

AgriBIT

NEWSLETTER

So that you don't miss a single thing about AgriBIT



INTRODUCTIONS FIRST...

AgriBIT is about to improve the agriculture chain by delivering higher precision, more accurate and continuously available Precision Agriculture services, combining GNSS, and more specifically new high precision Galileo positioning and augmentation services like EGNOS, Earth Observation (EO) information with on-field and on-machine sensors and actuators, Artificial Intelligence (AI) technologies and expert agricultural knowledge.

The overall objective of AgriBIT is to deliver a range of customisable and modular solutions suitable for various types of agricultural uses and brands of crops through six defined objectives:

- Market and needs analysis
- Higher precision location services
- Affordable, European source, high precision Galileo and EGNOS GNSS receiver
- Bundle of PA services for farmers and farm advisors
- Strategy for services uptake
- Open service-oriented platform

AgriBIT includes a twenty-month piloting phase in peach production (Greece), tomato fields (Portugal) and vineyards (Italy), whose goal is not only to evaluate the adaptation of its services to user needs, but also create impact in key agricultural sectors.

OUR GOALS?

Click in the boxes to find out more!



OUR PILOTS?

Click in the boxes to find out more!



Focuses on the full management of peach orchards, benefiting from the capability to overcome the limitation of EO and UAV data which cannot provide accurate results in orchards crops due to tree canopy shape.



Focuses on the detailed management of diseases, speeding up the detection of diseases earlier during the growth period and delivering the ability to apply corrective measures earlier than without the use of GNSS services, i.e. before the harvest.

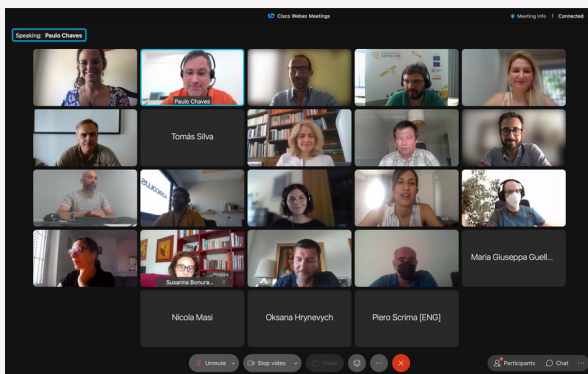


Focuses on the management of 200 ha of vineyards, with a focus on being able to improve automatic guidance, decrease water usage and connect AgriBIT services to other management platforms.

WHAT HAVE WE BEEN DOING FOR THE PAST 6 MONTHS?

Project, Innovation and Data Management

The AGRIBIT project, innovation and data management started with the organization of the quality management of the deliverables, the dependencies of the tasks, the creation of mailing lists for the whole consortium, and the creation of the committees. A Project Management Handbook has been delivered: it provides the AgriBIT partners with the explanation of rules and guidelines to be adopted in AgriBIT for the complete management of processes. The coordination actions continued with the monitoring of the whole project tasks. A second plenary meeting took place on November 2021, remotely.



AgriBIT requirements and Design

During the first semester of the project, AGENSO has conducted surveys targeting the end-users of our pilot sites. Questionnaires inquired about their own perceptions and requirements with respect to the distinct use cases of the AgriBIT system, as well as further technical aspects. Coupled with the Consortium’s expertise on a broad spectrum of domains tangent to agri-tech and ICT, the findings will shape AgriBIT’s architecture and shall guide the system’s development in the months to come. At a later stage, partners will seek to validate the efficacy of our solution and the satisfaction of the farmer on-site, making adjustments accordingly.

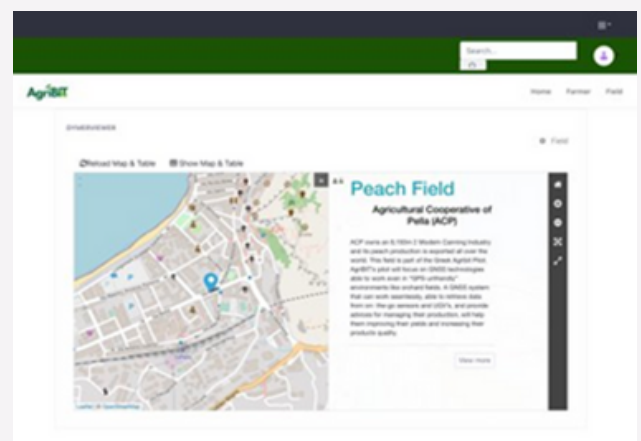
Agriculture value-added services

The specifications of services have been collected to define the input required from the end-users and describe the outputs that each service will serve. Furthermore, based on the collected information, a conceptual architecture was prepared to describe the system interconnections and the dependencies among the various parts of the system, the services and the external systems.

Services Integration and Deployment

We have delivered the first version of the community platform containing the presentation of AgriBIT services to the final user along with a first version of the APIs interface for the third parties!

The activities continued with the update of the design of the community platform and with a first model for the mockups of the cross-visualization platform that will expose the GUI for precision agriculture services to end-users. Finally, analysis and design were also conducted on the integration platform of the various subsystems that make up AgriBIT.



WHO ARE WE? AND WHAT DO WE DO FOR AGRIBIT?

Click in the logos to find out!

