

**NAME OF THE PROJECT:** EXPERT INTEGRATED SUPPORT SYSTEM FOR COASTAL MIXED URBAN – INDUSTRIAL – CRITICAL INFRASTRUCTURE MONITORING USING COMBINED TECHNOLOGIES

**SHORT NAME:** EPIPELAGIC

**PROGRAM:** «Competitiveness, Entrepreneurship, and Innovation» (EPAnEK 2014-2020)

**STARTED AT:** NOVEMBER 2019

**DURATION:** 44 MONTHS

**ALL ABOUT THE PROJECT:** <http://epipelagicproject.com/>



**SUMMARY:**

The EPIPELAGIC project is a Bilateral and Multilateral Cooperation project between Greece and China focused on **monitoring coastal areas**. The project's main goal is to address and mitigate the effects of climate change and natural disasters by providing methodologies and tools that use **time series of Earth Observation satellite data** in combination with other auxiliary data and field measurements. For this purpose, **two study areas** with common characteristics for the two countries participating in the project were selected. Regarding Greece, the study area is the Axios Delta National Park, Kalochori Delta, while the Chinese case study covers the coastal area of the Yellow River Delta. The main objective is to create an electronic platform and a **decision support platform** to monitor and evaluate significant changes that can be associated with natural and anthropogenic hazards, including land use change, shoreline changes over time, soil erosion, ground deformation, and sea and groundwater level monitoring. EPIPELAGIC aims at demonstrating the capabilities of satellite synergistic observations analysis to evaluate suitable indicators. The research activities to be carried out will provide sustainable support to local culture, society, economy, and environment in both countries.

In particular, Geosystems-Hellas (GSH), as the **project coordinator**, with previous coordination experience will take all appropriate actions to successfully cooperate with the Chinese partners and minimize delays. The first work package includes the development of appropriate coastal/marine protection **management**, communication, and policy plans to successfully facilitate public awareness and information. These responsibilities include creating a community of stakeholders to develop different approaches, organizing bilateral meetings, creating management reports, and developing the project logo and website. One of the main responsibilities of GSH is **data collection and preprocessing**. Specifically, GSH will manage GNSS-GPS measurements, tide gauge measurements, and portable borehole gauge measurements. In addition, GSH is responsible for integrating auxiliary data from previous projects. Finally, GSH leads the description of publicity activities, commercialization, cross-border cooperation, and **commercial and financial exploitation** of the project's products in the market.

*The project was implemented within the framework of the Action of **NATIONAL SCOPE: "BILATERAL AND MULTILATERAL S&T Cooperation Greece-China** and national resources through the E.P. Competitiveness, Entrepreneurship and Innovation (EPANEK), with project code: **T7ΔKI-00160***

**CONSORTIUM:**

Greece:



China:



Co-financed by Greece and the European Union