

FORCOAST



Overview, Objectives & Impact

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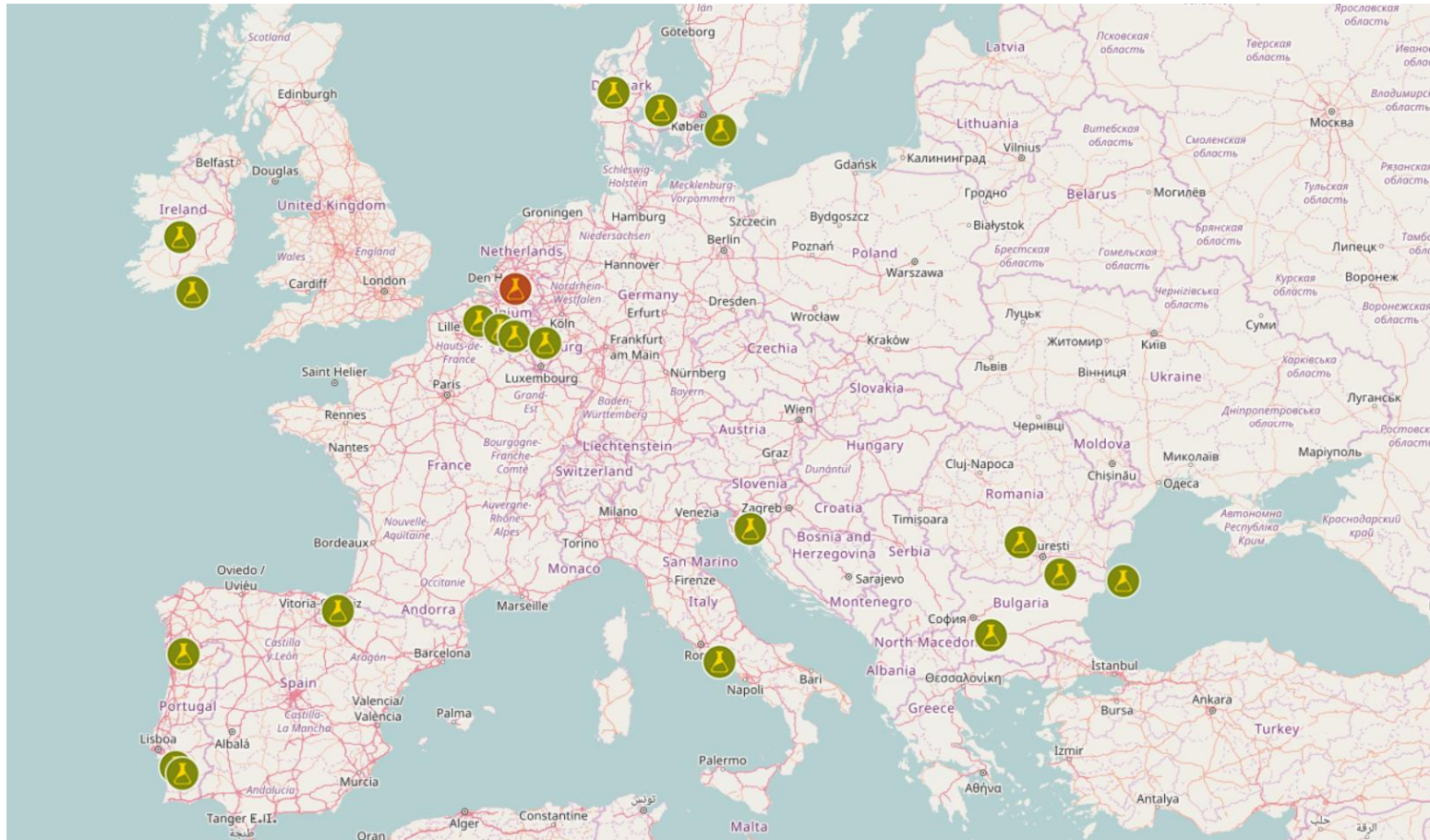
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 870465.

Overview

| | |
|------------|--|
| Period | November 2019 – April 2022 (30 months) |
| Sectors | Wild fisheries, bivalve mariculture, oysterground restoration |
| Programme | DT-SPACE-01-EO-2018-2020 COPERNICUS MARKET UPTAKE |
| Products | High resolution water quality and met-ocean added value products that will be a clear extension of three different core services dealing with the coastal areas: Copernicus Marine Environment Monitoring Service (CMEMS) and Copernicus Land Monitoring Service (CLMS) and the Climate Change Monitoring Service (CMS). |
| Components | Models, DIAS, Copernicus data , Data science, Visualization and apps, Crowdsourcing , EO |
| Impact | Attending user needs, accuracy, reliability , affordability, sustainable downstream service |



Project Partners



Project Partners



Objectives

Deliver accurate and reliable information, readily available, easily understandable and with high-resolution

FORCOAST Solutions

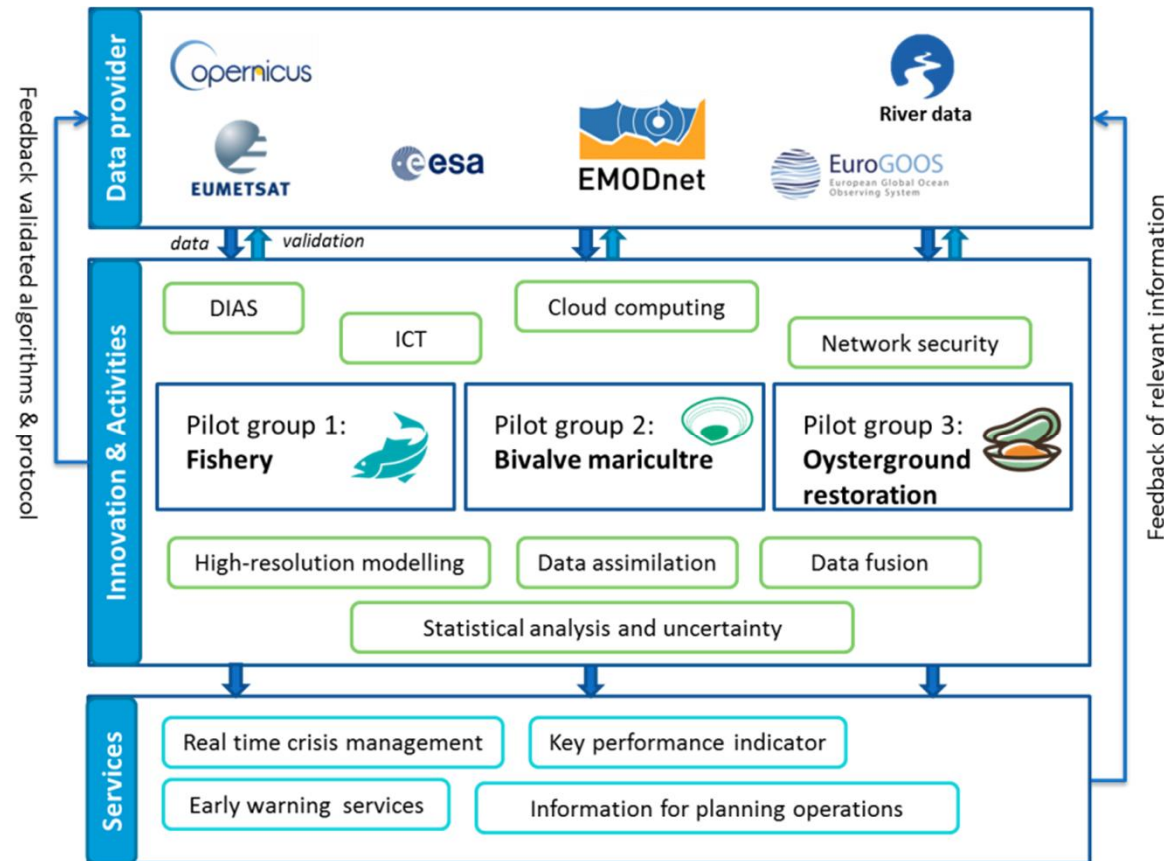
- ✓ Co-designed with stakeholders
- ✓ Provides high resolution data of water quality and met-ocean variables at coastal zone and nearshore
- ✓ Targets wild fisheries, bivalve mariculture and the oysterground restoration sectors
- ✓ Develops operational Copernicus-based downstream information services
- ✓ Improves operation, planning and management of marine activities

FORCOAST Services

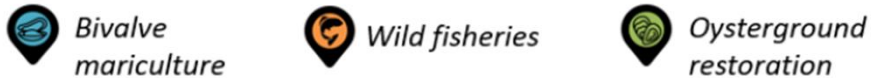
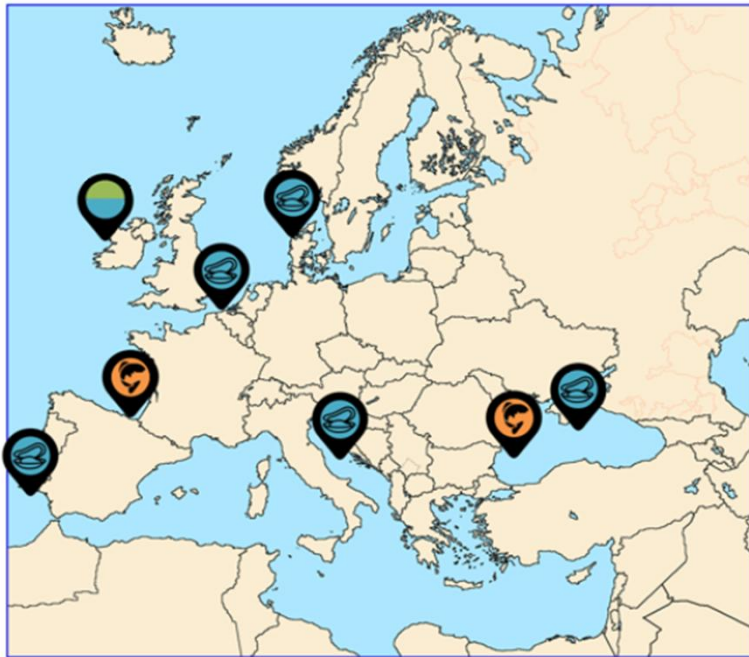
- Early warning services
- Real time crisis management
- Key performance indicator
- Information for planning operations



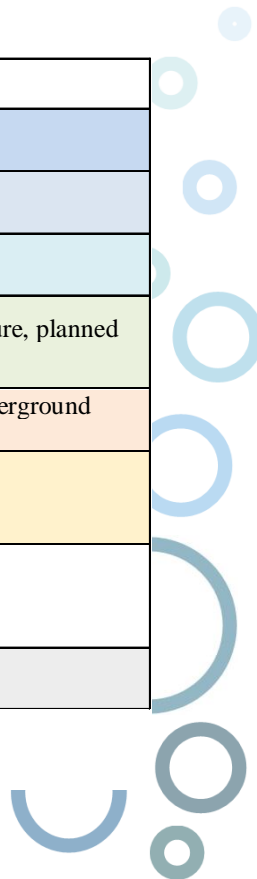
FORCOAST Service Chain



FORCOAST Pilots



| Pilot | Location | FORCOAST partners | Type | Activities |
|-------|------------------------------|--------------------|----------|---|
| 1 | Atlantic, Portugal | Exporsado | SME | Oyster mariculture |
| | | IST | Research | |
| 2 | Atlantic, Spain | Marine Instruments | SME | Wild fishery |
| | | AZTI | Research | |
| 3 | Black Sea, Bulgaria | Terrasigna | SME | Wild fishery |
| | | USOF | Academia | |
| 4 | North Sea, Belgium | RBINS | Research | Mussel and oyster mariculture, planned oysterground restoration |
| | | ILVO | Research | |
| | | Brevisco | SME | |
| 5 | Atlantic, Ireland | Cuan Beo | SME | Oyster mariculture and oysterground restoration |
| | | Marine Institute | Research | |
| 6 | Baltic-North Sea, Denmark | DMI | Research | Oyster mariculture |
| | | AU | Academia | |
| | | Oyster boat | SME | |
| 7 | Black Sea, Romania | ULiege | Academia | Mussel mariculture |
| | | NIMRD | Research | |
| | | Jailoo | SME | |
| 8 | Northern Adriatic Sea, Italy | CNR | Research | Mussel mariculture |



Generating Services

- Establish sustainable supply chains
- Complete integration into the user processing chain
- Value added product and services to open new market opportunities
- State-of-the-art EO information access based on cloud computing/DIAS
- Establish a product that answers the user needs and demonstrate its value to the users community



Expected Impacts

- Expected Key Benefits for the Users
 - Acquire reliable and accurate information
 - Access to integrated datasets
 - Receive daily reports, warning and alerts
- Impacts of the FORCOAST services
 - ✓ Improve stakeholders' operations
 - ✓ Make information available
 - ✓ Decrease costs
 - ✓ Provide sustainable downstream services





Earth Observation services for Wild Fisheries, Oystergrounds Restoration and Bivalve Mariculture along European Coasts



What is FORCOAST?

FORCOAST is an EU-funded project involving public and private sectors to improve the business uptake of the Copernicus Earth Observation services. FORCOAST will develop, test and demonstrate in pilot areas innovative services based on satellite information from Copernicus Marine, Land and Climate Services, local in-situ information and advanced numerical modelling techniques.



Our goals

FORCOAST aims to provide consistent high-resolution information services by incorporating water quality and met-ocean indicators, which will help to improve planning, management and operations in coastal marine aquaculture activities along European coasts.



Who are we?

FORCOAST partners are public marine research institutes and private small and medium-sized enterprises, which are either developers or users of oceanographic services. This way, FORCOAST makes sure that our innovative tools are designed to satisfy the real market needs.

