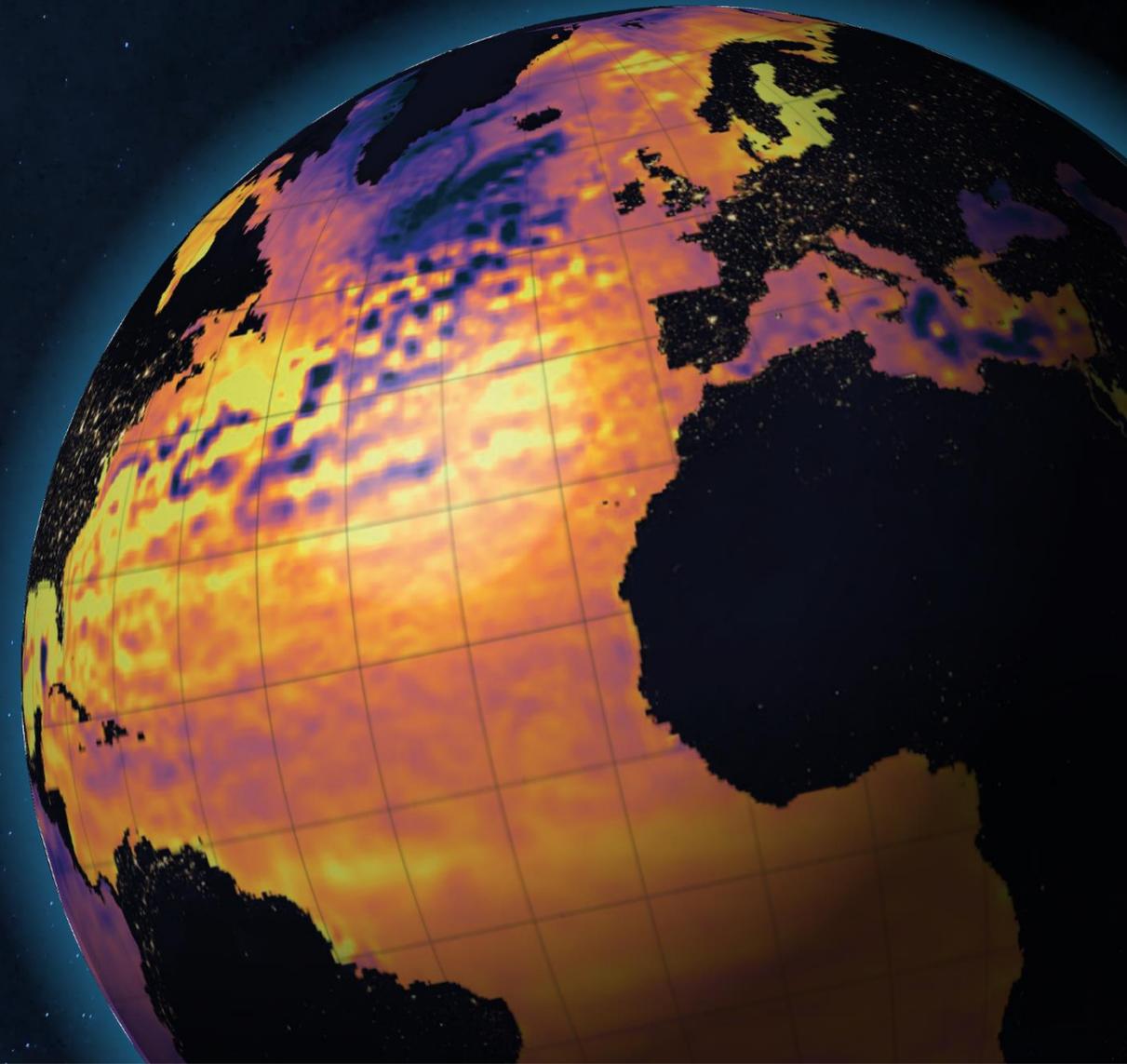




Copernicus Marine Service: Towards User-Driven Products and Services and Co-Designed Solutions

Valentina GIUNTA

Mercator Ocean International



Overview

- 1. Introduction to Copernicus Marine Service**
- 2. User Feedback Process**
- 3. Translating User Needs into New Products and Services**
 - I. Resolution
 - II. Coastal Products and Services
 - III. Data Quality and Documentation
 - IV. Services and Capacity Development Strategy
- 4. Conclusions**

INTRODUCTION

Copernicus Marine Service in a NUTSHELL

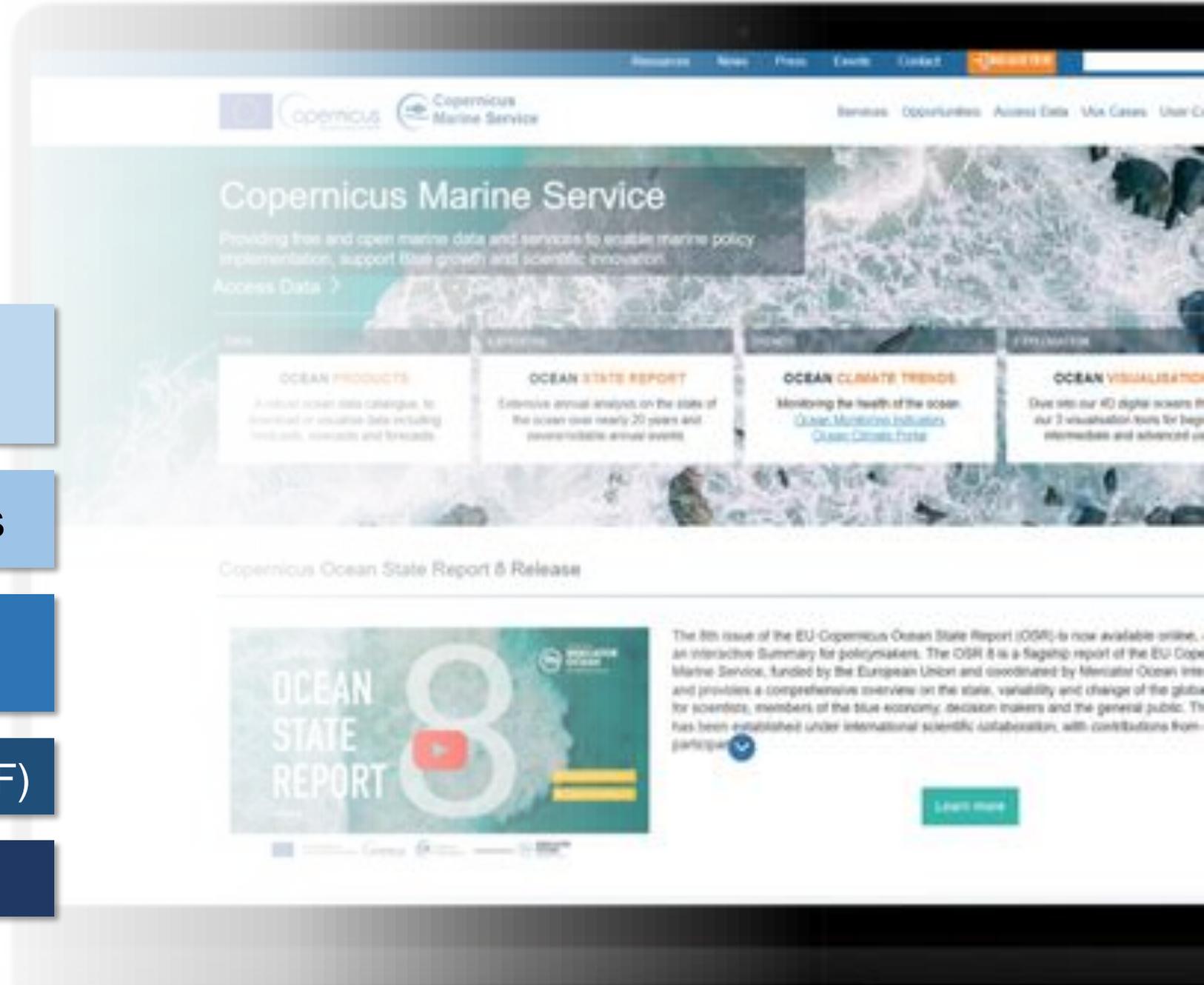
Catalogue online
marine.copernicus.eu

Open and Free Access

284 Products
(scientifically validated)

Common format (NetCDF)

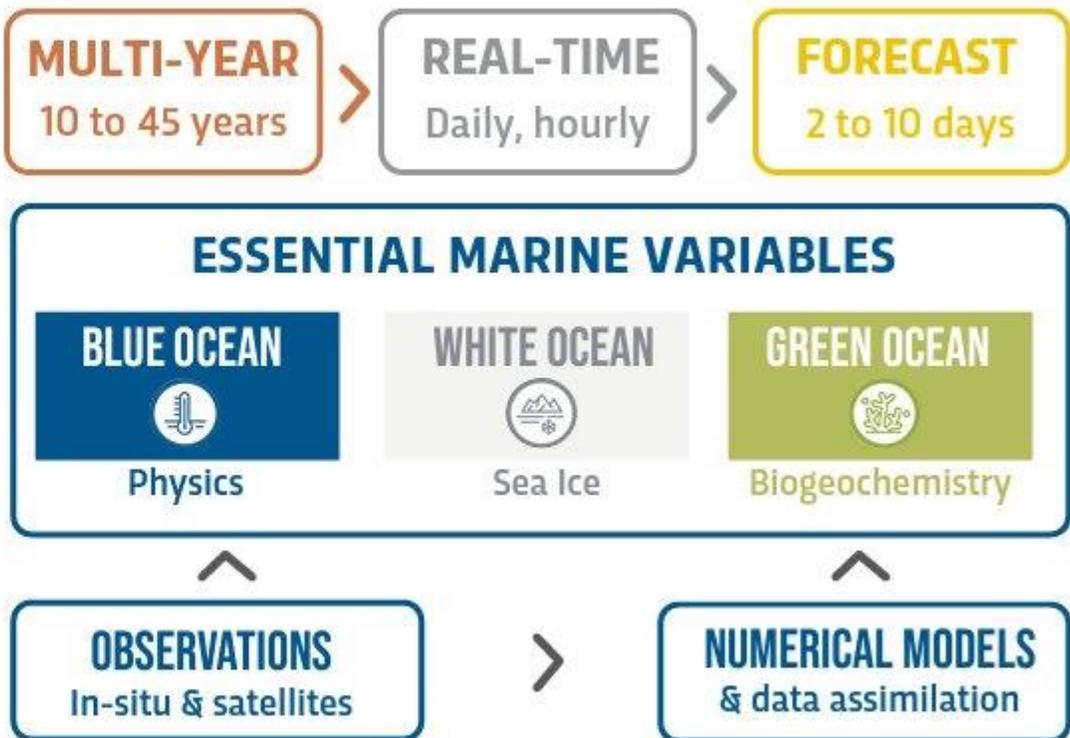
User Driven

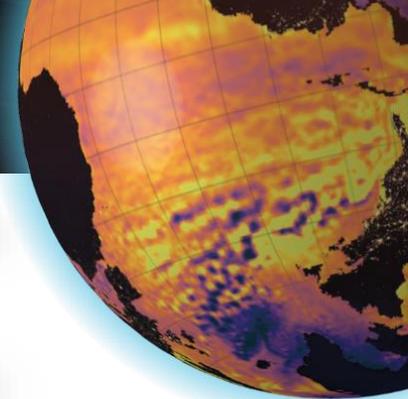


Copernicus Marine Products

COPERNICUS MARINE REGIONAL OCEAN PRODUCT DIVISIONS

- 1 Global Ocean
- 2 Arctic Ocean
- 3 Baltic Sea
- 4 European North West Shelf Seas
- 5 Iberian Biscay Ireland Seas
- 6 Mediterranean Sea
- 7 Black Sea





A USER-DRIVEN SERVICE

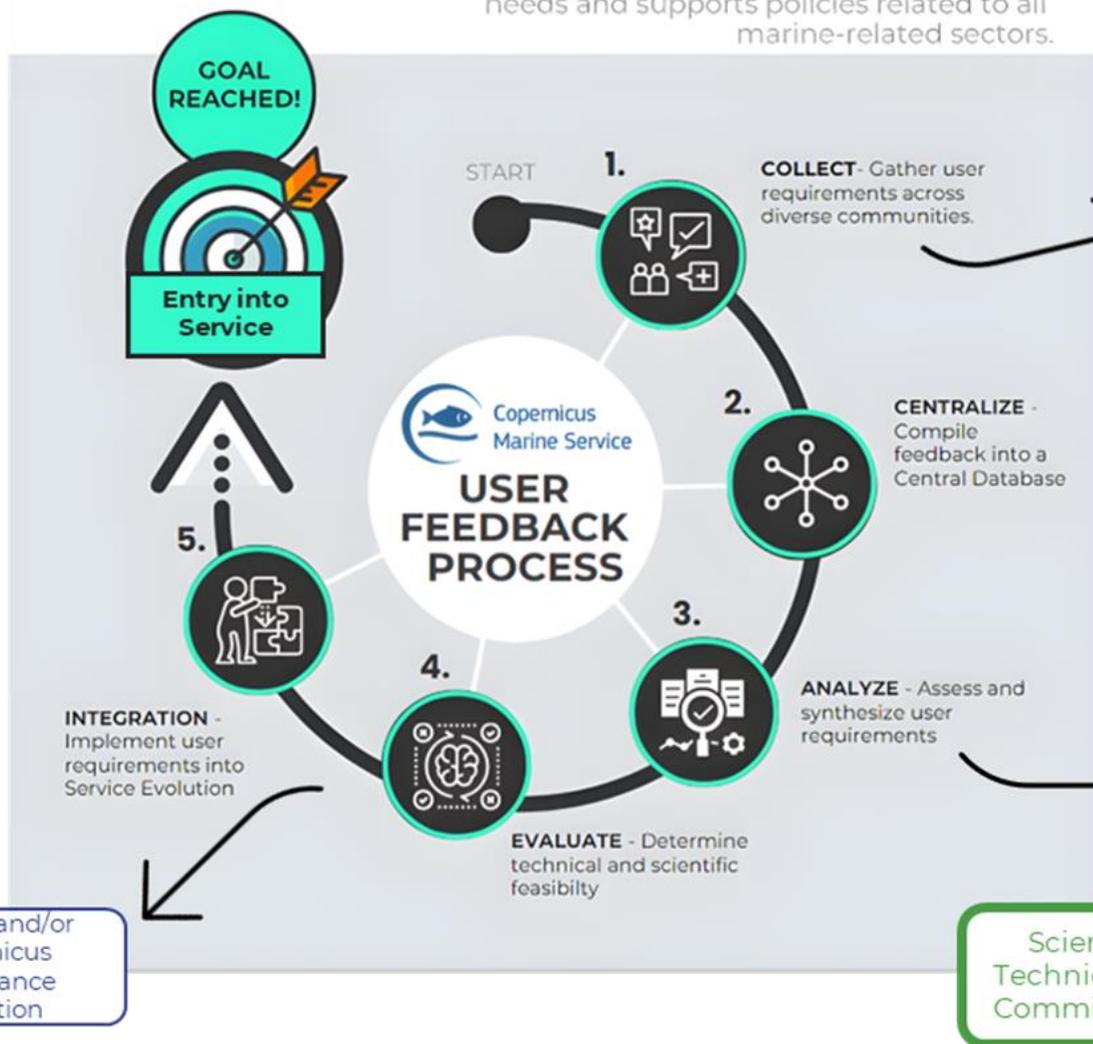
The service responds to public and private user needs and supports policies related to all marine-related sectors.



Environment

Society

Economy



User Support

Training

Marine Forum

Champion User Advisory Group

EUSPA

Surveys & questionnaires

Workshops & events

Policy & Conventions

Producers

All website users

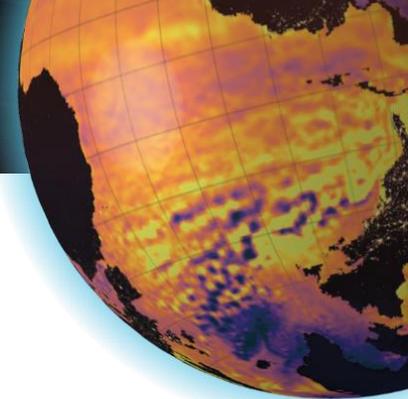
Interaction with other Copernicus Services and Entrusted Entities

Copernicus Marine User Feedback Report

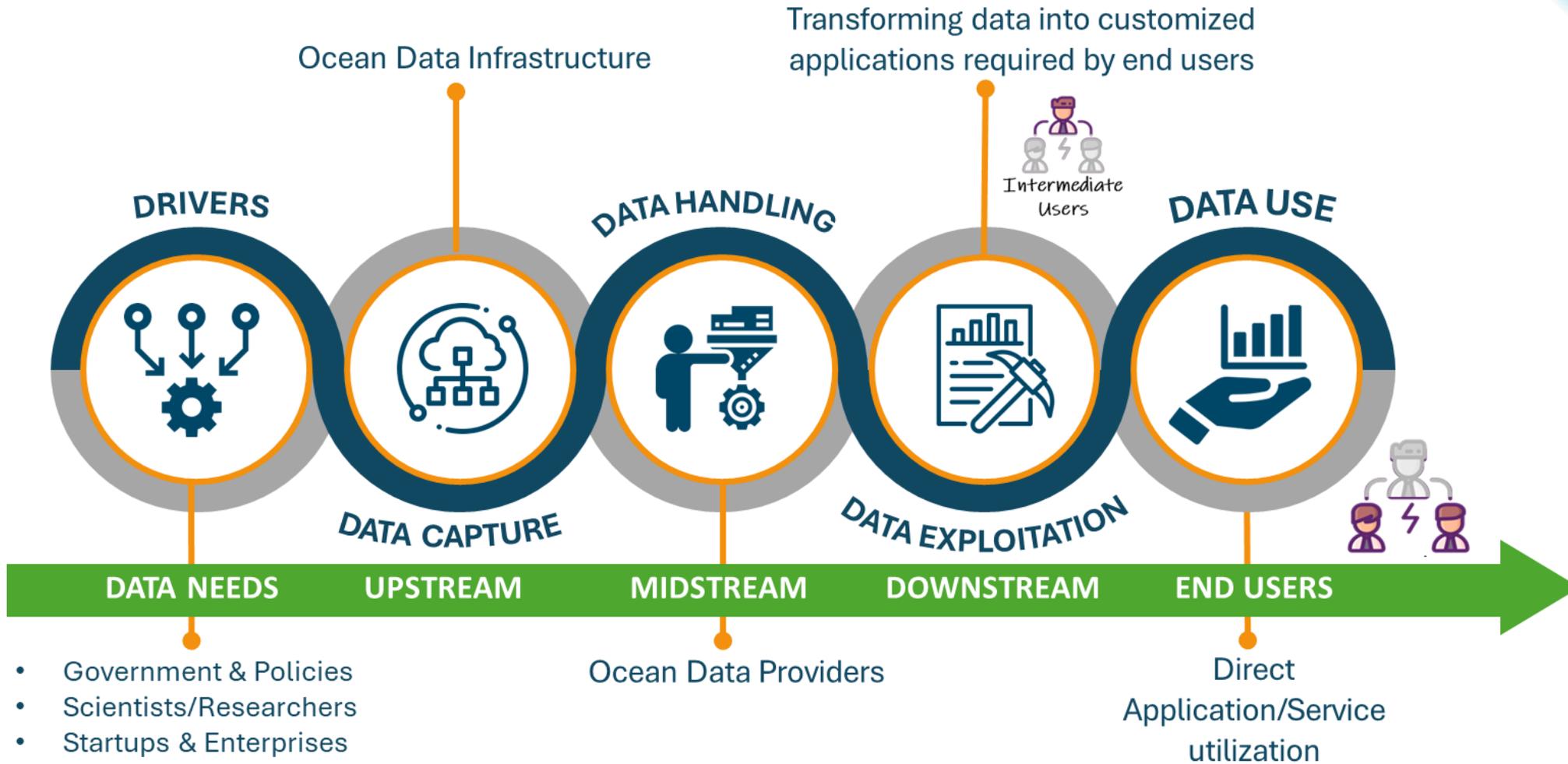
Scientific and Technical Advisory Committee (STAC)

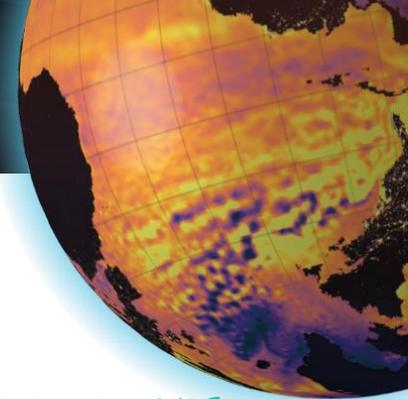


Latest report



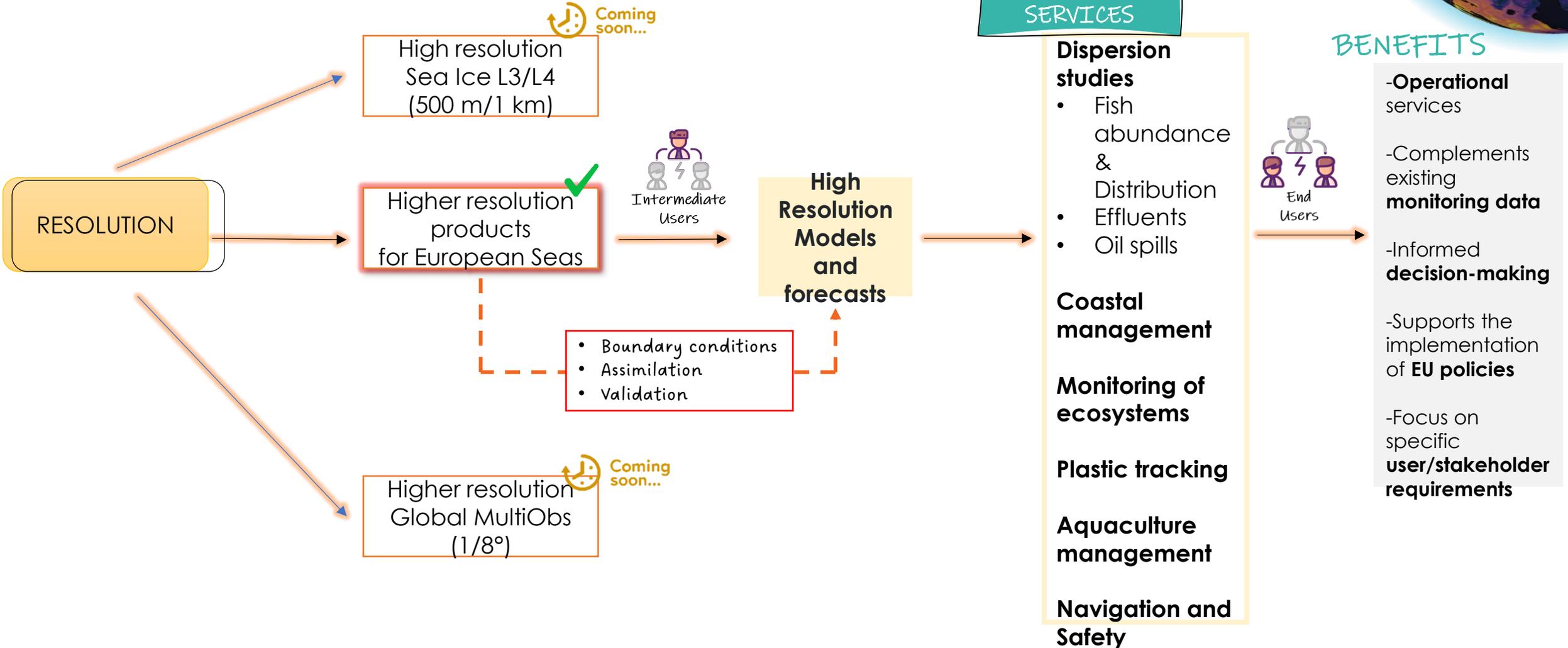
Copernicus Marine Value Chain

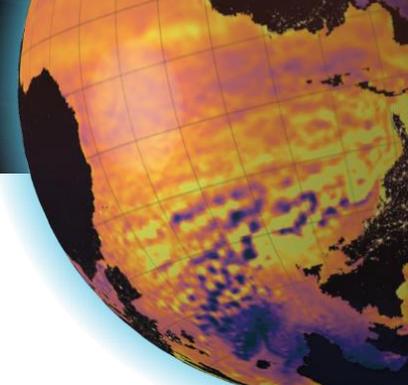




Translating User Needs into New Products and Services

- Improving RESOLUTION and FORECASTS





Translating User Needs into New Products and Services

- Marine data for COASTAL MANAGEMENT

New Products

New Services

COASTAL PRODUCTS

High resolution WIND SAR (1 km)

High resolution BATHYMETRY (~100 m)

Intermediate Users

EU Coastal Monitoring Demonstrators

Downscaling monitoring activities

Support the implementation of EU Environmental Directives

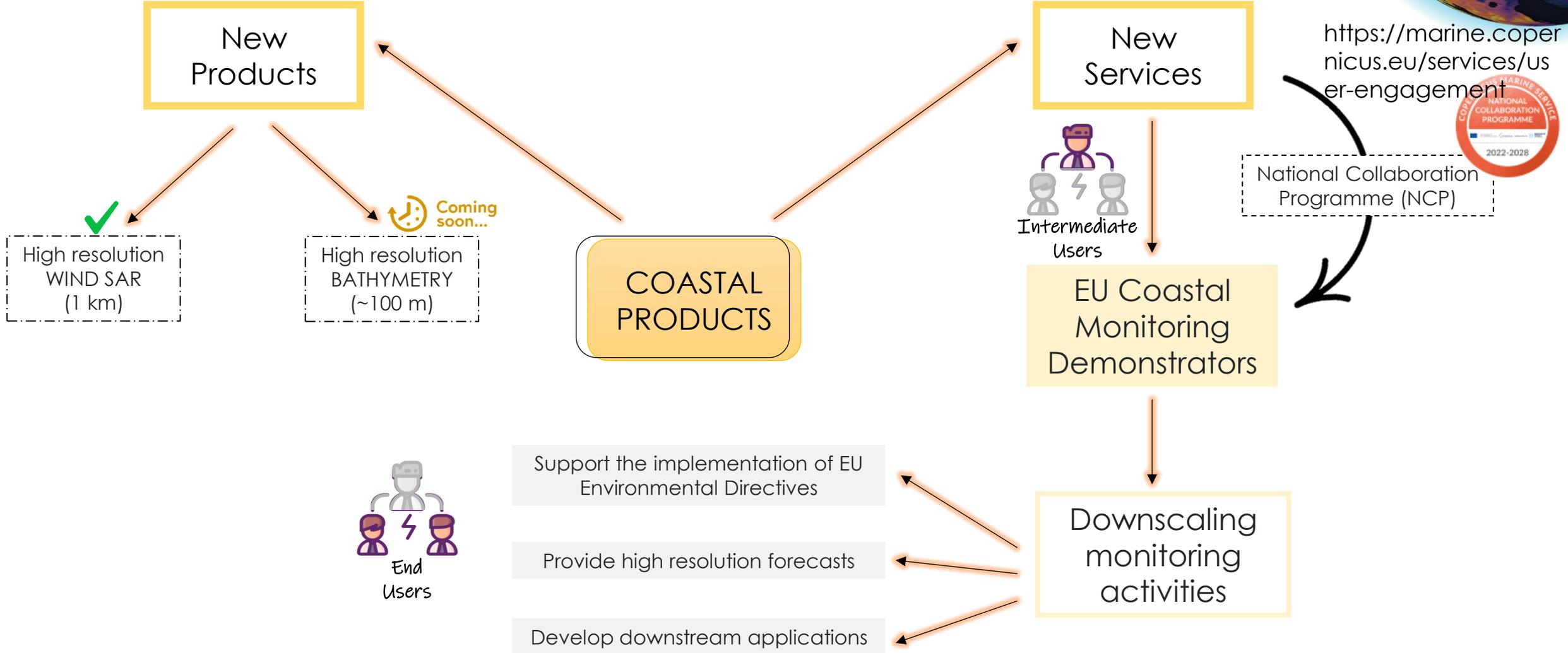
Provide high resolution forecasts

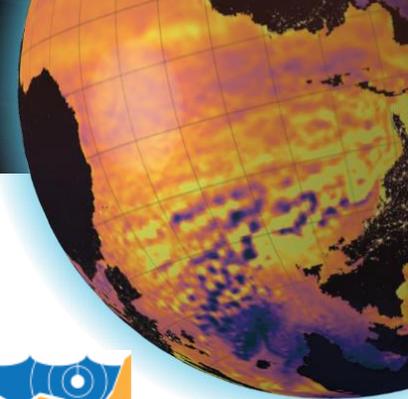
Develop downstream applications

End Users

<https://marine.copernicus.eu/services/user-engagement>

National Collaboration Programme (NCP)





USE CASE: Rheticus Marine in support to EU Marine strategy

- Rheticus® Marine is an innovative, high-performing **geo-information service** for monitoring **coastal water quality**.
- Near-real-time, 1km resolution, parameters (e.g. turbidity, water transparency).
- User-specified intervals are produced **on-demand**; all other statistics are generated

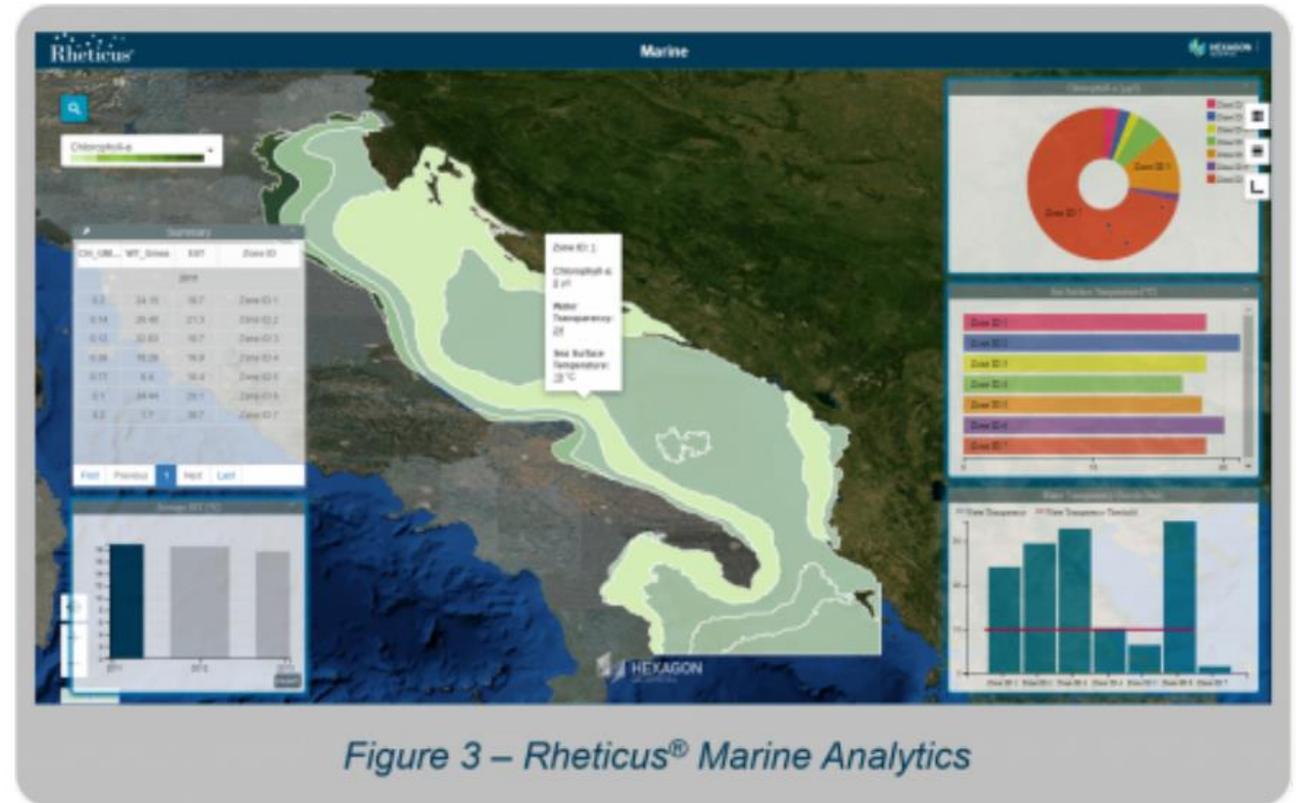
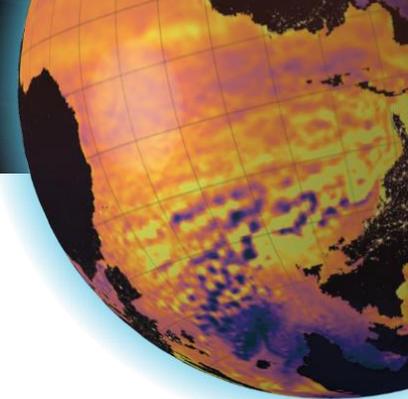
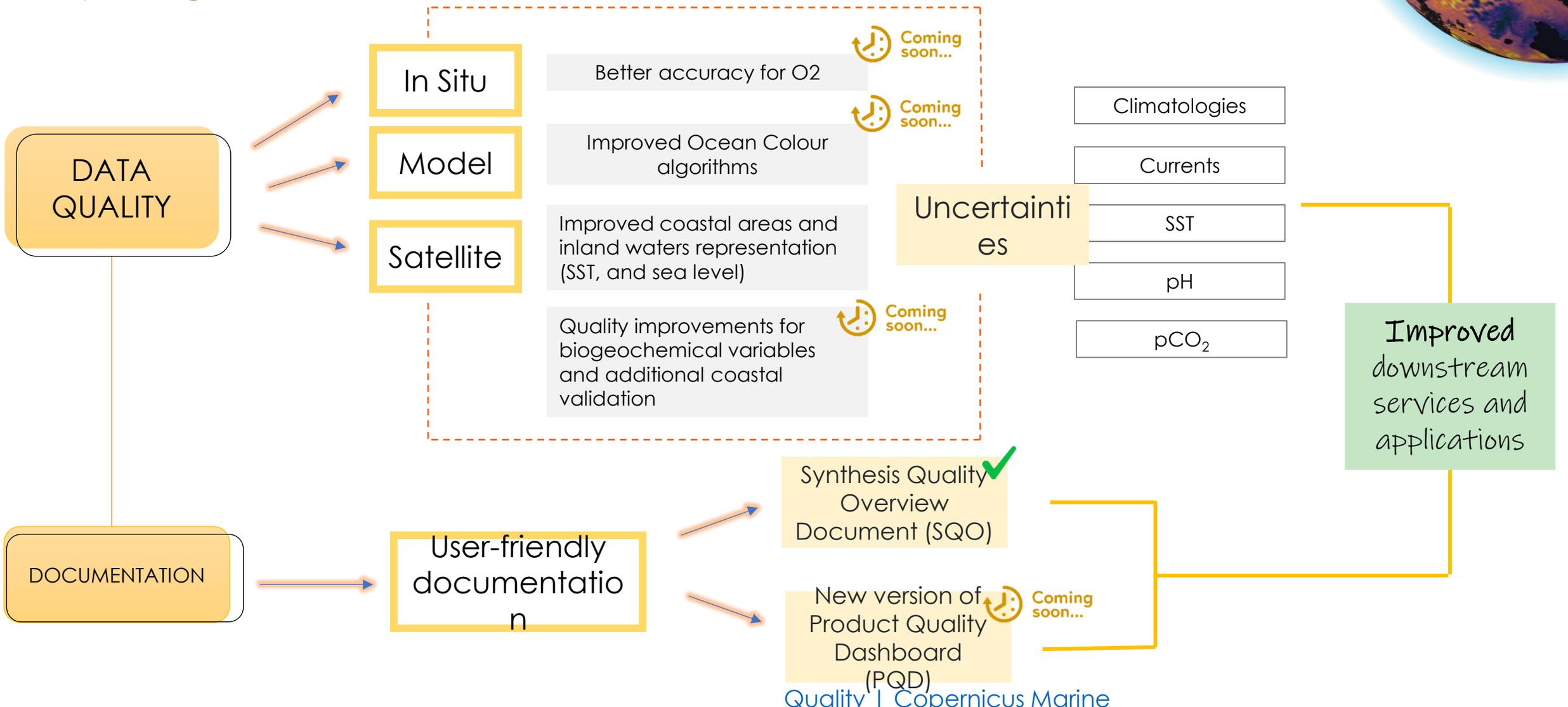


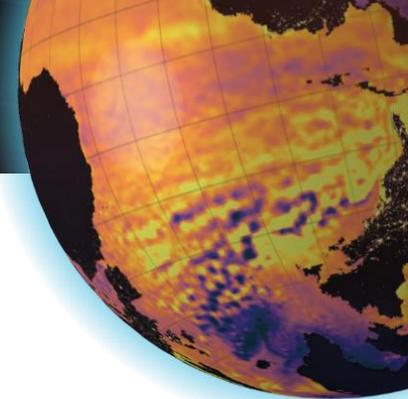
Figure 3 – Rheticus® Marine Analytics



Translating User Needs into New Products and Services

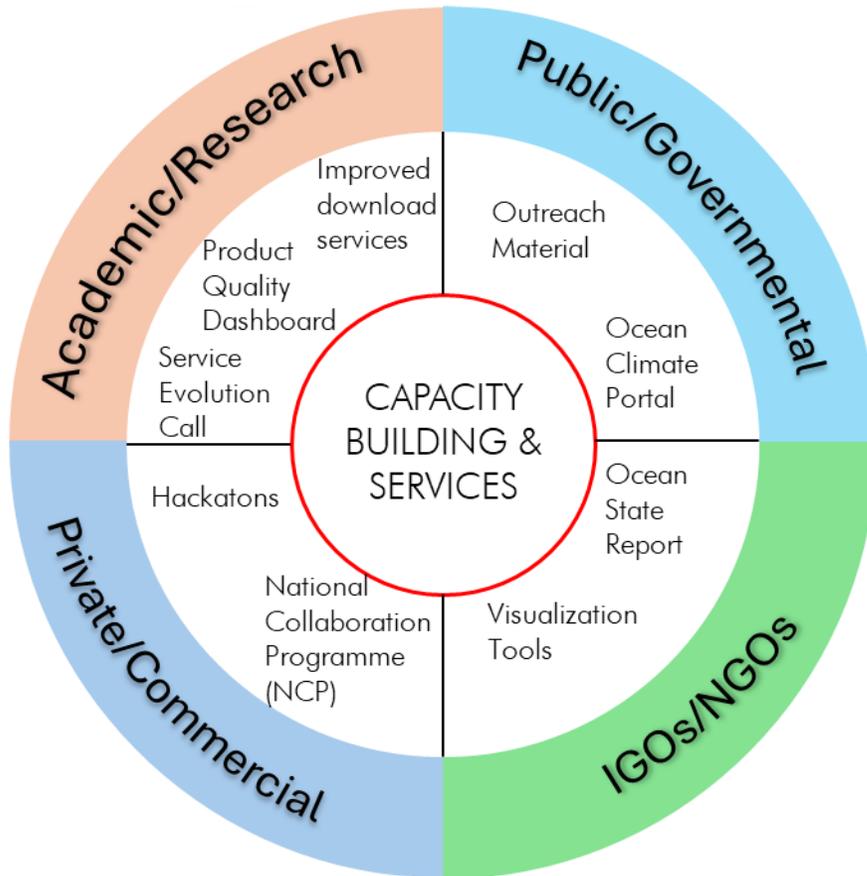
- Improving DATA QUALITY and DOCUMENTATION





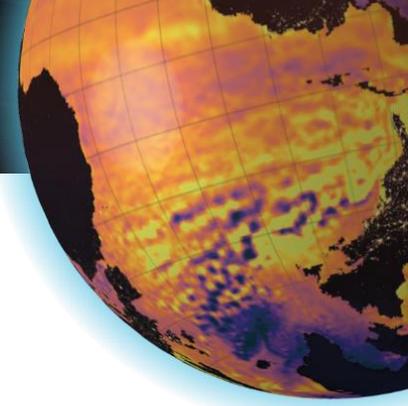
Translating User Needs into New Products and Services

- New SERVICES and CAPACITY BUILDING STRATEGIES



Comprehensive Services and Capacity-Building Activities

- Year-Round Events (Training and Workshops)
- Upcoming Policy Dashboard  Coming soon...
- Three Types of Visualization Tools
- User Learning Resources
- User Support Team (Including Blue, the AI-Trained Agent)
- Product Roadmap
- Use Cases



CONCLUSIONS

- The Copernicus Marine Service is moving towards **user-driven products and services**, focusing on **co-designed** solutions.
- The service aims to support all sectors of the blue economy by providing **high-resolution model products and forecasts**, improving **data quality and documentation**, and developing **new services and capacity-building strategies**.
- **National Collaboration Programs** and the development of **downstream applications** facilitate and support the implementation of **EU environmental directives**.



Copernicus Marine Meeting - *ROOM IX*

12:45-13:45

SYM POSIUM IUM

OP' 24

ADVANCING OCEAN PREDICTION
SCIENCE FOR SOCIETAL BENEFITS

Thank you!

