AI REGIO

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Regions and Digital Innovation Hubs alliance for AI-driven digital transformation of European Manufacturing SMEs.

THE PROJECT

The EU-funded AI REGIO project addresses policy, technology and business barriers to support creation and sustainable growth of AI-focused Digital Innovation Hubs (AI DIHs) to support European manufacturing SMEs in their digital transformation.

It will build a one-stop-shop platform that enables access to resources for AI-based solutions in efficient and sustainable manufacturing, with particular emphasis on resources that can lower the AI adoption barriers for SMEs.

OUR ECOSYSTEM

AI REGIO is a collaborative network of 13 regions and their corresponding Digital Innovation Hubs (DIHs) and Competence Centres, which actively involves regional authorities and agencies, with a portfolio of several thousand SMEs representing 15% of EU GDP.

The Four Motors of Europe regions (Lombardy, Baden-Württemberg, Auvergne-Rhône-Alpes, Catalonia), leading edge European regions in terms of GDP, industrialization and innovation, closely collaborate with and transfer knowledge and experience to nine other Vanguard Regions.

EXPERIMENTS

AI REGIO conducts 17 DIH and AI-driven Experiments that are grouped into four clusters.

DIH Tampere
DIH East Netherland
DIH South Netherland
DIH Basque Country
DIH Baden-Württemberg
DIH Norte
DIH Auvergne-Rhône-Alpes
DIH Eastern Slovenia
DIH Friuli Venezia Giulia
DIH Navarra
DIH Lombardy
DIH Emilia Romagna
DIH Catalonia

CLUSTER #1

Product Engineering and Lifecycle Management

How AI could support the product lifecycle from its conception to its dismission in a circular economy perspective.

CLUSTER #2

Efficient and Sustainable Manufacturing

How AI could support the Twin Transition for Manufacturing Factories of the Future: the Digital and the Green Transition.

CLUSTER #3

Quality Control and Predictive Maintenance

How AI could support new critical processes in the Factory aimed at Zero Defect and Zero Downtime scenarios.

CLUSTER #4

Robotics and Human Interaction

How AI could support high-levels of automation and simultaneously develop new roles for humans in an Industry 5.0 scenario.

OBJECTIVES

POLICY LEVEL

Better coordination of regional smart specialisation strategies by involving regional authorities and fostering closer cooperation across European regions, EU and non-EU countries, to ensure innovation can scale.

TECHNOLOGICAL LEVEL

Enhancing knowledge transfer across the network of DIHs by integrating Data4AI Open Source Platforms with a DIH Innovation Collaboration platform and with an AI4Manufacturing Toolkit, for a total of 64 assets.

BUSINESS LEVEL

Upgrade the offering of DIHs by AI-driven applications by conducting more than 30 SME-driven and DIH-driven experiments (including Open Calls' ones) on AI-applications for SMEs under a common framework for ethical-social-business impact measurement, assessment and benchmarking.

AI REGIO OPEN CALL #2 WINNER EXPERIMENTS

Objective of the Open Call#2

The objective for the second open call of **AI REGIO** project was to select up to 17 SME-driven experiments:

- 10 Type A experiments: Single participant (SME) projects, applicable to **TOPIC #1 Manufacturing Data Spaces and Data4AI pipelines** and **TOPIC #2 AI for Manufacturing Applications and AI-on-demand Platform contributions**

- 7 Type B experiments: Mini-consortia (SME + DIH + optional third partner), applicable to **TOPIC #1 Manufacturing Data Spaces andData4AI pipelines, TOPIC #2 AI for Manufacturing Applications and AI-on-demand Platform contributions** and **TOPIC #3 AIDidactic Factories for Manufacturing and TERESA Experimentations** (all the TOPICS)

- **18 winners** has been selected for the **AI REGIO Open Call#2**, the selected SME-driven experiments include **11 Type A experiments** and **7 Type B experiments (Proposal presented by Mini-consortia composed of 1 manufacturing SME, 1 DIH and/or a ICT solution providerof technological RTO)** covering three technological topics mentioned above.

Legend:
- Experiments of consortium
- Open Call#1 winners
- Open Call#2 winners
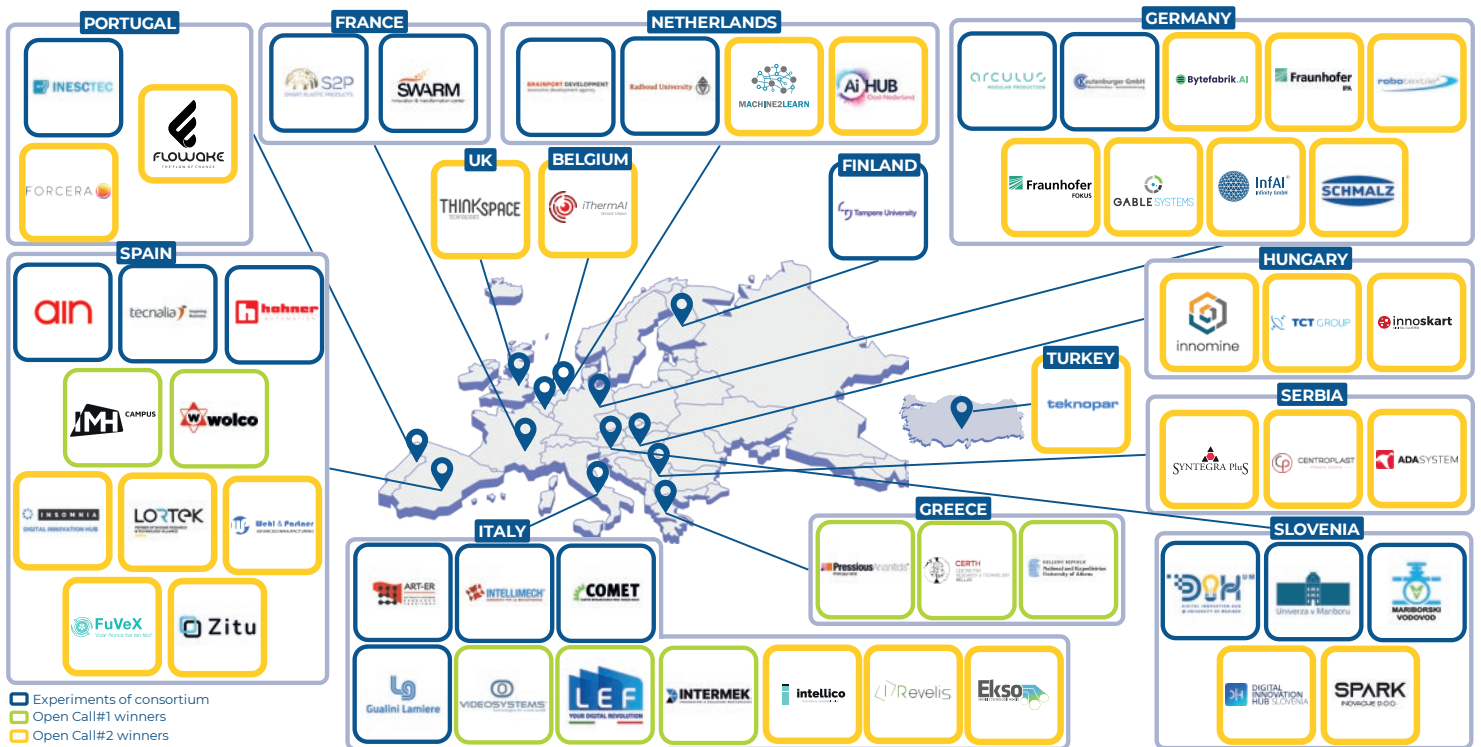
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