

RESULT 2: OPEN PLATFORM FOR SHARING KNOWLEDGE

WP 1: Learning Environment for SMEs

CASE STUDIES DEVELOPMENT

CASE STUDY "AGROMINI"

Part 1: General information for the enterprise

1. Name **Agromini**
2. Location **Collesano**
3. Subject of activity **regenerative agriculture**
4. Legal status **start-up**
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 **3ha**
 - b. species and numbers of animals **none**

AgroMini is an innovative startup dedicated to farms, land managers and stakeholders in the agri-food sector. AgroMini is a catalyst for the transition to regenerative agriculture, offering consulting and accompaniment for farms in the transition to a regenerative management of the enterprise, with the common aim of improving the ecological, economic and social health. Agromini monitors the soil regeneration by integrating a wide variety of digital tools with internationally recognized ecological performance indicator methods.

Part 2: Smart technologies used on the farm

Agromini has digital equipment such as a drone for aerial photogrammetric surveys, which makes it possible to map all the topographical features of the terrain (slope, degree/degradation of cultivation, chlorophyll indices, etc.). The mission of the flight is computer-programmed in advance and the drone always flies at a predetermined height so as to survey the terrain. Using special software, it is possible to develop a three-dimensional terrain model that allows the design of keyline irrigation systems. Keyline design makes it possible to connect water collection points, thus optimizing the use of water resources.

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

1. Utility assessment

The use of the drone makes it possible to plant following the elevation lines of the ground instead of the traditional slope of the land. This allows more water to be retained for longer, conveying it to where it is needed and thus saving water resources.

2. Potential risks

Software for analysing drone images is expensive and difficult to use.

Part 4: Financing the investment in smart technologies

The drone was purchased thanks to a subgrant by the European project [InnovAgroWoMed](#), funded by the Eni CBC Med programme.

Part 5: Future intentions towards smart technologies

In the future, Agromini will work on accounting for the farmed carbon grown in the soil. The process involves sampling soil through the spectrometer and monitoring it over time. This will make it possible to monitor the state of regeneration or degradation of the soil. This will lead to the implementation of the sale of certified and high-quality carbon credits on the international credit market.