

# The European Coastal Ocean Observing System

**17+**

## Countries

The JERICO-RI comprises 17+ countries

**39+**

## Partners

More than 39 partners are involved in the RI

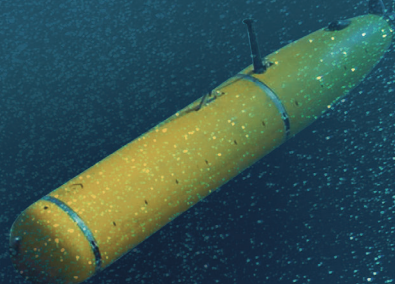
**672+**

## Platforms

The RI is made up of over 672 infrastructures



[jerico-ri.eu](http://jerico-ri.eu)



This project has received funding from the European Commission's Horizon 2020 Research and Innovation programme under grant agreements No 871153 and 951799. Project coordinator: IFREMER, France.

# Our Vision

To be the European gateway to long-term observations and related services for coastal marine systems, empowering European research excellence and expertise for the benefit of society.

# Our Mission

To establish the framework upon which coastal marine systems are observed, analysed, understood, forecasted, enabling open-access to state-of-the-art and innovative facilities, resources, FAIR data and fit-for-purpose services, fostering international science collaboration.



## Key Scientific Challenges

- Assessing and predicting the changes of coastal marine systems under the combined influence of global and local drivers
- Assessing the impact of extreme events on those trajectories
- Unravelling the impacts of natural and anthropogenic changes

## Strategy Pillars

- Fostering societal impact
- Developing innovative technologies for coastal ocean observing and modelling
- Interfacing with other Ocean Observing Initiatives
- Implementing at the regional level



# A Pan-European Multiplatform Approach

## Fixed Platforms

- Multiparametric Buoys
- Wave Buoys
- Bottom Landers



## Shipborne Observations

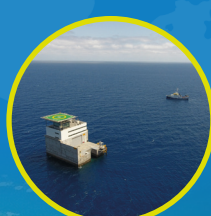
- Continuous Ferry Boxes
- Vessel Mounted ADCPs
- CTD profiles



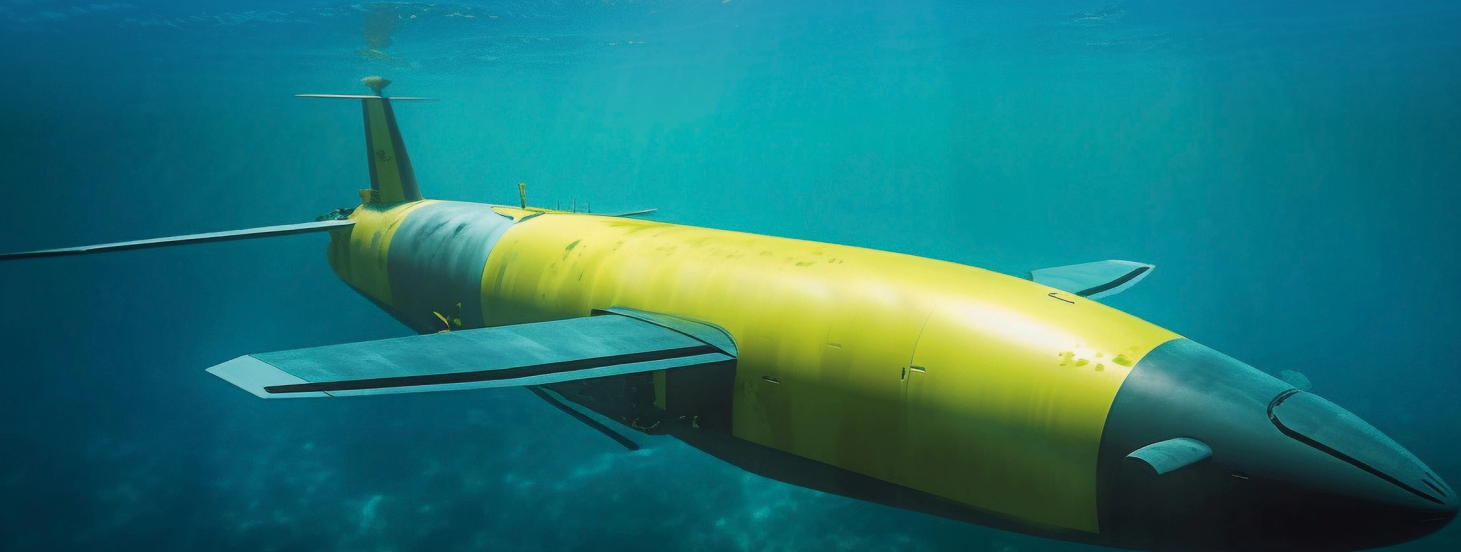
## Underwater Gliders

## Coastal Stations

- High Frequency Radars
- Tide Gauges
- Water Quality Stations



## Calibration Facilities



# A Mature Experience

12 years of continuous EU support over 4 projects, has enabled the JERICO-RI to develop strong expertise in both the conceptualisation and the testing of the implementation of coastal observing systems in European seas.

**FP7**  
2011 - 2015

## Physical Data

State-of-the-art coastal observation infrastructure and networks

**NEXT**  
2015 - 2019

## Addition of Biological Data

Better characterisation of ecosystem health and pressures on marine biodiversity

**S3**  
2020 - 2024

## Regional Sites: Societal needs + Long-term vision

Roadmap for next generation European coastal observing system

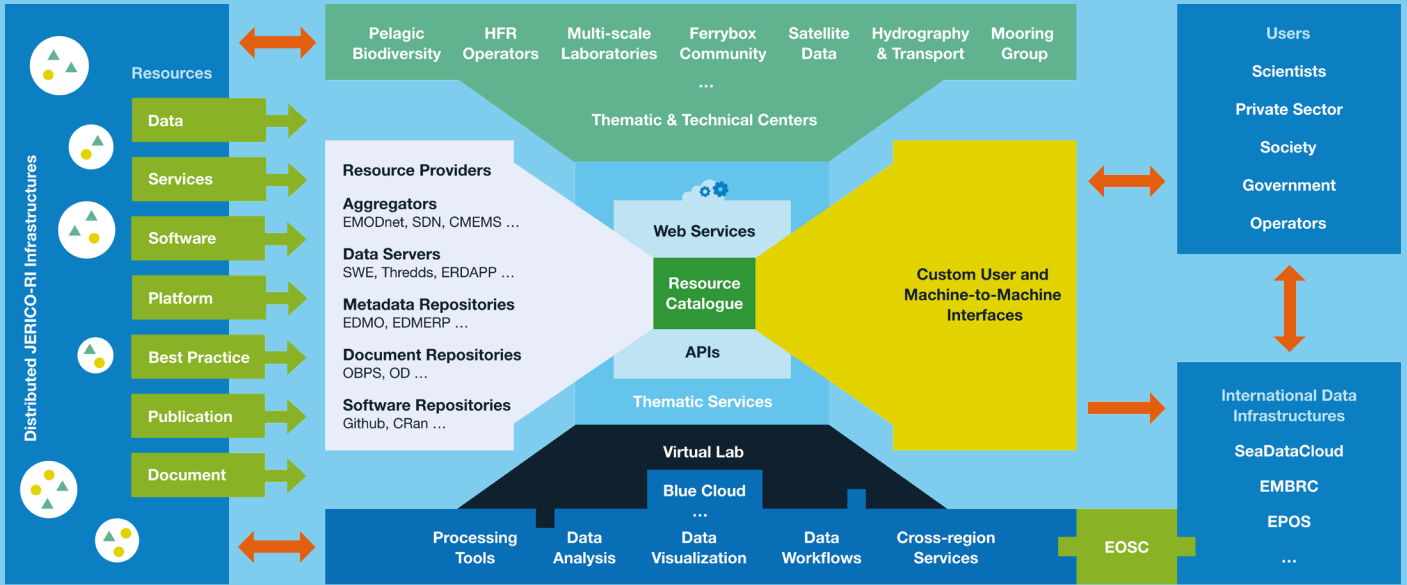
**DS**  
2020 - 2023

## Nations engagement EU legacy + Nation legacies

Design the RI, evaluating innovative solutions and scenarios and generating a business plan



# The JERICO-RI Infrastructure



## A Strong Community





# Access to Data, Products & Services

## Virtual Access

With JERICO-CORE (the JERICO-RI e-infrastructure), the coastal ocean is just one click away. Built as a one-stop-shop, providing users integrated access to data, products and services, integrating with Blue Cloud of EOSC, CMEMS and EMODNET services.

JERICO-CORE provides virtual access to 20 European coastal ocean services, free of charge and is open to all stakeholders and users.

## Access to the Physical Infrastructure

90+ Transnational Access projects and 50+ facilities are open to researchers, academia and industry, enabling testing, demonstration and validation of new innovative technologies, fast-tracking innovation.



# Supporting Environmental Policies and Crisis Response

In continuously observing the coastal ocean environment and ecosystems, the JERICO-RI provides long-term and high-frequency measurements to track climate variability and extreme events as well as helping to assess the impacts of coastal populations on the marine environment.

## A Partner in the Blue Economy

To support the sustainable Blue Economy, it is crucial to have access to long-term data, which helps in building knowledge about key scientific challenges and the environmental state of coastal areas.

The JERICO-RI regional and Pan-European infrastructure offers invaluable insights into the various pressures that influence the conditions and changes occurring in coastal oceans and supports environmental policies and crisis response.



