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STRATEGIC PARTNERSHIP IN THE FIELD OF
VOCATIONAL EDUCATION AND TRAINING

PROJECT
Drone European Platform

PROJECT NUMBER N.º 2017-1-ES01-KA202-038136

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**Use of drones in examining the ripening of
grapes and real-time monitoring of the
situation of each plot**





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Title	Grape Harvest 4.0
Summary	Use of drones in examining the ripening of grapes and real-time monitoring of the situation of each plot.
Main working area	Agriculture
Key Facts	Location: Verona and Vicenza
	Target group: Innovative farmers of grape harvest
	Other stakeholders: Confagricoltura's associated and network
	Objective: Make more efficient and understanding more accurately the state of health of the grape harvest, to carry out mapping, take measurements with photogrammetric on the rows and calculate the wine lists.
	Timeframe: August / November 2018
Context and problems addressed	Understand the health status of the plantations, carry out mappings, take measurements with the photogram technique on the rows and calculate the vineyard files, fight the cochineal since the plant protection products have shown little effectiveness.
How to use it	Used to examine the vigour of the grape leaf, important to plan the harvest with precision and timing and to understand where the fertilization is more correct, in order to be able to elaborate for the future a targeted plan based on the actual needs of the vine.
Validation	The practice has been validated by the <i>Confagricoltura Veneto</i> association which has decided to put drones to the disposal of its associates in order to improve their grape harvest.
Impact	Greater control over both the quality of the food and the way it is grown. Thanks to these projects there will be a greater awareness of good nutrition.
Success and Innovation factors	These technologies are part of our lives and speed up all those actions where more people are needed.
Contraptions	Necessary professional figures in drone piloting, high costs.
Lessons learned	It favours a greater amount of information on the land where it is grown.
Sustainability	The drones do not pollute and are silent compared to chemicals.



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Teacher/student	<i>"For the harvest of this year I used it to examine the vigor of the grape leaf, which is important to plan the harvest with precision and timing and to understand where the fertilization is more correct, so that we can work out a plan for the future. targeted on the actual needs of the vine. I also performed a precise company mapping of the vineyard area and a video with images from the top of the company, very spectacular. Viticulture is being modernized and we want to keep up with the times. We are moving towards very precise technologies that will lead to further developments. Maybe even in the fight against pests with the launch of useful insects, an interesting prospect for combating cochineal since plant protection products have shown little effectiveness ". Christian Marchesini, president of the winegrowers of Confagricoltura Veneto,</i>
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