

Regeneration across generations

Socially Inclusive & Sustainable Development of the Atlantic Seaboard

SUPPORT TEAM for the
ATLANTIC ACTION PLAN

Atlantic Project Awards 2017 candidate



Project description

In 2013 and 2014, violent storms strongly impacted the Basque Coast on both sides of the border, putting people and infrastructures at risk of flooding and erosion. To address this situation, Basque local authorities decided to improve their environmental knowledge at local scale to better anticipate coastal risk management.

Since 2016 the [MAREA project](#) enabled to set up a collaborative cross border observation network along the Basque coast to design local alert tools capable to predict and anticipate the effects of storms on the Basque coast at the scale of beaches. The consortium of MAREA collects real time data at high frequency and very high resolution to measure the physical ocean-meteorological characteristics of storm waves, from offshore to inshore areas. The partners also develop alert systems to translate this complex information into helpful tools for decisions makers and public authorities. As a result of this cooperation, Spanish and French Basque scientists and public bodies will be able to improve their response and adaptation to climate change, but also transfer their approach to other coastal zones in Europe and worldwide.

Outcomes of the project

- A **cross border observation network** setting up onshore and nearshore sensors, offshore buoys, video systems in different beaches and ports in the French and Spanish Basque coast.
- **Analysis of past storms** thanks to existing data to optimize statistics analysis and develop robust models to generate local alert.
- **Plug in** to implement statistic data to develop waves-models.

Interact with the project

Lead partner



Social media

