



IMMERSE



HORIZON 2020

IMMERSE

(Grant Agreement 821926)

Improving Models for Marine EnviRonment SErvices

Deliverable D1.1

Public website

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 821926.



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Our project aims to prepare **numerical ocean models** for the next generation [Copernicus Marine Environment Monitoring Service \(CMEMS\)](#).

In response to the future priorities for CMEMS, IMMERSE will develop new capabilities to:

- enable the production of ocean forecasts and analyses that exploit upcoming **high resolution satellite datasets**;
- deliver ocean analyses and forecasts with the **higher spatial resolution** and additional **process complexity** demanded by users;
- exploit the opportunities of new **high performance computing (HPC) technology**;
- allow **easy interfacing of CMEMS products** with detailed local coastal models.

These developments will be delivered in the [NEMO ocean model](#), an established, world-class ocean modelling system that already forms the basis of the majority of CMEMS analysis and forecast products.



Methodology

IMMERSE project integrates activities ranging from [NEMO](#) ocean model core development to demonstration for [Copernicus Marine Services](#) downstream users.



Next generation numerical kernel for NEMO



Preparing CMEMS to future HPC infrastructures



Modelling key processes at kilometric scales



Integrating model-based products and observations



Demonstrating impact on CMEMS systems



Assessing impact on downstream systems

Partners

The IMMERSE consortium combines expertise in ocean modelling, applied mathematics, high performance computing, software engineering, and in-depth knowledge of the CMEMS systems and downstream CMEMS systems.



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Recent Posts

Feb 10, 2019

IMMERSE Kick-Off meeting on Jan 24-25, 2019


IMMERSE project was officially launched on 24 and 25 January 2019 in Grenoble during the kick-off meeting with fourteen project partners. This kick-off meeting was an opportunity for the consortium to discuss the project methodology, the different activities to be implemented and the upcoming deadlines.



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