



The innovative **gaiasense** by NEUROPUBLIC smart farming system in the olive sector: The example of LIFE GAIA Sense project

Vasilis Pyrgiotis





Second B2B event in Jordan
on Multifunctional Olive Systems
Amman - March 14th, 2023

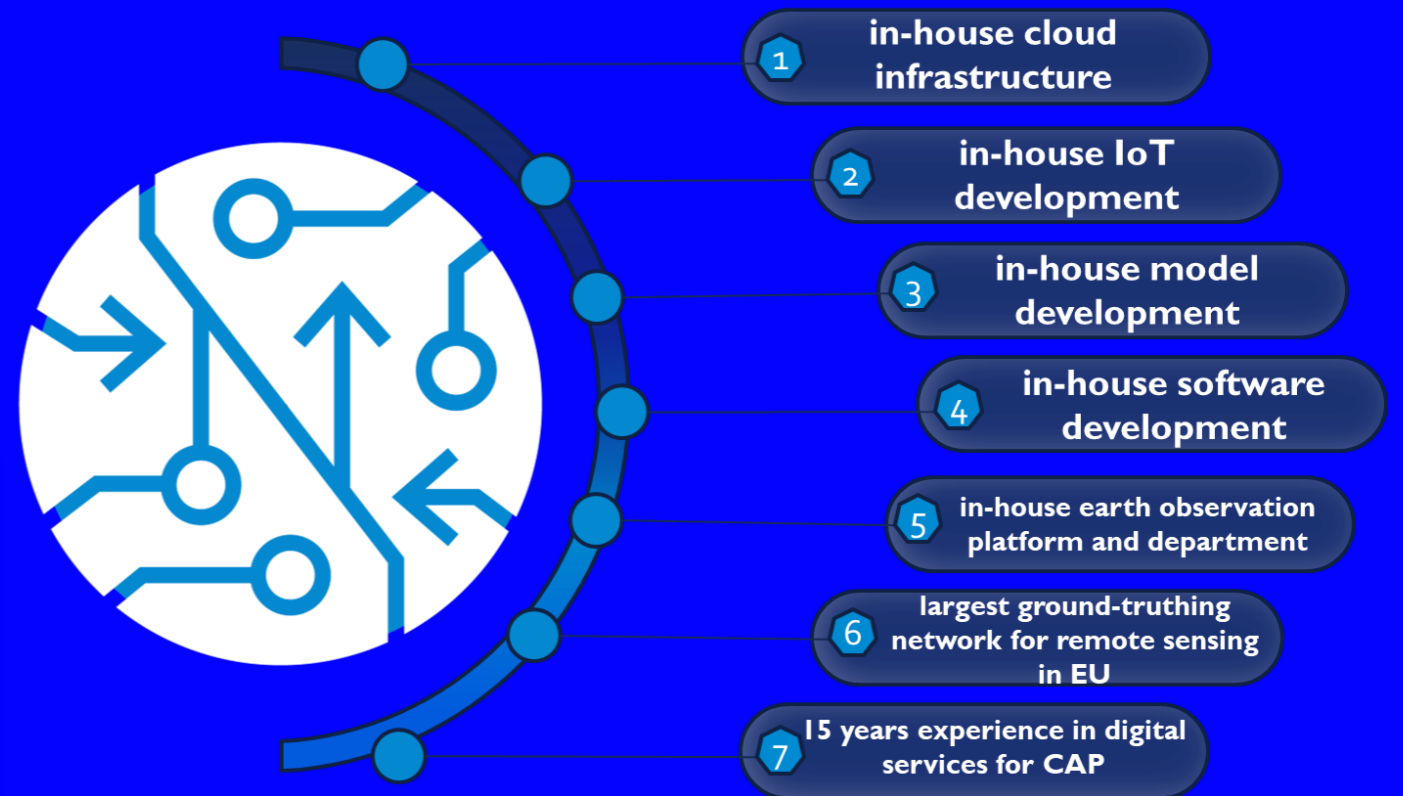
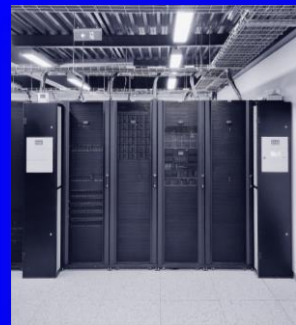


NEUROPUBLIC

- An innovative Informatics and Technology company founded in 2003 in Piraeus, Greece
- Specializing in the development of Web- and Cloud-based integrated information systems & applications.
- Being the first and only large-scale Internet of Things infrastructure in Greece, serving the Agriculture sector.



NEUROPUBLIC





Benefits of smart farming services

Production cost

fertilizer

water - energy

pesticides

Product quality

residuality

organoleptic

fruit size

preservability

Environmental risks

desertification

drought

Biological imbalance

Production risks

parasitic diseases

non-parasitic

post-harvesting

Product value

traceability

environmental footprint

Yield

=

+

Financial benefit
Environmental benefits



**THE FOUR
DIMENSIONS**

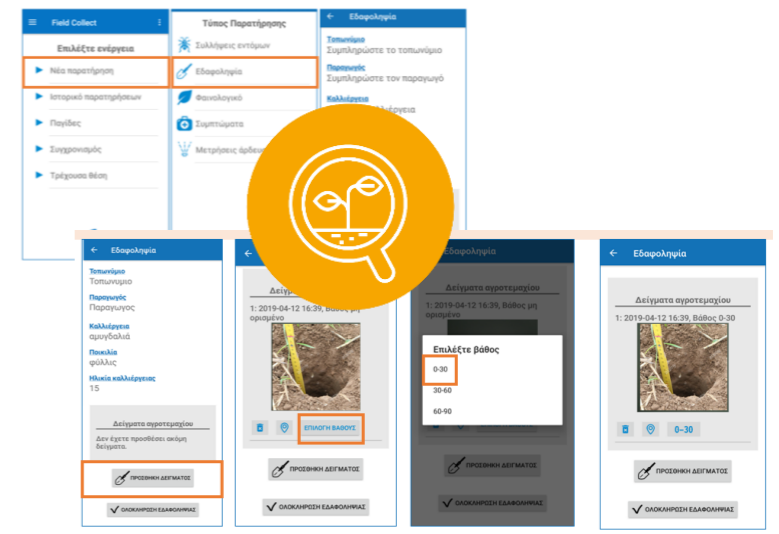
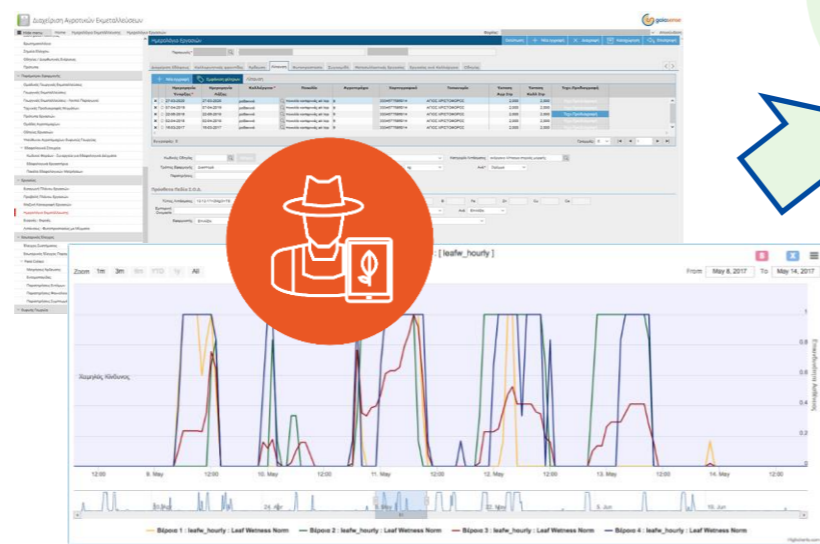
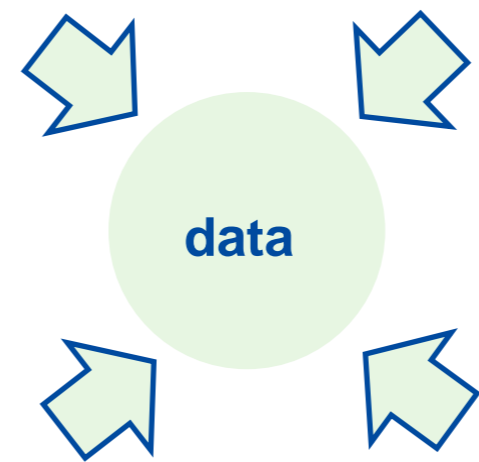
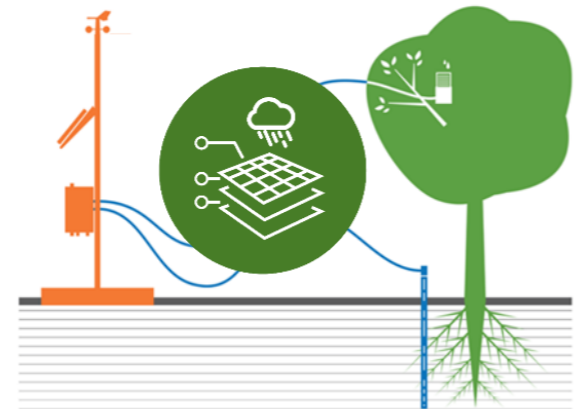




LIVINGAGRO

gaiasense
BY NEUROPUBLIC

**DATA
COLLECTION
FROM THE
FOUR
DIMENSIONS**

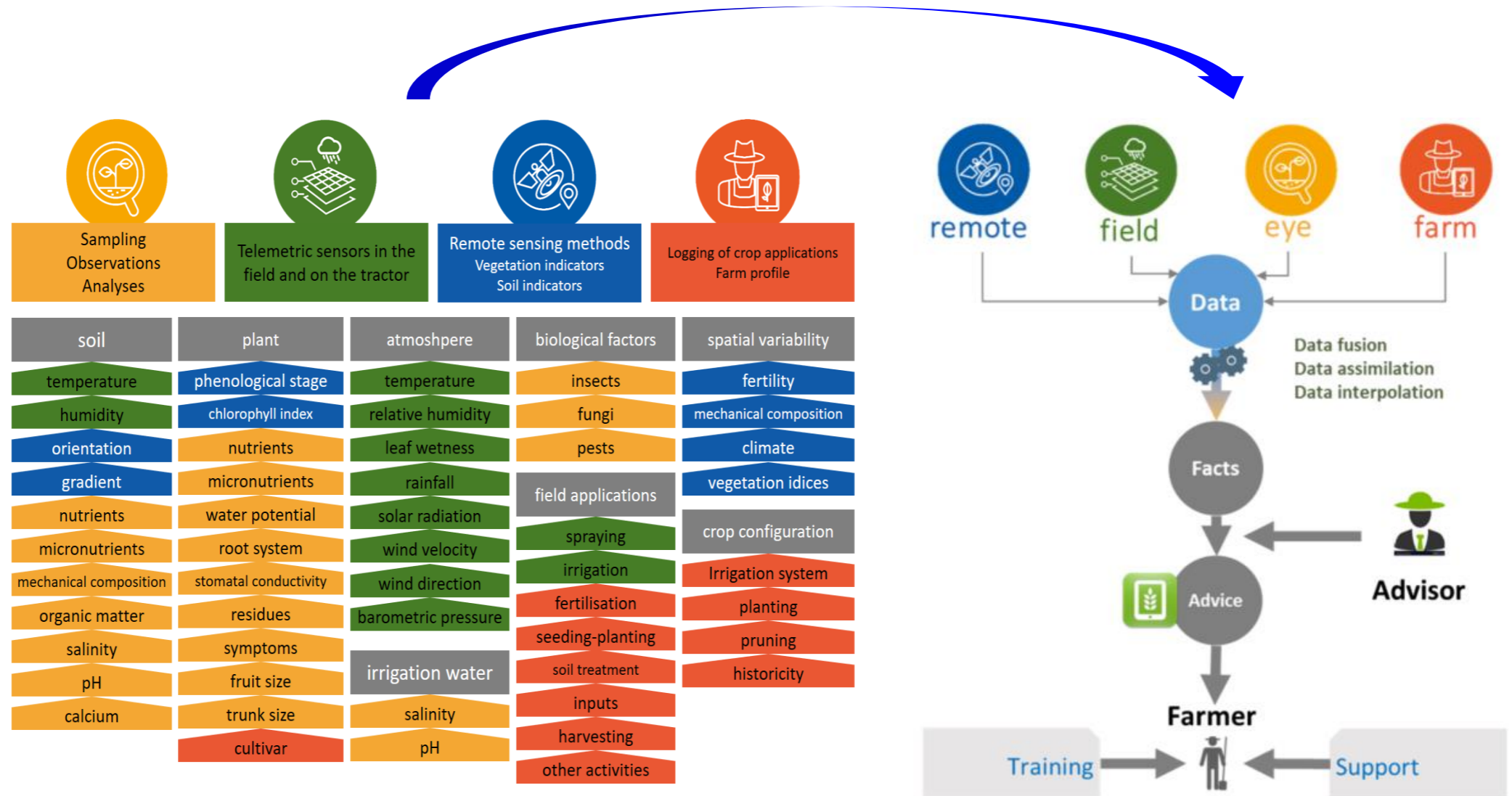




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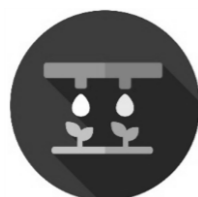
**FROM DATA
COLLECTION
TO SMART
FARMING
SERVICES**





gaiasense
BY NEUROPUBLIC

**FROM DATA
COLLECTION
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FARMING
SERVICES**



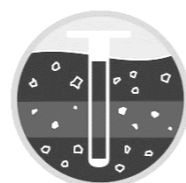
Irrigation SF advice

- ✓ To identify the appropriate time and the optimal amount of water for irrigation
- ✓ Calculation of the optimal irrigation dose



Crop management SF advice

- ✓ Agricultural warnings
- ✓ Diagnosis of diseases and recognition of entomological infections
- ✓ Pest control



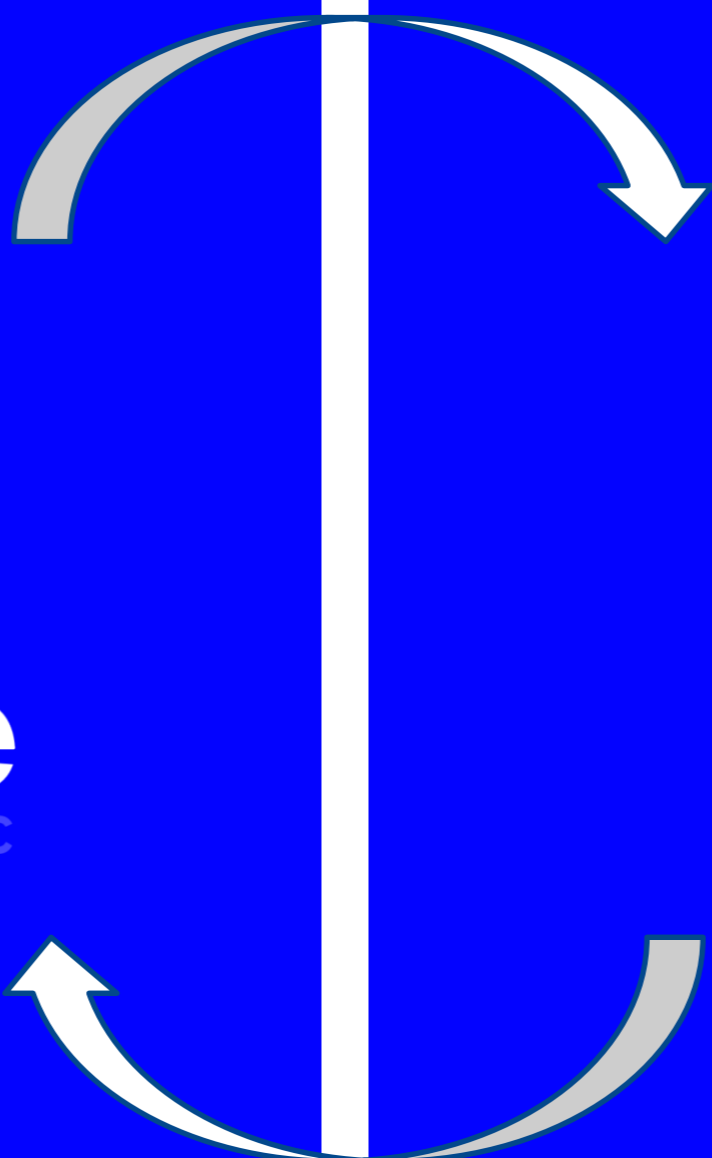
Fertilization SF advice

- ✓ Accurate determination of plant's nutrient needs
- ✓ Avoidance of over-fertilization & under-fertilization





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video





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lifegaiasense

**THE
PROJECT
AT A
GLANCE**

Objectives

Demonstrate giasense, a smart farming solution in order to

- ✓ reduce natural resources
- ✓ protect the environment and
- ✓ support Circular Economy models.

Demonstrate an innovative technology-based method, affordable to every single Agri - Cooperative no matter the size of it

Demonstrate how the producer will be able to decide either to use or avoid inputs in a most efficient way, without risking the annual production

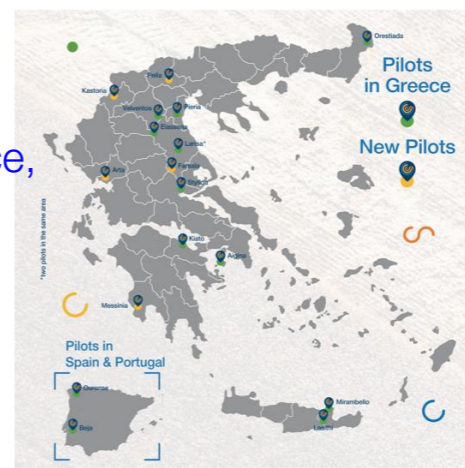
The consortium

NEUROPUBLIC



The deployment

- ✓ 18 demonstrators
- ✓ 3 countries: Greece, Spain & Portugal
- ✓ 9 crops in various terrain and microclimatic conditions



Duration

01 July 2018
30 June 2022

(48 months)

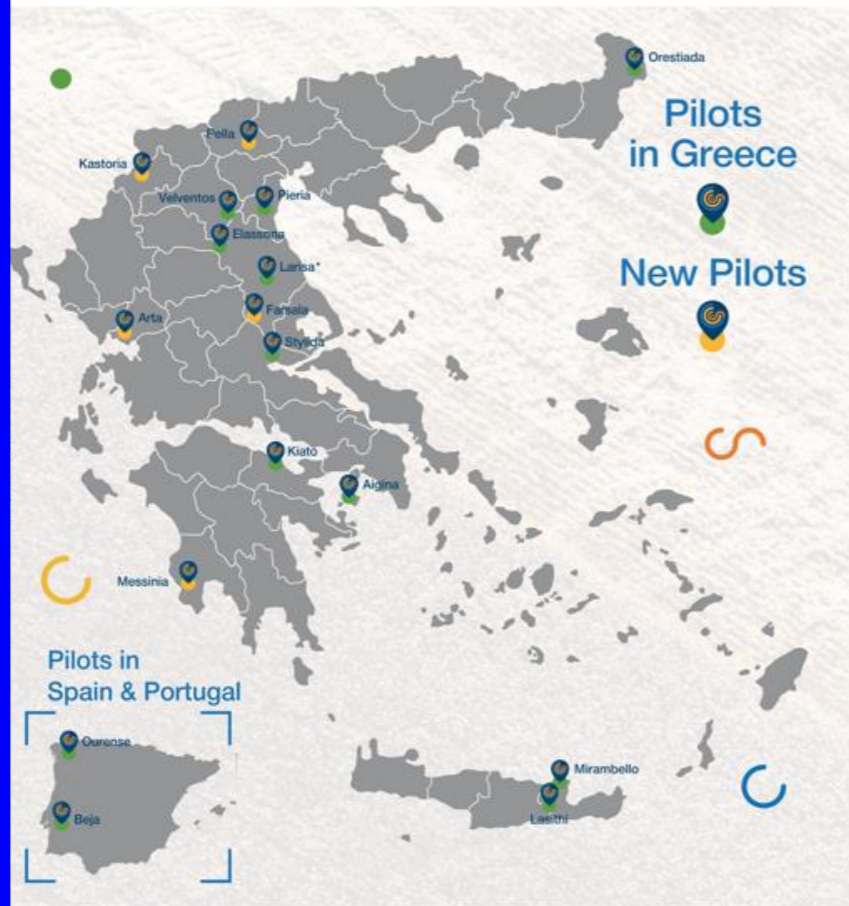
Funded by

LIFE Programme of the European Union under contract number LIFE17 ENV/GR000220



Total Budget

€2.979.291



Olive groves in Greece



Spain



lifegaiasense

**THE
SMART
FARMING
DEPLOYMENT
OF THE
PROJECT**



QuantiFarm “Assessing the impact of digital technology solutions in agriculture in real-life conditions”

Total budget: 7,723,539 EUR € & Total funding: 7,397,382.50 €
Duration: 01 July 2022 – 31 December 2025 (42 months)
Consortium: A total of 32 partners from 20 countries!

QuantiFarm Main Objective

- ✓ to support the further deployment of DATs as key enablers for enhancing the sustainability (economic, environmental and social) performance and competitiveness of the agricultural sector, by
- ✓ establishing an assessment framework for assessing the impact and effectiveness of DATs in agriculture and
- ✓ developing innovative tools, services and recommendations for farmers, advisors and policy makers.

Having established gaiasense in 2 different crops in Greece and Cyprus (olive and potato) and providing advice on fertilisation, pest management and irrigation, the project will assess the benefits, costs and environmental impact of the smart farming service.



Ploutos “Data-driven sustainable agri-food value chains”

Total budget: 8.518.950,00 € & Total funding: 6.998.523,75 €
Duration: 01 October 2020 – 30 September 2023 (36 months)
Consortium: A total of 33 partners from 10 countries!

Ploutos Main Objective

- ✓ Help rebalance the agri-food value chain and enhance its sustainability (economic, environmental and social) by establishing a Sustainable Innovation Framework that is powered by an innovative combination of behaviour change, collaborative business model innovation and data driven technological services

In the context of Sustainable Innovation Pilot No1 (SIP1) gaiasense, has been established in the area of Proodos (a Farmers Union), helping the farmers to reduce the application of inputs (water, fertilisers, pesticides), thus reducing costs, improving the fruit quality, while reducing the smaller environmental footprint of the production.

Furthermore, connecting the gaiasense and the systems of Alterra, processing industry, with the Ploutos traceability solution that will help in collecting all the needed data/proof to secure certification and sustainability related labels.



**OTHER
PROJECTS**



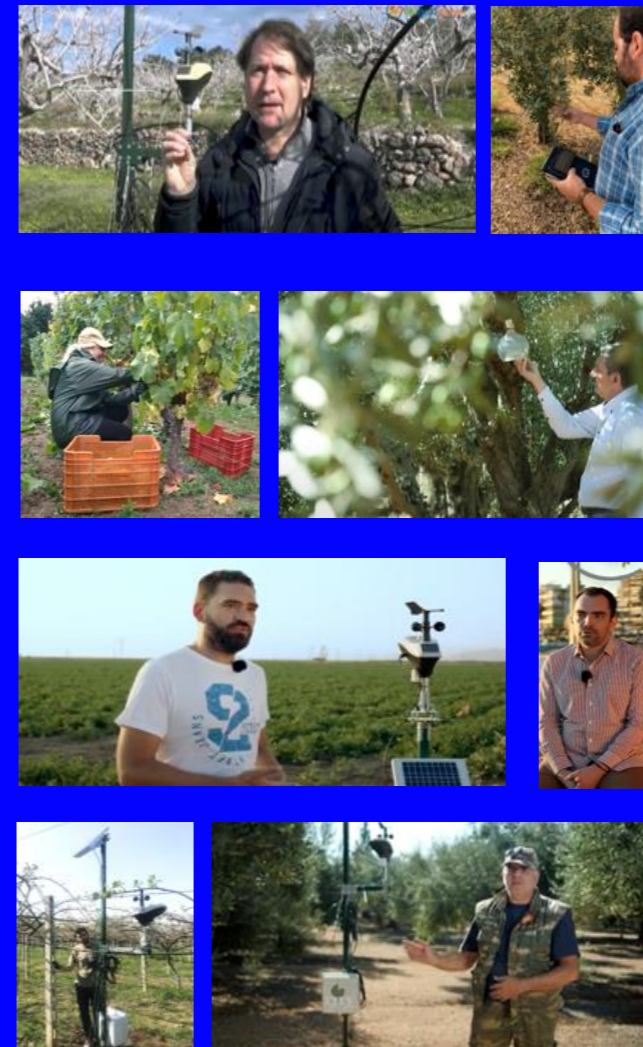
Gaiasense geographical and Sectorial coverage



Existing figures

- >70 active projects
- > 450 stations
- 6 countries
- 40 crops
- >150.000 hectares

Transnational Agricultural network



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