

H2020 Project ECOPOTENTIAL: Making best use of remote sensing and in-situ observations to improve future ecosystem benefits



Anthropogenic pressures on ecosystems threaten their integrity, functions and processes, potentially leading to loss of ecosystem services. It is urgent to monitor such changes relating them to drivers and predicting the effects on the provision of ecosystem services. To address this challenge, the **EU H2020 ECOPOTENTIAL project** focuses on making the best use of **In Situ and Remote Sensing data for monitoring and modeling ecosystems in 25 Protected Areas** in Europe and beyond, involving experts and stakeholders from 47 renowned European and non-European institutions. The Project exploits Earth Observation data, using the latest advancements in data processing and process-based models, while providing concrete products for improving Protected Area Management. ECOPOTENTIAL will assess climate change impacts combined with land cover and land use change scenarios, taking advantage of In Situ data collected in pilot sites and blending them with Remote Sensing data for **ecosystem modeling**. Moreover, the project will consider **ecosystem services**, and will provide platforms for cyber infrastructures and data interoperability, while taking into consideration policy developments and implementing capacity building and outreach activities. ECOPOTENTIAL defines the needs of future protected areas and up-scales its results to broader scales. Science-policy interfaces will be generated to transfer scientific and technological knowledge into **citizen information and policy strategies**.

