



Biosensor Network Project

Creation of a network of agroclimatic sensors to help organic agriculture adapt to climate change. The network consists of points located in irrigated crops (fruit, orchard, almond and olive trees) and rainfed crops (olive trees and vineyards). A total of 9 soil humidity and temperature stations and 3 microclimatic stations have been installed. At each point, agro-climatic conditions and crop performance are monitored, and different management strategies are evaluated to optimise water use, favour crop performance and health, and improve soil fertility.



We analyse temperature and water status in different types of soils and crops

We evaluate irrigation systems and irrigation dosage

We develop protocols for vegetation cover management

We study the effects of water stress on crop performance and health

Dissemination of generated knowledge

Climate risks addressed:



Increased irrigation requirements



Changes in the distribution of agricultural species and alteration of crop cycles

Start date: 19/12/2024

Lead partner: Associació Leader de Ponent

Collaborating entities: ADV Ecològica de Ponent, SAF Sampling

Location: àrea agrícola de Ponent

Budget: 42.358,00 €

Action co-funded by the Climate Fund of the Government of Catalonia

Co-creating strategic action to adapt territories and the local economy to climate change



8 years
until 2030

18,6 M€
budget

25
partners

60 %
Catalonia

+1.800
Involved

+76
planned actions

+73 M€
investment in
other actions

+900.000
inhabitants

