



# coast-sea observations RI

**Laurent Delauney**  
**JERICO / Ifremer**

26 March 2024 – LandSeaLot GA - Delft



LandSeaLot has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No 101134575. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

# The European Coastal Ocean Observing System

**17+**

**Countries**

JERICO comprises  
17+ countries

**39+**

**Partners**

More than 39  
partners are  
involved in the RI

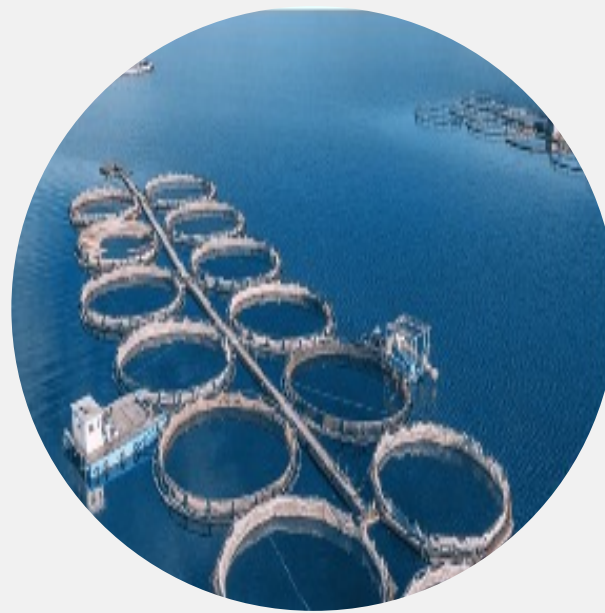
**676+**

**Platforms**

JERICO integrates  
more than 670  
platforms

 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.

Accompany a **SUSTAINABLE** Blue Economy and the Conservation / Restoration of coastal ecosystems



Achieving the requirements of sustainable development accounting for **local, national, regional** and **international** dimensions

Europe's Coastal Seas face unprecedented pressure. Key threats include:



**Climate change**



**Pollution**

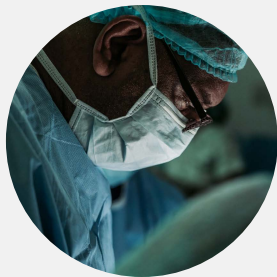


**Over exploitation  
(fishing, resources etc)**



**Habitat destruction**

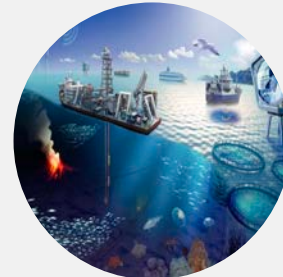
These threats not only harm the environment but also affect:



**Human health**



**Food security**



**The economy**



**Regulation**

The need to manage and mitigate against the threats to Europe's coastal domains in a sustainable manner has resulted in a suite of National, European and International policy instruments including:

**The Marine Strategy Framework Directive**

**The Water Framework Directive**

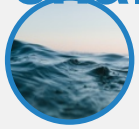
**The Common Fisheries Policy**

**The Bathing Water Quality Directive**

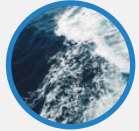


European member states have an obligation to meet these policy requirements at **local**, **national**, **regional** and **international** levels.

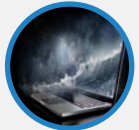
Monitoring the coastal seas is essential for sustainable development and meeting policy requirements, but it also presents a number of challenges, which include:



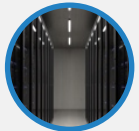
Vast **size**, diverse and **dynamic** area to be monitored



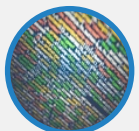
**Spatial** and **temporal variability** in physical and chemical parameters



**Access to robust data** and **data products** that can inform decisions at local, national and European levels



**Data management** and storage

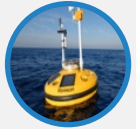


**Data integration** of different sensors, models, formats, units, parameters spatial and temporal scales across and within regions

Monitoring the coastal seas is essential for sustainable development and meeting policy requirements, but it also presents a number of challenges, which include:



Deployment and **maintenance** of sensors



**Quality assurance** of **data** from sensors and models



The data are large and complex and require **experts** to interpret or produce products for stakeholders

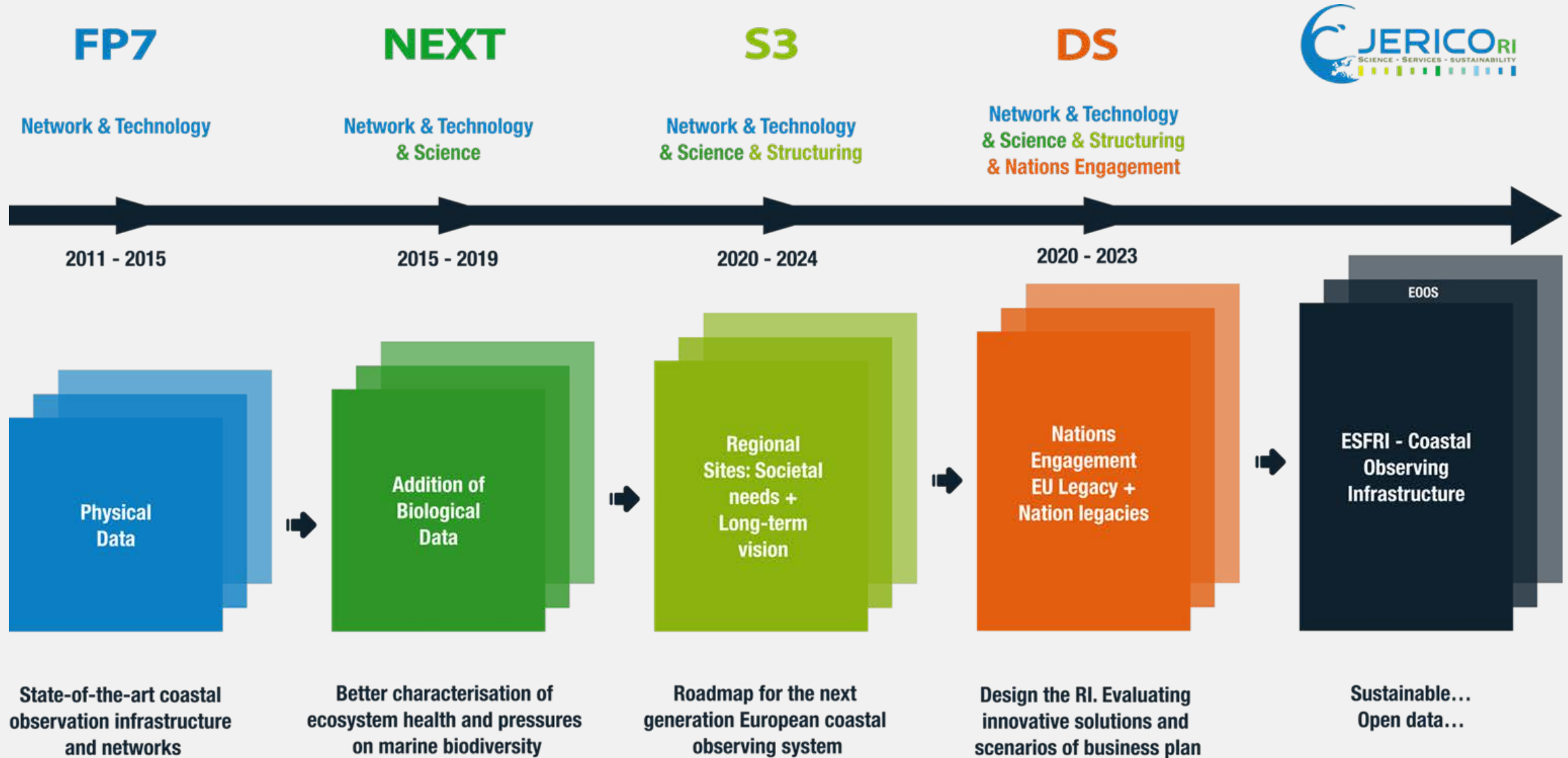


Lack of **standardisation** of methods and defined **best practices**



National, regional and international **cross-discipline** collaboration is required

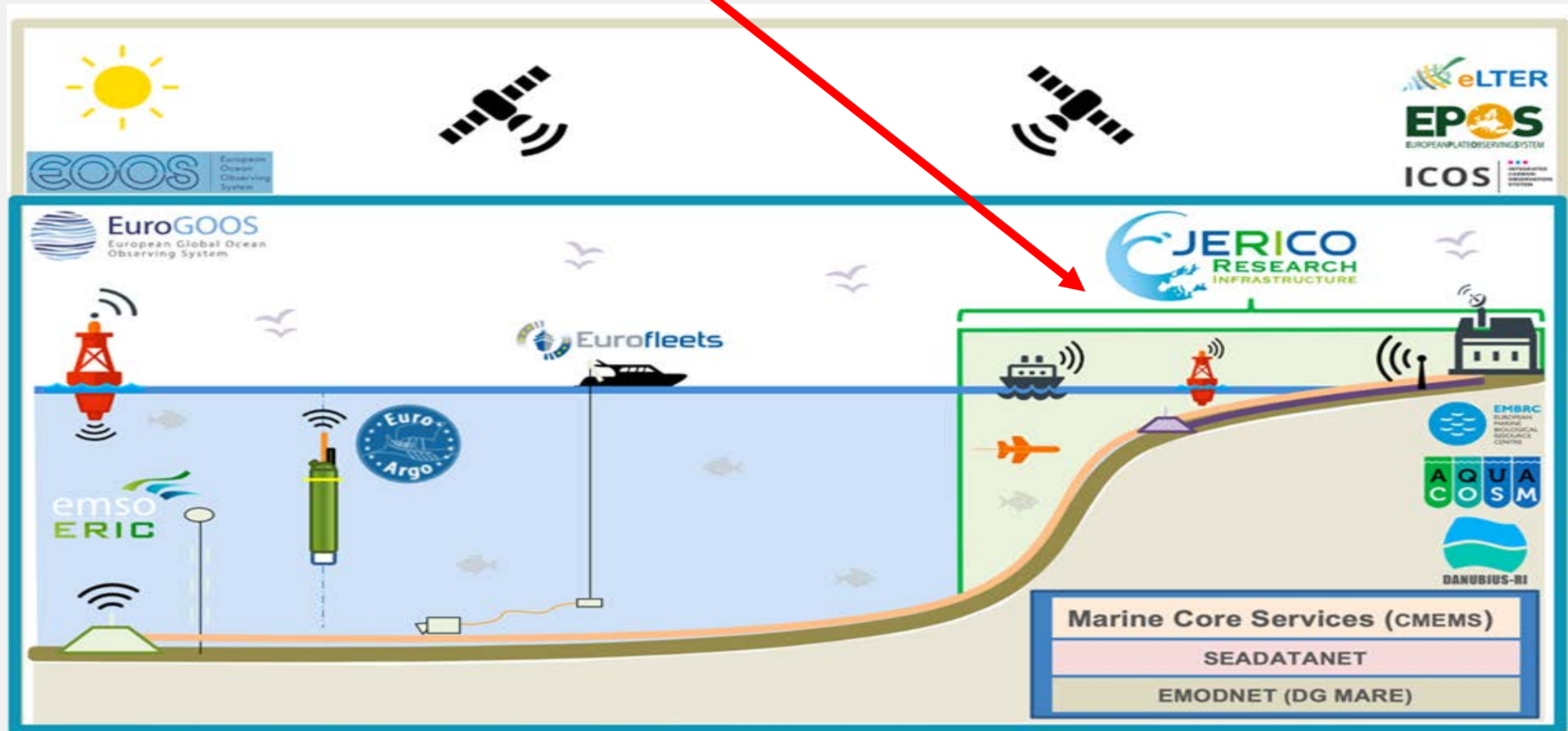
# More than 12 years building JERICORI





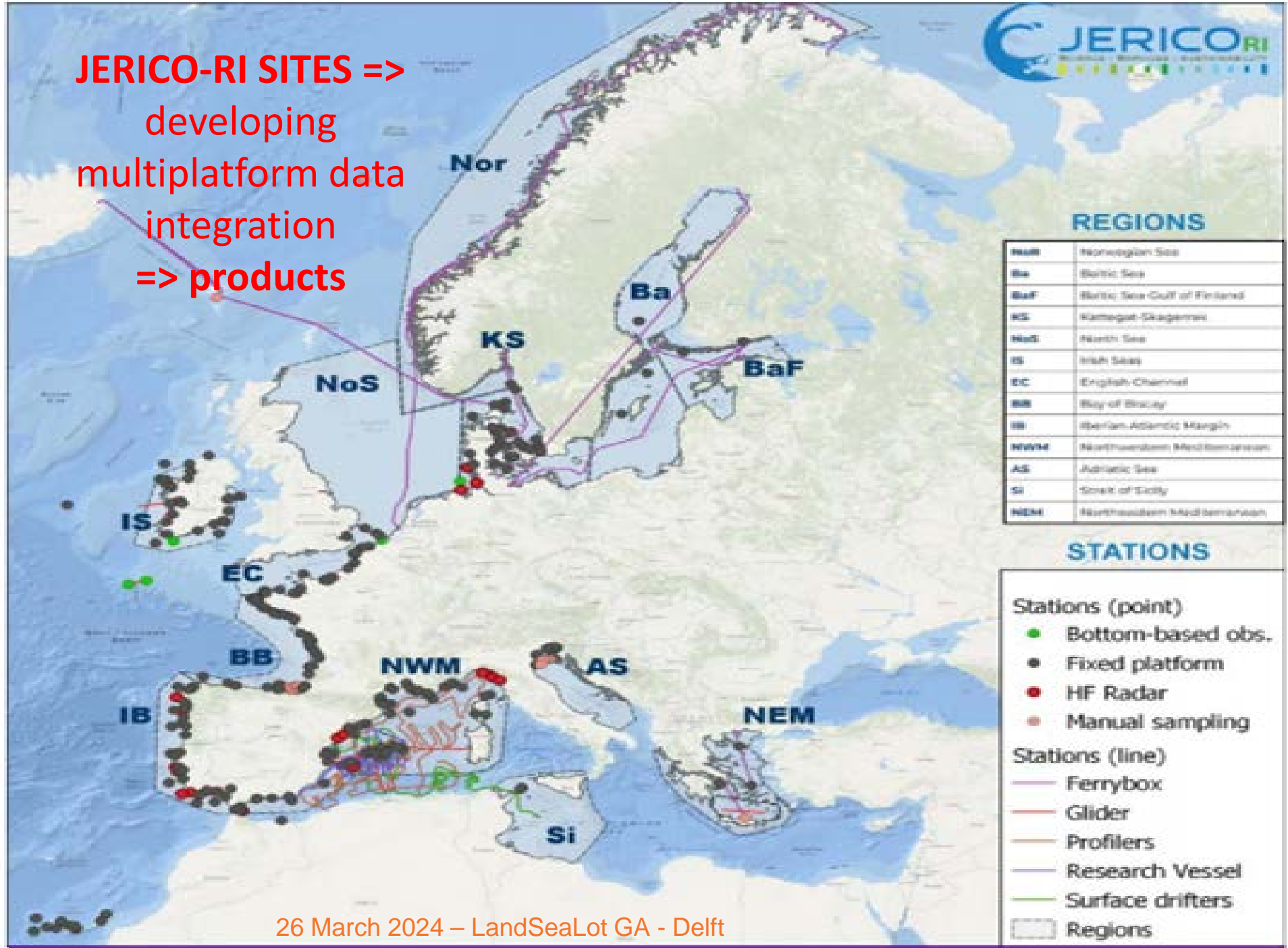
# The Coastal Domain at the interface between Land and Sea

A strategic position within the RI Landscape



26 March 2024 – LandSeaLot GA - Delft

**JERICO-RI SITES =>**  
 developing  
 multiplatform data  
 integration  
 => **products**



The multi-observing systems are distributed across the **13 JERICO strategic Regions.**

- Norwegian sea
- Baltic Sea
- Baltic Sea - Gulf of Finland
- Kattegat-Skagerrak
- North Sea
- English Channel
- Irish Sea
- Bay of Biscay
- Iberian Atlantic Margin
- Northwestern Med.
- Adriatic Sea
- Strait of Sicily
- NorthEastern Med.

Regional

**Integration of approaches**

knowledge, methods & activities

EU

**Use cases from regions to EU**

sharing of technologies, best practices, joint workshops

Board of RIs

**CEOs Incentive discussions**

joint EU proposals, new countries... MoUs



**Objective:**

**Engage a synergy to coordinate, optimize, generate added value,  
Reach formal agreements (MoU)**

# Why Research Infrastructures ?

To be  
**FASTER !**

- To implement collaboration.
- To investigate scientific topics.
- To answer societal challenge.
- To improve the observation system.
- ...

Integration and Interaction of EU env. RIs is the key to success

**Danubius + ICOS + JERICO for estuary areas**

thanks to **LandSeaLot**

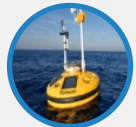


## Integration and articulation of EU Environmental RIs is the key to success

Danubius + ICOS + JERICO for estuary areas



Avoiding avoid replication of effort



Joining, sharing expertise



Joining capacity effort (observation, modelling, access)


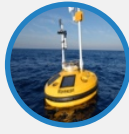





Expanding our outcomes => Land sea continuum



Showing National, regional and international **cross-discipline** collaboration

## LandSeaLot added value for JERICO

-  Having three(\*) strong communities knowing each other much better
-  Reinforcing the observation system in the estuary areas
-  Reinforcing the scientific knowledge of the estuary areas
-  Showing that Land Sea continuum can be improved in the estuary areas thanks to RIs collaboration
-  Being visible at European and International levels with a concrete scientific outcomes

**Thanks a lot  
for your  
Attention.**



# Let's observe together!

Visit [landsealot.eu](https://landsealot.eu)

Be part of the conversation in  



LandSeaLot has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No 101134575. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.