

SHAREMED First Capitalisation Workshop

Designing the future system of observing systems to assess and address threats to the Mediterranean marine ecosystem - State-of-the-art, needs and future direction



João Vitorino Instituto Hidrográfico - Portugal JERICO-RI Webinar: 14-15th December, 2020

Joint European Research Infrastructure for Coastal Observation

- **Coordinator: IFREMER**
- Concept Development: JERICO-S3
- Design Study: JERICO-DS
- Design duration: 2020-2024
- Funding authority: H2020-INFRAIA



France: IFREMER, CNRS, ACRI-ST, IEEE Estonia: TALTECH Finland: SYKE, FMI Greece: HCMR Ireland: MI Spain: SOCIB, AZTI, PdE, PLOCAN, UPC Belgium: RBINS, VLIZ Croatia: IRB Italy: CNR, OGS, ETT Germany: HZG, AWI, IOW Netherlands: DELTARES, RWS, MARIS Norway: IMR, NIVA, NORCE, COVARTEC Portugal: IH Sweden: SMHI UK: CEFAS, BLIT Europe: EUROGOOS



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A broad range of Space/Time scales covered



Scientific & Technological Gaps/Needs and JERICO-RI answer

SCIENCE:

- Impacts of physical events on marine life
- Unveil the multiscale complexity of coastal ocean process
- Characterize long-term variability and climate change impacts

JERICO JERICO Users Aggregation Observatories and data trans e-Infrastructure Metadata Records Observatory Labelled / Sensor description) Discove Metadata 1))) EuroGOO? local receivin stations JERICO Data collectors **Real Time Users** (Mercator, ...) Transmissio Data Acces Per platform (Delayed Mode EuroBIS « Manual » Types Transmission (Files) EMODnet Operational and **Online Services** Data Repository and Processing (VRF)

TECHNOLOGY:

- Integration of biogeochemistry observations
- Maintain the observational 'presence'
- Assure a capacity for long term observation

Development of a Coastal Interoperable Instrument Module based on the EMSO EGIM concept & Test for integrated

observation of plankton dynamics (JERICO-S3)

Development/Testing of Low Cost Passive Contaminant Samplers (JERICO-NEXT)

A strategy based on

INTEROPERABILITY from sensor to data dissemination

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Lessons Learn Prestige Oil Spill Crisis



Articulation/Harmonization between partners in regional domain

- Articulation with the numerical modelling & remote sensing communities
- **Articulation between different observing systems & partners**
- Potential role of Citizen Science contributions

45

atitude 43



Tracks of surface floats



Assimilation Model - 50m depth SHAREMED First Capitalisation Workshop 14-15th December 2020

19 November 2002



E-SurfMar, NEAMTWS, Global HF-radar network, IHO, IMO, EMODNET

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