



PRESS RELEASE

RESI S.P.A. JOINS THE HORTIQD PROJECT

The Italian company, a leader in engineering, development, and management of network monitoring systems, continues to strengthen its presence in European research projects.

The HortiQD project was developed in response to the call for proposals under the Horizon Europe program. It involves collaboration between European companies and research institutions, including Fraunhofer ENAS (project leader), ST Microelectronics, SITIA, CEA, ABS, and InHort.

The project aims to develop a cost-effective artificial vision system for use in agriculture, specifically in orchards and intensive vegetable gardens. A new hyperspectral sensor in the near-infrared spectrum will be developed and mounted on an autonomous tractor for advanced monitoring of apple crop harvesting. The collected data will be sent to a system capable of assessing the plant's health and correlating this information with other relevant data to provide context and enrichment.

RESI S.p.A. is responsible for designing and implementing the Data Collection & Correlation System (DCCS) and leads WorkPackage 3, "System optimization, integration, and algorithm teaching," during which all subsystems will be assembled and integrated. The DCCS will collect data from multiple sources (such as field sensor data, maps, historical and forecast weather data, and environmental data time series) and correlate them to provide a more comprehensive view of the orchard's health. The analysis results will be presented to the owner in the form of maps and mission reports, serving as a decision support tool to improve farm performance. Alarms or alerts based on this system can be sent to other systems based on defined rules and user requests.

The project aims to increase yield and improve crop quality while simultaneously reducing the use of chemical substances (pesticides) used to control pests, in line with the European strategy "Farm to Fork" (F2F) and other sustainability objectives of European agriculture.

Furthermore, the proposed system represents another step forward in the introduction of automation in agriculture, allowing for the synthesis of appropriate response plans based on field-acquired information about the condition of the plants.



About RESI S.p.A.

For over thirty years, RESI S.p.A. has been a technological partner to the largest Service Providers, safeguarding and advancing their most valuable asset: their network. Our years of experience and consolidated expertise, combined with ongoing investments in R&D, enable us to translate our clients' real needs into practical solutions. We develop advanced ICT solutions for managing 5G and 4G networks, ensuring a superior level of quality of experience for end-users both nationally and internationally. Our company and its personnel are distinguished by a strong engineering know-how in the design, development, and management of Service Assurance solutions. We utilize proprietary Deep Packet Inspection technology for this purpose. Additionally, we offer Quality Assurance services within the contact center domain and Digital Transformation solutions for both private and public enterprises.

