

AGRICOOOP

Technology-Based Cooperation to Address Invasive Species and Climate Change for Sustainable and Resilient Agriculture

A transnational project supporting sustainable agriculture

- Project acronym: BSB01005
- Interreg NEXT Black Sea Basin Programme
- Programme priority: A clean and green region
- Period: 24.12.2025 – 23.06.2027
- Total budget: €506,548.00



Project Overview

Aim, challenge and expected change



AGRICOOOP is a transnational project addressing common agricultural challenges in the Black Sea Basin countries, namely invasive alien species and climate-change-related risks.



The project develops technology-based approaches for the identification, monitoring and management of invasive alien species.



Climate and Pest Detection Stations (CPDS) in pilot regions will collect climate and phytosanitary data, supporting timely assessment and effective response planning.



The results will support farmers, specialists and decision-makers in advancing climate-smart and resilient agriculture.



Key Focus



Invasive
species



Climate
change



Technological
monitoring



Transnational
cooperation

Project Partners and Budget

Consortium: Türkiye – Bulgaria – Georgia

LP1

Trabzon Commodity
Exchange

Trabzon Commodity Exchange

• Türkiye

233 660 €

PP2

Varna Economic
Development Agency

Varna Economic Development
Agency

• Bulgaria

110 628 €

PP3

Batumi Shota Rustaveli State
University

LEPL BSU

• Georgia

110 628 €

PP4

Ondokuz Mayıs University

Ondokuz Mayıs University

• Türkiye

51 632 €



Total project budget

€506,548.00



Interreg funding

90%



Partner co-financing

10%



BSU budget

110 628 €

Why the Project Matters

Vulnerability of agricultural systems in the Black Sea region



Climate pressure

Rising temperatures, drought, extreme precipitation and agro-climatic risks are altering the conditions for pest distribution.



Invasive species

Invasive alien species threaten crop yields, product quality, local economies and ecosystem balance.



Need for response

A unified methodology, monitoring technologies, data exchange and farmer awareness are required.



AGRICOOOP responds to these challenges through joint research, CPDS stations, the MAPPEST application and awareness raising.

Technological Approach

Monitoring — Analysis — Response

1

Field data



In pilot zones, CPDS stations record climate and pest-distribution data.

3

Risk maps



Data are integrated into analytical and distribution maps to identify priority zones.



2

Digital tool



The MAPPEST application helps farmers identify harmful organisms and transmit information.

4

Management methods



Partners develop and share practical, biotechnical and adaptive control methods.

Core logic: local data are transformed into practical recommendations for farmers and decision-makers.

Key Activities

Logic of the project work package



Research and identification → tool development → piloting and integration → knowledge strengthening and results sharing

Outcome: a joint methodology, database and maps, technological tools and training for farmers.



BSU's Role in the Project

PP3 — Georgia, Batumi Shota Rustaveli State University



BSU leads Activity 1.1

- Identification of agricultural crops most affected by climate change and invasive species
- Literature review, institutional sources, interviews and field observations
- Harmonisation of partner reports and consolidation of common results



Georgian component

- Installation of climate and pest detection stations in pilot zones
- Awareness raising among farmers and stakeholders
- Knowledge and experience sharing with partner countries

Aim: recommendations based on local data that will strengthen climate-smart and resilient agriculture in Georgia.



Expected Results and Communication

Sustainable impact of the project



Research report

Assessment of harmful invasive species, risks and affected crops in partner countries.



MAPPEST

A mobile tool for identifying harmful invasive species and sharing data.



CPDS and maps

Stations, data analysis, and maps of pest density and migration.



Training and forum

Awareness raising, seminars and an international forum.

AGRICOOOP creates a practical model: data-driven monitoring, shared knowledge and farmer-oriented solutions.

Contact information

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