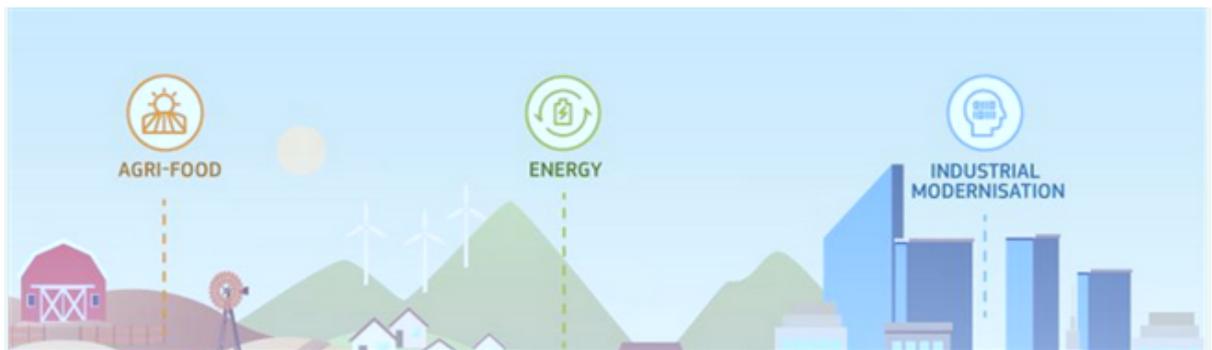


Thematic Smart Specialisation Platforms Monitoring Progress Report

Fields marked with * are mandatory.



Thematic Smart Specialisation Partnership Monitoring Progress Report

This report is presented to the relevant Working/Steering Committee.

The report is updated every six months.

Confidentiality:

The management report (section I) and progress report (section II) will be made available to the public via your Partnership's web page.

The part on self-assessment is confidential.

Based on the monitoring results, the European Commission will decide on the following term's support.

* Reporting period

July - December 2020

* Please select the name of your partnership

Artificial Intelligence and Human Machine Interface

*** Start date of your partnership**

May 2018

*** Partnership's webpage**<https://s3platform.jrc.ec.europa.eu/artificial-intelligence>

I. Management report

*** Please provide the executive summary and the objectives of your partnership**

in Jul-Dec 2020 the following actions were carried out.:

- Collection and elaboration of Expressions of interest and technical questionnaires through Regions by Laboratories/DIHs interested in joining the AI&HMI GRID: 25 Laboratories from 15 Regions reacted.
- Start of the detailed project phase for the AI&HMI GRID.
- Continuous work of Sub-groups inside the Technical and Scientific Committee to work on the 5 Demo Labs identified
- Definition of a financial scheme and a draft Business plan for the AI&HMI GRID.
- The first AI&HMI GRID Public event took place in December 17th: 17 Laboratories presented their activities and interest and had the opportunity to connect to other laboratories.
- Answering the Vanguard Initiative call for new Pilots, the AI&HMI Partnership presented a proposal for a New Pilot on Artificial Intelligence. The Pilot was approved in January,

*** Please provide the list of leading regions**

Emilia-Romagna (IT)
Slovenia (SI)

*** Please provide the list of participating regions.**

*If possible, please follow this format: "Name of the region in English (Country abbreviation), NUTS code".
e.g.: Lapland (FI), FI1D7*

Emilia-Romagna (IT), ITH5
Autonomous Province of Trento (IT), ITH2
Slovenia (SI)
Baden-Württemberg (DE)
Navarra (ES)
North-Brabant (NL)
Salzburg (AT)
Hungary (HU)
Provence-Alpes-Cote d'Azur (FR)
Auvergne-Rhone-Alpes (FR)
East Netherlands (NL)
Flanders (BE)

Please provide the list of interested regions or other entities (other than national /regional authorities)

Lombardy (IT)
Auvergne-Rhone-Alpes (FR)
Skane (SE)
Galicia (ES)
Scotland
North-Rhine-Westphalia (DE)
Upper Austria (AT)
Wales
Orebro lan (SE)

Please provide an overview of the **working areas** of your partnership

	Working area	Region in charge	Involved regions	Other actors
* 1	User Experience data analytics: physiological and biomechanical data analysis	Slovenia (SI)	Slovenia, Autonomous Province of Trento	5 Laboratories involved
* 2	User Centered Design	Emilia-Romagna (IT)	Emilia-Romagna, North Brabant, Autonomous Province of Trento	8 Laboratories involved
* 3	AI inclusive and enhanced industrial data collection	Autonomous Province of Trento (IT)	Autonomous Province of Trento, Emilia-Romagna	15 Laboratories Involved
* 4	AI-enhanced machine controlling strategy: quality, maintenance, automation improvement	Emilia-Romagna (IT)	Salzburg, North-Brabant	14 Laboratories involved
* 5	Human-Interface Evolution	Slovenia (SI)	Salzburg, North-Brabant, Emilia-Romagna	7 Laboratories Involved
* 6	AI&HMI reach-out to Vanguard Initiative	Baden Wuerttemberg, Emilia Romagna	Autonomous Province of Trento, Slovenia	5 Laboratories involved
* 7	User Experience data analytics: physiological and biomechanical data analysis	Slovenia (SI)	Slovenia, Autonomous Province of Trento	8 Laboratories involved
* 8	User Centered Design	Emilia-Romagna (IT)	Emilia-Romagna, North Brabant, Autonomous Province of Trento	15 Laboratories Involved

*9	AI inclusive and enhanced industrial data collection	Emilia-Romagna (IT)	Autonomous Province of Trento, Emilia-Romagna	14 Laboratories involved
*10	AI-enhanced machine controlling strategy: quality, maintenance, automation improvement	Slovenia (SI)	Salzburg, North-Brabant	7 Laboratories Involved

Please provide information regarding past meetings, workshops and dissemination activities (six months prior to filling out the survey)

	Event	Date	Place	Any other information
1	Sixth Steering Table meeting	July 13th '20	Online	First results from EOI collection are approved
2	Seventh Steering Table Meeting	September 17th '20	Online	Update on AI&HMI GRID composition - Decision on presenting a New AI Pilot Proposal
3	Regional Workgroups Periodical meeting	Oct-Nov '20	Online, distributed	
4	Eighth Steering Table meeting	December 14th '20	Online	Update on the ongoing activities
5	AI&HMI GRID - Pitching Event	December 17th '20	Online	The first Public event of the AI&HMI GRID: 22 Speakers, about 100 Visitors
6				
7				
8				
9				
10				

Please provide information regarding planned future meetings, workshops and dissemination activities

	Event	Date	Place	Any other information
1	9th Steering Table Meeting	February '21 TBD	Online	
2	AI&HMI Plenary Meeting	May/June TBS	Online (?)	
3	Lab visiting events	May/Sept '21 TBD	Online (?)	
4				
5				
6				
7				
8				
9				
10				

II. Progress report

Innovative results

Please describe innovative results and achievements that could be attributed to the partnership (specific examples of results vs. objectives)

Start of the detailed project phase of the 5 Democases, i.e. facility labs to be accessed by SMEs willing to introduce AI-enhanced Innovation inside their production environment.
Collection of 25 Expressions of interest from High-level innovation laboratories.

Tangible short- and medium-term socio-economic impacts achieved or expected (specific examples)

Short term:
Creation and management of a community of R&D actors in the field of AI, HMI, industrial automation, from academic and industrial sectors.
Participation to EU-funded RIA and IA calls
Medium term:
Setup of a skills ad facilities AIHMI GRID of Laboratories (public/private) operating in Industrial modernisation through AI technologies, to provide services to SMEs

Inter-regional and inter-partnership collaborative results

Additional results obtained from working with other partnerships under the thematic S3 Platforms (specific examples)

The inter-regional cooperation allowed to collect Expressions of interest oin a wide territory, also from Regions not officially involved in the Partnership.
The preparation of a proposal for a new Pilot inside the Vanguard Intitiative and its approval are to be considered valid result.

Evaluation of the involvement of relevant business sector (clusters, SMEs, business associations, chambers of commerce, Digital Innovation Hubs (DIHs), etcetera) in the Partnership activities (specific examples)

All the 25 laboratories of the AI&HMI GRID are involved in a proposal (at least at national level) for an European Digital Innovation Hub. An interaction with all of them is ongoing to valorize their participation in the AI&HMI GRID as part of the proposal.

Two Emilia-Romagna Clust-ERs have been involved in the setting up of the regional working group: the ClustER MECH and Clust-ER INNOVATE. All partners Regions local working groups involve both big companies, SMEs, Clusters and and business associations int them. In the case of Slovenija, Jozef Stefan Institute is a strong R&I center, with a very extended network of collaborations with local and international companies.

Starting from January 2019, ART-ER (formerly ASTER) is included in the DIH Catalogue.

For Navarra Region the partner is AIN, the Asociación de la Industria Navarra: an impressive work has been carried on by Navarra's representatives with their local Companies and SME, carrying in very relevant needs, expertise and Discussion Topics.

Evaluation of whether the level of inter-regional cooperation is sufficient to potentially provide practical and relevant socio-economic impacts (specific examples)

The inter-regional cooperation is strong: one of the main commitments of the Steering Table is to coordinate partners in merging their interests, needs, and expertise.

The needs,expertise and opportunities coming from each Region merged in a final version of the proposal. Most of the entities representing Regions in the Partnership are strongly linked to the industrial network of their Region, giving the Partnership the chance to have a relevant and practical point of view on the socioeconomic impacts of its actions.

The AI&HMI GRID will operate under inter-regional Cooperation Agreements signed by the Laboratories.

New activities

Involvement of regions from EU13 Member States in the Partnership, in particular with respect to scoping, mapping and/or matchmaking. In addition, justification should be provided if no EU13 regions are involved

Slovenia is a co-leader Region: the strong involvement of Slovenia, by means of the Jozef Stefan Institute researchers and from local companies they are working with. Severl Labs have expressed their interest in joining the AI&HMI GRID.

Hungary is a partner Region, and is working next to other Regions with a strong committment. Several labs have expressed their interest in joining the AI&HMI GRID.

Involvement of regions/countries from outside of EU28 Countries. (Number of participants from non-EU countries (specify their contribution)

N/A

Advancement and promotion of the Partnership through publications and other communication/outreach activities (number of outreach activities that resulted from the partnership)

The first Public event for the AI&HMI GRID took place in Decmeber 2020. A second version is planned for 2021 first semester.

Partner Regions are strongly committed in giving relevance to the AI&HMI Partnership, with a particular focus on preparation of EDIH proposals.

Thanks to the new Vanguard Initiative Pilot on Vanguard, the reach-out of the Partnership will be enhanced.

Activities and projects with partnerships working under other S3 Thematic Platforms (AgriFood, Energy and Industrial Modernisation)

N/A

Your Partnership and the UN 2030 Sustainable Development Goals (SDGs)

The EU has a strong position when it comes to sustainable development and is also fully committed to be a frontrunner in implementing the UN's 2030 Agenda, together with its member countries and regions. Many interregional partnerships under the thematic S3 Platforms contribute strongly to the attainment of these 17 goals.

Please indicate to which Sustainable Development Goals and to what extent your thematic Partnership contributes?

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	Not applicable
Goal 1. End poverty in all its forms everywhere	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 2. End hunger, achieve food security and improved nutrition & promote sustainable agriculture	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 3. Ensure healthy lives & promote well-being for all at all ages	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 5. Achieve gender equality & empower all women and girls	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Goal 6. Ensure availability and sustainable management of water and sanitation for all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment & decent work for all	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialisation & foster innovation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 10. Reduce inequality within and among countries	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 11. Make cities & human settlements inclusive, safe, resilient and sustainable	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 12. Ensure sustainable consumption & production patterns	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 13. Take urgent action to combat climate change and its impacts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 14. Conserve and sustainably use the oceans, seas & marine resources for sustainable development	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation and halt biodiversity loss	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Goal 16. Promote peaceful & inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels						
Goal 17. Strengthen the means of implementation and revitalise the Global Partnership for Sustainable Development						

