

COPERNICUS MARINE 8th GENERAL **ASSEMBLY**

CONNECT Local coastal monitoring service for Portugal



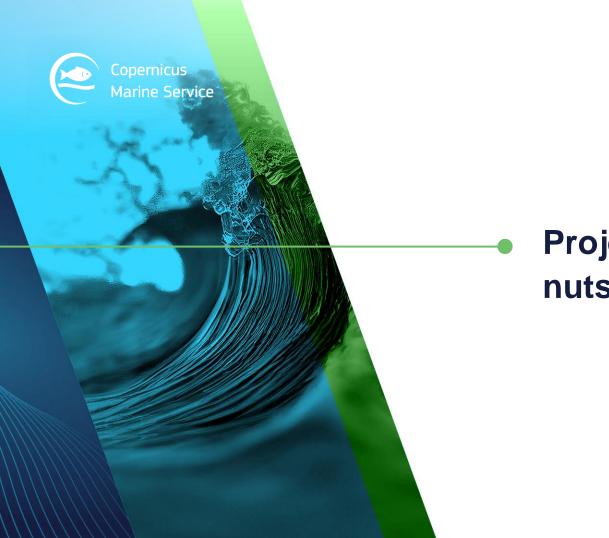












Project in a nutshell



FORECASTS



IN-SITU
OBSERVATIONS



SATELLITE



CONNECT delivers a local, high-resolution, coastal monitoring service that seamlessly integrates model-based forecasts and observations to provide blue (physical) and green (biogeochemical) data on Portuguese estuaries to CMEMS

Use Cases





Anticipate inundation events (Floods Directive)









Partners



Model forecasts, coordinates the UBEST coastal observatory and the WIFF and OPENCoastS forecast services



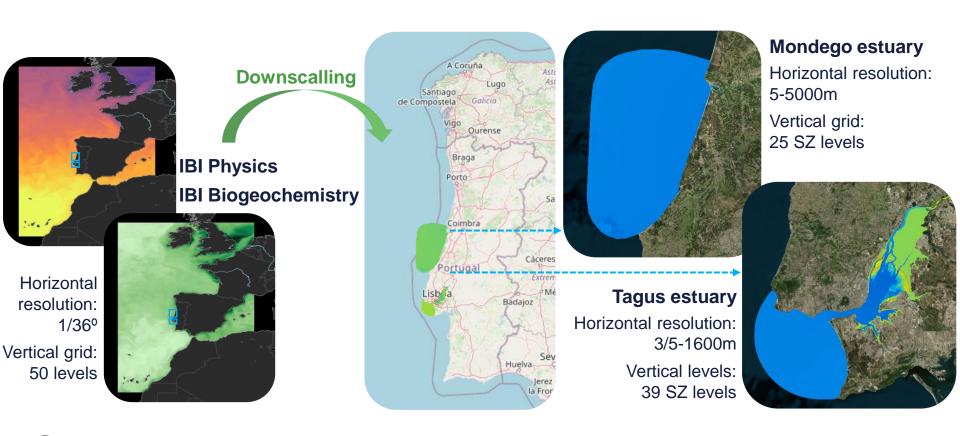


Near real time *in-situ* **observations**, coordinates the CoastNet Research Infrastructure





Copernicus Marine Products and Coastal model







Seamless coastal service

EXTENDED DEADLINE

CONNECT coastal service



High-resolution
operational modelling
of estuarine - coastal
circulation and water
quality, forced by
CMEMS regional models



Near-real time *in-situ* data acquisition and Earth-observation data



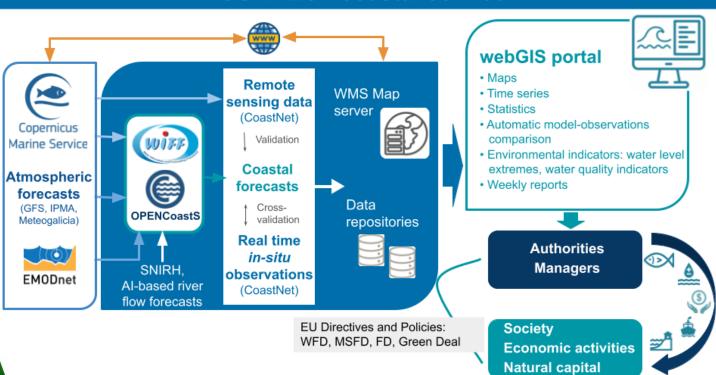
WebGIS portal to access physical and biogeochemical 2-day forecasts and observations



Seamless integration with CMEMS

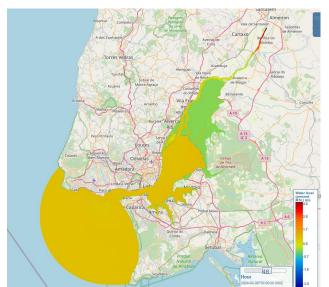


CONNECT coastal service



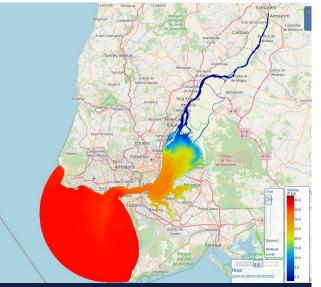


Inundation: 2D barotropic model, waves-currents interaction



Water levels, Velocity, Waves (Significant wave height, Mean period, Direction)

Water quality: 3D baroclinic model, In-situ observation network coupled circulation-biogeochemistry



Water levels, Velocity, Salinity, Temperature, Ammonium, Nitrate, Phosphate, Silicate, Dissolved oxygen, Chlorophyll-a



Salinity, Temperature, pH, Dissolved oxygen, Chlorophyll-a, Turbidity





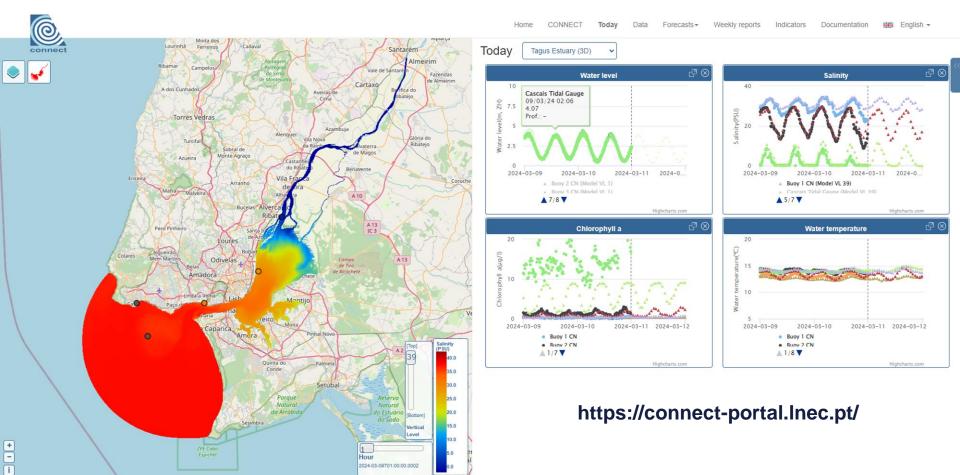
 Address user's requirements and feedback on the coastal service

Dedicated actions with users











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Acknowledgements



Copernicus Marine Service User Engagement Programme 2022-2028



More info here: connect.lnec.pt

Thank you for your attention! mfrodrigues@Inec.pt

