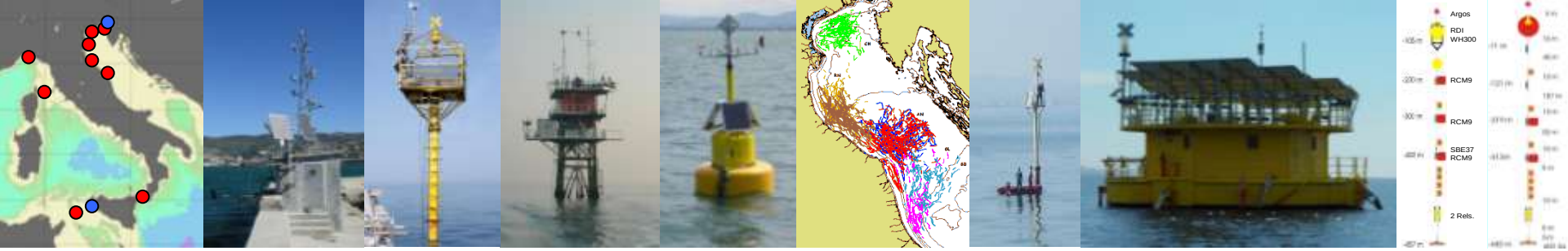


JERICO

Joint European Research Infrastructure network for Coastal Observatories

Stefania Sparnocchia e Pier Francesco Moretti

con il contributo di

M. Bastianini, A. Belardinelli, A. Bergamasco, M. Borghini, G. Bortoluzzi, R.R. Colucci, S. Cozzi, M. Faimali, P. Focaccia, G.P. Gasparini, A. Luchetta, M. Marini, E. Paschini, F. Raicich, M. Ravaioli, A. Santojanni, M. Sprovieri, P.L. Traverso e G. Cavarretta

CNR – DTA, ISMAR, IAMC

JERICO

JERICO is an **Integrated Infrastructure Initiative** (**I3**), submitted in December 2009 in response to the call

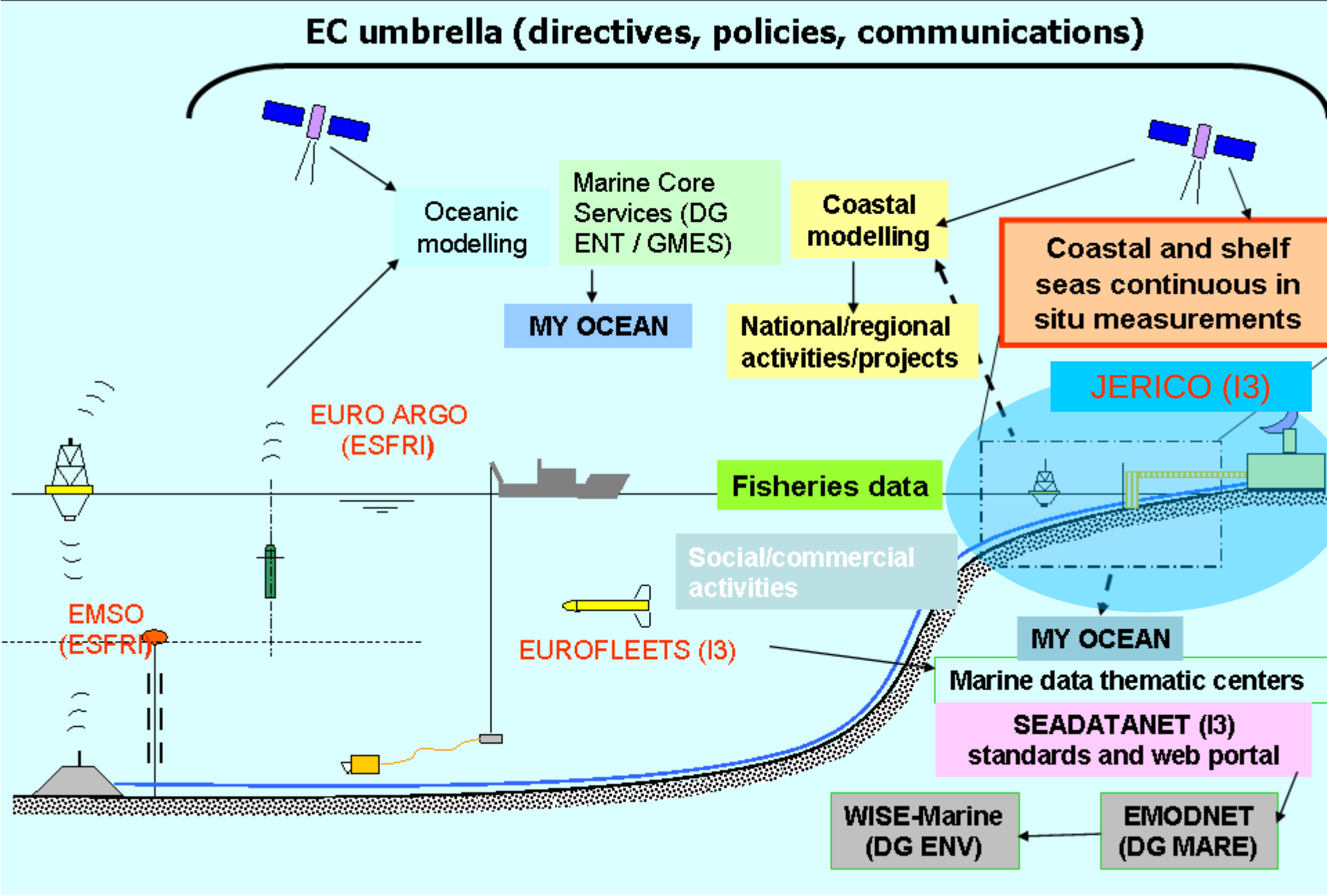
FP7 CAPACITIES – Reasearch Infrastructures - INFRA-2010-1.1.6:
Research Infrastructures for Coastal Research including for Integrated Coastal Zone Management and Planning.

- **Favourably evaluated with a score of 13.5/15 in March 2010**
- **Presently in the negotiation phase**
- **End of Negotiation: 30 July 2010**

JERICO

- *JERICO aims at integrating the **existing key research infrastructures** in Europe devoted to the **automated in situ coastal and shelf seas observation** of physical, geophysical, chemical and biological parameters.*
- *In complement to the EuroARGO coastal profiling floats, JERICO will contribute to the coastal segment of in situ continuous measurements within GMES*.*
- *JERICO infrastructure aims to contribute to the international and global effort on climate change research (GEOSS**), to provide coastal observations for operational oceanography, and also to perform effective environmental monitoring.*

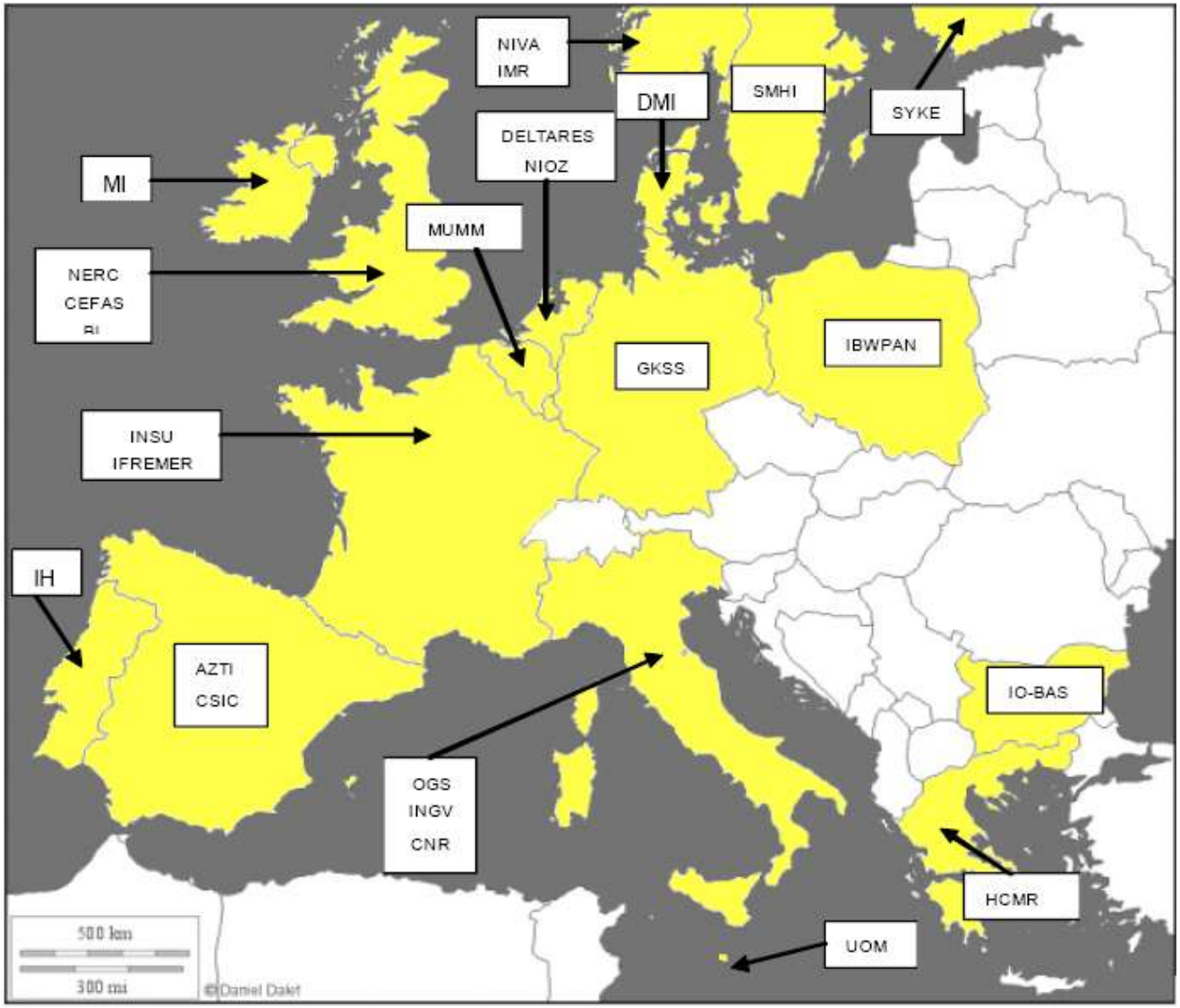
**GMES: Global Monitoring for Environment and Security*
***GEOSS: Global Earth Observation System of Systems*


EC umbrella (directives, policies, communications)
Oceanic modelling
Marine Core Services (DG ENT / GMES)
Coastal modelling
Coastal and shelf seas continuous in situ measurements
MY OCEAN
National/regional activities/projects
JERICO (I3)
EURO ARGO (ESFRI)
Fisheries data
Social/commercial activities
EMSO (ESFRI)
EUROFLEETS (I3)
MY OCEAN
Marine data thematic centers
SEADATANET (I3) standards and web portal
WISE-Marine (DG ENV)
EMODNET (DG MARE)

JERICO objectives

- To bring togheter the representative European coastal observatory operators in a **European Virtual Infrastructure.**
- Enhancing their coordination and promoting the cost-effective use of their facilities, including the access to external reasearch teams .
- Supporting **standardization** of operations and activities for the benefit of data quality and availability.
- Stimulating and designing the development of new automated systems for the operational monitoring of the marine environment.

JERICO partnership

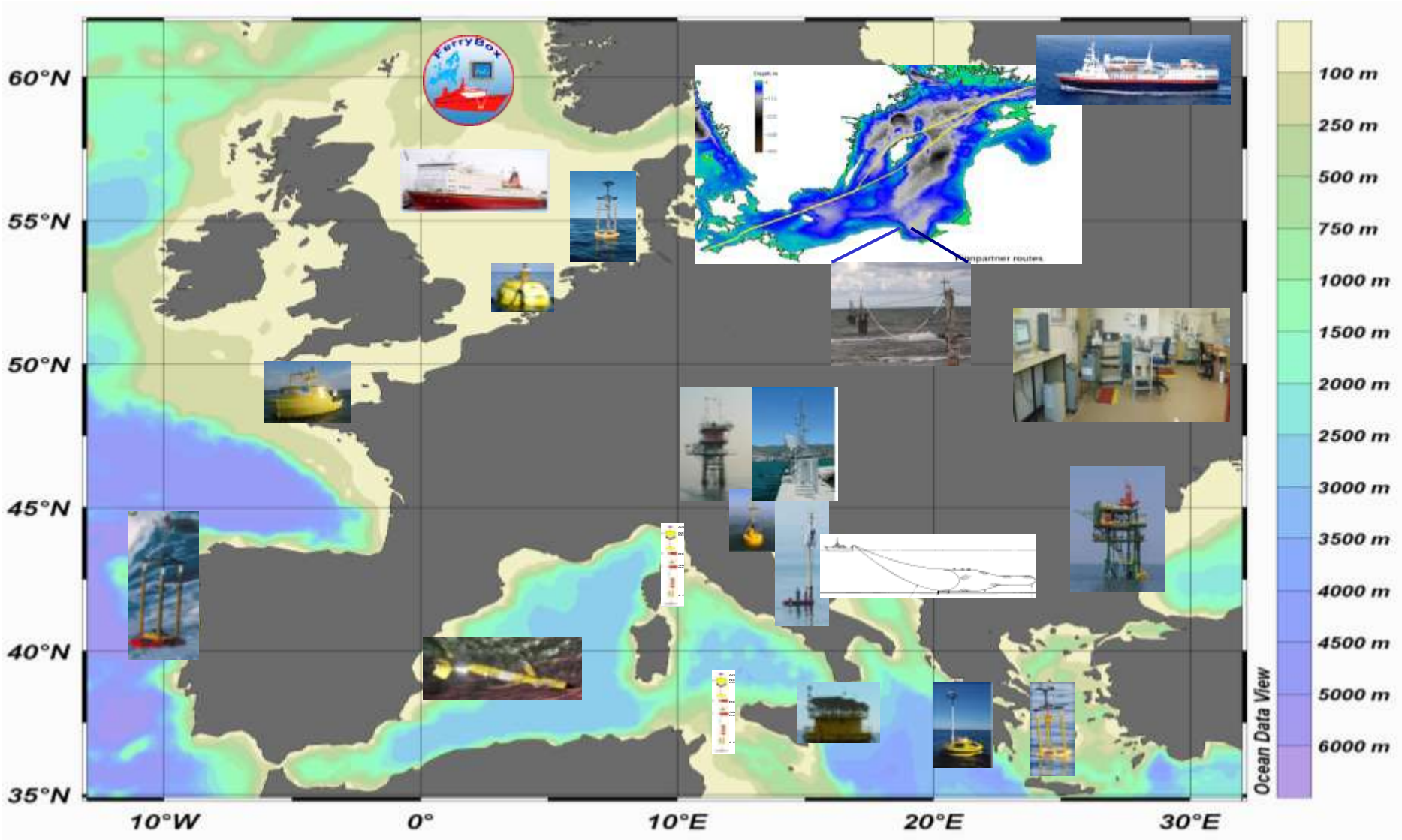


26 partners
17 countries

10 CORE partners (SC)

- CEFAS (UK)
- CNR (IT)
- CSIS (ES)
- GKSS (DE)
- HCMR (GR)
- IFREMER (FR)
- INSU/CNRS (FR)
- MI (IE)
- NIVA (NO)
- SYKE (FI)

JERICO network



JERICO structure

Networking activities (NA)

- Strategy, including definition and implementation aspects
- Standardization and harmonization
- Data management and distribution
- Public outreach

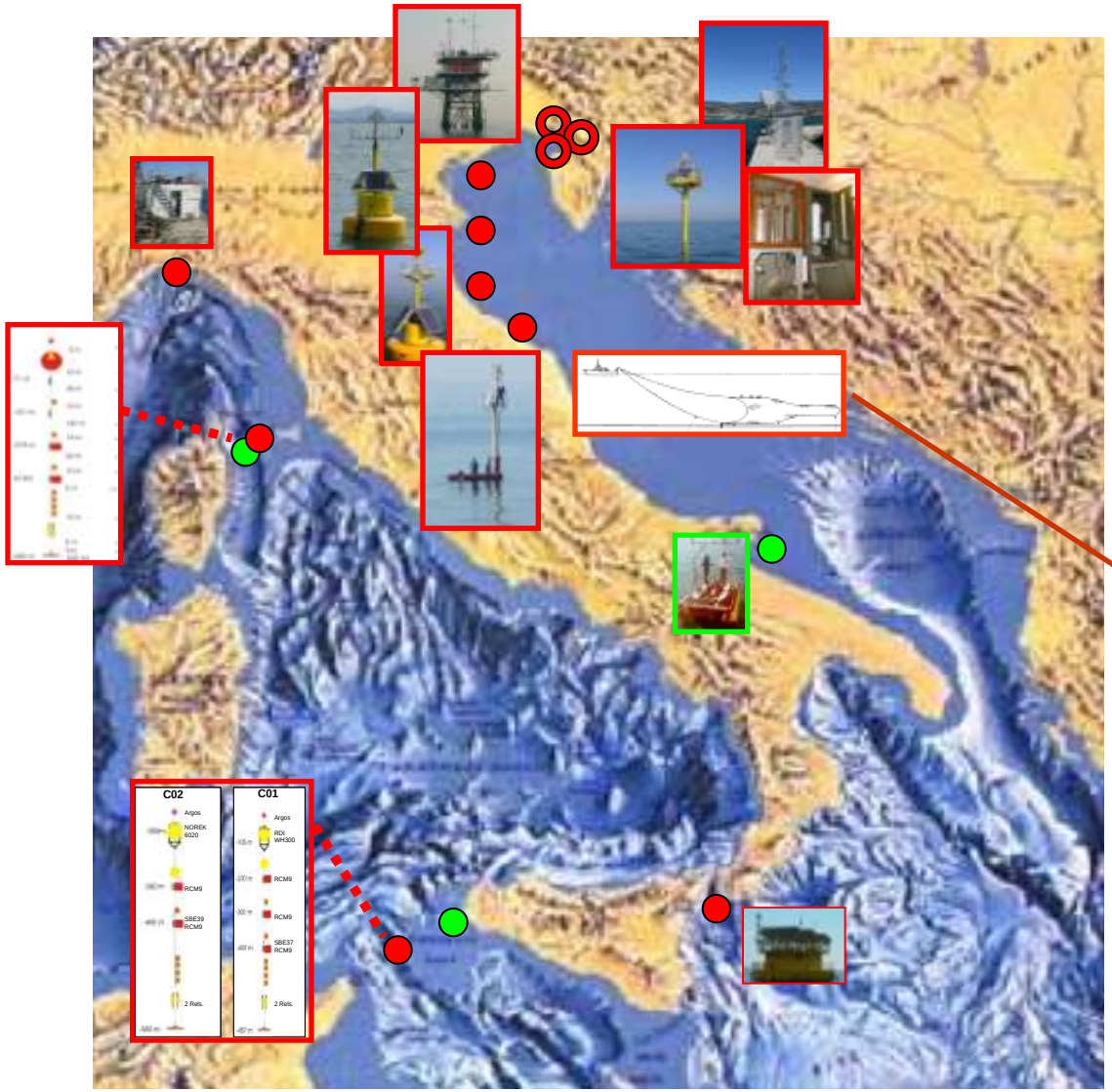
Transnational access and Service activities (TNA & SA)

- Scientific service and data access
- Transnational access to coastal observatories

Joint Research Activities (JRA)

- Methods to assess the impact of coastal observing systems on the estimates of dynamical processes in the coastal area
- Improving existing and emerging technologies

The contribution of CNR to JERICO



The CNR infrastructure

Existing installations:
- buoys
- pylons
- platforms
- moorings
- shore stations

FOS
Fishery Observing System

Planned sites

Calibration & testing facilities (chemical sensors)

The CNR activities in JERICO

NA

CNR will contribute to define the common procedures for standardization and harmonization within JERICO, by sharing its experience in managing a variety of fixed platforms along the Italian coast working in presence of different environmental conditions.

- Definition of shared solutions for solving common managing problems: choice of sensors, infrastructure maintenance, energy supply, data telemetry (best practice);
- harmonization of calibration practices for physical and chemical sensors, sharing the calibration facilities and inter-calibration exercise (lab quality);
- definition of a common approach for sensors' bio fouling prevention (data quality).

The CNR activities in JERICO

TNA & **SA**

CNR will coordinate the transnational access to coastal observatories and related activities:

- preparation of 2 international calls and coordination of the evaluation procedures;
- information (web page) and reporting activity.

The CNR infrastructure will be accessible during JERICO for external users by offering data and service (SA) and “access in person” (TNA) to some of its installations, including laboratories for calibrating and testing chemical sensors.

JRA

CNR will contribute to specify, scope out and test next-generation sensors that could be deployed on fishing vessels to gather nutrient, pH and other necessary data for coastal operational oceanography.

JERICO budget

Richiesti 9M€, approvati per la negoziazione 6.5M€

Budget CNR in negoziazione 440k€

Il budget è scarso e prevalentemente dedicato alla messa a sistema della rete di osservatori costieri e di piattaforma del CNR in JERICO (unico ritorno diretto sull'infrastruttura è in SA & TNA).

Sono necessarie risorse aggiuntive per garantire la funzionalità della rete CNR nell'immediato ed il suo adeguamento agli standard che saranno indicati da JERICO.

La partecipazione della rete CNR al network europeo JERICO apre la strada ad opportunità di finanziamento future.

JERICO

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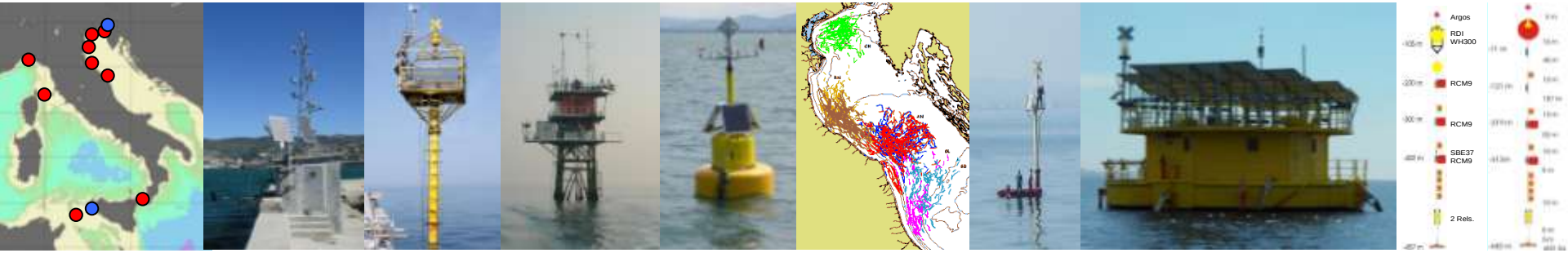

"An observation not made today is lost forever.

We cannot go back to recover observations."

Prof. Harry Bryden
(IAPSO/Prince Albert I Medal lecture
Montreal, July 2009)