

## MARRE - MARine monitoring system of the Hellenic Seas using REMote sensing

### Kickoff Meeting

HCMR, Anavyssos, 28 September 2018, 10:00 am

#### Participating Bodies

1. Geospatial Enabling Technologies (GET)
2. Hellenic Centre for Marine Research (HCMR)
3. Marine Remote Sensing Group, Department of marine Sciences, University of Aegean

The project will be implemented by a company (GET) and a collaborative scheme of 2 research centres (**HCMR, University of the Aegean**). The role of the participants is: for GET to develop a new innovative product (a geospatial platform for management and dissemination of information) that will help it in its further development, for HCMR, which is the major Marine Research Centre and data provider in Greece, to provide data which will be used to calculate the new products through their combination with satellite data and, for the Aegean University (Marine Remote Sensing Group (MRSNG) of the Department of Marine Science) to develop the calculation algorithms for the new products (eg seagrass maps and fishing resources).

The project is financed by the Operational Programme Competitiveness, Entrepreneurship and Innovation (EPAnEK, ΕΣΠΑ 2014-2020) of the Ministry of Economy & Development, and co-funded by the EU (European Regional Development Fund) and by national funds.

#### Objectives

The objective of the research activity is the development of an **open source GIS system for monitoring the marine environment** by using **satellite remote sensing data** combined with **field measurements** (historical and real-time data). The development of such a system for Greece stems from the need to support national policies in areas of high interest such as the environmental status of the coastal zone and the wider marine environment.

#### Innovation

The two main and innovative elements of the proposal arising from the combination of enterprises and research institutes are: the **linking of field data with multiple-scaled remote sensing data** (from a few centimeters spatial aerial imagery to terrestrial satellite spatial analysis of tens of meters) and the **combination of information** extracted from **different types of data** into an information system for monitoring the quality of the coastal and marine environment.