



Ca' Foscari  
University  
of Venice

**PROJECT ACRONYM AND TITLE:**

**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:** Department of Environmental Sciences, Informatics and Statistics

**SCIENTIFIC RESPONSIBLE:** Barbara Stenni

**FINANCIAL DATA:**

| Project total costs | Overall funding assigned to UNIVE |
|---------------------|-----------------------------------|
| € 247.750           | € 127.750                         |

**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:**

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