH DiTMAPs JSI CVUT SCCH Polymeris MADE cc	4PDIH MAKE ARTER PBN DMIW OOST NL GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Product Demonstration	Technology	SRC-EDIH, DiTMAPs, CVUT, SCCH, Polymeris, MADE cc, PBN, DMIW, OOST NL, BRAINPORT, GAIN
Basic facilities	Business	SRC-EDIH, DiTMAPs, CVUT, SCCH, Polymeris, MADE cc, PBN, DMIW, OOST NL, BRAINPORT, GAIN
Specialised facilities	Business	SRC-EDIH, DiTMAPs, CVUT, SCCH, Polymeris, MADE cc, PBN, DMIW, OOST NL, BRAINPORT, GAIN
Connection to funding resources	Business	SRC-EDIH, AFIL, JSI, Polymeris, MADE cc, SIG, ARTER, PBN, DMIW, OOST NL, BRAINPORT, GAIN
Innovation spaces	Business	CVUT, Polymeris, MADE cc, SIG, PBN, DMIW, OOST NL, UTW, BRAINPORT
Strategic analysis_Matchmaking	Business	Polymeris, MADE cc, SIG, ARTER, PBN, OOST NL, BRAINPORT, GAIN
Strategic analysis _Research calls and funding opportunities	Business	JSI, CVUT, Polymeris, MADE cc, SIG, ARTER, PBN, OOST NL, BRAINPORT, GAIN
Identification of Opportunities	Business	SRC-EDIH, Polymeris, MADE cc, OOST NL, GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[2]	
Creating consortia	Business	AFIL JSI CVUT Polymeris MADE MADE cc	SIG ARTER PBN DMIW OOST NL GAIN
Development of proposals	Business	SRC-EDIH Polymeris MADE cc SIG	PBN DMIW OOST NL
Maturity Assessment	Skill	SRC-EDIH DiTMAPs JSI CVUT SCCH Polymeris MADE MADE cc 4PDIH HIT	MAKE SIG ARTER PBN DMIW OOST NL UTW BRAINPORT GAIN
Human up-skilling/ re-skilling	Skill	DiTMAPs CVUT SCCH MADE MADE cc	SIG DMIW OOST NL GAIN
Educational Programs	Skill	SRC-EDIH AFIL CVUT SCCH Polymeris MADE	MADE cc MAKE OOST NL BRAINPORT
Scouting and Brokerage	Skill	SRC-EDIH AFIL MADE MADE cc	MAKE SIG ARTER GAIN
Data Acquisition	Data	SRC-EDIH DiTMAPs CVUT SCCH	TUIASI DMIW GAIN
Data Storage	Data	CVUT	SCCH

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[2]
Data Analytics	Data	SRC-EDIH, SIG, JSI, PBN, CVUT, GAIN, SCCH
Cognitive Big Data Architecture	Data	CVUT, SIG, SCCH, TUIASI
Decision Support & Development	Data	DiTMAPs, SIG, JSI, PBN, CVUT, DMIW, SCCH, UTW, MADE cc, GAIN, 4PDIH
Data Platforms	Data	DiTMAPs, TUIASI, SCCH, PBN, 4PDIH

Table 75, instead, presents some examples of partners who could provide INTELLIMECH's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 75: Potential partners for INTELLIMECH to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Human Skill Maturity	Skills	SRC-EDIH, OOST NL, GAIN
Skill Strategy Development	Skills	Polymeris, GAIN, OOST NL
Standardization and Certification	Skills	SCCH, SIG
Data Protection	Data	GAIN, TUIASI, SRC-EDIH
GDPR and Data Sovereignty	Data	BRAINPORT, SIG, SCCH

5.2.21. BRAINPORT

According to what emerged from the Service Portfolio provided by BRAINPORT, there are **three new services that the hub would like to develop** while **twenty-three are those that could be improved** through collaborations.

The following tables summarize the potential partners with which BRAINPORT could establish collaborations aimed at developing or improving services.

Table 76: Potential partners for BRAINPORT to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES		
Service	**Class**	**Potential partners**[1]

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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Scouting and Brokerage	Skill	UTW SCCH DMIW	Polymeris JSI
Data Storage	Data	TUIASI JSI	MADE cc 4PDIH
Collaborative Intelligence	Data	UTW CVUT JSI	PBN Intellimech ARTER

Table 77: Potential partners for BRAINPORT to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Ecosystem Mapping and analysis	Ecosystem	SIG OOST NL Polymeris DMIW AFIL	Intellimech MADE cc 4PDIH GAIN
Community creation	Ecosystem	MAKE SIG OOST NL Polymeris DMIW SRC-EDIH PBN	AFIL Intellimech MADE cc ARTER GAIN
Connecting suppliers & customers	Ecosystem	MAKE SIG OOST NL Polymeris MADE DMIW	JSI SRC-EDIH AFIL Intellimech MADE cc GAIN
Share best practices	Ecosystem	MAKE SIG OOST NL Polymeris DMIW SRC-EDIH PBN	AFIL Intellimech MADE cc 4PDIH GAIN
Visioning and Strategy Development	Ecosystem	SIG MADE PBN	Intellimech MADE cc GAIN

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Technological Readiness	Technology	SCCH, Intellimech, OOST NL, MADE cc, CVUT, ARTER, DMIW, GAIN, SRC-EDIH
Access to infrastructure and technological platforms	Technology	MAKE, JSI, SCCH, SRC-EDIH, OOST NL, MADE cc, CVUT, 4PDIH, Polymeris, DiTMAPs, DMIW, ARTER, TUIASI, GAIN
Concept Validation	Technology	MAKE, PBN, SCCH, Intellimech, OOST NL, MADE cc, Polymeris, 4PDIH, TUIASI, ARTER, JSI, GAIN
Product Demonstration	Technology	SCCH, PBN, OOST NL, Intellimech, CVUT, MADE cc, Polymeris, DiTMAPs, DMIW, GAIN, SRC-EDIH
Basic facilities	Business	SIG, SRC-EDIH, OOST NL, Intellimech, CVUT, MADE cc, DMI, ARTER
Specialised facilities	Business	SIG, DMIW, OOST NL, SRC-EDIH, CVUT, Intellimech, Polymeris, MADE cc
Business development	Business	SRC-EDIH, DMIW, PBN, OOST NL, CVUT, ARTER, Polymeris, MADE cc, MADE, GAIN, SIG
Guidance	Business	SRC-EDIH, SIG
Financial Engineering	Business	OOST NL, MADE, Polymeris, MADE cc

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY		
Service	**Class**	**Potential partners**[1]
Connection to funding resources	Business	OOST NL, AFIL, Polymeris, Intellimech, DMIW, MADE cc, JSI, ARTER, SRC-EDIH, GAIN, PBN
Innovation spaces	Business	UTW, DMIW, SIG, PBN, OOST NL, Intellimech, CVUT, MADE cc, Polymeris
Strategic analysis_Matchmaking	Business	SIG, Intellimech, OOST NL, MADE cc, Polymeris, ARTER, PBN, GAIN
Strategic analysis _Research calls and funding opportunities	Business	SIG, PBN, OOST NL, Intellimech, CVUT, MADE cc, Polymeris, ARTER, DMIW, GAIN, JSI
Maturity Assessment	Skill	MAKE, SRC-EDIH, UTW, PBN, SCCH, Intellimech, SIG, MADE cc, OOST NL, 4PDIH, CVUT, DiTMAPs, Polymeris, HIT, MADE, ARTER, DMIW, GAIN, JSI
Maturity and Strategy Development	Skill	UTW, SRC-EDIH, SIG, PBN, Polymeris, MADE cc, MADE, GAIN, DMIW
Human Skill Repository	Skill	MAKE, SRC-EDIH, SCCH, 4PDIH, OOST NL, GAIN

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Educational Programs	Skill	MAKE SCCH OOST NL CVUT Polymeris	MADE SRC-EDIH AFIL Intellimech MADE cc
GDPR and Data Sovereignty	Data	SCCH	SIG

Table 78, instead, presents some examples of partners who could provide BRAINPORT 's customers with those services that the hub does not to offer directly but could be beneficial for the ecosystem.

Table 78: Potential partners for BRAINPORT to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING		
Service	**Class**	**Potential partners**
Creating consortia	Technology	JSI, DMIW, OOST NL
Development of proposals	Technology	PBN, OOST NL, MADE cc
Human Skill Maturity	Technology	GAIN, SIG, OOST NL
Cognitive Big Data Architecture	Data	SCCH, CVUT, TUIASI
Decision Support & Development	Data	JSI, 4PDIH, PBN

5.2.22. STEINBEIS (SIG)

According to what emerged from the Service Portfolio provided by STEINBEIS, there are **three new services that the hub would like to develop** while **thirty-eight are those that could be improved** through collaborations.

The following tables summarize the potential partners with which STEINBEIS could establish collaborations aimed at developing or improving services.

Table 79: Potential partners for STEINBEIS to implement collaboration scenario 1

COLLABORATION SCENARIO 1: DEVELOPMENT OF NEW SERVICES			
Service	**Class**	**Potential partners**[1]	
Ideas Generation Assessment	Technology	UTW HIT	
Financial Engineering	Business	N/A	
Identification of Opportunities	Business	MADE UTW	HIT

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

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Table 80: Potential partners for STEINBEIS to implement collaboration scenario 2

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Ecosystem Mapping and analysis	Ecosystem	Polymeris BRAINPORT OOST NL AFIL GAIN	Intellimech 4PDIH DMIW MADE cc
Community creation	Ecosystem	Polymeris MAKE BRAINPORT OOST NL ARTER AFIL	GAIN PBN Intellimech SRC-EDIH DMIW MADE cc
Connecting suppliers & customers	Ecosystem	Polymeris MAKE MADE BRAINPORT OOST NL AFIL PBN	GAIN JSI Intellimech SRC-EDIH DMIW MADE cc
Collaborative innovation and problem solving	Ecosystem	Polymeris MADE ARTER	SRC-EDIH HIT
Technological scouting	Ecosystem	MAKE OOST NL ARTER GAIN GAIN	Intellimech Intellimech SRC-EDIH DMIW MADE cc
Raise awareness	Ecosystem	CVUT Polymeris MAKE MADE OOST NL ARTER AFIL GAIN	PBN Intellimech 4PDIH SRC-EDIH DMIW MADE cc HIT
Share best practices	Ecosystem	Polymeris MAKE BRAINPORT OOST NL AFIL GAIN	PBN Intellimech 4PDIH SRC-EDIH DMIW MADE cc

1 The DIHs have been listed according to the overall compatibility scores presented in **Error! Reference source not found.**.

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Communication_experts & customers/partners	Ecosystem	MADE OOST NL ARTER AFIL	GAIN JSI Intellimech DMIW MADE cc
Trend watching	Ecosystem	Polymeris MAKE OOST NL AFIL	GAIN Intellimech 4PDIH MADE cc
Visioning and Strategy Development	Ecosystem	MADE BRAINPORT GAIN	PBN Intellimech MADE cc
Services Impact Assessment (KPIs)	Ecosystem	Polymeris MADE OOST NL	SRC-EDIH MADE cc
Ecosystem Strategy within and between DIHs	Ecosystem	Polymeris MADE OOST NL AFIL	GAIN DiTMAPs SRC-EDIH MADE cc
Basic facilities	Business	CVUT BRAINPORT OOST NL ARTER	Intellimech SRC-EDIH DMIW MADE cc
Specialised facilities	Business	CVUT Polymeris BRAINPORT OOST NL	Intellimech SRC-EDIH DMIW MADE cc
Business development	Business	CVUT Polymeris MADE BRAINPORT OOST NL ARTER	GAIN PBN SRC-EDIH DMIW MADE cc
Guidance	Business	SRC-EDIH	BRAINPORT
Connection to funding resources	Business	Polymeris BRAINPORT OOST NL ARTER AFIL GAIN	JSI PBN Intellimech SRC-EDIH DMIW MADE cc

COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners**[1]	
Innovation spaces	Business	CVUT Polymeris UTW BRAINPORT OOST NL	PBN Intellimech DMIW MADE cc
Methods, tools, business operations modelling	Business	MADE OOST NL PBN	SRC-EDIH MADE cc
Secondment	Business	CVUT	
Strategic analysis_Matchmaking	Business	Polymeris BRAINPORT OOST NL ARTER	GAIN PBN Intellimech MADE cc
Strategic analysis _Research calls and funding opportunities	Business	CVUT Polymeris BRAINPORT OOST NL ARTER GAIN	JSI PBN Intellimech DMIW MADE cc
Creating consortia	Business	CVUT Polymeris MADE OOST NL ARTER AFIL	GAIN JSI PBN Intellimech DMIW MADE cc
Development of proposals	Business	Polymeris OOST NL GAIN PBN	Intellimech SRC-EDIH DMIW MADE cc
Maturity Assessment	Skill	CVUT Polymeris MAKE MADE UTW SCCH BRAINPORT OOST NL ARTER GAIN	JSI PBN Intellimech 4PDIH DiTMAPs SRC-EDIH DMIW MADE cc HIT

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COLLABORATION SCENARIO 2: PARTNERSHIP TO PROVIDE SERVICE JOINTLY			
Service	**Class**	**Potential partners[1]**	
Maturity and Strategy Development	Skill	Polymeris MADE UTW BRAINPORT GAIN	PBN SRC-EDIH DMIW MADE cc
Human Skill Maturity	Skill	OOST NL GAIN	SRC-EDIH
Skill Strategy Development	Skill	Polymeris MADE UTW OOST NL GAIN	BRAINPORT GAIN DMIW MADE cc
Human up-skilling/ re-skilling	Skill	CVUT MADE SCCH OOST NL GAIN Intellimech	DiTMAPs 4PDIH DiTMAPs DMIW MADE cc
Scouting and Brokerage	Skill	MAKE MADE ARTER AFIL	GAIN Intellimech SRC-EDIH MADE cc
Standardization and Certification	Skill	SCCH	
Data Analytics	Data	CVUT SCCH JSI	PBN SRC-EDIH
Cognitive Big Data Architecture	Data	CVUT SCCH	TUIASI
Decision Support & Development	Data	CVUT UTW SCCH GAIN JSI PBN	Intellimech 4PDIH DiTMAPs DMIW MADE cc
Collaborative Intelligence	Data	SCCH TUIASI 4PDIH	SRC-EDIH DMIW MADE cc
User Experience	Data	SCCH PBN	4PDIH DMIW
GDPR and Data Sovereignty	Data	SCCH	BRAINPORT
Data Spaces	Data	SCCH GAIN	4PDIH

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Table 81, instead, presents some examples of partners who could provide STEINBEIS's customers with those services that the hub does not intend to offer directly but could be beneficial for the ecosystem.

Table 81: Potential partners for STEINBEIS to implement collaboration scenario 3

COLLABORATION SCENARIO 3: MATCHMAKING[1]		
Service	**Class**	**Potential partners**
Strategic and Specific R&D	Business	SCCH, HIT, Polymeris
Human Skill Repository	Business	SRC_EDIH, BRAINPORT, MAKE
Educational Programs	Business	SRC-EDIH, Intellimech, MADE cc
Data Acquisition	Data	CVUT, SRC-EDIH, SCCH
Feedback Loop	Data	DMIW TUIASI, SCCH

1 The matchmaking opportunities have been selected according to the overall compatibility scores presented in **Error! Reference source not found.**.

6. Roadmap activities

The implementation of Task 3.3 is a process where the different phases are derived from one another and their results become a basis for the subsequent ones. As stated in the introduction of the document (Chapter 2.1) and in the methodology (Chapter 4), Task 3.3 is a key component of WP3 as it contributes to the improvement and consolidation of collaboration corridors considered as fundamental to build an efficient and sustainable Network of (E)DIHs.

In developing this strategy, (E)DIHs will firstly receive assistance on the collaborative activities to be performed. Secondly, the goal is to launch a survey to collect general insights on the progress of collaborations and provide indications on where additional attention is needed to achieve a more effective and realistic operational collaboration. In this respect, the aim is to assess the success of the collaborations and determine the need of DIHs for technical assistance in order to improve their partnership. Measuring the perspective of collaboration is essential to enhance the definition of the three Grand Collaboration Scenarios. This strategy will be repeated during the two iterations of the scheduled collaboration.

The figure below provides an overview of activities to be carried out within T3.3, including all aspects to be considered for during the upcoming implementation phases, and the timeline for completing different activities in order to finalize the validation of the collaboration corridors (D3.7). It should be noted that only the tasks still to be performed have been considered in the roadmap.

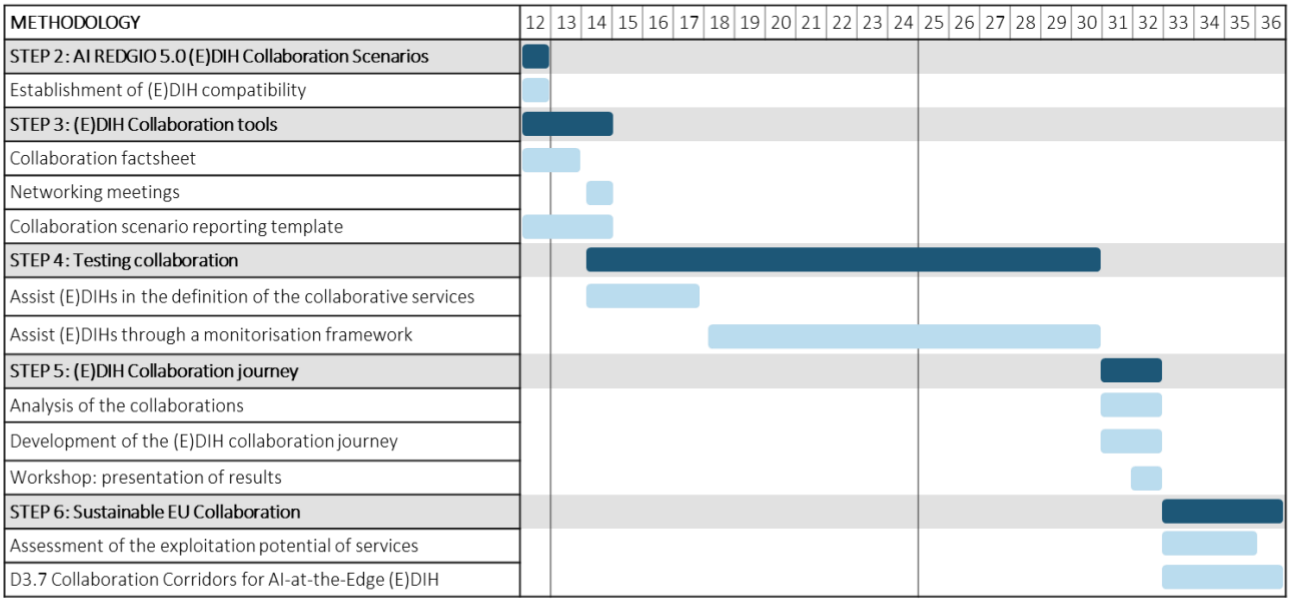

Figure 36: Task 3.3 Roadmap of activities

7. Conclusions

As established by the European Commission, the European Digital Innovation Hubs (EDIHs) were conceived with the ultimate objective of supporting the entrepreneurial ecosystem, mainly made up of SMEs and startups, to respond to new digital challenges and therefore become more competitive. To achieve this, EDIHs provide a wide range of services that local businesses need to adopt and properly use digital technologies within their value chains.

Having been conceived as regional cooperatives, the Commission therefore finds it necessary to create a pan-European network of (E)DIHs, which facilitates the sharing of specific expertise and knowledge, but also allows each centre to strengthen its service offering at the regional level, providing a timely and direct access to a complete catalogue of services that every company can benefit from regardless of the European region they belong to.

As part of Task 3.3., the consortium wants to study and analyse different collaboration approaches between EDIHs aimed at strengthening the offering of services in the local ecosystems. According to what emerged in the AI DIH Network project, collaborations can be established not only to co-design services from scratch, but also to improve the quality of existing ones, or to provide certain services in a local ecosystem where the home hub cannot.

Starting from the information obtained from the individual hubs on the services they currently offer and the services they would like to offer in the imminent future, Deliverable 3.2 provides for each (E)DIH, a list of potential partners with which to collaborate according to three initially defined collaboration scenarios. Secondly, after evaluating the level of compatibility that the different hubs would have if they decided to collaborate, both in terms of technological focus of sector coverage, and also geographical proximity, D3.2 highlights the most compatible hubs with which to collaborate.

7.1. Overall results of the collaboration scenarios methodology

The analysis of the 22 Service Portfolios made it possible to provide an initial picture of the current situation and to determine potential collaborations. In particular, it is found that:

- There are many concrete opportunities to start collaborations within the AI REDGIO 5.0 ecosystem. Specifically, there are 177 potential collaborations aimed at developing a service from scratch, while there are 498 potential collaborations with the aim of improving an already existing service
- In the future, the Ecosystem and Technology classes will be the two most represented classes in terms of service provision. In particular, the analysis shows that out of the 23 possible services to be offered in the two classes, there are 20 services whose coverage of the future offer exceeds 50% with peaks reaching quotas above 80% for services such as: *Creation of communities* (Ecosystem), *Raising awareness* (Ecosystem) and *Access to infrastructure and technological platforms* (Technology).
- The “Data" class is the category with the most services to be developed in the future. However, given the low coverage of services currently offered, even if all collaborations aimed at development were completed, Data would remain the class with the lowest future offer, given that out of 12 services, 10 are the services in which the coverage of future supply did not exceed 50%.
- *Standardization and Certification* (Skill) is the least desired service, given that no hub is interested in developing it in the near future and only two hubs currently offer it.
- There are 6 services that cannot be developed through Collaboration Scenario 1, given the lack of at least two hubs that would like to jointly develop it as new. In particular, the services are: *Supplier and customer connection* (Ecosystem), *Ecosystem strategy within and between DIH* (Ecosystem),

Concept validation (Technology), *Business development* (Business), *Financial engineering* (Business) and *Methods, tools, business operations modelling* (Business).

- There are 15 services that can be developed through Collaboration Scenario 1, but which will see the hubs "forced" to select the partner with which to collaborate, given the lack of alternatives. For each of these services there are only two hubs interested in their future development. The following services fall into this category:
    - *Technological scouting*, *Awareness for the Ecosystem class*;
    - *Strategic and Specific Research and Development, Access to infrastructures and technological platforms* and *Prototyping* for the Technology class;
    - *Basic structures, Specialized structures, Connection to financial resources, Secondment, Strategic analysis: Matchmaking, Strategic analysis: Search for tenders and funding opportunities* and *Development of proposals* for the Business class;
    - *Data Protection, Big Data Cognitive Architecture*, and *Decision Support and Development* for the Data class.
- There is only one service where Collaboration Scenario 2 cannot be implemented, even if applicable, given the lack of additional hubs willing to improve it. This is the case of *Product Qualification and Certification* (Technology).