



*Redefining Pest Management - a Holistic Approach*

## Practice Abstract N° 25

### Field evaluation of the OPTIMA IPM system: Vineyard case

The main objective of the European project OPTIMA, funded by the H2020 program, has been the development of tools for the implementation of Integrated Pest Management. A decision support system (DSS), a device for the early detection of diseases (EDS) and three variable application equipment (vines, carrots and apple trees) have been developed. In addition, a complete guide on the use of bio-PPPs has been prepared: what products to use, how to combine them and how to apply them. The developments have been evaluated in the wine-growing area of Canelli (Italy), in collaboration with farmers in the area.

Regarding the decision support system, the results have not shown improvements compared to other systems already used by producers. However, the proposed strategy for the use of bio-PPPs showed similar results to those obtained with the conventional application, being possible to reduce the amount of PPP. As for the variable application equipment (modification of the air flow and the amount of phytosanitary product), the results have made it possible to reduce the amount of product applied (18%) and reduce the amount of product lost due to drift (64%) in comparison with the technology used by farmers. And all of this while maintaining the same pest and disease control values. In line with what is established in the European strategy from the field to the table.



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