

RESULT 2: OPEN PLATFORM FOR SHARING KNOWLEDGE

WP 1: Learning Environment for SMEs

CASE STUDIES DEVELOPMENT

Case study Bonne Vallée

Part 1: General information for the enterprise

1. Name **Azienda Agricola Bonne Vallée**
2. Location **Donnas**
3. Subject of activity **cereal cultivation and processing**
4. Legal status **General partnership**
5. Management
 - a. Gender: **Male** / Female / Other
 - b. Age: **up to 35** / 36-45 / 46-55 / 56-65 / over 65
 - c. Education: primary / **secondary** / higher
6. Farm size
 - a. cultivated land **5ha**
 - b. species and numbers of animals **none**

Part 2: Smart technologies used on the farm

The farm uses the automatic precision machinery “HORTObot”, made up of a wagon capable of moving autonomously along a field (direction X) and of a trolley (direction Y) installed above it, both moved with controlled speed and positions. The trolley houses the water tank and 7 individually activated nozzles, which allow the machine to perform autonomous management of the entire activity cycles.

The HORTObot software allows remote programming and control, to set all the work programs that will be performed by the machine. The machinery performs tasks with low added value such as sowing, furrowing, milling, transplanting and irrigation.

HORTObot tracks all operations and collects the data to perform analysis and assessments.

Part 3: Owners' satisfaction with the use of smart technologies

1. Utility assessment

Farmers are highly satisfied: the machinery is simple and intuitive and requires minimal supervision.

The farm has increased the production yields and reduced the time spent in the field, with a saving of time estimated from 30-90% depending on the operations.



ITFARM

The intelligent precision irrigation systems and the use of solar power has allowed for a rationalization of primary resources. Along with the use of renewable energy sources, with zero CO2 emissions, the machine has reduced also the use of phytosanitary, protecting soils and crops.

2. Potential risks

The machinery is not designed for large plots of land and does not work on slopes.

Part 4: Financing the investment in smart technologies

The machinery was lent by the startup that created it, which gave it in concession for testing the prototype. This allowed the farm to not to pay the large amount out of their pocket.

Part 5: Future intentions towards smart technologies

The farm is planning to buy technologies such as GIS and GPS, weather forecasts and soil sensors

<https://www.youtube.com/watch?v=4uKjUpZLirQ>

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