

NAME OF THE PROJECT: CLUSTER OF INTEROPERABLE AND HOLISTIC CIVIL PROTECTION SYSTEMS

SHORT NAME: CO-PROTECT

PROGRAM: EPANЕК 2014-2020 – OPERATIONAL PROGRAMME COMPETIVENESS ENTREPRENEURSHIP INNOVATION- Action "COOPERATIVE INNOVATION SCHEMES/SCI -2nd Call: Enterprises"

STARTED AT: 25/06/2022

DURATION: 18 MONTHS

ALL ABOUT THE PROJECT: <https://www.co-protect.gr/>



SUMMARY: The aim of **CO-PROTECT** is to make Greece a technologically emerging power in the response to natural disasters, at a time when climate change, with the collateral pressure of the pandemic, is a major issue, affecting human existence and well-being. The effects of climate change are creating an upsurge in floods and extreme weather events combined with drought and forest fires; deforestation from fires is creating landslides and land degradation due to extreme weather events, etc. Moreover, in seismically active regions, such as our country, the pressure increases. All of the above is reflected in the built environment where most of the inhabitants of European countries live and the critical infrastructure related to utility networks, ports, airports, hospitals, etc. The imperative of the Paris Agreement and the climate policy "2050 long-term strategy" guides us in the **creation of advanced products/solutions, making Greece, through the GCC and the "CO-PROTECT" project**, a strong industrial player of ready-made solutions with efficient results.

The main role of **Geosystems Hellas (GSH)** in the framework of **CO-PROTECT** is to **ensure and supervise the monitoring of the digital simulation of emergencies** that may be of concern to the civil protection mechanisms, applying the services and methodologies developed in the work modules and by thematic area of emergency. The pilot implementation - demonstration of the project, aims mainly at showcasing the innovations as well as better dissemination of the project results through the operation and analysis "in progress and in action". The main objective of the activities is to create a simulated digital twin situation of real events. In addition, GSH is responsible for **the development of a Web GIS platform** using OGC tools to disseminate geospatial data to third parties. More specifically, it will implement a geo-visualization platform (consisting of Geoserver, Back-end, and Front-end) to organize, store and share all data generated or used by the involved project solutions.

The **CO-PROTECT** project was created as part of the **RESEARCH-CREATE-INNOVATE** action and was co-financed by the European Regional Development Fund (ERDF) of the European Union and national resources through the E.P. Competitiveness, Entrepreneurship, and Innovation (EPANЕК), with grant agreement No: **ГГ2CL-0363842**



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