

PRESS RELEASE

New technologies for human-centred manufacturing meet in Madrid

- *On October 8th, the Tekniker technology centre will bring together experts from the manufacturing sector to discuss successes and strategies aimed at transferring technology and improving business competitiveness*
- *Four panel discussions will address challenges and trends associated with digitisation, collaborative robotics, additive manufacturing and sustainability*
- *The seminar forms part of the FIDELIA network and is funded by CDTI (the Centre for Technological Development and Innovation)*

[\[Madrid, September 25 2025\]](#) – The new paradigm of human-centred manufacturing situates workers in the centre of production processes. The aim of this approach is to set up work environments where technologies can be used to boost technological skills within a collaborative environment to enhance productivity, workers' satisfaction, social accountability and resilience in the manufacturing industry.

It is in this scenario where new tools such as artificial intelligence (AI), collaborative robotics or interconnected production systems are to be presented as an opportunity to improve human-machine coordination in advanced manufacturing environments.

Consequently, the **Tekniker** technology centre, a member of the Basque Research and Technology Alliance (BRTA), will host a technological seminar in Madrid on October 8th from 9.00 – 14.30 called "[El futuro de la industria: fabricación centrada en las personas](#)" (the future of industry: human-centred manufacturing) during which experts will gather to share experiences, successes and the strategies deployed to transfer technology and improve competitiveness.

Luis Uriarte, director general of Tekniker, will open the event together with Ms. Teresa Riesgo, secretary general for innovation from the Spanish Ministry of Science, Innovation and Universities and Ms. Sara Hernández, the mayor of Getafe.

Four panel discussions

The programme will feature four panel discussions, each one covering a specific sector. The first panel will address digitisation, smart industries and AI to analyse how algorithms can be applied to plan processes, optimise resources and facilitate decision-making in production environments.

Robotics and automation will be the central topics of the second panel that will explain the implementation of collaborative robots (*cobots*), viewing systems and automatic control solutions used to enhance accuracy and reliability in the area of manufacturing and to also reorganise repetitive tasks aimed at increasing plant efficiency.

Additive manufacturing is the main subject of panel three. Discussions will focus on the potential 3D printing offers in the area of industrial production by using techniques that facilitate the creation of complex and customised parts and provide design approaches adapted to this technology. The analysis of the materials used to make these parts as well their dimensions, mechanical properties and quality levels will constitute the main focus of this debate.

David Fernández, the person in charge at Tekniker of the unit that deals with the manufacturing and machine tool sector, explains that “3D printing offers new possibilities in terms of producing high-quality customised parts that will reduce costs and speed up development times”.

Lastly, the programme will close with sustainability and new materials. This session will showcase innovations that produce less environmental impacts and explain circular economy models and lightweight, resistant materials that will help to diminish costs and emissions throughout a production cycle. Discussions will also explain why production processes must consider adopting a sustainable approach aimed at consuming less materials and energy to minimise environmental impacts.

Fernández underscores that “costs and emissions can be reduced thanks to sustainable actions and new materials. Consequently, production processes can become more efficient and environmentally sound”.

All of these subjects will be discussed by experts from organisations and companies such as AFM Cluster, Cognizant, Grupo Oesía, Ibernova, Hisparob, Basque Automotive Manufacturing Center (BaM), Fagor Automation, GMV, Horse, SECPHO, Aerotecnic, Bronymec,

NOVAINDEF by Sicnova, Airbus Operations, Isemaren, Jinko Solar and The Boeing Company together with several Tekniker researchers.

New premises in Madrid

The event will serve to introduce Ms. Esmeralda Cuevas, the newly appointed director of Tekniker's branch in Madrid. The fact that she has joined the organisation will serve to reinforce the technology centre's activities in a region where a number of projects geared towards businesses and public companies are currently in progress. Cuevas will participate in the opening session to explain the most relevant lines of work done by the Getafe branch to establish a connection between the industry and R&D&i actions.

The seminar, supported by the Getafe Town Council, will be held within the framework of FIDELIA, an open innovation network funded by CDTI (the Centre for Technological Development & Innovation) whose aim is to establish connections between the production fabric and technology centres and agents already operating in the R&D&I system.

More about Tekniker

Tekniker is a Basque technology centre specialised in advanced manufacturing, materials and surface engineering and ICTs for production. Its mission is to deliver growth and wellbeing to society at large via R&D&i and to sustainably enhance the competitiveness of the business fabric. Tekniker is a member of the Basque Research and Technology Alliance (BRTA) with headquarters in Madrid.

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