

The European Coastal Ocean Observing System

17+

Countries

JERICO comprises
17+ countries

39+

Partners

More than 39 partners are
involved in the RI

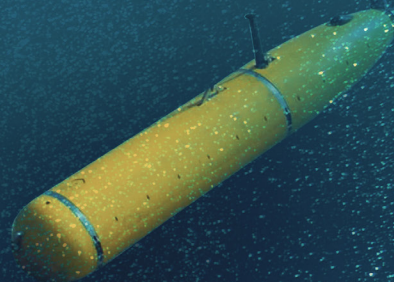
672+

Platforms

JERICO integrates more
than 670 platforms



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.

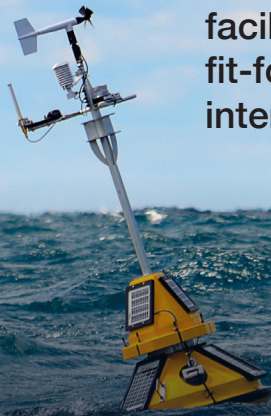


Image Credit: Adobe Stock

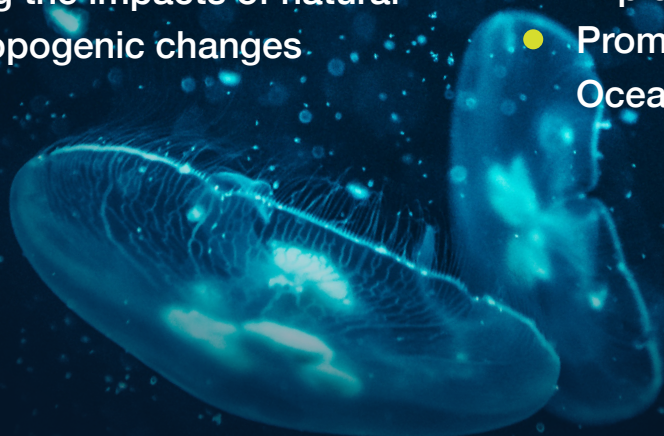


Key Scientific Challenges

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

Strategy Pillars

- Maximise the value for science and society
- Developing and integrating innovative technologies for coastal ocean observing and modelling
- Regional and Pan-European implementation
- Promoting coordination across Ocean observing initiatives



A Pan-European Multiplatform Approach

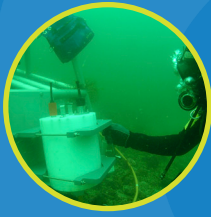
Fixed Platforms

- Bottom-based Observatories
- Multiparametric Buoys
- Coastal Landers



Moving Platforms

- Ferrybox
- Coastal / Surface Drifters
- Gliders
- Vessel-Mounted ADCP

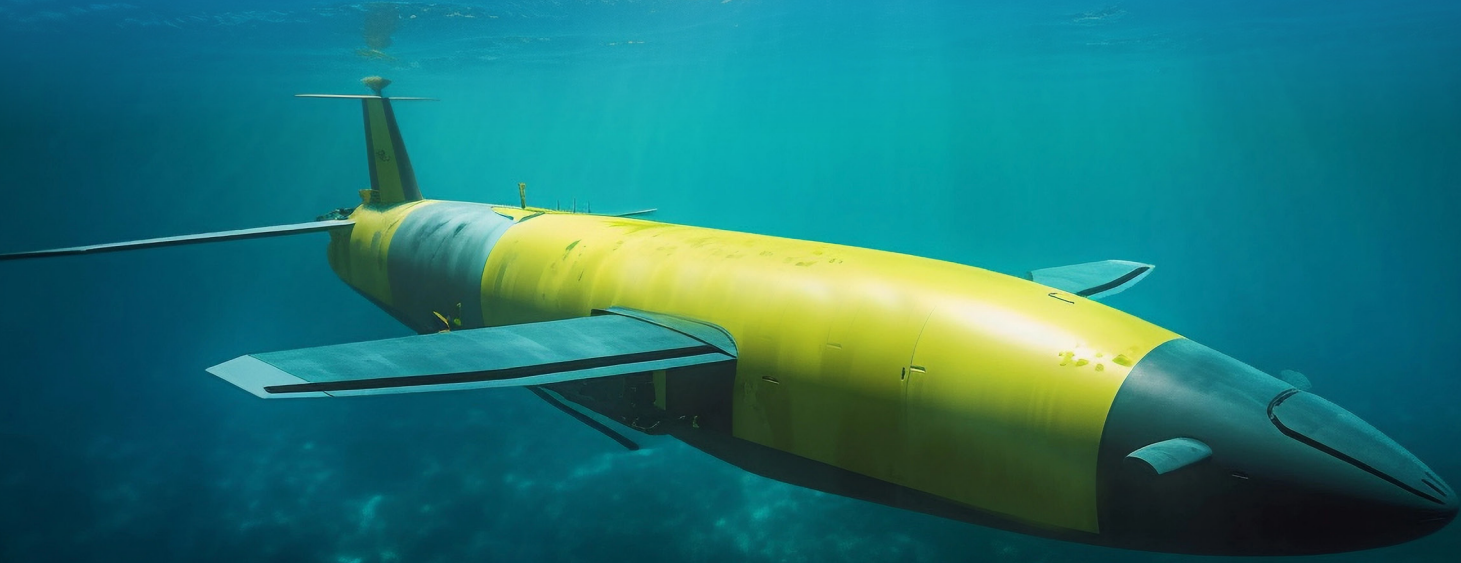


Land-based Stations

- Pier Multiparametric Station
- High Frequency Radars
- Tide Gauges



Metrology and 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 scientifically sound integrated coastal observations in European seas.

FP7

2011 - 2015

Physical Data

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

NEXT

2015 - 2019

Addition of Biological Data

More biogeochemical data, rather than Biological data which are still sparse and better addressed in J-S3

S3

2020 - 2024

Regional Sites: Societal needs + Long-term vision

More biology (through imagery and genomics) – Regional and pan-European strategies

DS

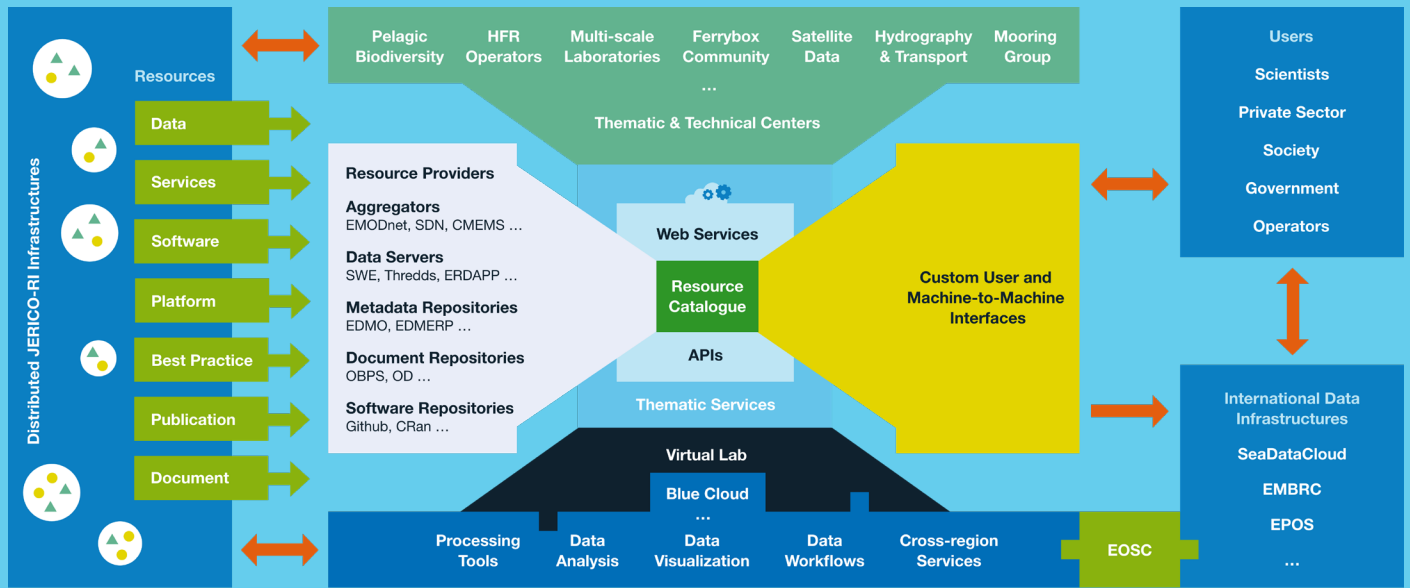
2020 - 2023

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

50+ facilities are open for access to academia for cutting-edge coastal research and to industry for testing, demonstration and validation of new technologies and fast-tracking innovation. Successful completion of more than 90 Transnational access projects.

Image Credit: Seapower Ltd.



A Partner in the Blue Economy

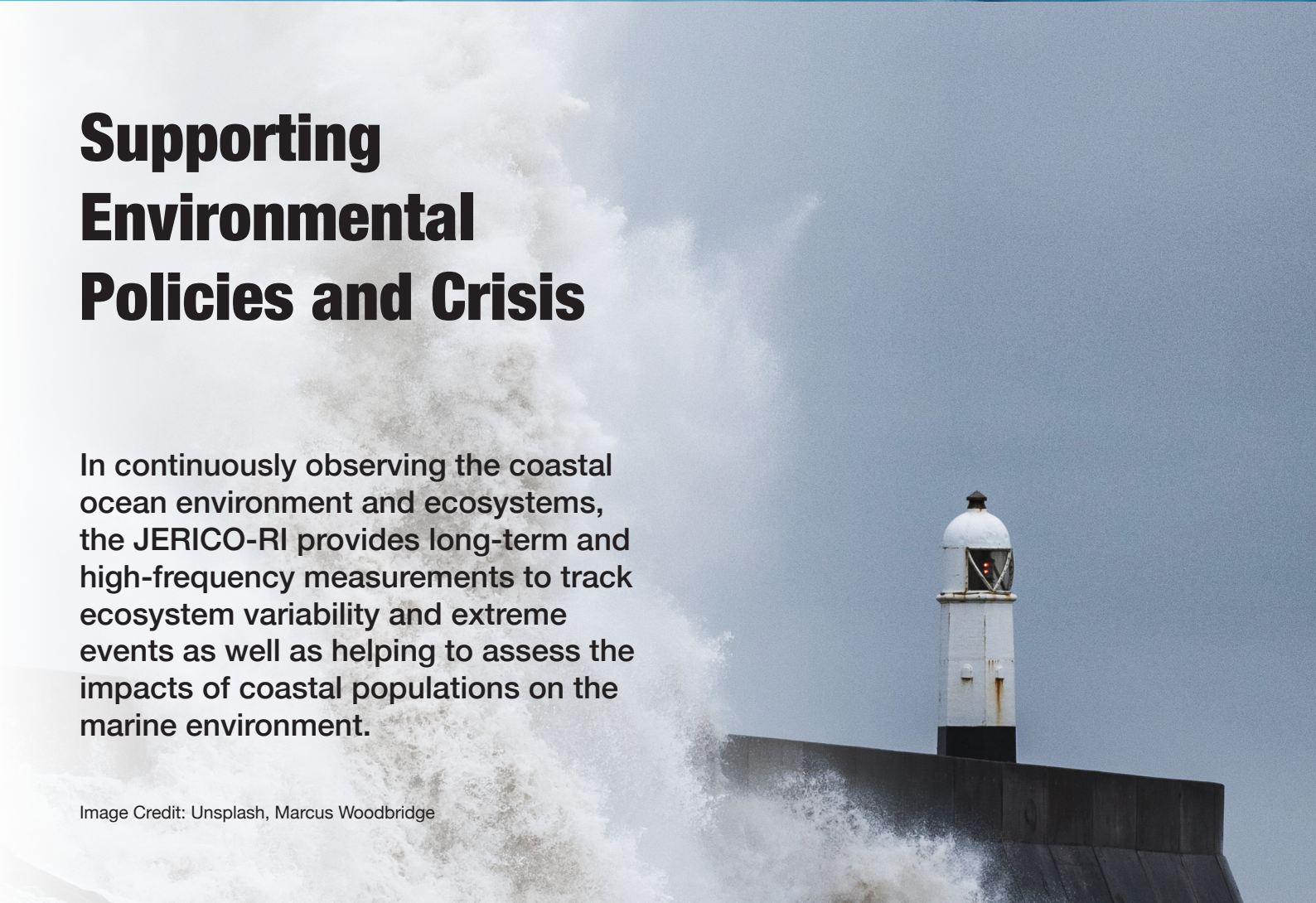
A photograph of several offshore wind turbines in the ocean under a clear blue sky. The turbines are dark blue and stand on a light blue sea. The sky is a gradient of light blue.

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.

Image Credit: Unsplash, Nicholas Doherty

Supporting Environmental Policies and Crisis

A photograph of a white lighthouse on a dark, rocky shore. The lighthouse is cylindrical with a white top section and a black base. The sea is dark and turbulent, with large white waves crashing against the shore. The sky is a pale, overcast grey.

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

Image Credit: Unsplash, Marcus Woodbridge

