

OCEAN AND ENVIRONMENTAL TECHNOLOGIES AND SERVICES

Part 1 : Ocean Focus

Wednesday 20 October
9:00 AM to 01:15 PM



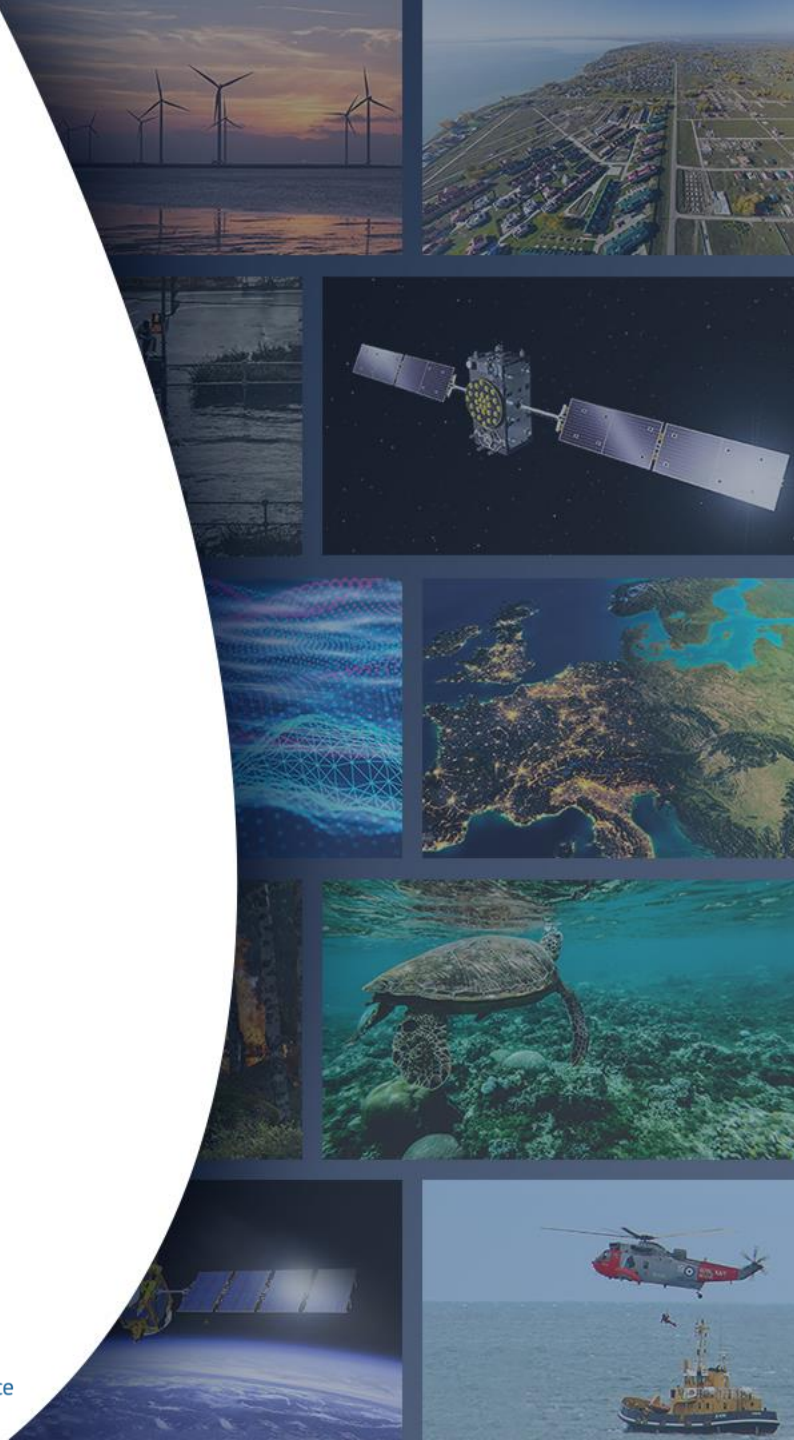
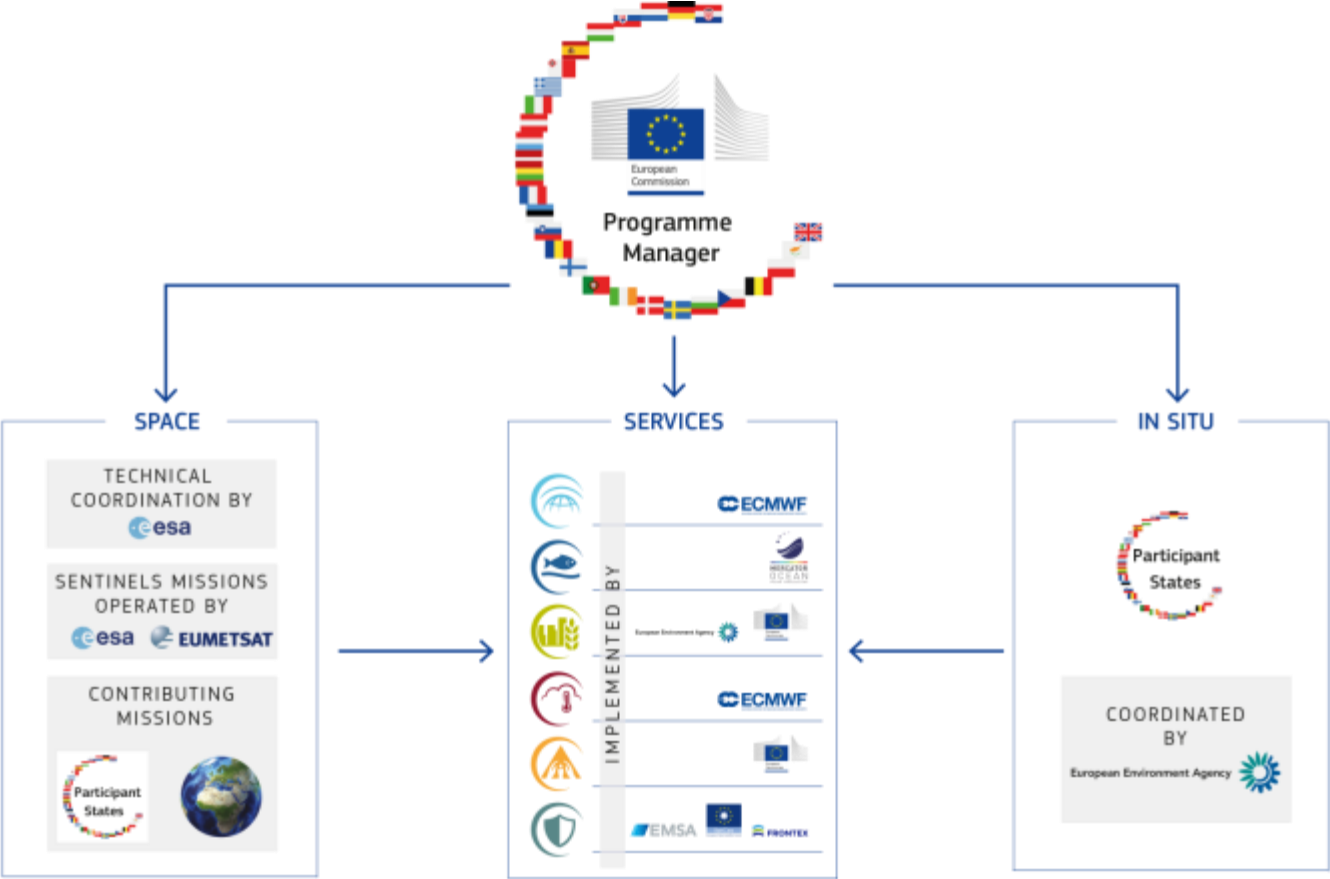
PROVIDING REAL TIME OCEAN DATA FOR A SAFER DECISION-MAKING

Laurence Crosnier
Head of Markets and Services
Mercator Ocean International



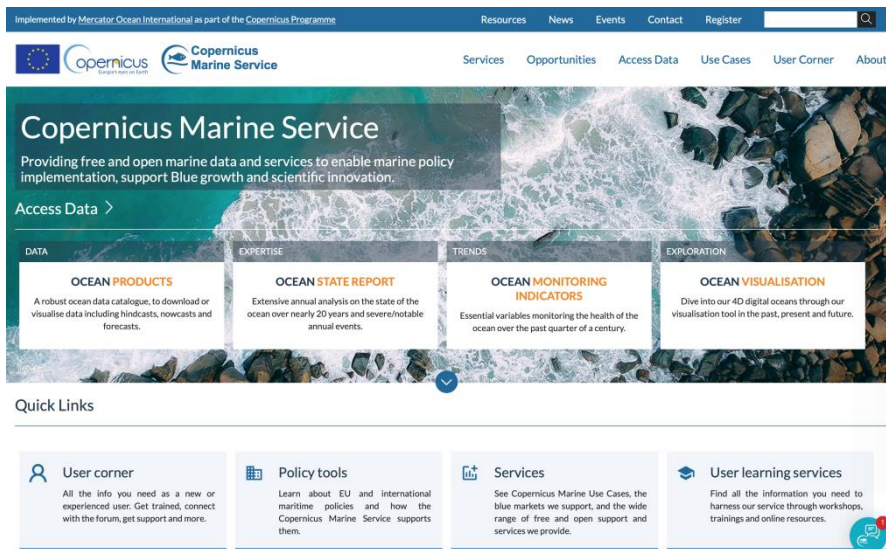
EU COPERNICUS PROGRAMME

EUROPE'S EYES ON EARTH



COPERNICUS MARINE SERVICE

marine.copernicus.eu

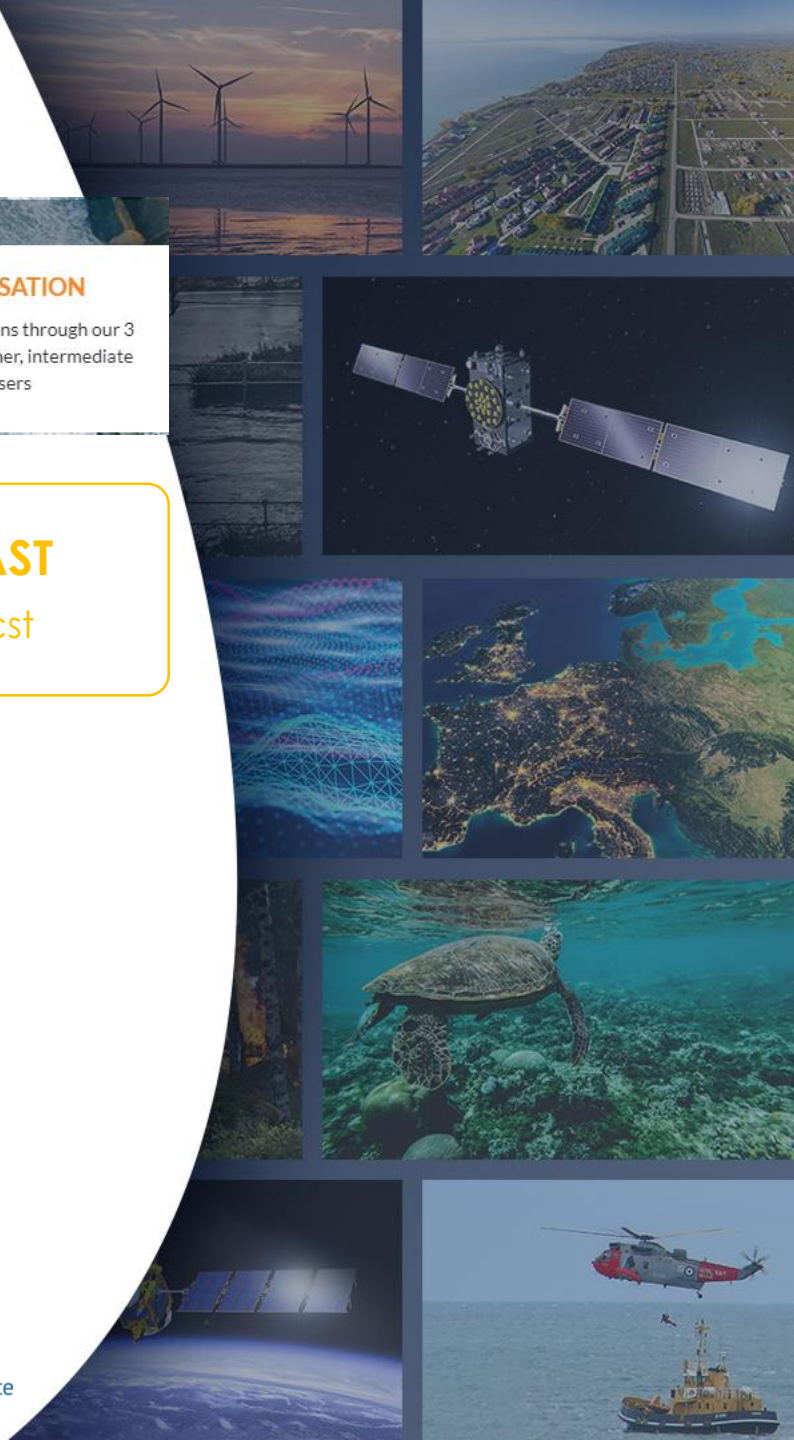
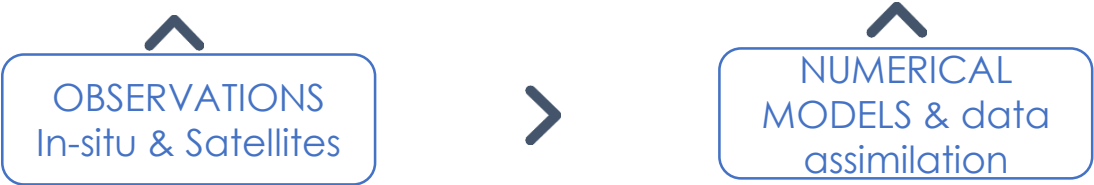
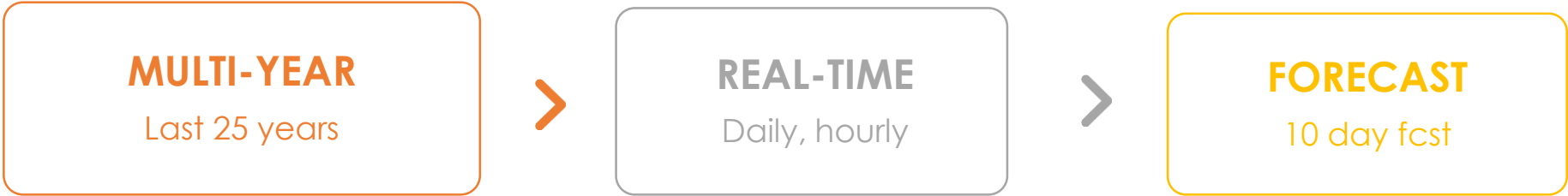


- One Single Portal
- MARINE PRODUCTS
- **OPEN&FREE**
- Sustained in the long term
- User-Driven



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DATA	EXPERTISE	TRENDS	EXPLORATION
OCEAN PRODUCTS A robust ocean data catalogue, to download or visualise data including hindcasts, nowcasts and forecasts.	OCEAN STATE REPORT Extensive annual analysis on the state of the ocean over nearly 20 years and severe/notable annual events.	OCEAN MONITORING INDICATORS Essential variables monitoring the health of the ocean over the past quarter of a century.	OCEAN VISUALISATION Dive into our 4D digital oceans through our 3 visualisation tools for beginner, intermediate and advanced users



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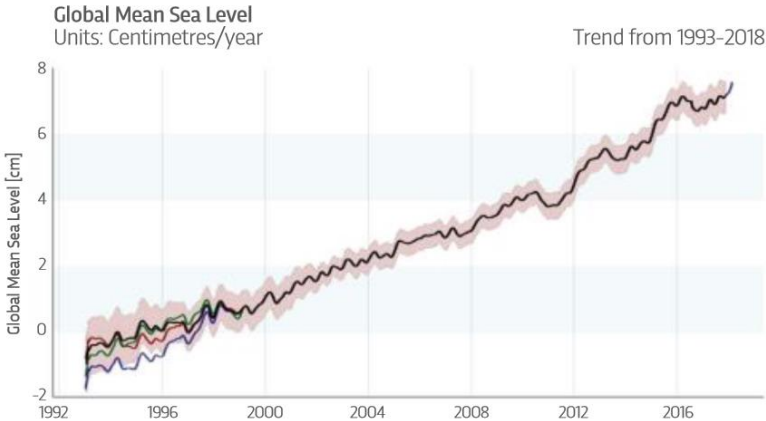
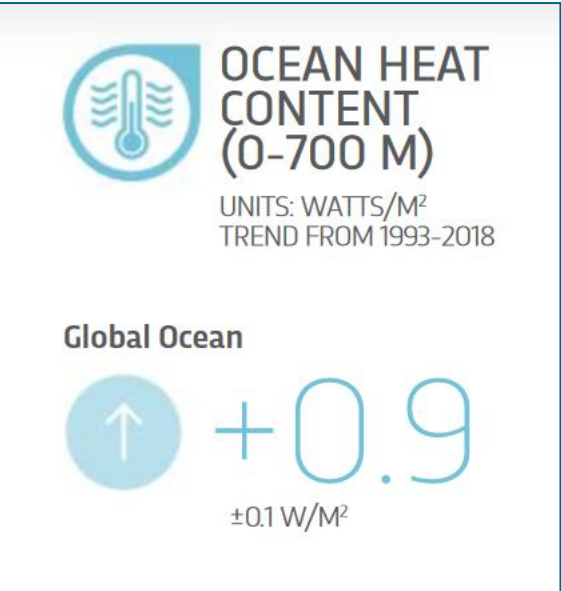
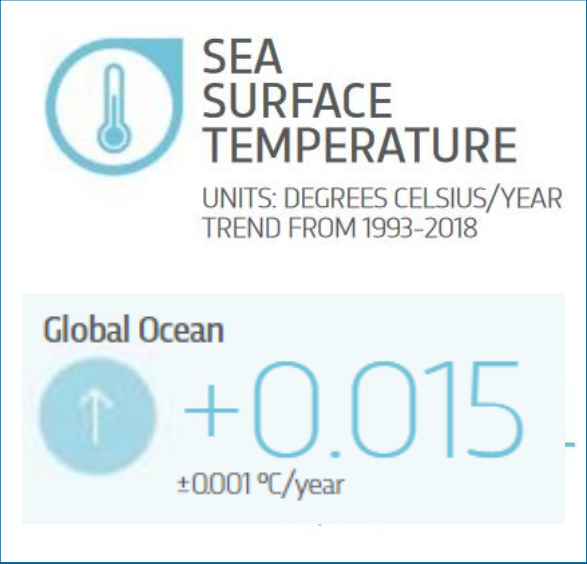
1- ESSENTIAL OCEAN VARIABLES



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2- OCEAN MONITORING INDICATORS

[Ocean State Reports](#) | [CMEMS \(copernicus.eu\)](#)



OCEAN AND ENVIRO
TECHNOLOGIES AND

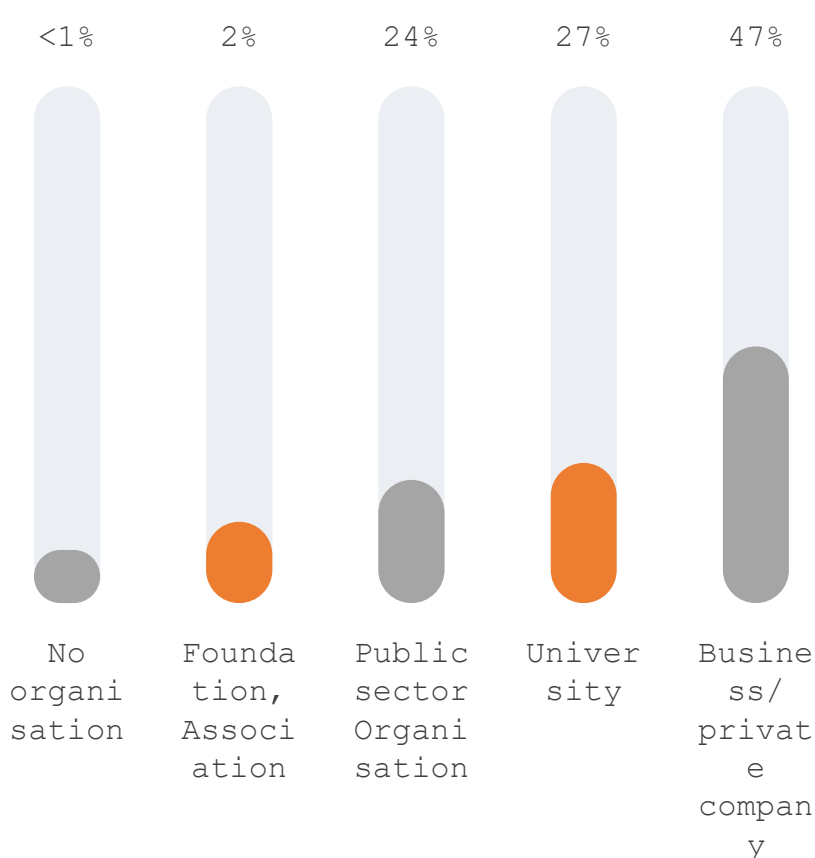
SEA LEVEL RISE
CONTINUES, BUT AT AN
ACCELERATED PACE



COPERNICUS MARINE USER UPTAKE

>33 000 Subscribers
6 700 new subscribers in 2020

- 47% size downloaded by Business sector
- 51% size downloaded by Public sector and Universities



Environment



Polar Environment Monitoring



Climate & Adaptation



Ocean Health



Marine Conservation & Biodiversity

Society



Science & Innovation



Policies & Ocean Governance & Mitigation



Education, Public Health & Recreation



Extremes, Hazards & Safety

Economy



Marine Food



Coastal Services

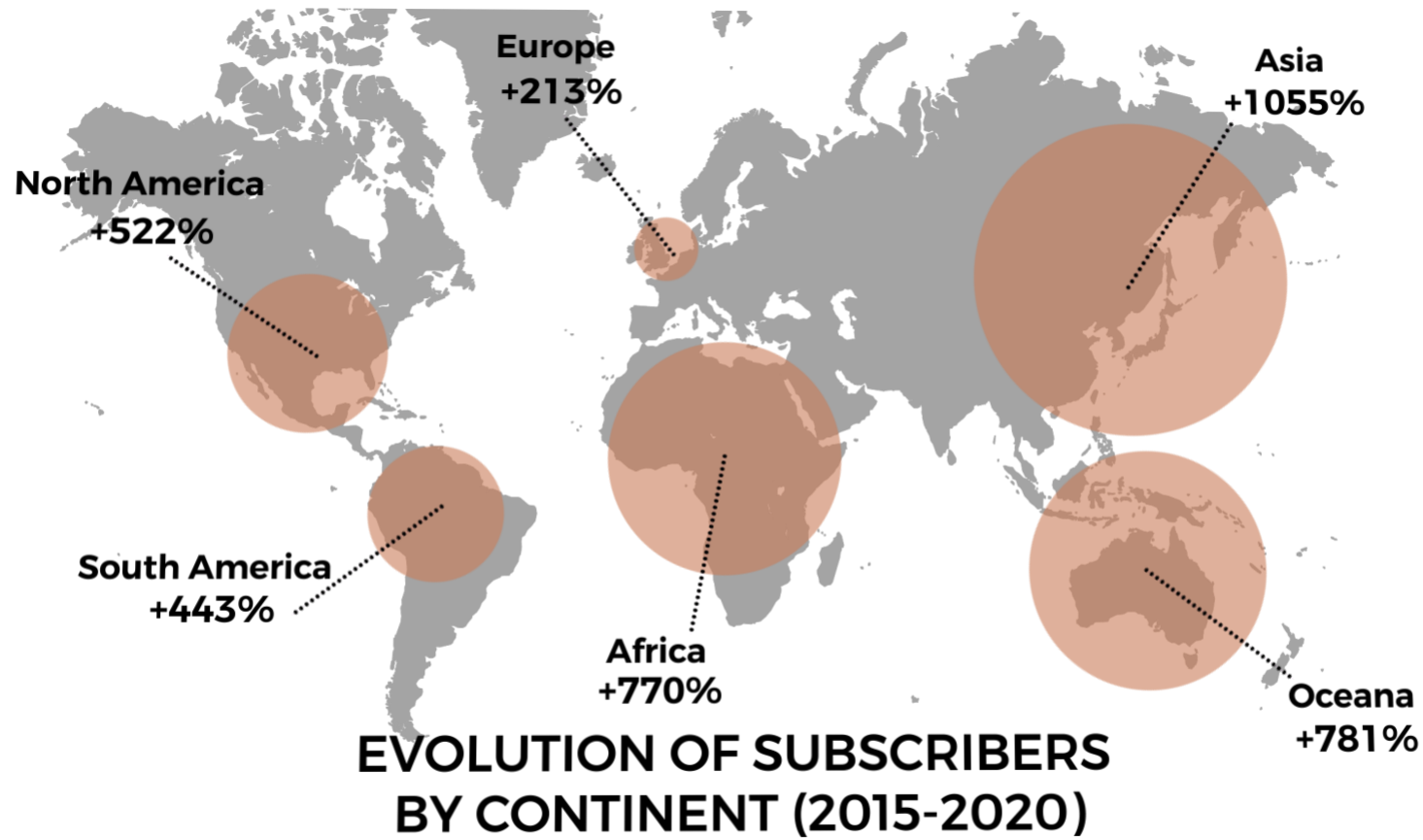


Trade & Marine Navigation



Natural Resources & Energy

GREAT UPTAKE IN EUROPE & WORLDWIDE





Extremes, Hazards & Safety



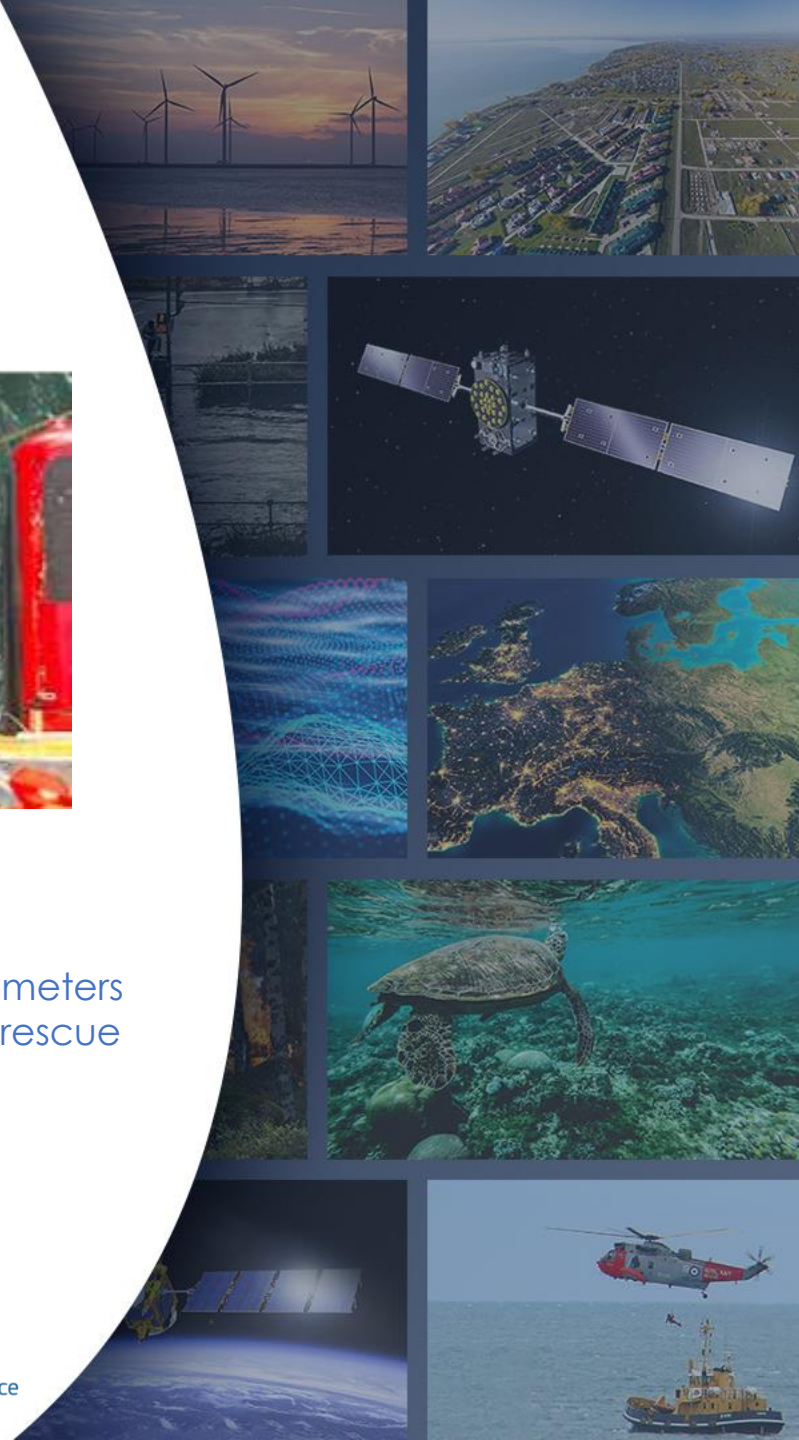
Offshore marine oil spills:

- Provide ocean forecasts to feed oil spill drift-forecast models to predict the potential oil spread
- better planning for the emergency response
- Backward mode to find the source and identify the responsible



Search and Rescue operations

- Provides ocean current and significant wave height parameters as input for their search and rescue software and met-ocean dashboards.





Trade & Marine Navigation



Ship routing allows maritime shipping companies to reduce fleet navigation risks, save fuel and reduce CO2 emissions.

Ocean models provide ocean current, significant wave height and sea ice parameters for the global oceans and European Seas. These can be used as input conditions for ship routing software.

The Copernicus Marine Service sea ice satellite products also help maritime shipping companies find the safest navigation routes through ice-covered areas.

