JERICO RI

INTAROS DIALOG MEETING

04 February 2021

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Contributor : JERICO Consortium

I. Potential of JERICO-RI

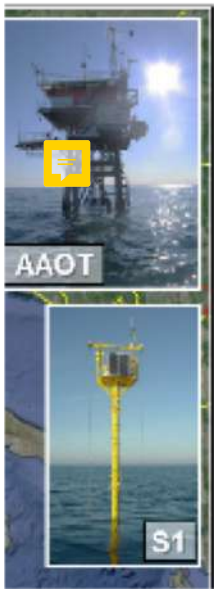
JERICO
Joint European Research Infrastructure for Coastal Observatories

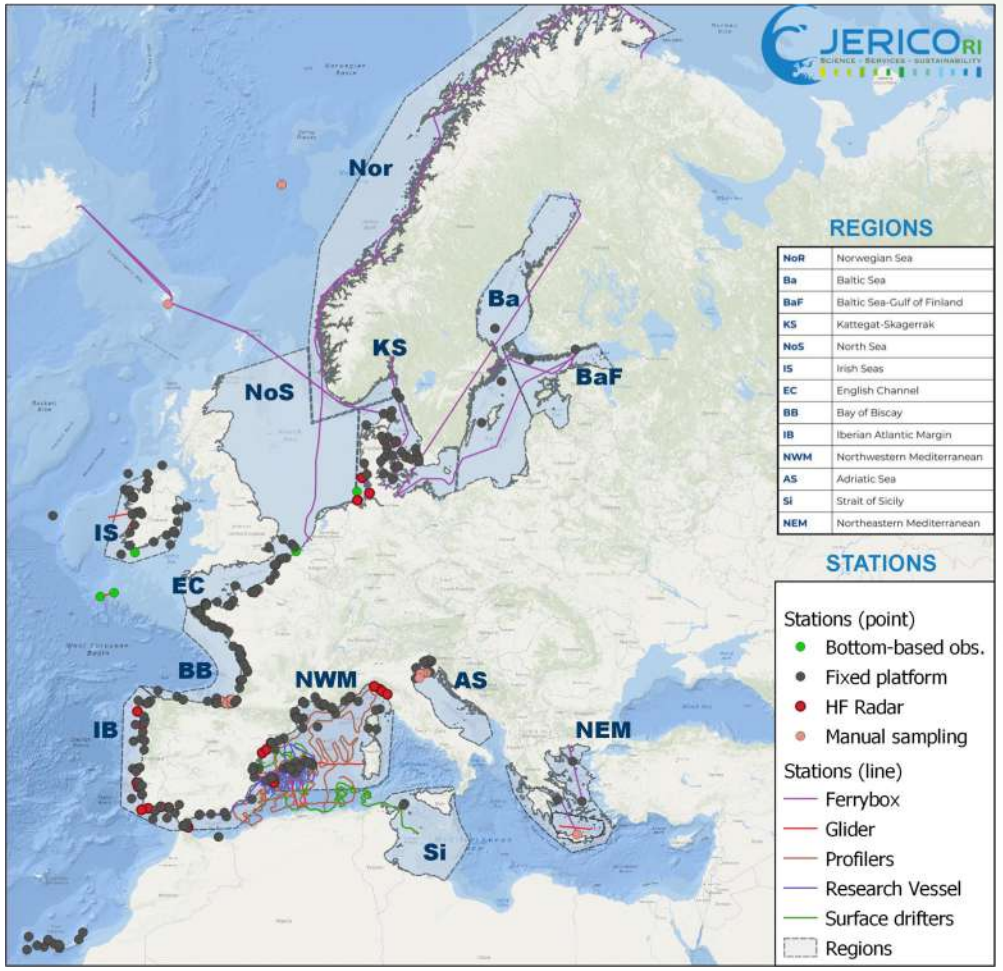
The potential of a European coastal observation system

- Physical integration: a system of local and regional platforms
- Virtual integration: building on national and EU e-Infra
- Geopolitical integration: building on national capacities

Potential of JERICO-RI: the physical part

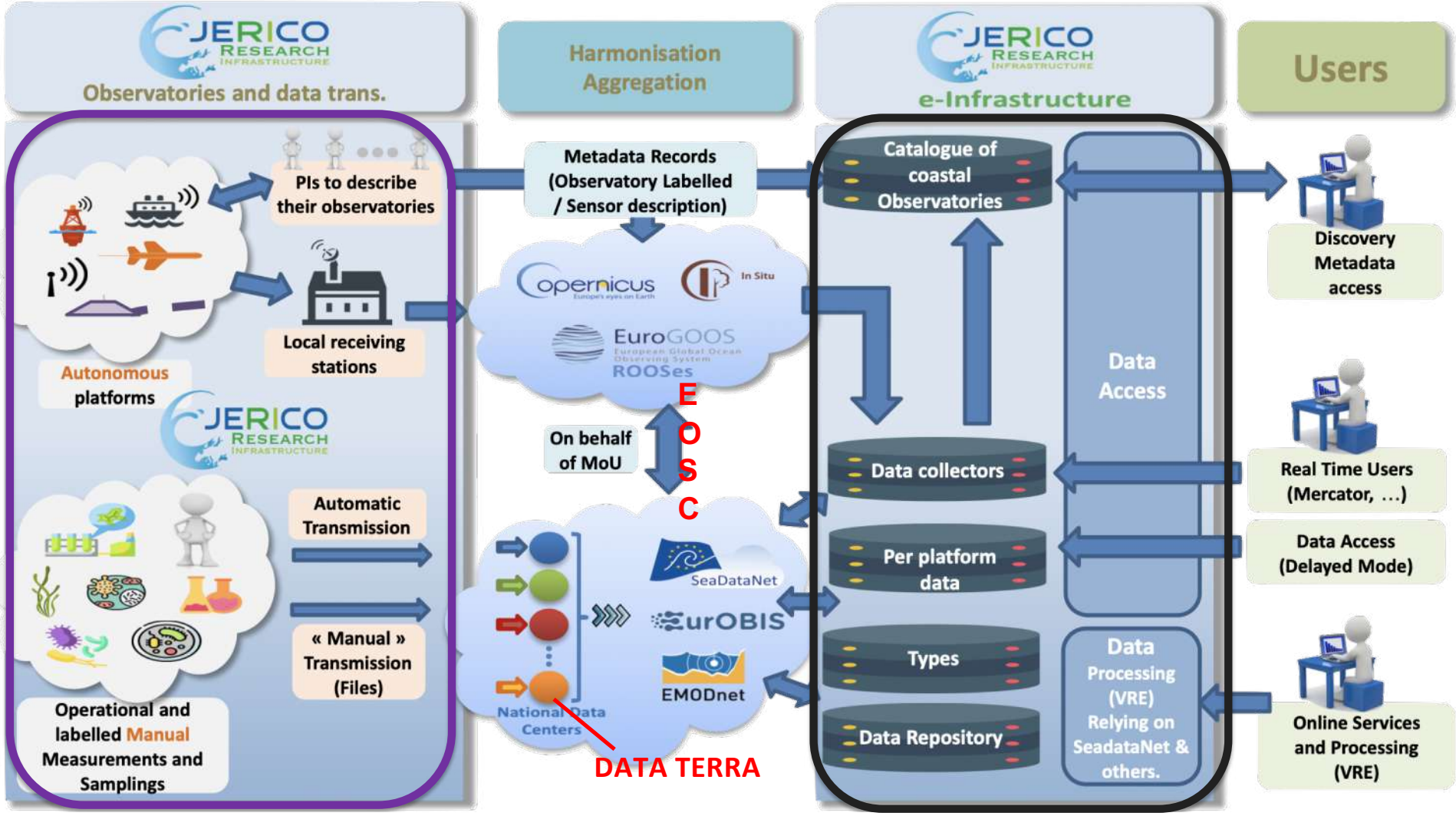
- More than 500 platforms listed
- 13 European Regions
- 19 European countries
- ~ 40 partners





Potential of JERICO-RI: the virtual part

Sensor interoperability with FAIR Data delivery



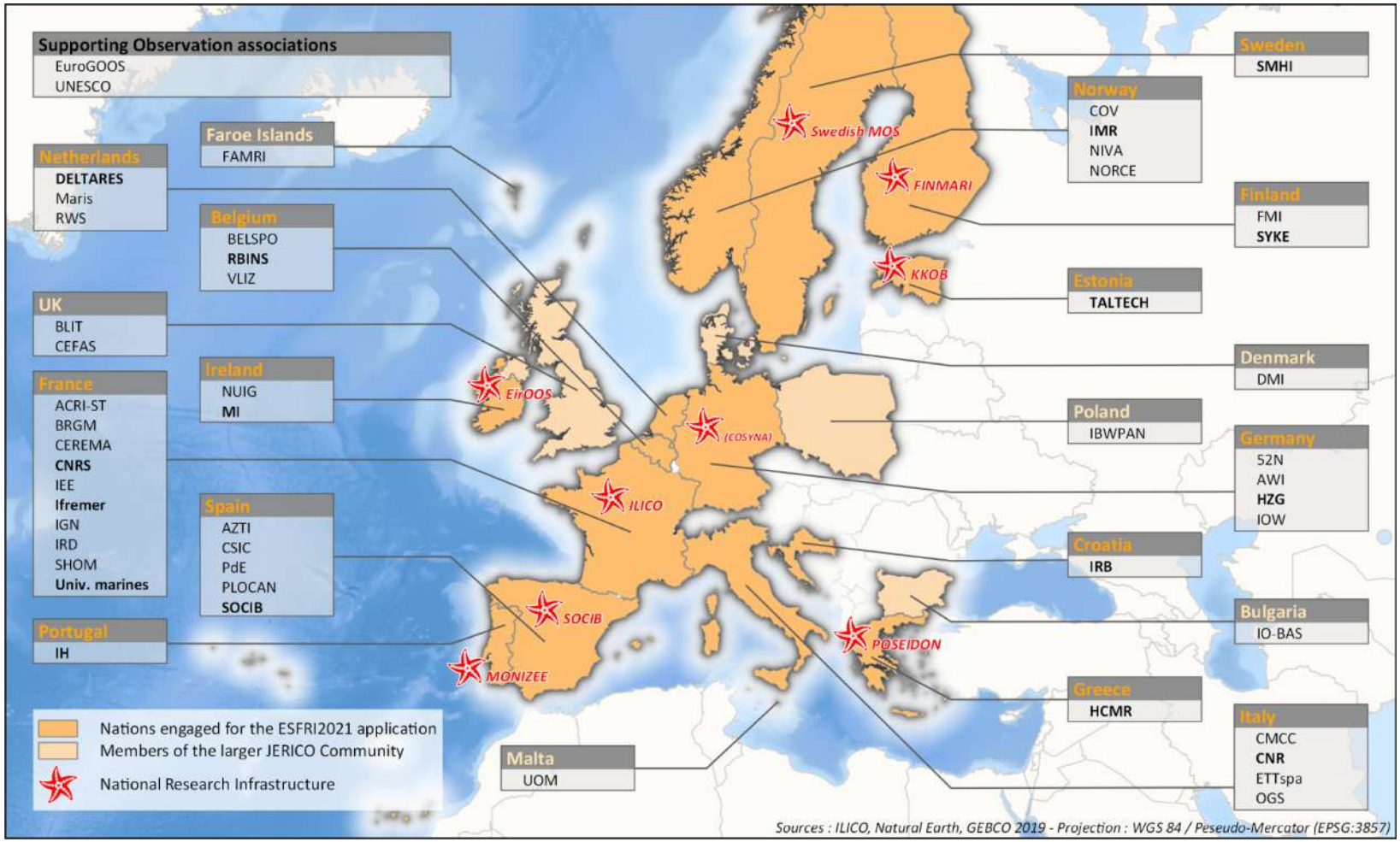
Potential of JERICO-RI: the strategy part

International expertise for an integrated multidisciplinary approach

∑ National Roadmaps

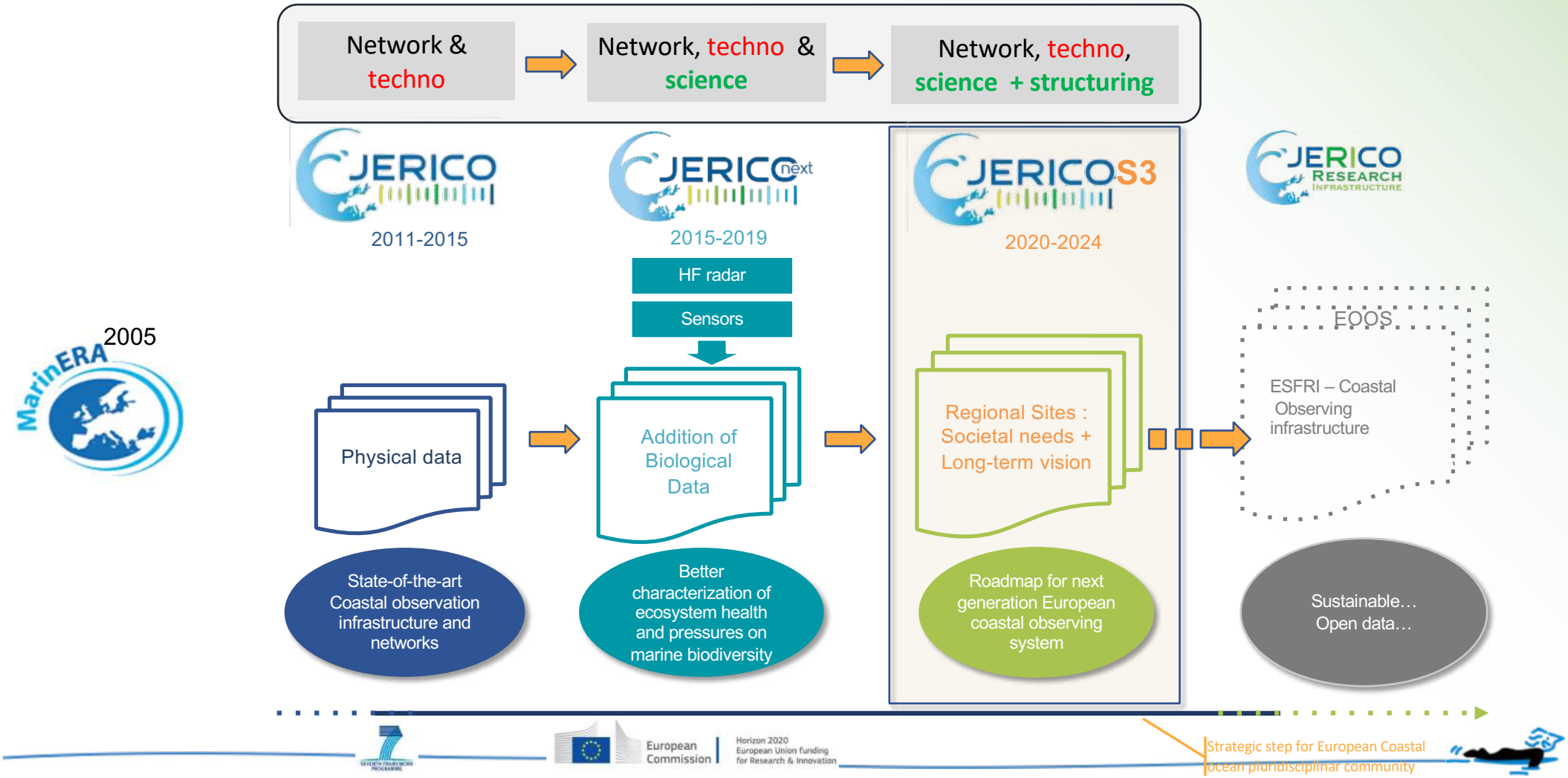
≈ 40 partners,
19 nations
9 National RIs

∫ EU



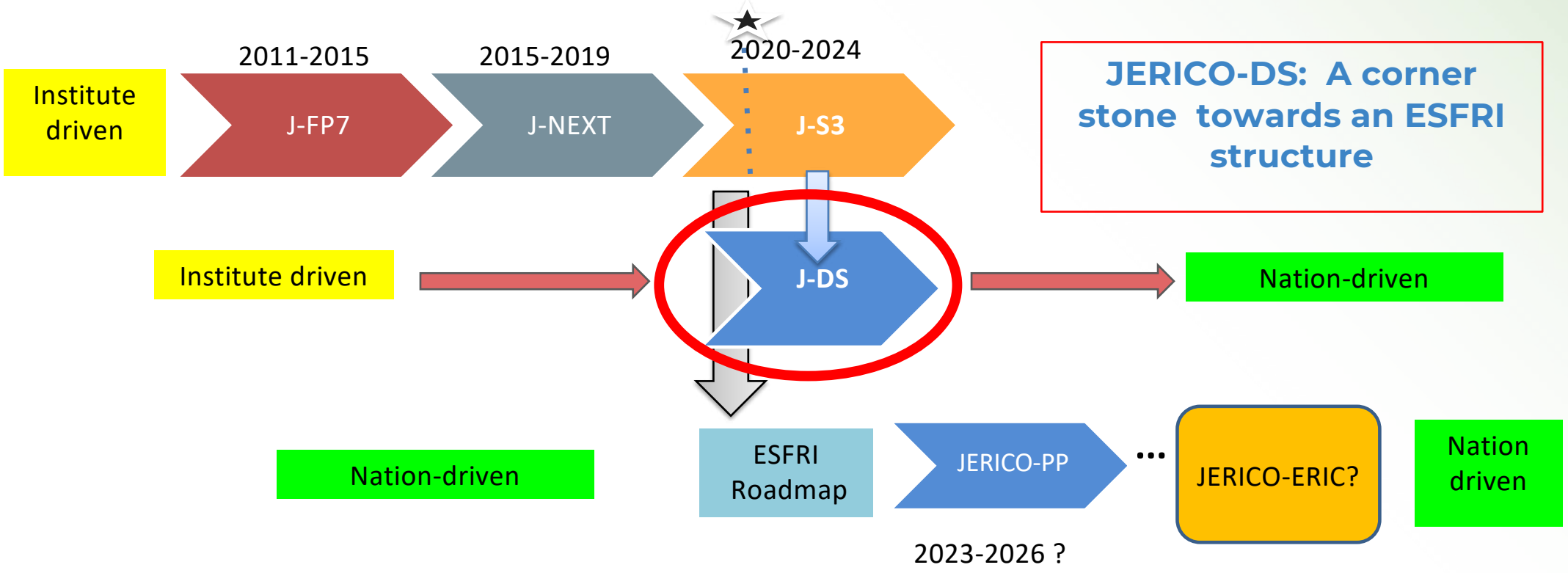
II. The JERICO story

History: from an IR to an ESFRI then to an ERIC



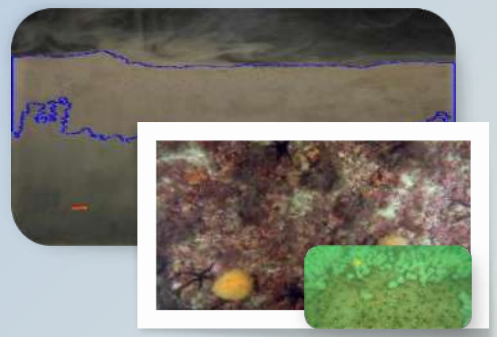
History: from an IR to an ESFRI then to an ERIC

JERICO-RI: the European coastal observing system of systems
& related projects: J-FP7, J-NEXT, J-S3, J-DS

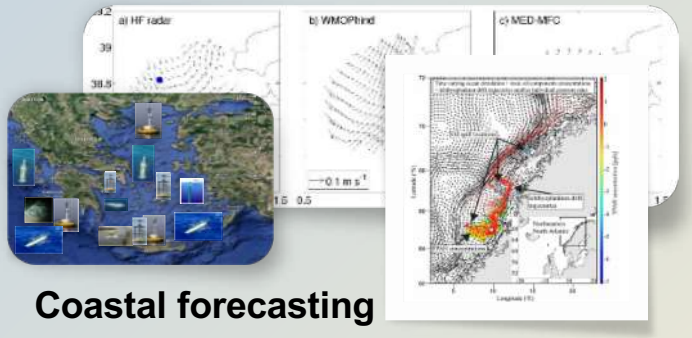


History: from JERICO-FP7 to JERICO-NEXT

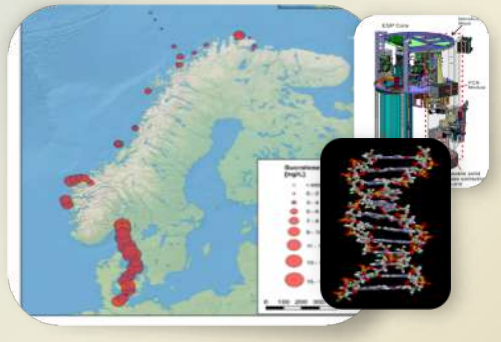
❖ 6 topics // MSFD



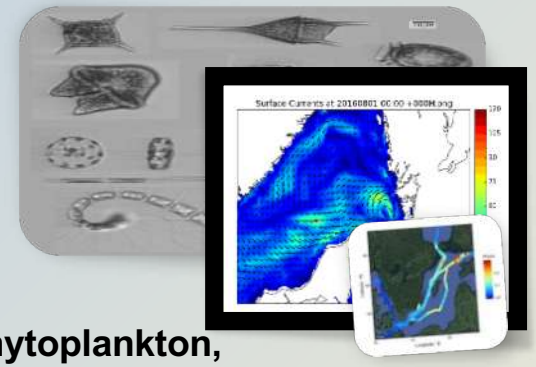
Macrobenthic biodiversity



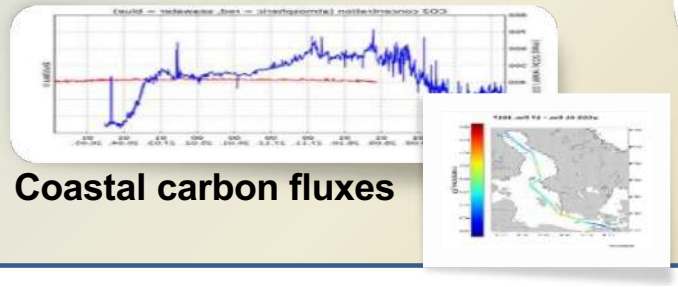
Coastal forecasting



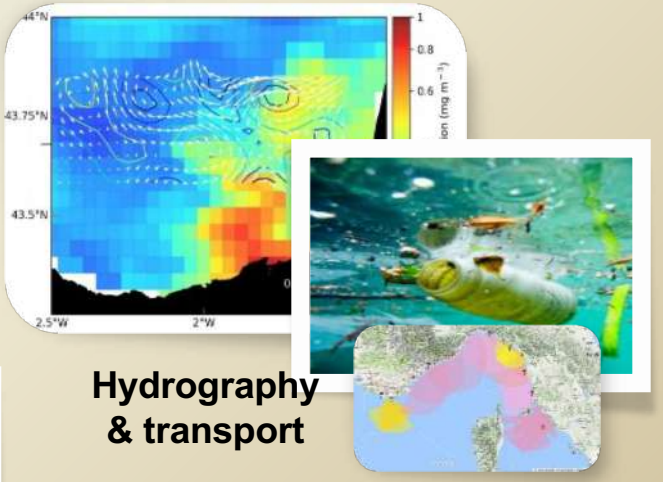
Chemical contaminants
& biological responses



Phytoplankton,
HAB & eutrophication



Coastal carbon fluxes

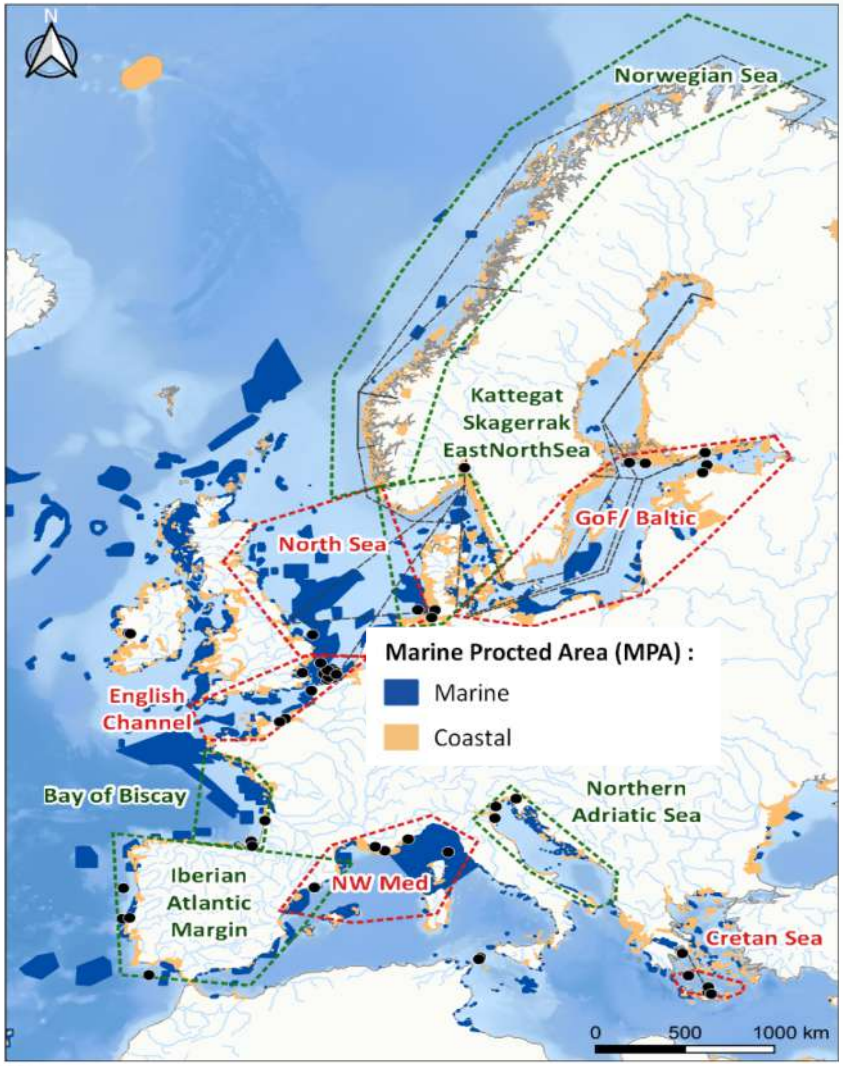


Hydrography
& transport

from JERICO-FP7 to JERICO-NEXT : Regionalisation

End of JERICO-NEXT:
Structuring by site.

-> JERICO-S3



Sources :
Marine Institute (JERICO-S3 TA installations), WDPA (MPAs), GEBCO - GSHHG - OSM (Basemap)
Coordinate system : Pseudo-Mercator

Regional sites

Local specific sites
- → **Expertise**
- → **Strategic location**
- **...**

JERICO-S3 => Science, Services and Sustainability

Towards an integrated scientific observation strategy

- Integration of harmonized observation systems (multiplatform approach),
- Technological developments to facilitate integration and interoperability
- Synergy with other relevant IRs and ERICs.
- taking into account regional and local specificities.

Improve ACCESS to integrated coastal data flow and related services

- Provision of an integrated harmonized system to provide information on coastal seas and the continental shelf => by testing a regional functioning and prototyping an interoperable e-infrastructure with the EU in prior design of JERICO-RI .

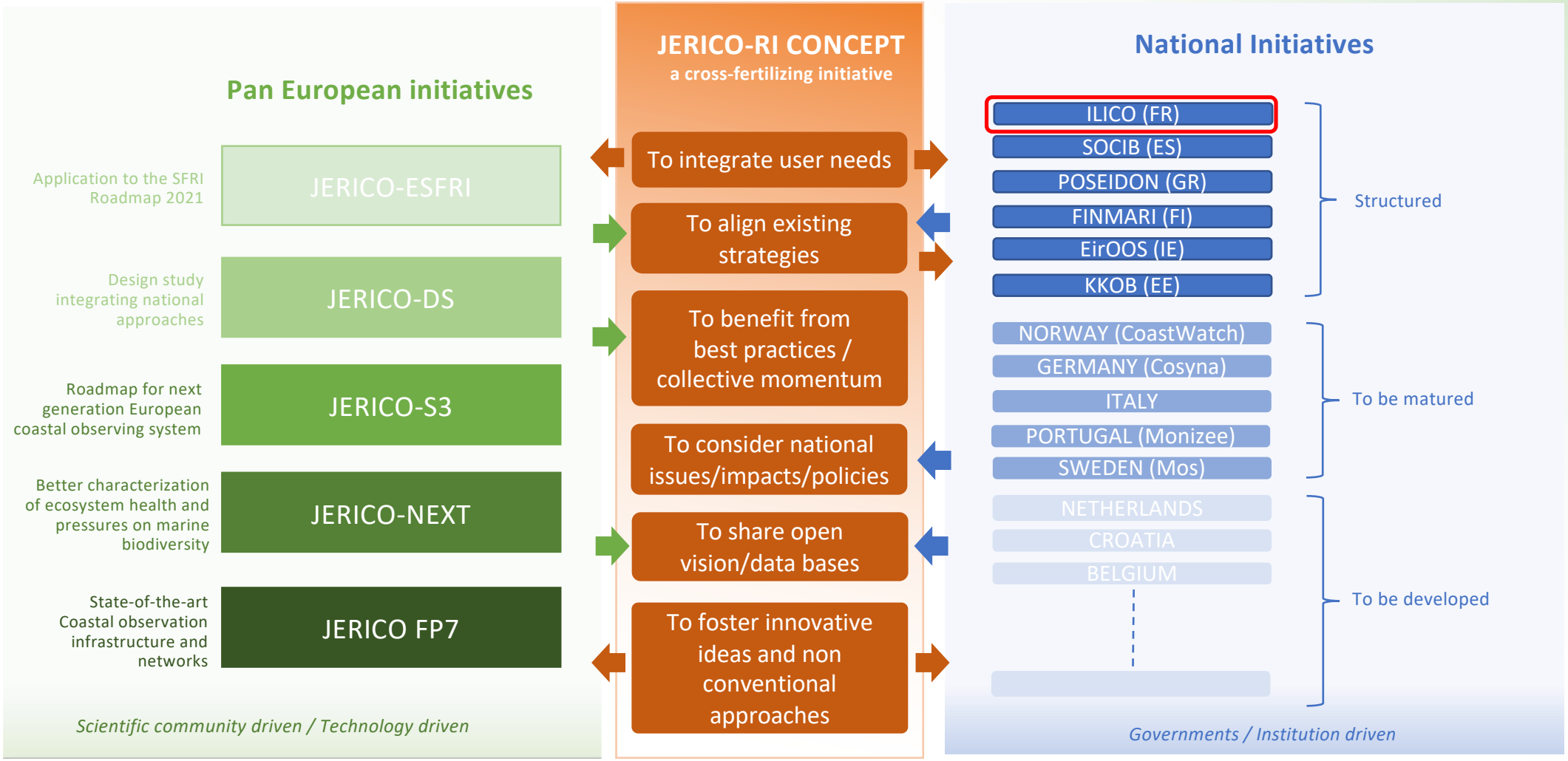
III. NOW : JERICO-S3 & JERICO-DS

The Present… and for the next 4 years

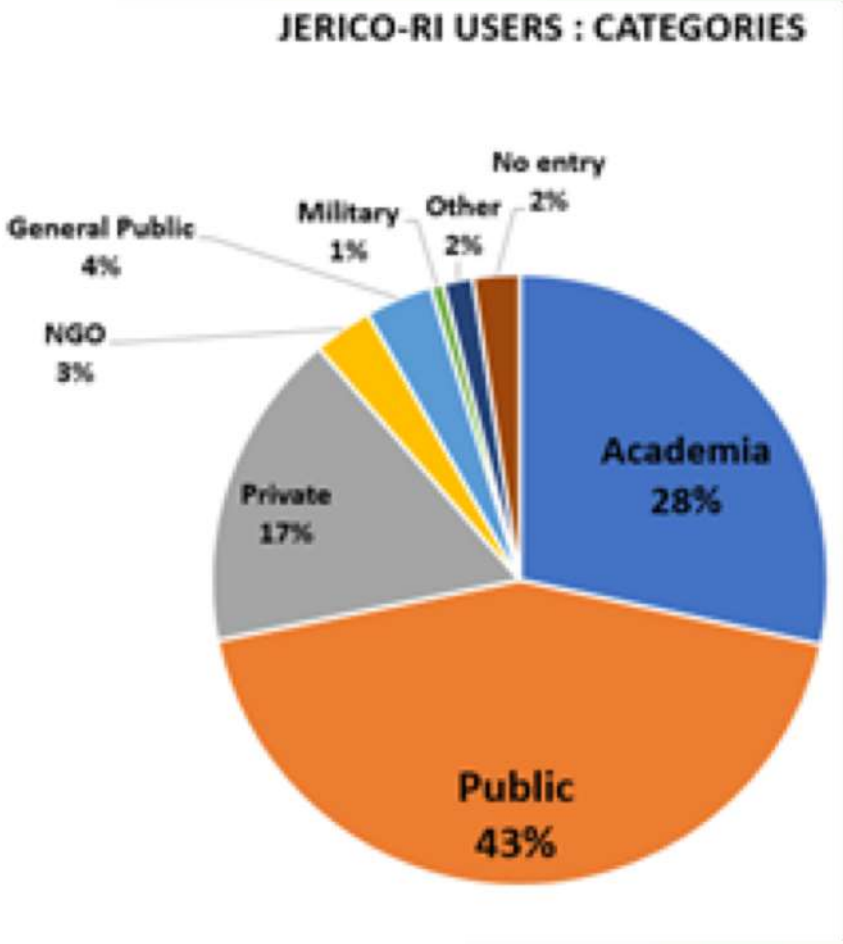
- **JERICO-S3** (Feb. 2020-2024, H2020, 10M€)
- **JERICO-DS** (Oct. 2020-2023, H2020, 2.5M€)
- **JERICO-RI**'s application for the **ESFRI 2021** roadmap

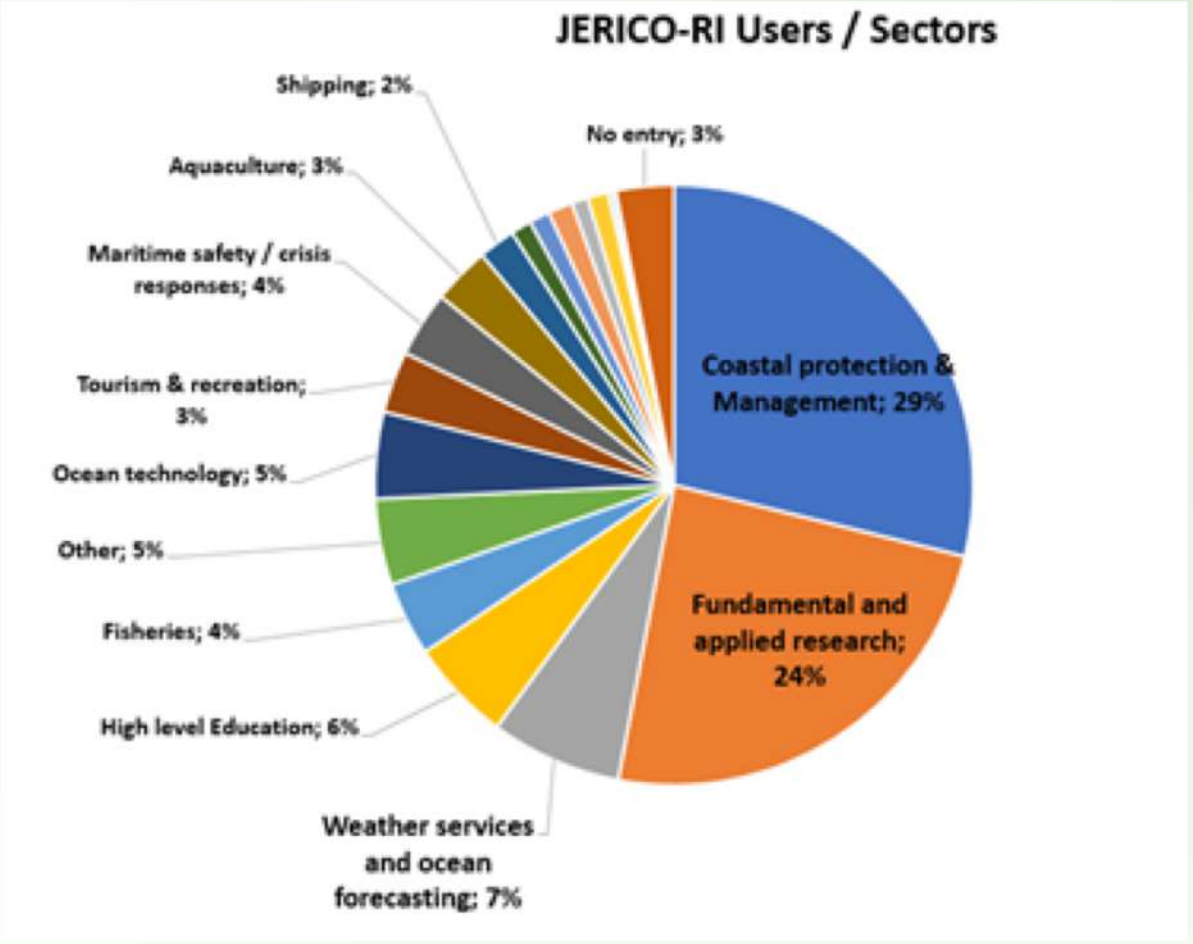
JERICO-DS: the pivot towards an ESFRI structure

Convergence JERICO-RI / National roadmaps



JERICO-S3: towards a sustainable IR
User analysis (preliminary), Business plan ...





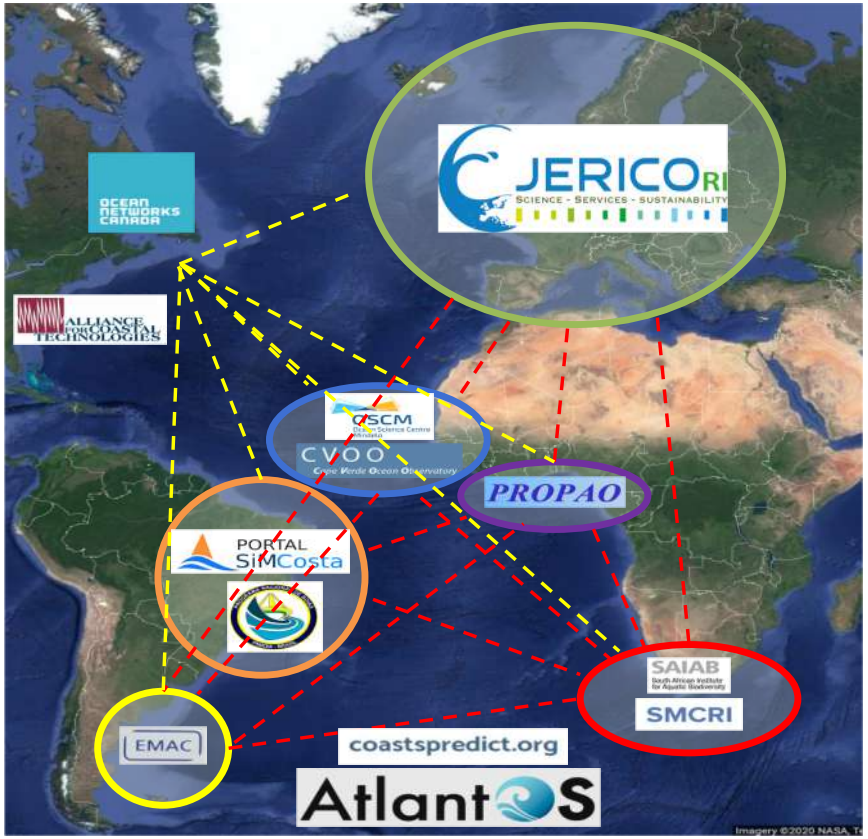
JERICO-RI beyond Europe

AA-COASTNET: All Atlantic COASTal observing and technology NETwork

BUILDING AN ALL ATLANTIC OCEAN COMMUNITY
Implementing the Belém Statement

AANCHOR Pilot action proposal

A network dedicated to
Marine Coastal Observations
with the countries part of the Belem and Galway Statements



BRAZIL
- SIMCosta: Brazilian Coastal Monitoring System
- PNBoia: The National Buoy Program
- MePro initiative: Best Practices in Ocean Observations

ARGENTINA
- EMAC low-cost buoys and stations monitoring network

SOUTH AFRICA
- SMCRI: Shallow Marine and Coastal Research Infrastructure
- SAIAB: South African Institute for Aquatic Biodiversity

WEST AFRICA
- PROPAO: Coastal sea Surface temperature network

CARBO VERDE
- CVOO: Cabo Verde Ocean Observatory
- OSCM infrastructure: Ocean Science Center of Mindelo

EUROPE
- JERICO-RI: Joint European Research Infrastructure for Coastal Observations

And as advisory entities:
- AtlantOS (EU, Trans-Atlantic)
- Alliance for coastal technologies (US)
- Ocean Network Canada (Canada)
- CostsPredict.org

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818395.

JERICO-RI => beyond Europe

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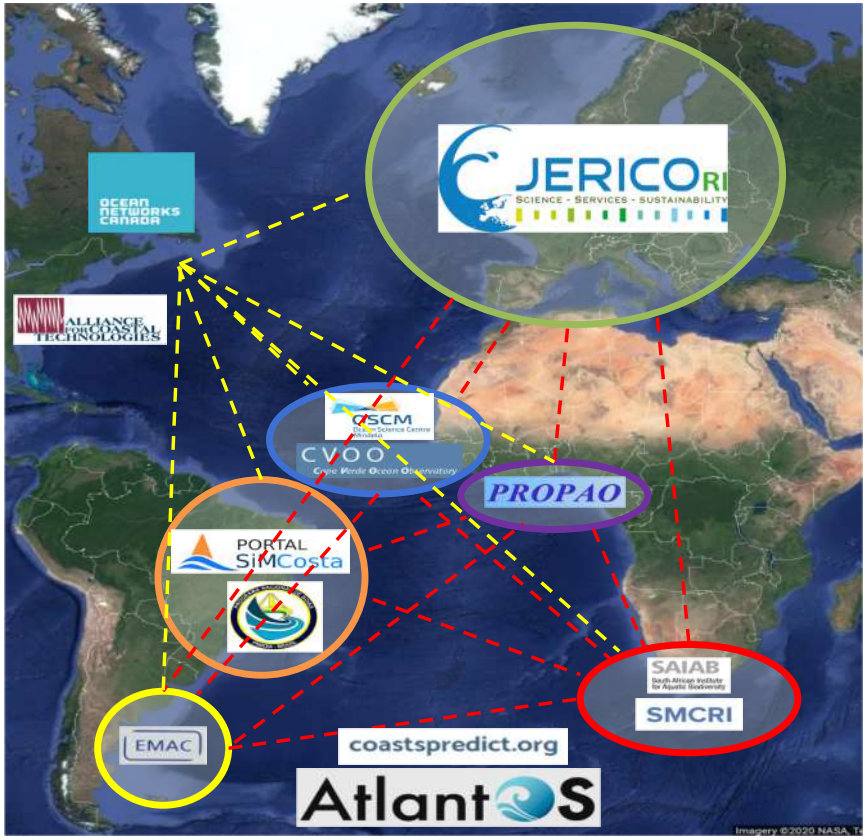

Long term objectives

- promote a **better scientific knowledge** about the links and exchanges between offshore and inshore/coastal regions.
- to **connect**, **align** and **maximize** the coastal observation efforts already existing in both edges of the tropical and southern Atlantic,
- inducing the **use common guidelines** that lead to the improvement of the best observation practices,
- **keep a close link** with open ocean observing networks in the All Atlantic basin
- **promote cooperation and ship-time/equipment sharing**, once ships necessarily cross shelf break-shelf-coastal areas
- to **encourage and identify new sources of funds** for its maintenance, especially those made available in calls for proposals from international and trans-national funding agencies
- contributing to the **« Predicting Global Coastal Ocean : Toward a More Resilient Society »** as proposed for the **United Nations Decade**
- to **follow the UN Ocean Decade implementation plan** and to apply for endorsement by the UN Ocean Decade

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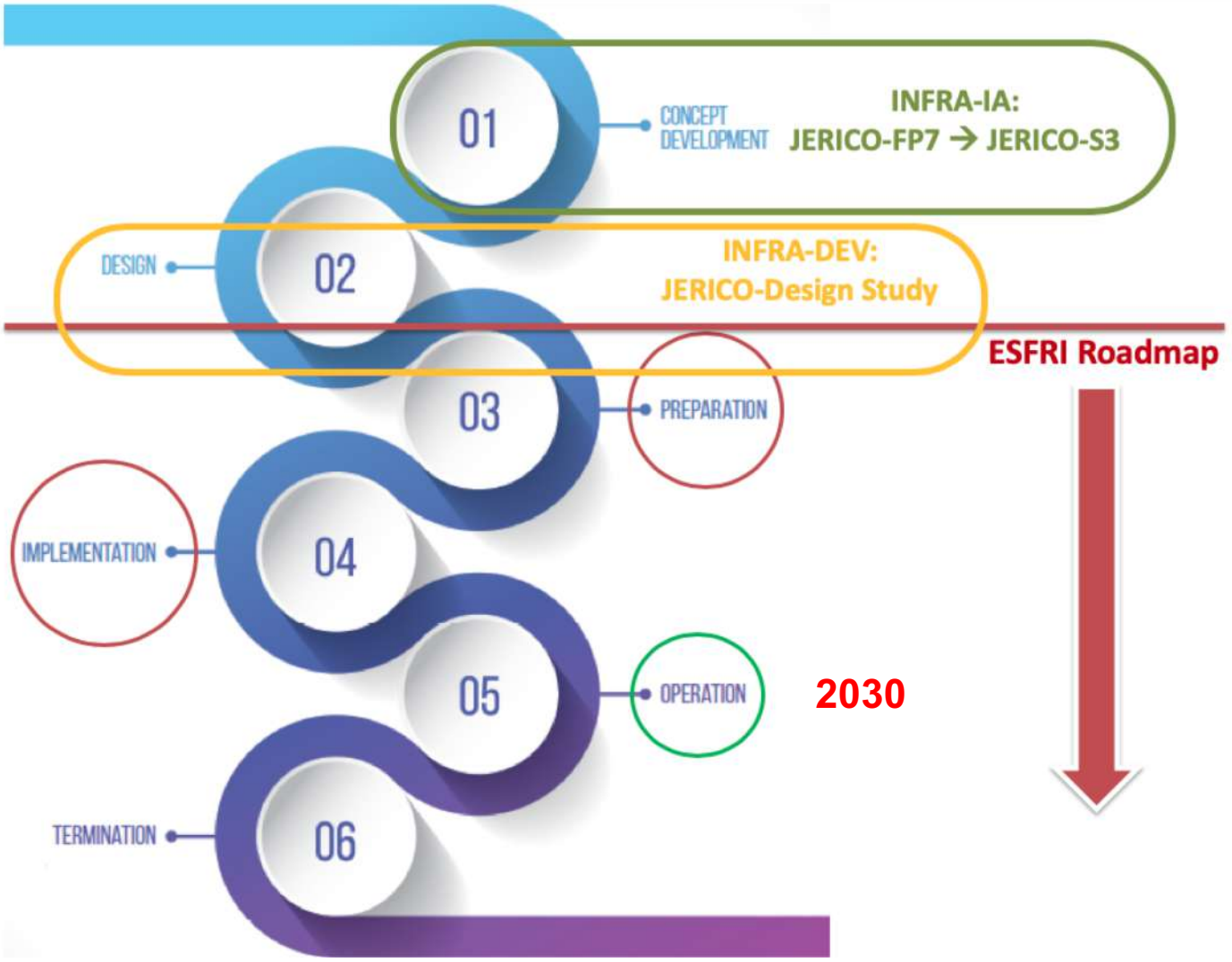
IV: Towards a sustainable, operational and recognized European RI

Positioning in the ESFRI process

Application to the ESFRI roadmap 2021: in evaluation

→ answer 2021



JERICO and INTAROS

- No JERICO observation platforms in the specific Artic area
- NORWAY part of JERICO (IMR, NIVA, NORCE) => Important INTAROS datasets provider
- JERICO partners provides datasets to INTAROS (NO ones + SMHI, AWI, CNRS, Ifremer, etc.
- Artic was discussed by JERICO consortium, may be will be a future objective but not in a near future.

- Best Practices on specific variables and instrumentations data treatment (Expert Centers)?
- Coastal integrated technologies?
- e-JERICO?

Part of this work was supported by the JERICO-S3 project. This project has received funding from the European Union"s Horizon 2020 research and innovation programme under grant agreement n° 871153."

Part of this work was supported by the JERICO- DS project. This project has received funding from the European Union"s Horizon 2020 research and innovation programme under grant agreement n° 951799