

SESSION #3 - POST 2024 PERSPECTIVES

Conclusion & perspectives

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COPERNICUS MARINE / 8th GENERAL ASSEMBLY



Copernicus Marine 2021 - 2028

An ambition plan aligned with the EU Green Deal and Digital Strategies

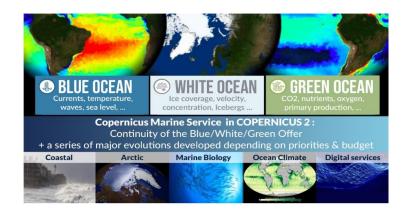
Remain a marine reference worldwide. User uptake

Staged implementation driven by user&policy needs and science&technology advances

- **Continuity of service** with incremental evolution
- Embrace the **new capabilities of digital services.** Synergy with **Digital Twin Ocean**
- Prepare the implementation of the next generation of ocean and sea ice monitoring and forecasting systems and new services for Coastal (with Member States) and Biology.

International cooperation & impact (UN Decade)





2021-2024 Achievements / Summary

- User Uptake: > 70,000 subscribers, Web: 1 million visitors
- Reinforced governance: Marine User Forum
- Operational and continuous improvements
- A fully overhauled Marine Data Store links with the DTO
- Ocean Monitoring Indicators and Ocean State Reports
- Start coastal extension of the service
- Development of Coastal and Arctic Thematic Hubs
- National Collaboration Programme
- User & Policy needs User Feedbacks
- Future evolutions: R&D roadmap, service evolution R&D calls, Horizon Europe projects, Copernicus SRIA.















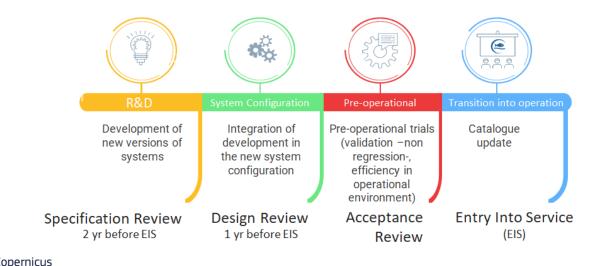


Operational Service and Continuous Improvements

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Copernicus Marine **production centres (TACs, MFCs):** operational service and many improvements of observation and model products. 5 releases of portfolio.

Research-to-operation process: system and product evolutions managed with a series of formal reviews



1arine Service





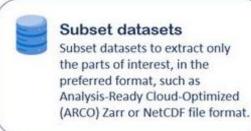
The new Marine Toolbox

The Marine Data Store and Toolbox has been operational since early March 2024. A scalable cloud infrastructure to guarantee seamless retrieval of large datasets, high-performance data latency, full metadata access, and efficient post-processing features, providing a significant leap forward in data access capabilities.



Metadata information

List and retrieve metadata information on all variables, datasets, products, and their associated documentation.



Advanced filters

Apply simple or advanced filters to get multiple files at once, in original formats like NetCDF/GeoTIFF, via direct Marine Data Store connections.



No quotas Enjoy no quotas, neither on volume size nor bandwidth.







Myocean viewers







Access full catalogue

277k users x 4.5 vs 2022





- Build on 2021-2024 achievements to continue evolving Copernicus Marine product and service offer in response to user and policy needs.
- Working with and for Member States: Marine User Forum. Strengthen our National Collaboration Programme.
- Strengthen cooperation with other services and EMODnet.
- Synergies with the **EU Digital Twin Ocean**.
- **Prepare the uptake of future Sentinel** Expansion missions.
- Prepare post 2028 service evolution (Horizon Europe, Mission Ocean).





Post 2024 plans (2/2)

- Continuous evolutions of observation and modelling products. Integration of new satellite missions (e.g. SWOT) and in-situ observations, improvement of processing techniques, models, coupling and data assimilation, increasing use of AI.
- Progressively implement an ensemble forecasting service line.
- Evolution of the Marine Data Store. Synergies with the EU DTO development. Develop the use of EU DTO platform (EDITO) by production centers.
- Consolidation of observation Impact assessment.
- Continue implementing a coastal extension of the service with member states. National Collaboration programme. R&D through the FOCCUS Horizon Europe project.
- New biology products depending on progress of NECCTON Horizon Europe project.



Copernicus Marine and the UN Decade of Ocean Science

Aligning efforts towards the ocean we want – Contribution to the UN Decade 2030 vision International collaboration and impact

A clean ocean

where sources of pollution are identified and

reduced or removed.

A predicted ocean

to changing ocean conditions

A healthy and resilient ocean

where marine ecosystems are understood.

protected, restored and managed

A safe ocean

ocean-related hazards.

An inspiring and engaging ocean where society understands and values the

ocean in relation to human wellbeing and sustainable development.

where society understands and can respond where life and livelihoods are protected from

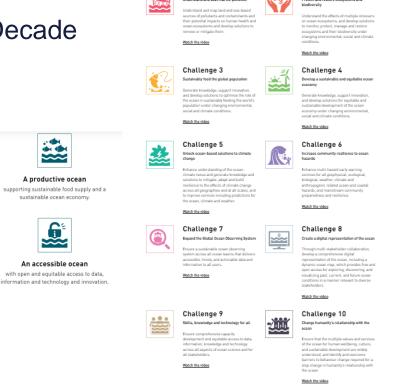
Contribution to most of the outcomes and challenges of the UN Decade

Contribution to many of its programmes and projects

Direct links with the OceanPrediction DCC

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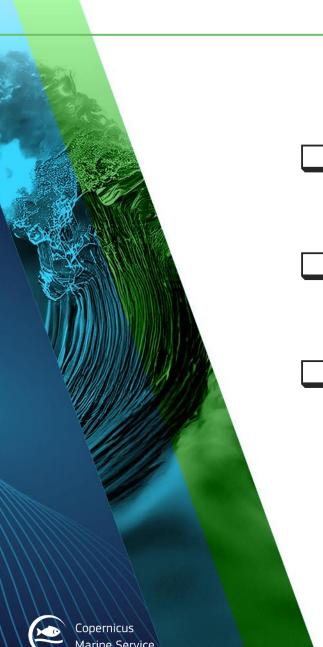
Challenge 1

Understand and beat marine pollutio

Challenge 2

Protect and restore ecosystems and





Conclusion / post 2024 plans

Build on our past achievements to continue evolving Copernicus Marine product and service offer

Maintain a world leading and state-of-the art marine service responsive to user and policy needs

Prepare post 2028 activities and new challenges for a safe, protected and sustainable Ocean



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Final words / closing









HANK

YOU