

Powering the European Marine Data Ecosystem

For a digital and green future

EMODnet OPEN CONFERENCE 2023



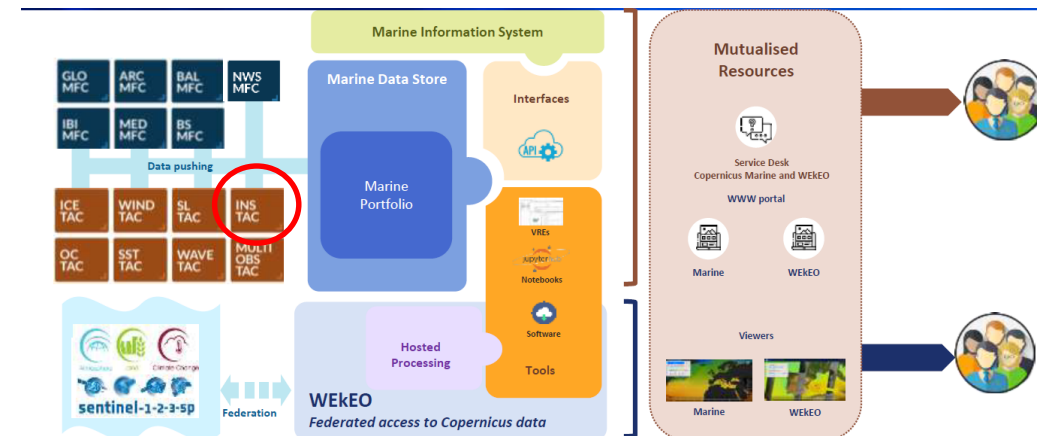
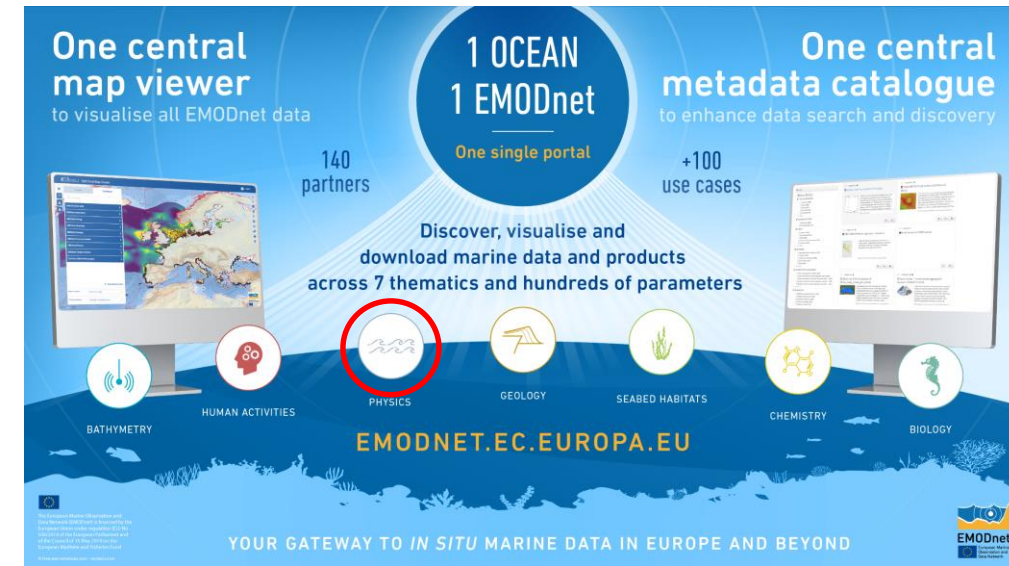
EMODnet and
Copernicus Marine
Service: joint Marine In
Situ Coordination Group
for operational
oceanographic data

Antonio Novellino, ETT, Italy

MIC – Marine In situ Collaboration and Coordination

Landscape for the European operational data exchange

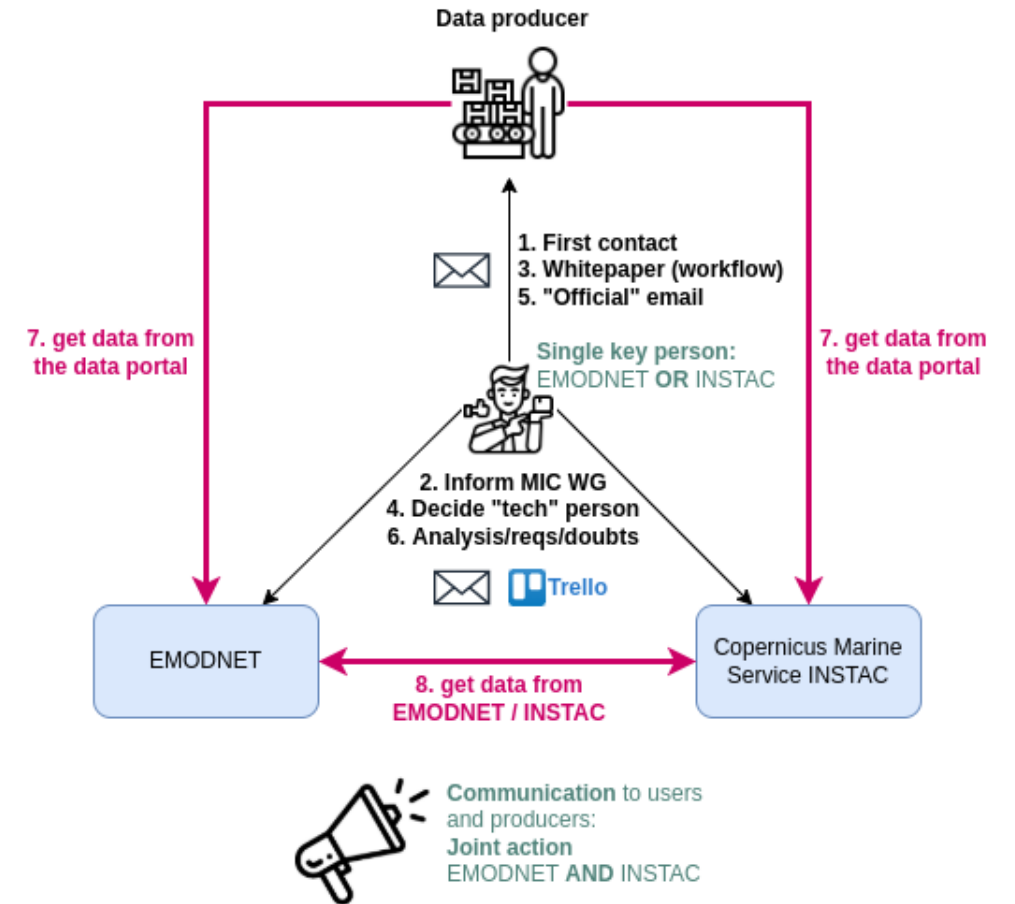
- Complex and complementary framework
- Many stakeholders and many applications
- “Collect once and use many times”
- Operational ocean observing for:
 - understanding oceans (food, transport, energy, search and rescue...)
 - ocean hazards early warning
 - validation and calibration of satellite data
 - weather forecasting
 - understanding climate change
 - providing Essential Ocean Variables
 - implementing Ocean Monitoring and Forecast system
- Synergies for Operational data exchange on
 - Temperature, Salinity, Ocean State, Sea Level, Ocean Optical properties, Currents, Sea Ice, River Data, Ocean Sound
- MIC: co-Chaired by EMODnet Physics and INSTAC, with membership also from EMODnet Chemistry and Data Ingestion



MIC – Marine In situ Collaboration and Coordination

Goals

- Operate a common ingestion procedure for the operational oceanographic data and serve both EMODnet and Copernicus Marine
- Implement and promote standards and best practices
 - FAIR and open data
 - metadata and data formats and conventions
 - Data quality check and flag
 - Machine-to-machine
 - training and support
- Bring together experts from Copernicus Marine Service INS TAC, EMODnet Physics, EMODnet Chemistry, EuroGOOS, SeaDataNet, OceanOPS
- Official working group since 2022



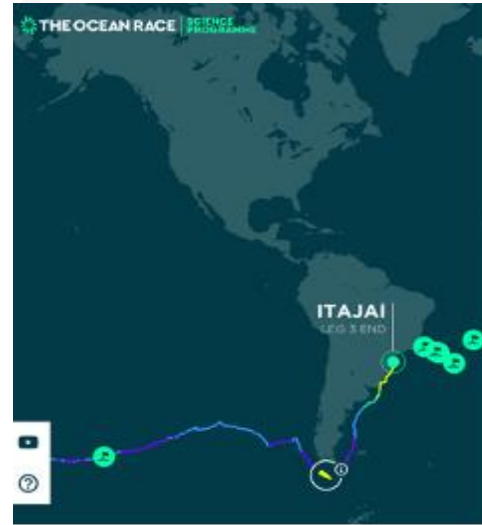
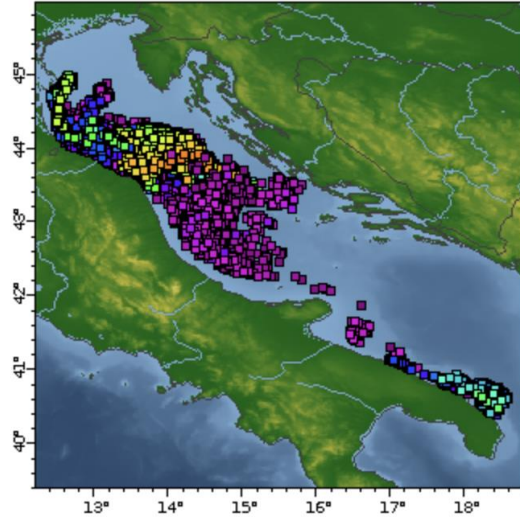
MIC – Marine In situ Collaboration and Coordination

Success stories

Fishing Vessels Ocean Observing System (AdriFOOS)

Sailing Opportunity Ship (The Ocean Race)

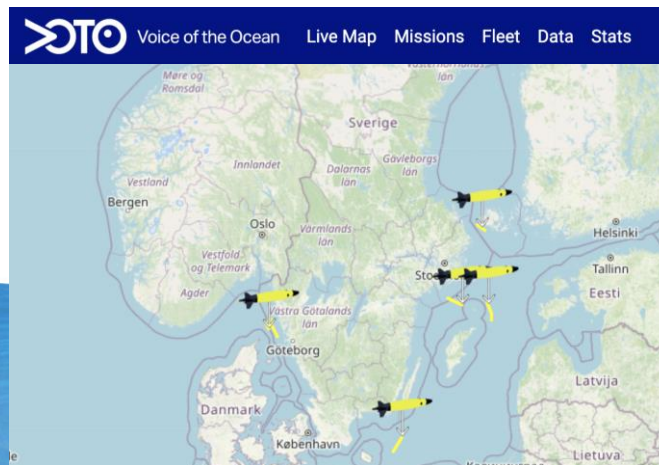
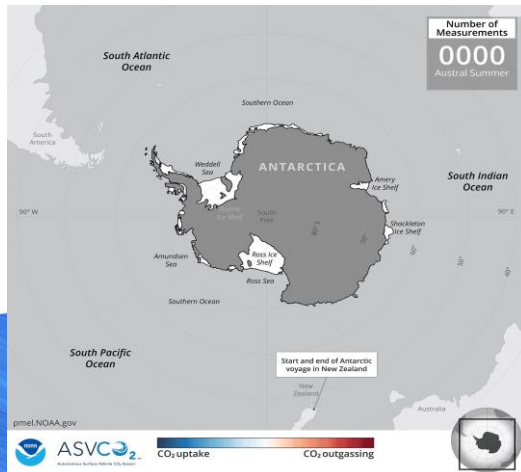
Tsunami Alert Device - JRC



Sailing Drones/Unmanned Vehicles

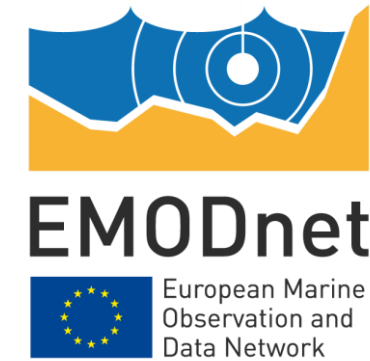
Gliders

Professional Divers (T-MEDnet)



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the latest news



The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) 2021/1139 of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund and its predecessor, Regulation (EU) No. 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.