

4Vines

Engineering's Wine Industry Platform

powered by Digital Enabler

WHAT IS IT?

DE4Vines is the advanced monitoring system of the environmental and physio-pathological conditions of the vineyard that is based on the constant collection of data. Micrometeorological values picture the state of cultivation in real time and, once archived, allow long-term analysis.

WHAT DOES IT DO?

DE4VINES allows you to plan and carry out interventions thanks to precise scientific parameters. The data transmitted by sensors to Engineering D.HUB data center is processed and, when predetermined events occur, the software is able to automate the sending of alerts.

HOW DOES IT WORK?



MULTICHANNEL WEB APP



WEATHER MONITORING



CROP SCOUTING OPERATIONS



RISK ALERTS



DB PLANT PROTECTION PRODUCTS



PRODUCTION SUPPORT

- Simplified and intuitive access through multichannel platform
- Organize and plan tasks
- Crop control and monitoring
- Develop statistics and forecasts
- Enabling all company roles to carry out their activities with role-based custom views.

SMART AGRICULTURE: PORTFOLIO MAP



WHAT VALUE FOR OUR CUSTOMERS?



Multi-role collaboration and management of farm consortia



Reduction of disease risks



Reduction of management costs of cultivation processes



Increase and homogenization of soil yield



Product characteristics optimization, quality increase



Reduction of the environmental impacts of cultivation processes

TECHNOLOGICAL FEATURES

BASIC SENSORS FOR DSS OPERATION

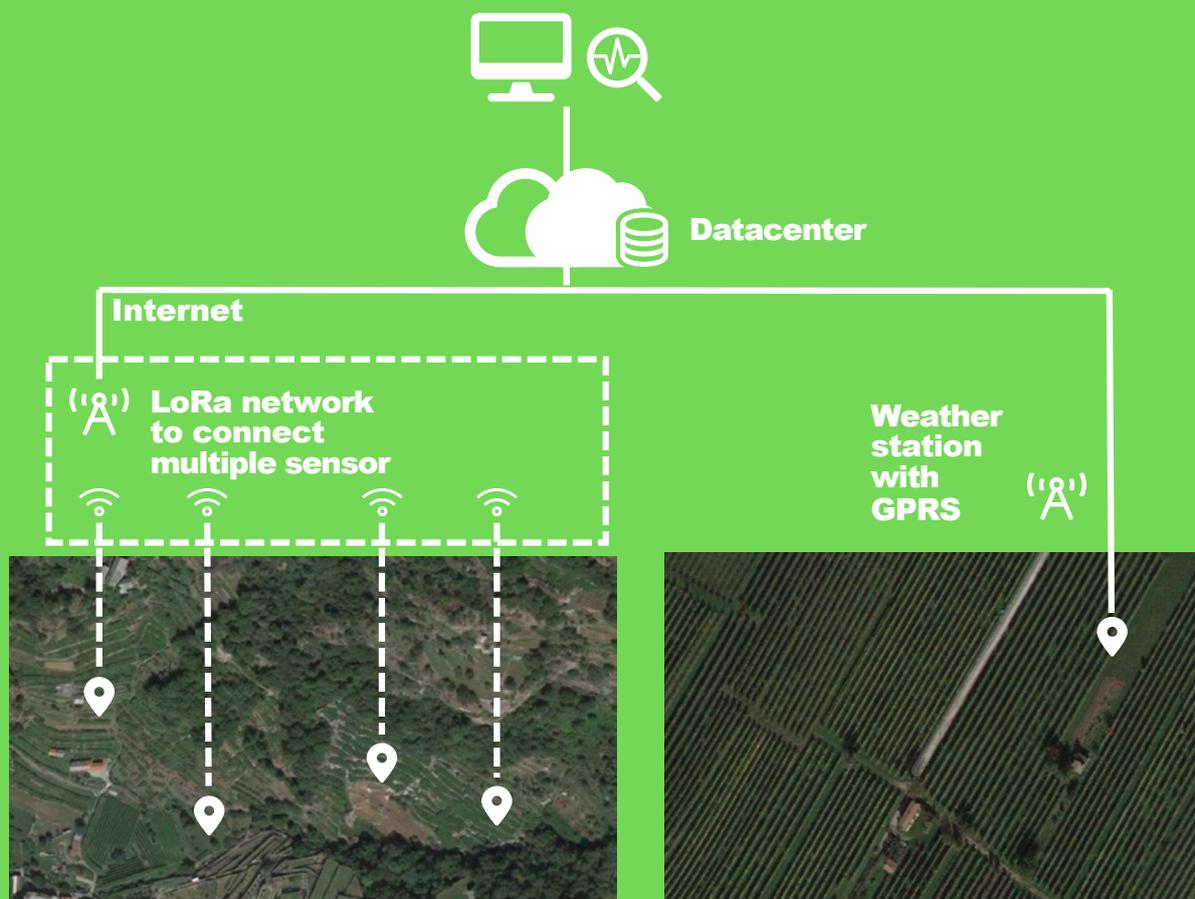
- **Weather Station:** anemometer, barometer, thermoigrometer and rain gauge
- **Leaf wetting sensor:** Detects wetting on the surfaces of the leaf.
- **UV sensor:** Detects ultraviolet rays that affect plant growth.
- **Solar radiation:** Measures the intensity of radiation.

OPTIONAL SENSORS

- **Thermoigrometer:** Detects the temperature and humidity of the air and dew point.
- **Luximeter:** Measures lighting levels.
- **EC:** Measures the conductivity of the soil.
- **Soil moisture sensor:** Allows you to control the amount of water present in the soil.
- **Tensiometer:** Measures the effort of the roots to extract water from the soil.
- **Dendrometro:** to control the physiology of the plant and its health.
- **Camera module:** Camera I.R. – Thermo

CONNECTIVITY

- **GPRS** for farms with a unique microclimate area
- **LoRa** suitable for farms with multiple microclimate areas, or where a Lora Wan is already available
- **NBLoT**



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