

# TOOLS FOR SUSTAINABILITY AND DIGITAL TRANSFORMATION OF THE AGRO-FOOD SECTOR . DIGISOST

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## AIM

Region of Murcia Development Agency (INFO)  
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Support for the agri-food sector in the Region of Murcia to act about the challenge that lies ahead in the transition towards a digital economy, applying it to all phases of the company to create a more efficient industrial fabric without ever forgetting its sustainability. Duration: 2023 and 2024



**IUFST**  
SEPTEMBER 8-12, 2024 RIMINI - ITALY  
22nd World Congress  
of Food Science and Technology

## ACTIVITIES

1. TECHNOLOGICAL MONITORING IN DIGITALIZATION OF THE AGRO-FOOD SECTOR FOR THE REGION OF MURCIA.
2. KNOWLEDGE ACQUISITION AND TRANSFER.
3. REPORT ON FOOD LEGISLATION.

## RESULTS

- During the second half of 2024, 80 results have been collected **for the Digitalisation theme** with the keywords among which are *industry 4.0; artificial intelligence AND food and; sensor AND food* . The accepted results have been added to the information available with the review of reports published by the Ministry of Agriculture, Fisheries and Food in the activity of the Digitalisation Observatory of the Agri-Food Sector, as well as the search through other entities with great activity in artificial intelligence, robots, etc. The news entitled “ Scientists tap AI to elevate plant-based meat texture for enhanced consumer appeal ” published in November 2024 and collected from its source foodingredientsfirst.com stands out. In the field of the Circular Economy, numerous results have been achieved, exceeding 1,000 and with nearly 30 transferred to the sector. The news entitled “Beer pomace becomes vegetable snacks with the help of Better Balance” published in September 2024 on revistaaral.com stands out.
- CTNC has issued a new Technology Surveillance Report where the collection and analysis of information from bibliographic sources such as specialized digital media, technical and scientific journals; and databases ( Science Direct, Espacenet , Enterprise European Network, etc.) on digitalization that affects the agri-food sector has been carried out. In addition, to achieve our objective of technology transfer, the search for Digitalization companies in the Region of Murcia has been proposed. The information is presented in different sections for easy viewing and a reference section is included to include those results related to scientific articles, doctoral theses and R&D&I projects, mainly.
- Participation in the 22nd World Congress of Food Science and Technology in September 2024 in Rimini (Italy) provided an updated overview of new technological trends that will impact the future of the food industry, particularly in the fields of digitalisation and revalorisation of by-products. The innovations identified have high potential for application in the industries with which the CTNC collaborates, as well as in the projects in which it participates.
- A new training action and digital transformation sessions have been carried out in the sector, on artificial vision in food processing. It was shown how through UST's way of working and AI Vision, Machine Learning , IoT and Automation solutions, different challenges in food processing and the supply chain can be solved, such as inventory management, process adherence, productivity, quality, packaging, safety, losses, production equipment, logistics planning, etc.
- Other projects in line with sustainability have also been submitted to the call for INFO Grants for the contracting of Innovation and Competitiveness services (CHEQUE INNOVACIÓN), promoting technology transfer with companies in the Region of Murcia, specifically related to the use of innovative technologies that promote industrial competitiveness. A total of 10 proposals were submitted in July.
- They have been kept meetings and gatherings of scope international achieving the participation of companies regional and the CTNC itself in consortia for proposals from the Horizon Europe programme and others programs Europeans as INTERREG NEXT MED: **3 collaborative proposals (BRIDGE, HEEFTA and LETSGROW)** . Being this last a success from December 2024. The SEIMED CTNC collaboration has been maintained .
- Weekly newsletters have been published containing a total of 128 new legislative developments.



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Ecosistema de Innovación NUTRIALITEC (ECO-20241004), subvencionado por el CDTI y que ha sido apoyado por el Ministerio de Ciencia, Innovación y Universidades del Gobierno de España