



Space4Maritime

Satellite technology provides the maritime community with reliable and real-time information to mitigate the effects of climate change globally while ensuring coverage of vast and unreachable areas. Today, Europe's marine areas are under multiple pressures from human activities. Space assets, such as Galileo (Europe's Global Navigation Satellite System), Copernicus (Europe's Earth observation programme), and satellite communications can help us to better understand and manage these congested marine areas.

Eurisy launched the initiative "Space4Maritime" to:

- Identify the needs of European maritime end-user communities;
- Facilitate the dialogue with the space industry to favour the uptake of satellite services;
- Categorise existing operational solutions;
- Find the bottlenecks harnessing the potential of satellite applications for the sustainable growth of the Blue Economy.



Examples of existing operational satellite solutions are included in the latest Satellites Going Local - Maritime Edition.



Diving into space-based solutions for the maritime domain in the Mediterranean region



Cyprus Audit Office: EO to support beach inspections, improve coastal management, and prevent environmental damage

Sector of application: Port and Coastal Development
Country: Cyprus
User: Public Authority



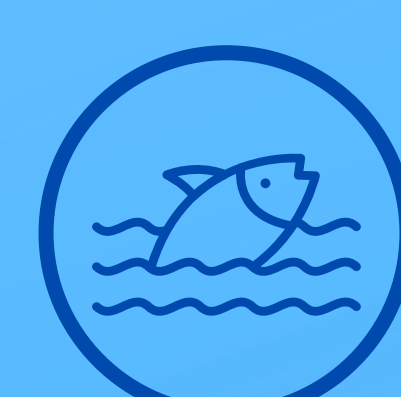
Challenge: Detection of illegal activities and anthropogenic and natural phenomena on the coasts and beaches of Cyprus.



Solution: GIS technology to assess the potential effects of illegal buildings and mass tourism on coastal erosion. Satellite imagery from multiple sources, including Sentinel-2 images were used to map the island and draw a temporal perspective of the evolution of the coastline.



Benefit: Assessment of the evolution of coastal erosion and of illegal building sprawl during the last years, and estimate of the potential economic impacts on the long run.



BIVI Srl: Precision Aquafarming using Earth Observation

Sector of application: Food Security and Production
Country: Italy
User: SME



Challenge: Aquafarmers need detailed and precise information to plan the optimal time to harvest and sell their products.



Solution: Rheticus Aquaculture, a cloud-based service that provides geospatial information data, forecasting models and statistics based on data derived from Sentinel-3 images, Copernicus CMEMS and in-situ observations.



Benefit: Clear and periodical information on chlorophyll levels in the Adriatic Sea and a forecast of the expected growth of mussels. The service helped the company to optimise time and to better plan the harvesting season.

Eurisy is a Paris-based, non-profit association of space agencies and innovation clusters mandated to raise awareness and encourage innovative uses of satellite applications to respond to today's challenges.

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BRIDGE SPACE AND SOCIETY