



# CONVERGING

Welcome to the 6th issue of the CONVERGING newsletter!

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We are pleased to announce the publication of the sixth issue of the CONVERGING newsletter. If you are interested in industrial collaborative environments integrating AI, Big Data and Robotics with wide applicability in manufacturing environments, you are at the right place!

**CONVERGING** project, by bringing together 16 high-profile partners from several EU and Asian countries, aims to develop, deploy, validate, and promote smart and reconfigurable production systems including multiple autonomous agents (collaborative robots, AGVs, humans) that are able to act in diverse production environments.

## STAY TUNED

Stay updated on all our latest news, developments, research, and general information regarding the **CONVERGING** project.

Stay tuned @ <https://www.converging-project.eu/>

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# PROJECT OVERVIEW



Global economic crises and the COVID-19 pandemic have dictated manufacturing firms to rethink their production and business models. Production systems need to adopt both human and automated resources that can work together seamlessly. As a response, **CONVERGING** aims to develop, deploy, validate and promote smart and reconfigurable production systems including multiple autonomous agents (collaborative robots, AGVs, humans) that are able to act in diverse production environments.

The diversifying factors will be a multi-level AI-based cognition (line, station, resource levels) which will exploit the collective perception (Digital Pipeline) of these resources, allowing them to interact with each other and seamlessly coexist with humans under a “social industrial environment” that ensures trustful, safe and inclusive user experience.

The project proposes the development of systems that can:

1. **Perceive:** The ability to identify and understand processes, resources, and environments and their status through the use of Big Data, Real Time Integration & Communication Architecture, Digital Twins and Human in the Loop techniques.
2. **Reason:** Analyze the production system status and independently form plans using AI, Planning and Reconfiguration Algorithms as well as Resource Autonomy solutions.
3. **Adapt:** Automatically modify hardware and control systems to implement formulated plans using Robotics and Autonomous Systems, Smart Devices and Adaptable Mechatronics.
4. **Collaborate:** Work seamlessly with humans or other resources, creating a social industrial environment which exploits Smart Human Machine Collaboration, User experience assessment and User centric workplace design.
5. **Innovate:** Expand its capabilities and Openness via an Open Pilot Network as well as links to local and international innovation ecosystems.

# NEWS

## CONVERGING at EFFRA Manufacturing Partnership Days 2025

CONVERGING took part in the EFFRA Manufacturing Partnership Days 2025, held in Brussels from 20–22 October 2025, bringing together leading stakeholders from European manufacturing, research, and innovation. Throughout the three-day event, members from the CONVERGING consortium presented its vision for AI-driven, human-centric and sustainable manufacturing, showcasing how smart collaboration between humans, robots, and digital systems can transform industrial production.

Visitors engaged with project partners at the CONVERGING booth and attended a dedicated presentation by Nikos Dimitropoulos (LMS, University of Patras) on social industrial collaborative environments integrating AI, Big Data, and robotics. Participation in the event significantly strengthened CONVERGING's visibility at European level and reinforced its role in shaping the future of smart manufacturing.

[Read more](#)



## CONVERGING Consortium completes the 2nd Review Meeting in Patras

The CONVERGING consortium successfully held its 2nd Review Meeting on 4–5 November 2025 in Patras, Greece, hosted by the Teaching Factory Competence Center (TF-CC). Partners presented progress across all work packages, highlighting major technical achievements, dissemination activities, and plans for the project's final phase. The review included live demonstrations from all four industrial pilots (automotive, white goods, aeronautics, additive manufacturing).

Reviewers and the Project Officer provided very positive feedback, commending the project's results, demonstrators, and strong collaboration between industrial and academic partners. The meeting marked an important milestone as CONVERGING moves towards impactful final results.



# UPCOMING EVENTS

## HaDEA Showcase Event 2026

CONVERGING will participate in the HaDEA Showcase Event 2026, organized by the European Health and Digital Executive Agency (HaDEA). The event will take place on **19 January 2026** in **Brussels** (and online), bringing together representatives from European institutions, industry, and the research and innovation community to highlight how EU-funded projects contribute to Europe's competitiveness and preparedness.

HaDEA Showcase Event 2026 is a full-day hybrid event starting with welcome sessions, followed by keynote speeches, high-level panel discussions, project exhibitions, and networking opportunities. The programme focuses on demonstrating the concrete impact of EU funding across strategic areas such as industry, digital technologies, health, and space, while fostering synergies between EU programmes and stakeholders.

Our project will be featured in the panel discussion “Boosting Innovation and Enhancing Competitiveness”, which focuses on how EU-funded research and innovation strengthen Europe’s industrial base and support the green and digital transitions. It will be represented by [Nikos Dimitropoulos, LMS](#) who will share insights on human-centric, AI-enabled, and reconfigurable manufacturing systems.

[Read more](#)



## A GLIMPSE INTO CONVERGING BLOG POST



Delve into our Blog Post Section, and be informed about the latest news, landscape of HRC in industry, challenges, innovation, and opportunities.



### Automated Configuration of BaSyx DataBridge using Standardized Asset Administration Shell Interface Modelling





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The EU-funded **CONVERGING** project brings together 16 high-profile partners from several EU and Asian countries consisting of 5 research organizations and 11 industrial partners.



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