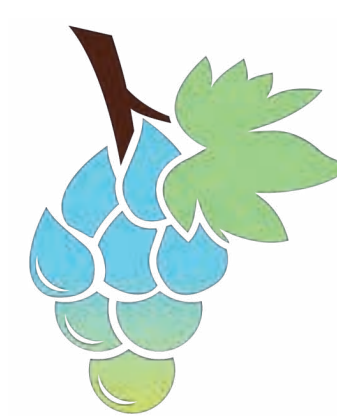


# Regavid

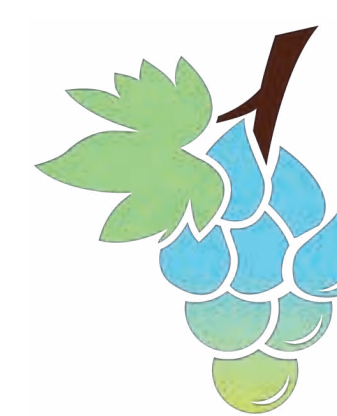
## Irrigation management tool to assess vineyard current hydric needs and predicts future ones

### What is REGAVID?

In the current conditions of climate change, even in temperate areas such as Galicia, where is a downward trend in rainfall, the development of a sustainable irrigation strategy that facilitates the efficient use of irrigation water is crucial



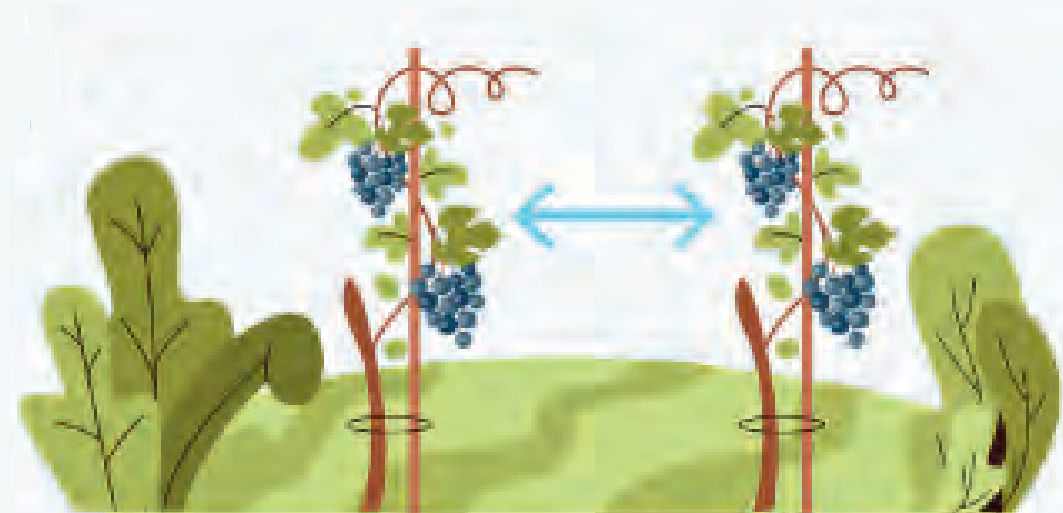
### OBJECTIVE



The main objective of the project is the development of an irrigation management tool that allows determining **the current water needs of the vineyard** and **predict future needs**

### ACTIVITIES

1



Definition of study areas (actuation units size and number of sensors to install), zoning with apparent electrical conductive map and soil analysis

2



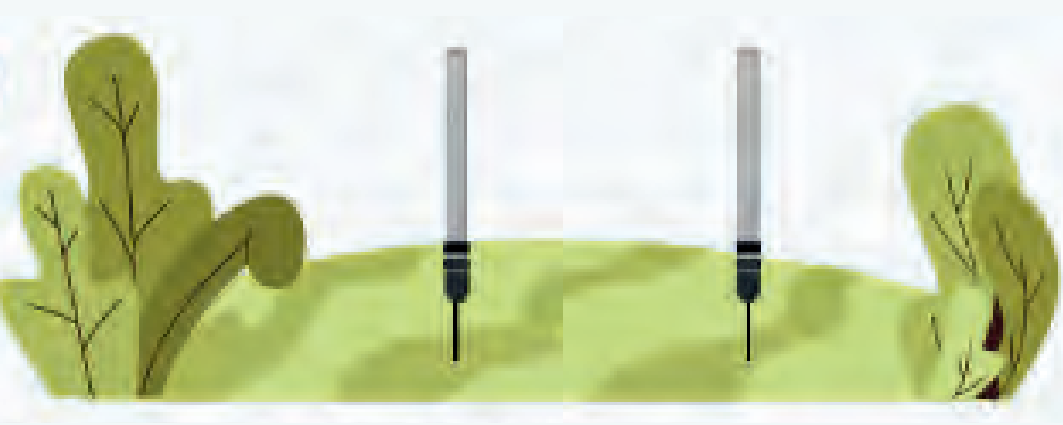
Installation of equipment (soil sounding lines, TDR checkpoints and control counters of the applied water volume) and irrigation system evaluation

3



Definition of treatments (dry land areas, frequent irrigation areas of the winery, irrigation area identified by the tool developed)

4



Measurements of soil water content with TDR sounding lines

5



Field controls (charge equilibrium, phenology and agronomic practices monitoring, vegetal canopy characterization, determination of the exposed foliar surface, maturation tracking, production evaluation and grape juice analysis)

6



Development of models (correlation of sensors and TDR measurements, cultivation coefficient adjustment, current hydric needs modelling, 7-days reference evapotranspiration and cultivation coefficient prediction models) and development of an irrigation management tool



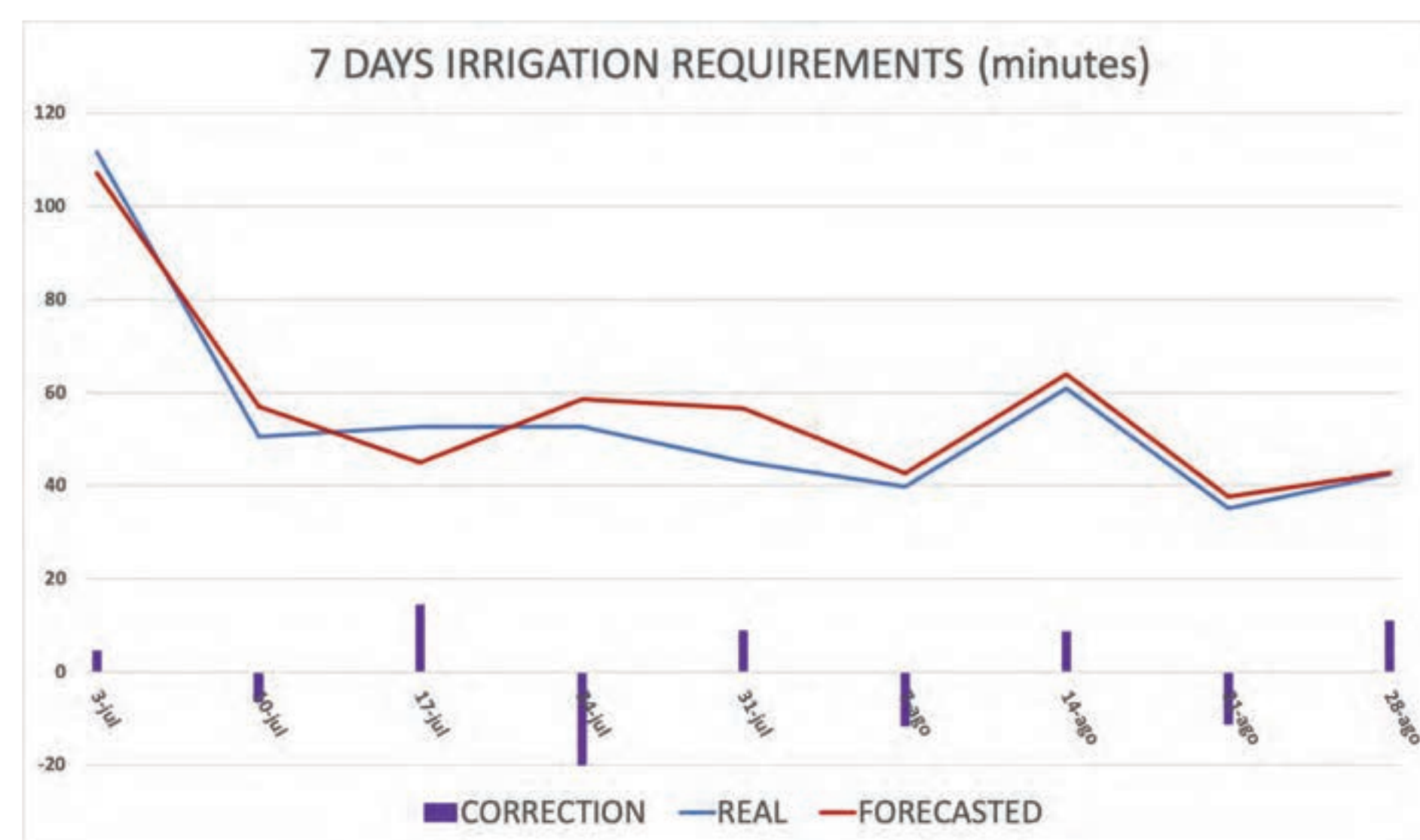
### RESULTS



The flexible irrigation management tools based on climate data predicted with one week in advance are key for irrigation management in temperate climates.

Main difficulties are the existence of extreme weather events and the need for accurate rainfall predictions one week in advance.

Weekly, the winery is informed of the timing for starting irrigation, adjusting the calculation with the correction obtained from the previous week.



### Who is it for?

- Wineries and Cooperatives
- Certificates of Origin Regulation Councils
- Machine and technology builders related to the sector
- Private winegrowers
- Public Administrations related to agriculture, environment and rural development
- Research centers
- General public

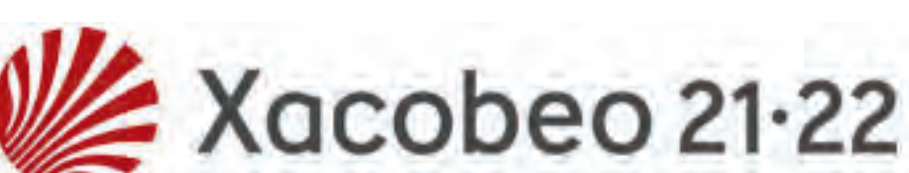
### Who are the partners of REGAVID?



fundación empresa universidade gallega

TOTAL BUDGET: 180.000,00€ (100% FUNDED)

CO-FINANCING EU: 75% EAFRD



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