STARGATE

Project information

Coordinator: *Ethniko Kentro Erevnas Kai Technologikis Anaptyxis (Greece)*

Duration: *48 months, from October 2019 to September 2023*

Total Budget from EU: *€ 6.994.405,00*

Description and mission

Resilient farming by adaptive microclimate management template.

STARGATEs contribution beyond state-of-the-art in applied climatic data solutions is the implementation of analytics models to support local and regional policy formulation and implementation related to mitigation on microclimate changes. Currently, policy making organizations predominantly utilize own data, typically limited to their own jurisdiction/ administrative area. However, once the policy development process expands the evidence base and data sources beyond the traditional approach, there is need for global data. The addition of national, European and even global reference data sets for comparative analysis — including meteorological, climatic analysis, satellite data sources to improve decision making processes. The studies at landscape scale are required to understand leading ecological processes. The focus will be on Climate Smart Agriculture (CSA) and will extensively study the benefits of applying agri-environment-climate technical solutions to achieve sustainable agricultural development at landscape level. It means to support farm management modernization and at the same time get to know the underlying ecological factors that shape the farming landscape. STARGATE will leverage access to this data and also STARGATE climatic platform including developed models platforms to foster easy and affordable adoption by policy making bodies. The simples approach to decision support in policy development is effective visualization of data. Good visualization supports the policy developers' in modelling sustainable policies and decisions. Unlike algorithmic simulation and modelling, visualization leaves the actual decision and assessment to a human user and thus provides an extra quality assurance before actual policy decisions are made. STARGATE provides innovative components for visualization of big data with a particular emphasis on geospatial visualization and advanced, dynamic charting.

Our role in the project

PESSL as producer of Sensors and DSS systems for farmers will use results of STARGATE in their products. It will help to improve their analytical modules and integrate new functionality.

Partners

- G & K KEFALAS GEORGIKI OE – GreeceDOISECO UNIPESSOAL LDA – Portugal
- AGRICULTURAL COMPANY IN THE UPPER GALILEE