

LIFE GAIA Sense Newsletter #2

The smart farming journey.

How can smart farming contribute to the conservation of natural resources and inputs in agriculture?
Is smart farming an approach that can lead to the reduction of the environmental impact of agriculture?
Can Circular Economy models be supported by a smart farming-based production management approach?
These are some of the questions that the LIFE GAIA Sense project aims to address during the three years of its life time. The answers will come from the 18 demonstrators that the project will launch across Greece, Spain and Portugal covering 9 crops (olives, peaches, cotton, pistachio, potatoes, table tomatoes, industrial tomatoes, walnuts, kiwi) in various terrain and microclimatic conditions.
The project's results will be applied to the field and in order to measure the rate of decline of inputs on selected crops. A correlation between the gaiaSense results and the targets set as policy by EU over the Circular Economy will also take place, in order to highlight the contribution of smart farming in complying with these policies.
Stay tuned for updates!

Deployment of telemetric stations in Greece

Following the installation of the smart farming infrastructure in Portugal and Spain, telemetric stations were placed in the 11 Greek Use Cases of the project.



The placement study for **Union of Agricultural Cooperatives of Orestiada** resulted in 5 telemetric stations that had to be deployed in 5 different locations.

The deployment of telemetric stations in **Agricultural Cooperative of Velventos** was planned for March 2019 and was realized on the 27th at 4 locations.



The deployment plan for Aigina (**Producers of Aegina Pistachio**) is comprised of 2 telemetric stations that had to be placed on the North and the East side of the island.

In Elassona (**Union of Agricultural Cooperatives of Elassona**) the installation was planned and done on the 28th and 29th of March 2019. Three telemetric stations were deployed on the fields of 3 different producers.



The deployment of telemetric stations for **Agricultural Cooperatives PESKO-SPEKO** was done at the beginning of April 2019. The 5 stations were deployed on the 2nd, 3rd and 4th of April 2019.

In Kiato (**Geononiki Kiato**), the placement study resulted in 3 different location that were appropriate within the scope of the project.



The 3 telemetric stations in Styliada (**Union of Agricultural Cooperatives of Styliada**) were located on the 13th of March 2019.

The deployment of telemetric stations for **Agricultural Cooperative THESTO** in Larisa was planned for mid-March and took place on March 2019 and 2 telemetric stations were deployed.



The deployment of telemetric stations for **Agricultural Cooperative THESGI** was planned for April, 23rd and 24th 2019. Three telemetric stations were placed at 3 fields owned by different farmers.

LIFE GAIA Sense at a networking workshop for Greek LIFE projects

The GREEK LIFE TASK FORCE and the "CYPRUS CAPACITY BUILDING FOR LIFE - CYCLAMEN" LIFE Project organized a workshop aiming at the networking of Greek LIFE projects. The event took place on Tuesday July 2 at the headquarters of the GREEN FUND at Villa Kazouli.

Among the projects that participated and were presented during the workshop was LIFE GAIA SENSE. Vassilis Protonotarios, NEUROPUBLIC's Outreach & Networking Manager, participated in the Workshop and presented the LIFE GAIA Sense project, its objectives, the methodology it develops as well as the progress it has made during its first year of operation.

The presentation also highlighted the role of the gaiaSense smart farming system in the project, focusing on the way in which gaiaSense contributes to the conservation of natural resources, the environmental protection and more generally, to circular economy models.

After the end of the presentation there was a number of questions from the participants, who showed special interest in the approach followed by the project, as well as the gaiaSense system. In addition, during the break, opportunities for cooperation between LIFE GAIA Sense and other projects participating in the event were discussed, extending the project's activity to new contexts and examining new potential applications.



LIFE GAIA Sense at Hamo 19

During the 19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Prof. Nicolas Moussiopoulos presented the abstract "Innovative Atmospheric Dispersion Modelling in Support of Smart Farming Applications within the Frame of the EU LIFE+ GAIA Sense Project". The event took place on 3rd to 6th of June at Bruges, Belgium.

The authors of the abstract are: Prof. Nicolas Moussiopoulos, Fotios Barmpas, George Tsegas and Evangelia Fragkou.



3rd Project Meeting in Lisbon, 3-4 July 2019

The 3rd Project Meeting took place at the premises of CONFAGRI. The objectives of the meeting were the following:

- to present the progress of the project from M7-M12
- to discuss with the partners about the work that has to be accomplished for M13-M18
- to discuss about the project's deliverables, deadlines and responsibilities.

The partner organizations who participated in the meeting were NP, GAIA, AUTH, COSTEIRA, CONFAGRI, Mirabello with 12 members of the consortium in total during the two days.

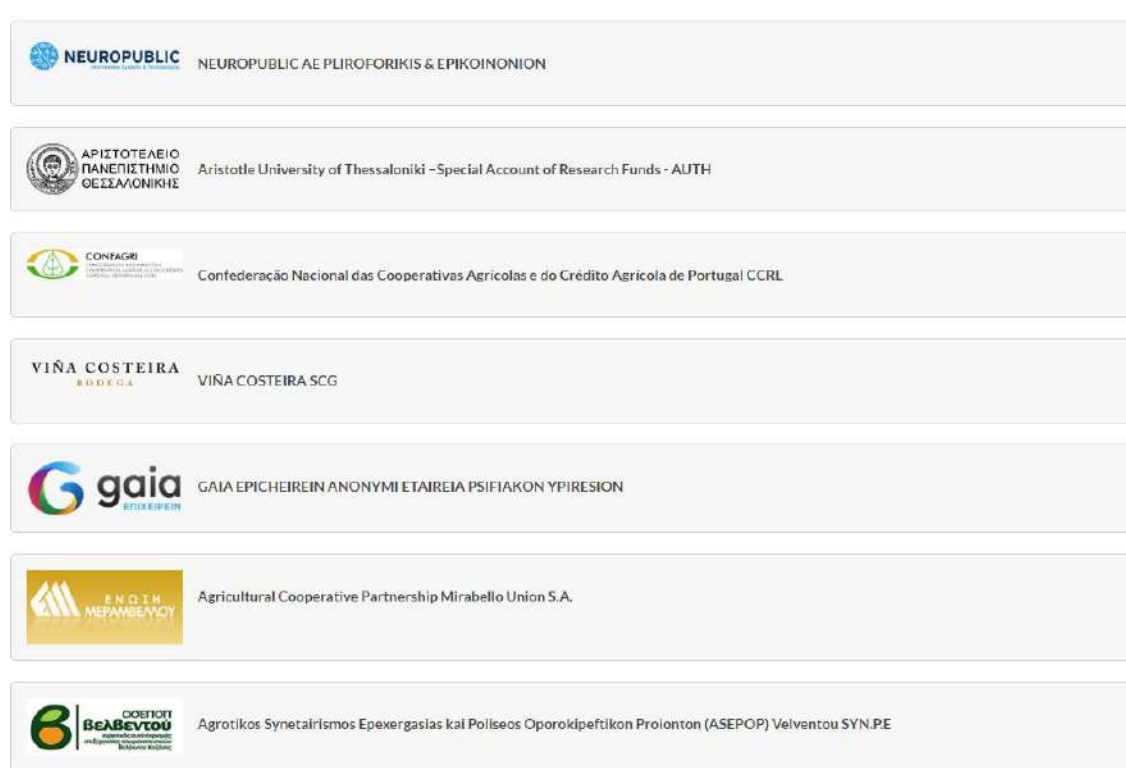


About the project

The main objective of the LIFE GAIA Sense project is to demonstrate **GAIA Sense**, an **Innovative Smart Farming solution** that aims at reducing the consumption of natural resources, as a way to protect the environment and support **Circular Economy (CE)** models. This project will demonstrate a method on how farmers will be able to decide either to use or avoid inputs (irrigation, fertilizers, pesticides etc.) in a most efficient way, without risking their annual production.

The focus is on the **resource consumption reduction side of CE**, and the results will be both qualitatively and quantitatively, considering the resources' efficiency in agricultural sector.

The Project Consortium



Brief Project Info

Project acronym: LIFE GAIA Sense
Project full title: Innovative Smart Farming services supporting Circular Economy in Agriculture
Start date: 01/07/2018
End date: 30/06/2022
Project Coordinator: NEUROPUBLIC SA, FLUROFORIKIS & EPIKOINONION

