

Ritmare

The Italian Ritmare Ocean Observing System

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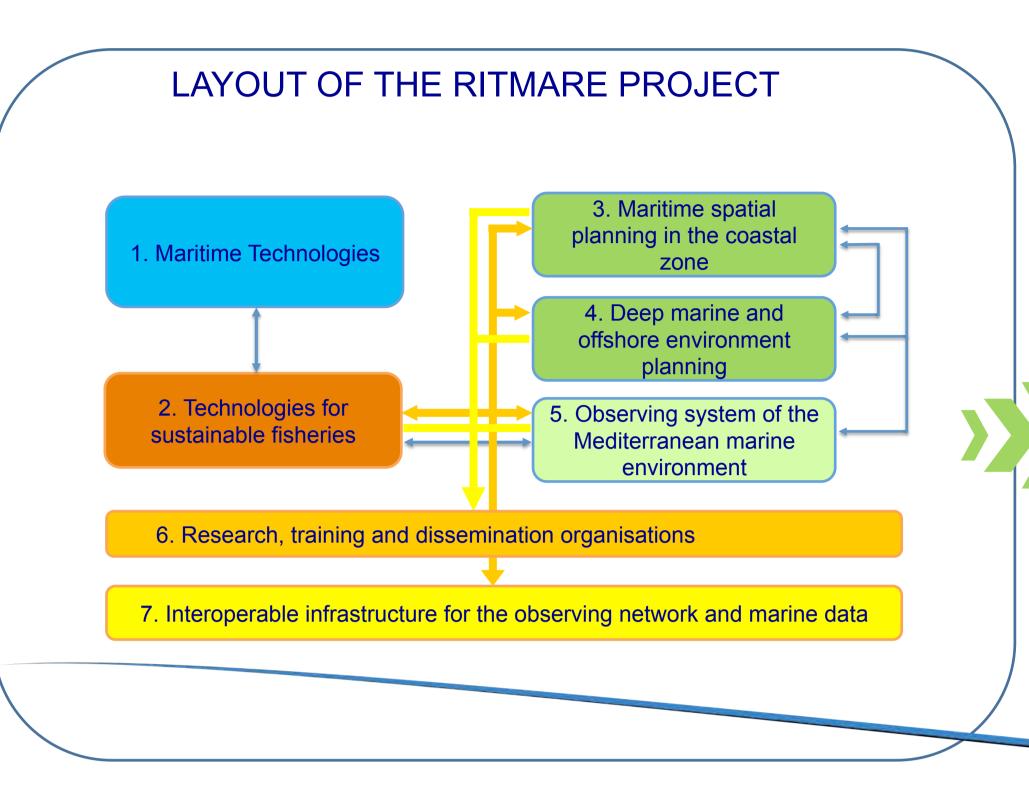
°CNR – ISSIA Istituto di Studi sui Sistemi Intelligenti per l'Automazione

SENEA - Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

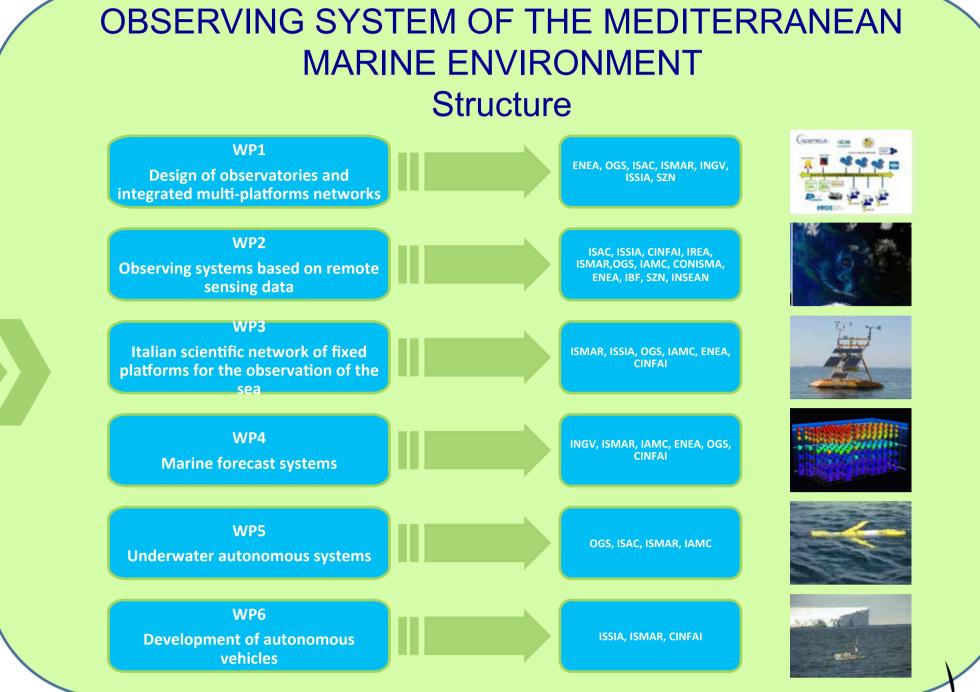
#CNR – ISMAR Istituto di Scienze Marine

@CNR – ISAC Istituto di Scienze dell'Atmosfera e del Clima

+INGV – Istituto Nazionale di Geofisica e Vulcanologia







of these systems

Accreditation of the Italian Observing system in Italy and Europe

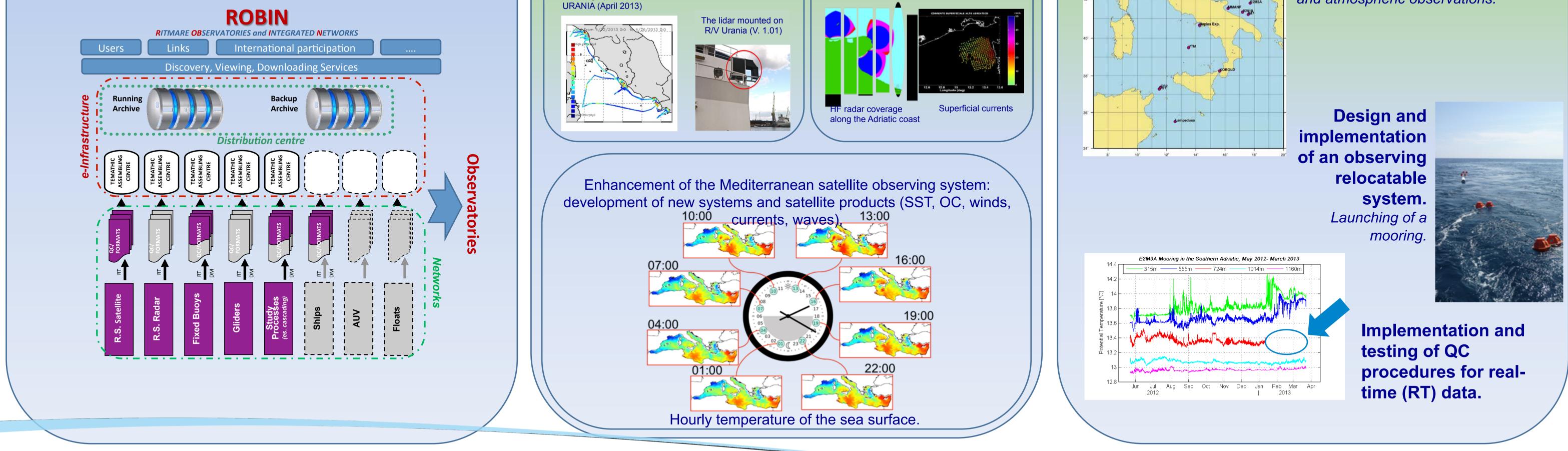
> Targeted development and integration

- \succ Requirements definition, methodologies and technologies that ensure the quality of data and their interoperability
- > Development of a new Italian technology



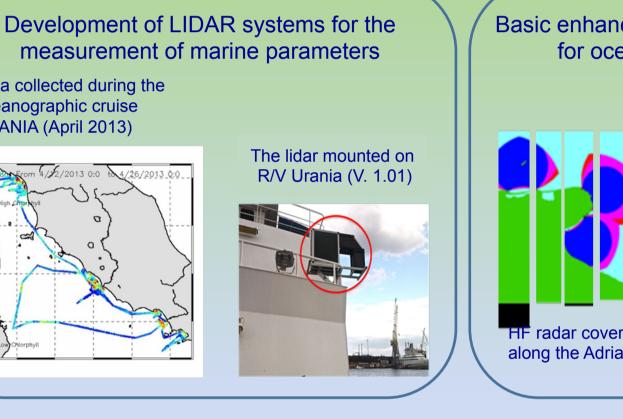
WP1: MARINE OBSERVATORIES

Prototype of multi-platforms observatories and data/information on the 'essential ocean variables'

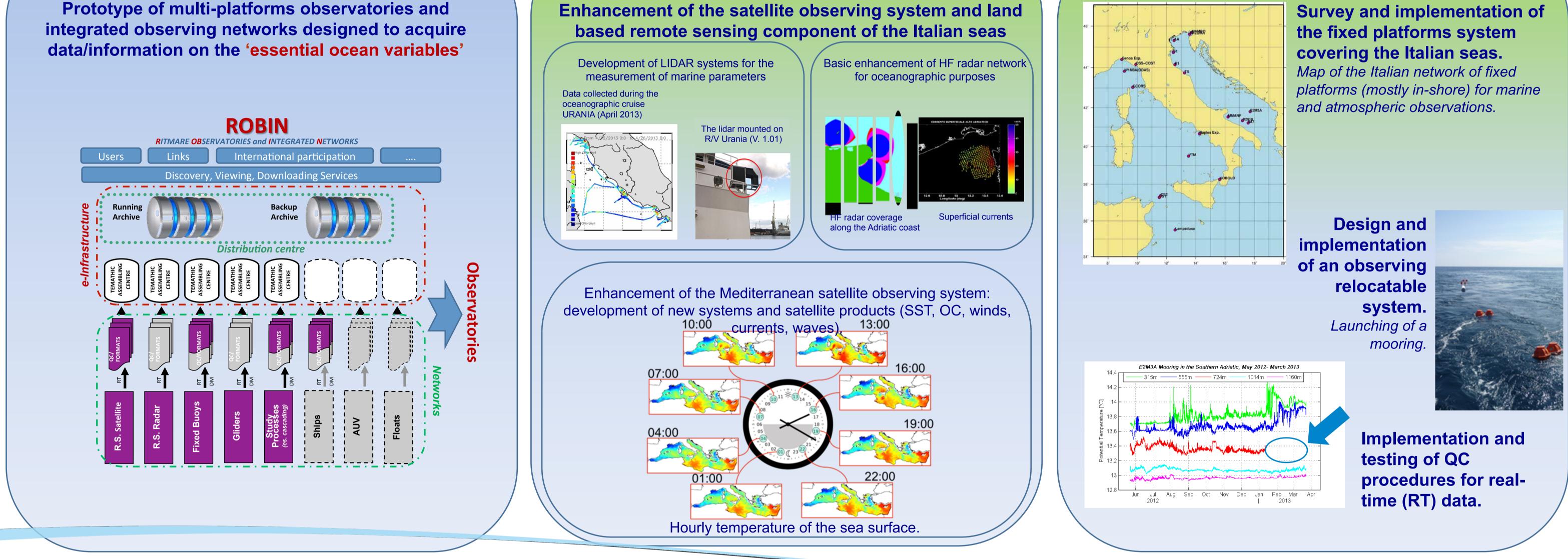


WP2: REMOTE SENSING

Enhancement of the satellite observing system and land based remote sensing component of the Italian seas



WP3: FIXED PLATFORMS NETWORK

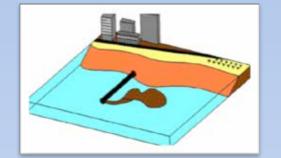


WP4: MARINE FORECAST SYSTEMS

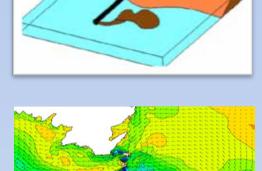
Improvement of numerical prediction models for the Italian seas.



Sediment dispersion and plumes dynamics in coastal areas and ports



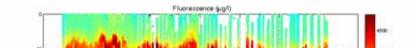
• Operational forecast at Bocche di Bonifacio



WP5: UNDERWATER AUTONOMOUS SYSTEMS

Implementation of an integrated national fleet of gliders







WP6: DEVELOPMENT OF AUTONOMOUS VEICHLES

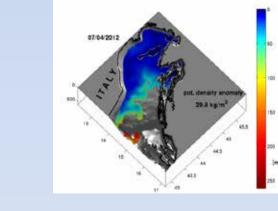
Design and development of key technologies for a new generation of small dimension Unmanned Marine Vehicles

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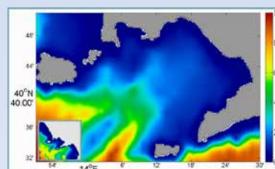


low

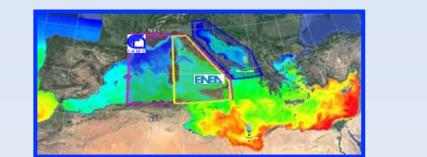
• Operational model in the Adriatic Sea for both physical and biogeochemical processes

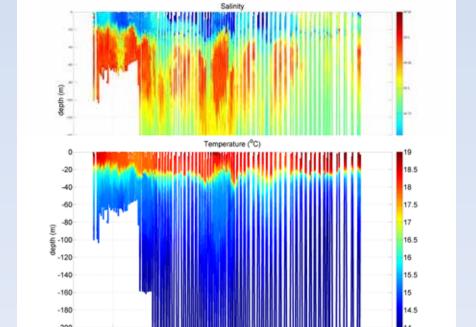


 High resolution simulation of the Naples Gulf dynamics



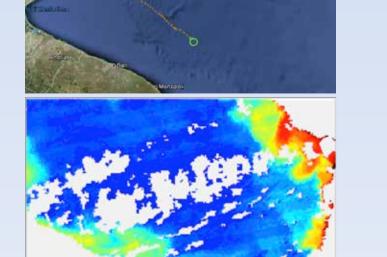
Predictive models for the Adriatic, the Tyrrhenian and the Mediterranean Seas.





May 2013 South Adriatic mission, data acquired during 15 - 22 May 2013 by a OGS Seaglider



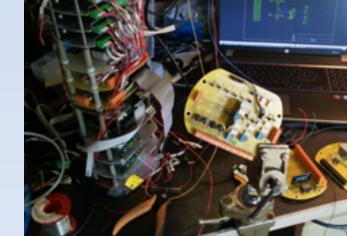


Glider track during the 8day mission and MODIS chlorophyll concentration of the sampled area captured during the mission

INGV

'Charlie' USV during the coastal monitoring at Cornati Islands, Croatia





Control platform HW PC104

Portable CHIRP

ISAC

Consiglio Nazionale delle Ricerche





ALANIS dual boat (manned/unmanned)