

TOMATIA: AI for quality tomatoes

Artificial Intelligence and precision agriculture to improve the quality of industrial tomatoes.

The Tomatia project applies innovative information technologies to measure the yield and quality of industrial tomatoes.

The onTech Innovation cluster has coordinated this initiative, funded by the Ministry of Industry and in which the University of Seville and the companies Rovimática, Nazaríes inteligencia and Cartagon have worked.

The Tomatia project, which focuses on the application of information technologies and precision agriculture to improve the quality of industrial tomatoes, has developed advanced tools with which to estimate their production. Coordinated by the onTech Innovation cluster, the initiative has the collaboration of the University of Seville and the companies Rovimática, Nazaríes inteligencia and Cartagon.

The consortium formed for the development of the project has created tools that integrate technologies based on Artificial Intelligence (AI) algorithms, in order to evaluate the production and yield of industrial tomato crops. Through advanced monitoring and validation with sensors and cameras, the team has managed to implement these new technologies to optimise production and facilitate decision-making in real time.

AI is increasingly present in the food industry with the aim of improving efficiency and product quality. In the case of Tomatia, its application allows for a **more accurate estimation of yield and quality of industrial tomatoes**, providing growers with valuable information to make adjustments during harvesting and processing, as well as to implement preventive measures to avoid losses and improve the quality of the final product.

One of the key challenges when using **AI algorithms in the food industry is to ensure their accuracy and reliability**. To address this challenge, the Tomatia consortium has carried out a rigorous process of fine-tuning and industrial validation of the developed tools.

This breakthrough in the application of AI in the food industry is yet another example of how technology can be used to improve product quality and efficiency, as well as to optimise decision-making and the production process. The successful implementation of AI algorithms in this sector could open up new opportunities to improve the quality and efficiency of food production globally.

Tomatia is an R&D project funded by the Ministry of Industry, Trade and Tourism as part of the Support Programme for Spanish clusters, with the aim of improving the competitiveness of Spanish industry. It is also supported by the European Union through the Recovery, Transformation and Resilience Plan. The consortium working on this initiative is made up of onTech Innovation, two research groups from the University of Seville, the Smart Biosystems Laboratory Group (PAIDI AGR-

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278) and the Engineering and Science for Software Systems Group (PAIDI TIC-021), and the companies Rovimática, Nazarías inteligencia and Cartagon.

SOME PICTURES...



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AURORA PROJECT AT A GLANCE

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