

## Vodafone Spain & Bodegas Familiares Matarromera



### Source / Link:

<http://www.castillayleoneconomica.es/noticia/matarromera-finalista-de-los-premios-nacionales-industria-conectada-40>

#### Technology area:

- Artificial Intelligence
- Big Data
- Digital Twins
- IoT and IIoT
- Cybersecurity
- VR/AR
- Robotics
- Automation
- System Integration
- Smart Sensors
- Additive Manufacturing
- Other

#### Type of good practice:

- Company
- Project
- Initiative
- Programme
- Other

#### Target group:

- Discrete (smart) manufacturing
- Automotive
- Aerospace
- Metal processing
- Consumer goods
- Pharmaceuticals and chemistry
- Food and agriculture
- Health
- Textiles
- Others

#### Summary:

Vodafone Spain has started the implementation of a technological initiative based on IoT technology to manage the production activities of the winery Bodegas Familiares Matarromera, located in Valbuena de Duero (Valladolid), with the aim of improving energy efficiency, cost control and risk prevention. Vodafone provides a single data management platform, in which all the information from the connected devices is integrated and allows the winery to have greater control of all its production processes, such as the collection of grapes or bottling, and avoid both cost overruns and impacts on the environment.

#### Detailed description

This Internet of Things technology consists of installing sensors connected to a network in all those elements that the operators want to control and then taking advantage of all the information and data that is collected. In this sense, Vodafone has deployed different IoT solutions in the facilities in some of the most critical areas of Bodegas Familiares Matarromera that, through sensors, offer very accurate and real-time information of the entire production process of wine. Thus, all the data that is being collected allows the winery to act quickly and effectively in the event of detecting any setbacks or production related problems.

In addition to using an energy self-management system with solar panels, biomass boiler and water treatment planting, since its inception, Bodegas Familiares Matarromera has also been constantly

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adopting the necessary technologies that make the wine production process more efficient and sustainable. Thanks to those efficiencies obtained in the production processes, the company's spherical business model is driven based on the value it brings to society, and it further reinforces the company's commitment to sustainability.

### **Beneficial Results**

This initiative has led to many beneficial results for Bodegas Familiares Matarromera, some of which are:

- Improved energy management in order to control costs and performance in water, gases, electricity, and thermal heating and cooling systems;
- Better maintenance control of the different sites, especially in the cellars, as well as control of the barrel room, where humidity and temperature can be modified remotely without the need to be in the room;
- Possibility to monitor the grape in the winery, from the moment it enters the facilities until the end of the process, which allows predictive maintenance on all the machines that treat the grape in order to avoid equipment breakage;
- The collected data helps the company reconsider how it can improve processes in the future;
- Preventive control of possible occupational hazards;
- The operators can supervise all processes from one location and have total control over the machines and possible incidents.

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