



Università Ca'Foscari Venezia

PROJECT ACRONYM AND TITLE: ACQUA-VITIS - Innovative solutions for efficient water use in cross-border viticulture

FUNDING PROGRAMME: INTERREG V-A ITALIA-SLOVENIA 2014-2020

CALL: BANDO 7/2019 - ASSE 1 - PR.INV. Asse 3. O6f.

SCIENTIFIC FIELDS: innovative green technologies, waste management and water resources

HOST DEPARTMENT: Dipartimento di Scienze Ambientali, Informatica e Statistica

SCIENTIFIC RESPONSIBLE: Barbara Stenni

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 247.750,00	€ 127. 750,00

ABSTRACT:

Frequent droughts and high temperatures cause environmental stress, which causes a drop in water quantities. For this reason, water consumption indicators increase. This affects natural and agricultural ecosystems (in particular on sectors with a high "water utilisation index" such as viticulture). The cross-border area is vulnerable given its climatic, geomorphological and economic conditions (small companies). Water usage strategies must be outlined as soon as possible.

The Project will create a network for monitoring the quantity/quality of water and we will also develop green and innovative irrigation systems for vineyards (irrigation time compared to the water stress).

We also introduce a quick method for defining the water stress of plants with aerial hyperspectral imaging. Our website will guarantee fast information delivery. By optimising the use of irrigation water, we will improve the economic situation of farms and influence the sustainable consumption of groundwater. At least 15 cross-border farms will be participating with the new water consumption approach. With the development of the green economy, we will improve the competitiveness of this vulnerable area.

Planned Start date	Planned End date
01.03.2020	24 MONTHS

PARTNERSHIP:

1. Kmetijski inštitut Slovenije	SLO	Coordinator
2. Università degli Studi di Trieste, Dipartimento di Matematica e Geoscienze	IT	Partner
3. Università degli Studi di Udine – Dipartimento di Scienze AgroAlimentari Ambientali e Animali	IT	Partner
4. GEODETSKI INŠTITUT SLOVENIJE	SLO	Partner
5. Kmetijsko gozdarska zbornica Slovenije, Kmetijsko gozdarski zavod Nova Gorica	SLO	Partner
6. Università Ca' Foscari Venezia	IT	Partner