

Title: JERICO-S3 integrated innovative technologies for coastal monitoring

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JERICO-RI, the Joint European Research Infrastructure for Coastal Observatories is an integrated pan-European multidisciplinary/multiplatform research infrastructure dedicated to a holistic appraisal of the coastal marine system environment . It is the coastal component of the future European Ocean Observing System. This Research Infrastructure is designing the future of coastal observation technology for harmonization, advanced functionalities, cost efficiency and reliability. The technological developments of the JERICO-S3 EU project are meant to strengthen and expand the infrastructure of the European network of coastal observatories. This objective will be achieved by expanding the current network with new observing systems and platforms equipped with new technologies for interoperability, innovative sensor packages for multidisciplinary ecosystem monitoring, coupling physics, chemistry and biology (e.g. phyto and zooplanktons). The planned technological developments consist in adapting interoperability standards, inter alia from the NeXOS and EMSODev projects, developing on-board and on-server smart solutions for guiding real time interactive sampling, integrating technologies into dedicated sensor packages, further developing a capacity for high-frequency measurement of low trophic-level biological diversity and contaminants; hence filling critical gaps in the observation of the coastal ocean. An e-infrastructure is being developed and proof tested to integrate digital components (tools) and documentation, from observation data and data products, to methods/best practices and coastal observation services.

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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