

Title : JERICO-RI, the Joint European Research Infrastructure for Coastal Observatories

Submission theme : 1- In-situ and remote sensing observations: towards a European Ocean Observing System (EOOS) in the framework of the UN Ocean Decade:

Authors:

(JS3 and JDS WP leaders + coordination)

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JERICO-RI, is an integrated pan-European multidisciplinary and multiplatform Research infrastructure (RI) dedicated to a holistic appraisal of coastal marine system changes. JERICO-RI establishes the framework upon which coastal marine systems are observed, analysed, understood and forecasted. JERICO-RI enables open-access to state-of-the-art and innovative facilities, resources, FAIR data and fit-for-purpose services, fostering international science collaboration. This Research Infrastructure is designing the future of coastal observation in terms of harmonization, advanced innovative functionalities, cost efficiency and reliability and governance.

During the past 10 years JERICO-RI relied on JERICO-FP7 then JERICO-NEXT EU funded projects that established the scientific and the technical basement of JERICO-RI.

In the 4 coming years, through the EU projects JERICO-S3 and JERICO-DS as well as through the application for the ESFRI roadmap 2021, efforts are meant to strengthen the position of the infrastructure as the coastal component of the future European Ocean Observing System (EOOS). The European coastal observing infrastructure JERICO-RI has gathered and organized key communities (39 EU institutions and 19 EU countries) embracing new technologies and providing a future strategy, with recommendations on the way forward and on governance.

Since the previous EuroGOOS conference the design of the RI significantly progressed. The scientific strategy has been better defined and a regional structure is being tested. On the technology side, efforts are driven to prototype a sensor package for the observation of the phytoplankton as a starting case, and an embryonic eJERICO. The scope of this paper is to present some of these key elements of our coastal design and the associated science strategy to build the infrastructure on the long term.

JERICO-RI is the European coastal observing research infrastructure established and structured through JERICO-FP7 and JERICO-NEXT, JERICO-S3 and JERICO-DS projects.

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JERICO-NEXT is a European Horizon-2020 project under Grant Agreement No. 654410.

JERICO-S3 is a European Horizon-2020 project under Grant Agreement No. 871153.

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