

## RESULT 2: OPEN PLATFORM FOR SHARING KNOWLEDGE

### WP 1: Learning Environment for SMEs

## CASE STUDIES DEVELOPMENT

### APPLICATION OF TELEMETRIC STATIONS IN OIL TREE CULTIVATIONS

#### Part 1: General information for the enterprise

1. Name: " TO ΜΟΝΟΠΑΤΙ Α.Ε"
2. Location: GERAKI ILEIAS
3. Subject of activity: OIL TREES CULTIVATION
4. Legal status: GROUP OF PRODUCERS
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: OIL TREE CULTIVATION VARIETY KORONEIKI 56Ha, 100.000 TREES
  - b. species and numbers of animals

<http://monopati.oliveoil-po.com/>

#### Part 2: Smart technologies used on the farm

*What smart technologies does the farm have? When and where are they applied? Is the accumulated data used and how?*

*The group of producers has placed two telemetric stations.*

*The first one Stations is life Gaiasense telemetric station developed by NEUROPUBLIC*

*that accumulates data from a distance of 5km , concerning humidity, temperature , atmospheric pressure , sun radiation , speed and direction of the wind and rainfall . Sensors are placed one the leaves of the trees providing useful information about the tree's health conditions The accumulated data are used on a mobile app which informs the producers about all the cultivation practices that they should follow, such as irrigation, fertilizing, pruning, preventive measures for diseases and insect pests.*

*The second one is a telemetric station by Agenso . The sensors are placed in a depth of 40-50 cm in the ground . This telemetric station also provides information concerning irrigation*

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

1. Utility assessment

*Is the farm manager satisfied with the smart technologies used? What benefits and advantages have they brought him?*

*The producers are mostly satisfied*

*The app can help them organize the cultivation practices and keep a detailed calendar*

*Irrigation , fertilizing and agricultural preparations are only used when indicated .*

*Mass prevention measures of entomological enemies and diseases help to better manage them overall*

2. Observed difficulties and problems

*What difficulties have they encountered or are encountering in using the new technologies? How did they learn to work with them? Do they have maintenance and consumables issues?*

*The manufacturers come for maintenance once a year*

*There are no difficulties until today*

3. Potential risks

*Are they worried about issues such as post-warranty service, integration with next-generation technology, and being tied to a specific supplier or brand?*

*The warranty service is agreed with the manufacturers.*

#### Part 4: Financing the investment in smart technologies

*How is the purchase of the new technologies financially secured - own funds, bank loan, financing under a particular program? Do they think that the prices of these technologies are beyond the means of most farmers? Do they feel that the decision to purchase their devices was astute and effective?*

*The group of producers is financed by an OEF program and by measure 16.1-16.5 of the Ministry of rural development program , actionσ to protect the environment and adapt to climate change*

#### Part 5: Future intentions towards smart technologies

*Do they intend to continue using new technologies? Do they plan to purchase new types, and if so, what kinds? What are their intentions with the devices they own - do they plan to replace them with more recent generations as they become available?*

The group of producers is open to new technologies if there is national funding and assistance for their implementation



## Part 6: Some photos



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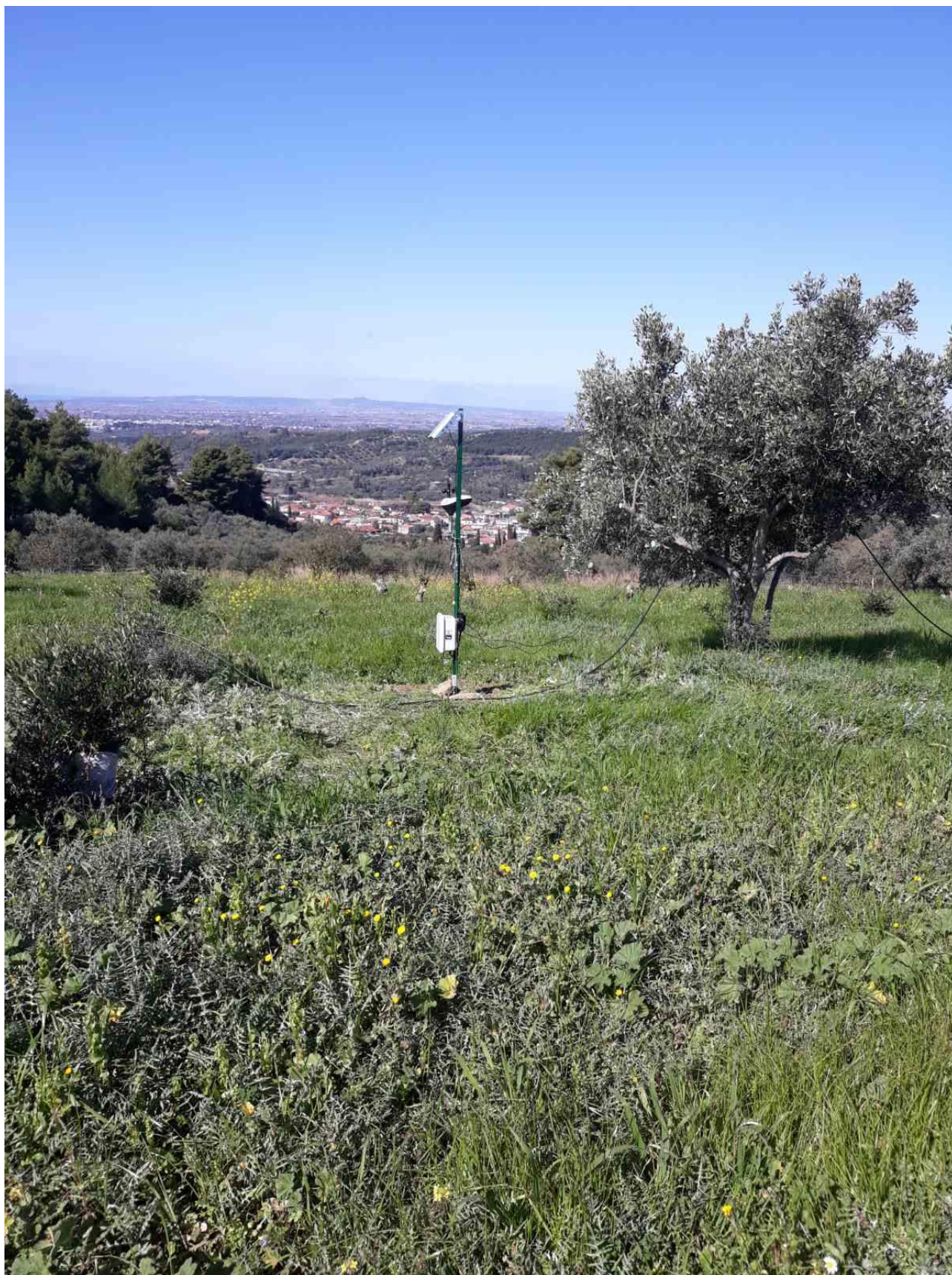


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