

### COPERNICUS MARINE SERVICE

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### Ο U T L I N E

Marine Monitoring

- OVERVIEW OF THE COPERNICUS MARINE SERVICE
- WHICH MARINE PRODUCTS?
- WHO ARE THE COPERNICUS MARINE CONTRACTANTS?
- WHO ARE THE COPERNICUS MARINE USERS?
- MAIN 2019 EVENTS & TRAINING





### OVERVIEW OF THE COPERNICUS MARINE SERVICE

- WHICH MARINE PRODUCTS?
- WHO ARE THE COPERNICUS MARINE CONTRACTANTS?
- WHO ARE THE COPERNICUS MARINE USERS? MAIN 2019 EVENTS & TRAINING





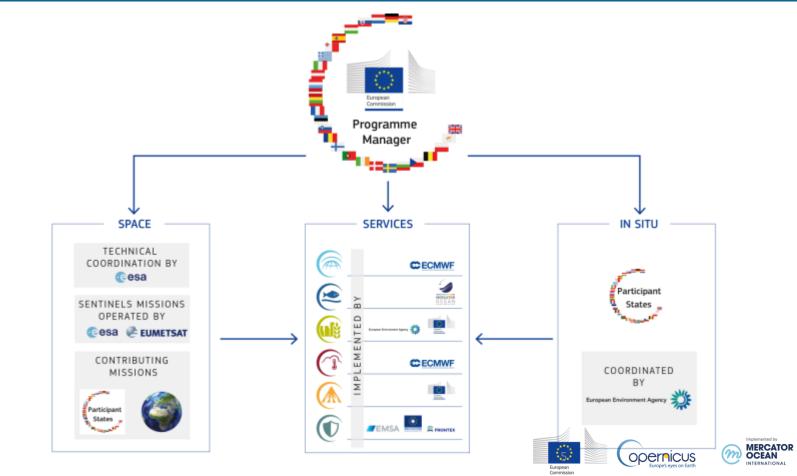
### COPERNICUS IN BRIEF

- Monitoring
- The Copernicus programme (<u>REGULATION (EU) No 377/2014</u>) is a cornerstone of the European Union' efforts:
  - To monitor **the Earth**, its environment and ecosystems
  - To ensure its citizens are prepared and protected for crises, security risks and natural or man-made disasters
- Places a world of insight (data and information) about our planet at the disposal of citizens, public authorities and policy makers, scientists, entrepreneurs and businesses on a full, free and open basis
- Is a tool for economic development and a driver for the digital economy





### COPERNICUS GOVERNANCE



### COPERNICUS MARINE SERVICE http://www.marine.copernicus.eu



Marine Monitoring

One Single Portal

### MARINE PRODUCTS

### • OPEN&FREE

- Sustained in the long term
- User-Driven



Implemented by

OCEAN

INTERNATIONA

MERCATOR

### Ocean Data & Information

Marine Monitoring

#### OCEAN PRODUCTS

Ocean product catalogue, to download or visualize data accross more than 10 variables, including historic, current and forecasted data.

#### OCEAN MONITORING INDICATORS

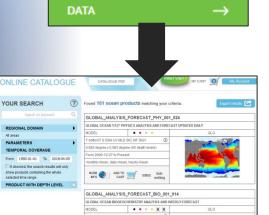
Essential variables monitoring the health of the ocean

#### OCEAN STATE REPORT

Extensive annual analysis on the state of the ocean over nearly 20 years and severe/notable annual events

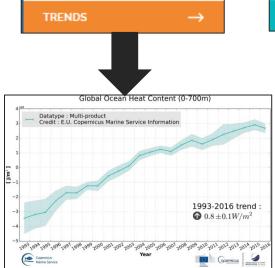
EXPERTISE

European Commission



5 degree x 0.5 degree (50 depth levels)

NORE ADD TO Sub-





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Implemented by MERCATOR OCEAN

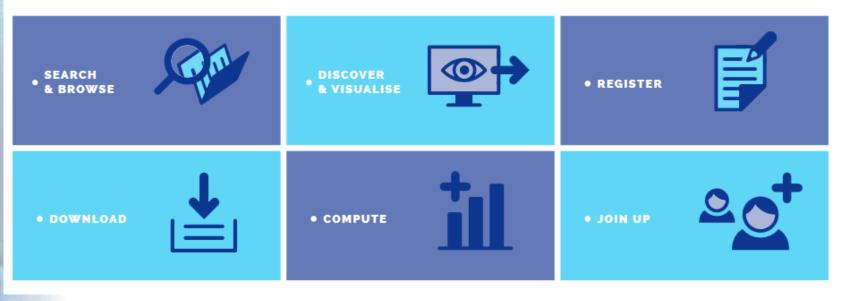


### Marine.copernicus.eu

Marine Monitoring

### ACCESS TO DATA & INFORMATION

Free and open access to worldwide Ocean information marine.copernicus.eu





Implemented by



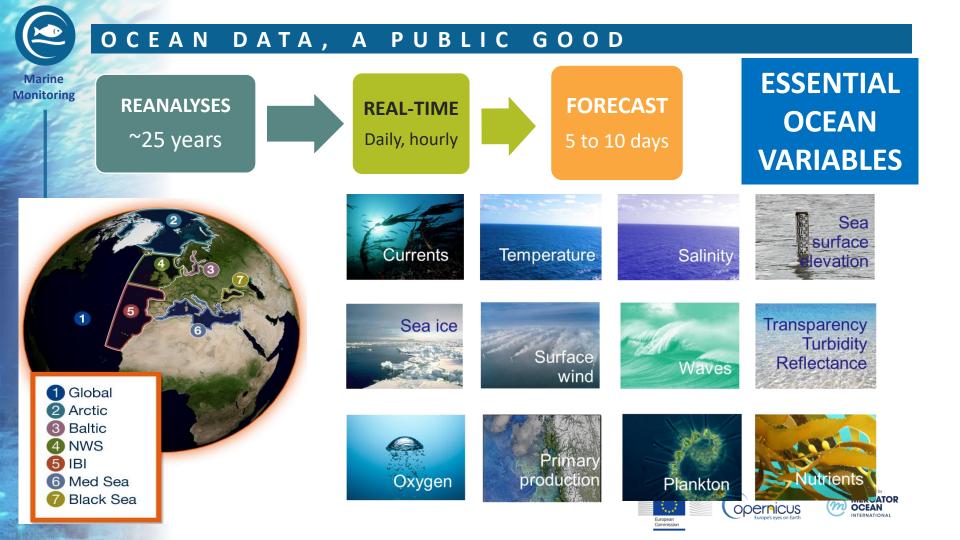
### OVERVIEW OF THE COPERNICUS MARINE SERVICE

### • WHICH MARINE PRODUCTS?

WHO ARE THE COPERNICUS MARINE CONTRACTANTS?

WHO ARE THE COPERNICUS MARINE USERS? MAIN 2019 EVENTS & TRAINING







### PORTFOLIO GATHERS DATA FROM 3 SOURCES

Marine Monitoring



### SATELLITE OBSERVATION

### IN SITU OBSERVATION

### OCEAN MODEL COMPUTATION







### OVERVIEW OF THE COPERNICUS MARINE SERVICE WHICH MARINE PRODUCTS?

# • WHO ARE THE COPERNICUS MARINE CONTRACTANTS?

WHO ARE THE COPERNICUS MARINE USERS? MAIN 2019 EVENTS & TRAINING



### CMEMS CONTRACTANTS in Europe

• ~300 contractants throughout Europe

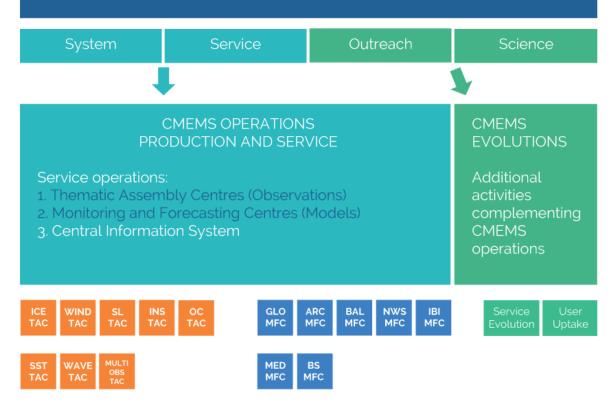
Marine

Monitoring

- 40+ data providers throughout Europe
- State-of-the-art scientific knowledge



#### CROSS-CUTTING COORDINATION CENTRAL USER SERVICE





### OVERVIEW OF THE COPERNICUS MARINE SERVICE

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  MAIN 2019 EVENTS & TRAINING



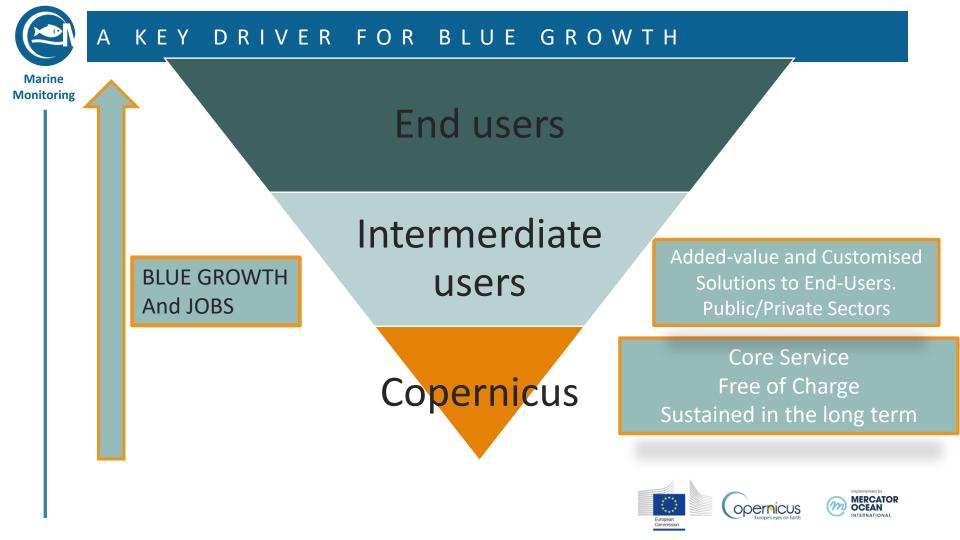


### Serving users in various sectors

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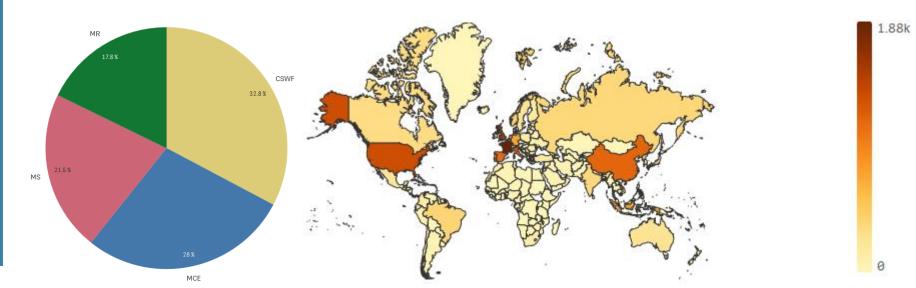




#### CMEMS USERS

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## >17.300 users from 3327 organisations and 168 countries 2600 regular users (download data at least 3 times in 1 month)





#### 150 USE CASES

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COPERNICUS MARINE SERVICE



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COPERNICUS MARINE SERVICE IN SUPPORT TO NORWAY



#### USE CASE EXAMPLES







**StormGeo** 

### SUBMIT YOUR USE CASE

**()** SINTEF

DNAL

http://marine.copernicus.eu/markets/submit-your-use-case/

### Ο U T L I N E

Marine Monitoring

### OVERVIEW OF THE COPERNICUS MARINE SERVICE WHICH MARINE PRODUCTS?

- WHO ARE THE COPERNICUS MARINE CONTRACTANTS?
  - Data Providers in Norway
  - Service Evolution Contractants in Norway
  - WHO ARE THE COPERNICUS MARINE USERS?
- MAIN 2019 EVENTS & TRAINING





#### ORGANIZING TRAINING WORKSHOPS





Monitoring

#### 1) our contractors, 2) outermost regions, 3) aquaculture sector, 4) public authorities



#### • SAVE THE DATE

- MAY 20-24 2019, Brussels
- COPERNICUS Marine Service General Assembly
- SAVE THE DATE
- JUN 6-7 2019, Azores, Faial Island, Horta city
- COPERNICUS Marine for Outermost Regions
- SAVE THE DATE
- SEP 24-25 2019, Athens, Greece
- COPERNICUS Marine for the Aquaculture sector

MERCATOR OCEAN

- SAVE THE DATE
- October 2 2019, Brussels, Belgium
- COPERNICUS Marine for MSFD operations



#### JOIN THE COPERNICUS MARINE SERVICE COMMUNITY



Web portal marine.copernicus.eu

Service Desk's email servicedesk.cmems@mercator-ocean.eu

**Collaborative Forum** 

http://forum.marine.copernicus.eu/





Copernicus EU Mercator Océan @ CMEMS\_EU

**MercatorOcean** 



(in)

Linkedin CMEMS partnership Meeting place https://www.linkedin.com/groups/8243515



Tutorials on CMEMS YouTube channel Copernicus Marine Service



# THANK YOU

