

ROVITIS 4.0 - Autonomus robot connected to DDS for a sustainable and efficient management of the vineyard

Leading partner: Az. Agricola Giorgio Pantano

Other partners: Terre Grosse, Confagricoltura Veneto, Energreen, CREA, University of Maribor, CIRVE, CET Electronics

Type of project: EIP AGRI

Theme: agriculture

Duration of the project: january 2018 – january 2021

Grant: 680 000 EUR

Practical problem: to solve the problem of complete automatization in vineyards

ROVITIS 4.0 - Operational Group focusing on innovative system for the viticultural sector based on a robotic management - robot/sensors/DSS

Expected results: The purpose is the realization of a self-managed farm able to intervene in the fields when it is really necessary, minimizing human-labour intervention. The benefits are: economic (labor reduction, resource optimization, better production), environmental (phyto-pharmaceuticals reduction) and social (reducing operator risks).

Group progress: so far the operational group has completed two prototype autonomus robots, one based solely on RTK-GPS system and one robuster version with multiple sensoric systems to support autonomus application of plant protection products in vineyards.

Estimated compleation: is expected for 2020 with a support of machine interaction and evaluation.



Farmers:

The solution reduces the need for human labour, resource optimization and better quality production.

Consultants:

A new way of farming that will change how farmers work and produce food for the growing amount of population.

Reserchers:

Reserch work is put to the pratictal test, by applying state of the art algorithm to produce the next generation of faming machinery.

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ROVITIS 4.0



FONDO EUROPEO AGRICOLO PER LO SVILUPPO RURALE: L'EUROPA INVESTE NELLE ZONE RURALI

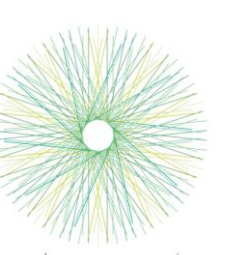


REGIONE DEL VENETO



PSR VENETO 2014-2020

ROVITIS 4.0 is an Operational Group of the EIP AGRI: the European Innovation Partnership for Agriculture productivity and sustainability



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