

# 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](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.



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

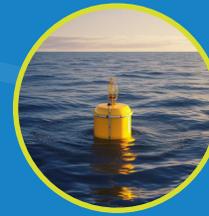
- Maximise the value for science and society
- Developing and integrating innovative technologies for coastal ocean observing and modelling
- Regional and Pan-European implementation
- Promoting coordination across Ocean observing initiatives



# 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



Image Credits: (1) SOCIB (2) Martin Pfannkuchen, Center for Marine Research, Ruder Boskovic Institute, Croatia

# 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

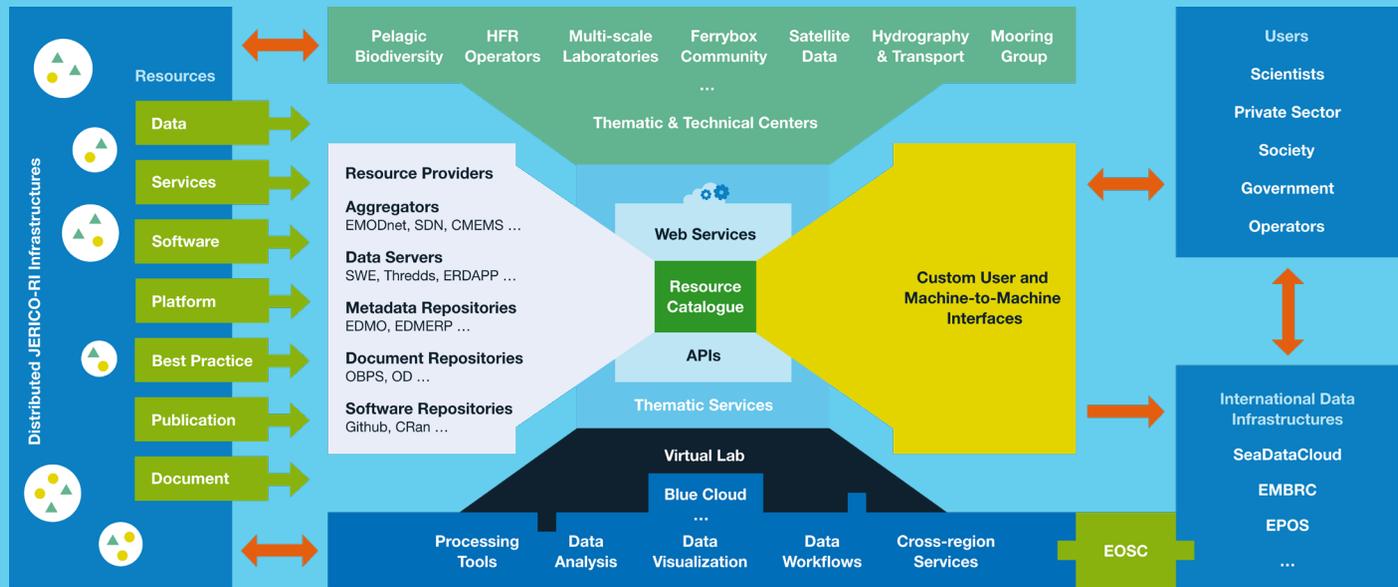
More biology (through imagery and genomics) – Regional and pan-European strategies

**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

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

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



<span style="color: green;">●</span> Bottom-based Obs.	<span style="color: purple;">—</span> Ferrybox
<span style="color: lightblue;">●</span> Fixed Platform	<span style="color: red;">—</span> Glider
<span style="color: red;">●</span> HF Radar	<span style="color: orange;">—</span> Profilers
<span style="color: orange;">●</span> Manual Sampling	<span style="color: green;">—</span> Surface Drifters
<span style="color: pink;">●</span> Coastal Profiler	<span style="color: purple;">—</span> Research Vessel
<span style="color: yellow;">●</span> Ferrybox	<span style="color: grey;">—</span> Regions