Experimentation implementing robotics in agricultural processes

Provider service

HISPATEC

Link to content

https://agrifoodtef.eu/catalogue-of-services/experimentation-implementing-robotics-agricultural-processes

Type of Sector

Arable farming, Greenhouse, Horticulture, Tree Crops, Viticulture

Accepted type of products

Physical system

Type of service

Collection of test data, Performance evaluation, Test execution, Test setup

Description

This pilot service focuses on the integration of robotic systems into agricultural processes, enabling the automation of key tasks such as planting, harvesting, and crop monitoring. By combining robotics with advanced software, this service improves operational efficiency, reduces labor costs, and enhances the precision of agricultural tasks. The integration ensures that robotic systems work seamlessly within existing workflows and provide consistent, high-quality performance.

How can the service help you

The service helps agribusinesses automate labor-intensive tasks, reducing the need for manual intervention and increasing operational efficiency. By implementing robotics for tasks such as planting and harvesting, the service allows for more precise and timely execution of agricultural activities, leading to improved productivity and reduced labor costs.

How the service will be delivered

The robotic systems and software configurations can be customized based on the client's specific crops, operational needs, and scale of production. The service can also be tailored to automate specific tasks, such as targeted harvesting for certain crops, precision planting, or detailed crop monitoring.

Service customisation

The service is delivered through the on-site installation and integration of robotic systems with the client's existing production processes. Software is configured to control the robotic systems, and extensive testing is carried out to ensure smooth operation. The service also includes training for the client's staff on how to operate and maintain the robotic systems. Ongoing support and system updates are provided as needed.