



Agriculture IoT Suite

PRECISION AGRICULTURE FOR THE WINE SECTOR • AUTOMATION OF IRRIGATION

Precision agriculture



Wineries

Producing more grapes and increasing the quality of the wine produced is the winegrower's need and precision agriculture can help farms achieve their goals.

The fundamental of precision viticulture is to manage each vine in a different way, giving it exactly what it needs when it needs it.

The smart and integrated use of sensors allows you to automate the irrigation process, a sustainable use of resources, the analysis of the soil

and environmental conditions. Thanks to this it is possible to manage the vineyard with an optimal use of fertilizers.

The processing of the environmental and soil data collected by field's sensors allows to identify the areas where diseases could develop and proceed in time with the treatments. This process identify plant diseases, such as downy mildew and powdery mildew, the main enemies great winegrower enemies of winemaker.

Environmental management of cellars

The production and storage of wine in a wine cellar, or of balsamic vinegar in an acetaia, requires a constant temperature, a controlled humidity rate, clear ventilation and light conditions.

Urbana's IoT sensors allow to monitor all these parameters at the same time from multiple points in the cellar or vinegar cellar:

- ambient temperature
- humidity degree
- illumination degree
- air quality

Every single parameters variation is registered and can be managed. The staff is notified with a notification allowing timely intervention.



Automation of irrigation

To manage water resources appropriately, Urbana proposes an IoT solution able to monitor and control the supply of water. This system allows user to stay updated on the changing conditions of agricultural environments by monitoring, through wireless sensors, the temperature and humidity of the soil. Having precise data on certain parameters available, Farmers can improve the planning and distribution of the irrigation system, thus obtaining a better result with lower water consumption.