

BEYOND

Building a Centre of Excellence for Earth Observation based monitoring of Natural Disasters

BEYOND project is an initiative which aims to build a **Centre of Excellence for Earth Observation based monitoring of natural disasters in southeastern Europe**, established at the National Observatory of Athens (NOA). The project aims at unlocking the institute's potential through the consolidation of state-of-the-art equipment and technological know-how that will allow sustainable cutting-edge interdisciplinary research to take place with an impact on the regional and European socioeconomic welfare. The vision is **to set up innovative integrated observational solutions to allow a multitude of space - and ground-based monitoring networks to operate in a complementary and cooperative manner**, create archives and databases of long series of observations and higher level products, and make these available for exploitation with the involvement of stakeholders.

In BEYOND critical infrastructural components are being procured for fostering access, use, retrieval and analysis of long EO data series and products. In this framework, NOA has initiated activities for the installation and operation of important acquisition facilities, including space based observational infrastructures as an X-/L-band acquisition station or the setting up of an ESA's Mirror Site of Sentinel missions to be operable from 2014 onwards.

The research portfolio of BEYOND covers a **broad spectrum of phenomena** such as earthquakes, volcanoes, extreme weather events, fires, fire smoke and toxic gasses, emission concentrations, manmade hazards, dust storms, air quality and impacts to human health. BEYOND is therefore establishing continuous cooperation with institutional End Users, and International Organisations.



BEYOND project is dealing with meteorological hazards, geophysical hazards, and atmospheric pollution and air quality