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MONITORING OF WITHIN-FIELD VARIABILITY AND PRECISION APPLICATIONS AIMING AT EFFICIENT AND SUSTAINABLE VITICULTURE





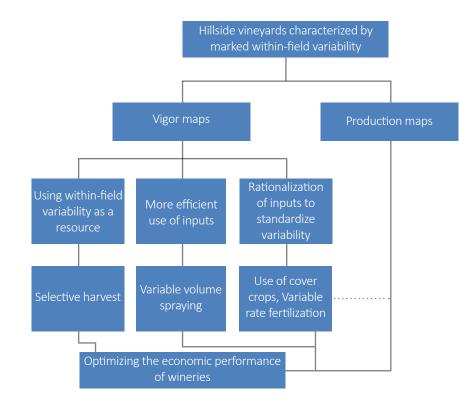
www.ripreso.eu

This project was developed within the regional program for rural development 2014-2020 • Operation Type 16.1.01 •

Operational groups of the European Innovation Partnership "Agricultural Productivity and Sustainability" • Focus Area 2A •

## **Project overview**

The main objective of RIPRESO is to optimize the economic performance of wineries through the use of remote sensing data functional to the site-specific application of the input. Through a more widespread diffusion of precision viticulture, the Plan aims to combine elements of technological innovation and winemaking tradition, in order to harmonize often divergent concepts such as efficiency, productivity, high quality standards and reduced environmental impact.

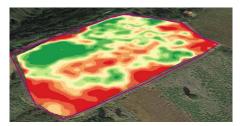


The Plan aims to set the basis for the use of high-tech solutions for the management of modern vineyards that, while respecting tradition and local identity, are able to respond to future challenges of competitiveness also in response to climate change.

## **Expected results**

Identification of a management strategy aimed at standardizing the variability of the vineyard. Through the implementation and planning of variable rate interventions (cover cropping, fertilization), the Plan aims to maximize the efficiency of exogenous inputs, improve productivity and quality of production and reduce the environmental impact of viticulture.





**Promotion of selective harvesting,** be it manual or mechanical, as a **dual tool for the valorization of variability** for diversification and improvement of prduction as well as adaptation to climate change Reducing the use of copper through a variable rate defense strategy based on the adjustment of the spraying volume in proportion to the canopy vigor detected in real time by a proximity sensor



The results of the Plan will be promptly transferable to wineries in the area where the theme of withinfield variability is recurrent, with undoubted economic and environmental benefits. The Plan aims to promote business innovation with respect to the theme of digitalization and encourage the adaptation to regulatory restrictions in terms of the use of inputs (eg. N, Cu). The use of proximity sensors will simplify, compared to remote sensing, the access to remote sensing data, allowing immediate applications.

