



2021 Brokerage event

22-26 March 2021

Horizon EU

Webinars on Preparatory
HEU

Calls for Proposals

*free access

Starting 02/02

Working Groups meetings

*only for WE members

Thematic Workshops

*all participants

Starting 15/03

WKE2021

Water Knowledge
Europe
Spring edition

Market Europe

Digital Water and

Cybersecurity

Water Projects Europe

3rd edition



SPRING EDITION 2021 Brokerage event



The untapped potential for satellite-based applications in the water management domain: a market and users' benefits perspective (Part 1)



European Association of Remote Sensing Companies (EARSC)

EuroGEO Showcases: Applications Powered by Europe



The e-shape project has received funding from the European Union's Horizon 2020 research and inprovation programme under graphs are also programme 920952

Digital Water and Cyber-security & Presentations of market scenarios &





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The water market includes many obvious and less obvious applications:

Renewable and conventional energy, agriculture, recreational diving, water quality assessment, aquaculture etc...

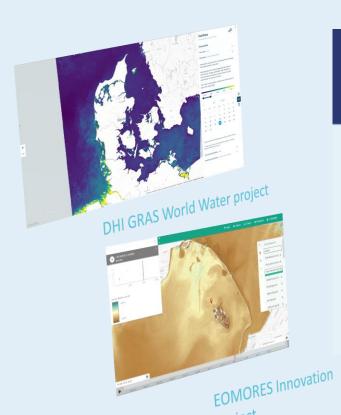




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Earth Observation services can play a role in many of these markets with market integration and services:





POLAR ENVIRONMENT MONITORING



The Copernicus Marine Service polar environment products allow users to assess environmental safety in both poles. These products are used by national sea ice services to serve many user groups like:

- National authorities
 Research institutes
- Shipping companies





We provide public authorities and governments with key parameters to support the monitoring of habitats within conservation areas.

Many variables can be monitored by each European Member State using the Copernicus Marine Service,

- Sea water eutrophication
 Ocean noise



We provide scientists with many products to conduct their environmental, climate and oceanographic research. They can rely on:

- The Ocean Monitoring
 The Ocean State Indicators (OMIs)
 - Report, a flagship scientific publication



Our ocean models provide key inputs to estimate ocean

NATURAL RESOURCES

& ENERGY

Monitor offshore sites

energy resources to:

Evaluate ocean

energy resources These data are used by businesses researchers and decision-makers.





WATER QUALITY



Using our products, each European Member State car

- Monitor sea water quality in line with the European Marine Strategy Framework harmful algae blooms Directive (MSFD)
- Notably sea water eutrophication in areas impacted by





The modelling method called "Downscaling" allows the Copernicus Marine Service data to be used to develop high resolution coastal models, useful for



We develop ocean literacy tools for the general public, teachers, decision-makers etc. They are used to raise awareness about the multifaceted environmental pressures on the ocean:

- Climate change Plastic pollution
- Overfishing





Our products and services are used to model fish habitats with variables like chorophyll and sea surface temperature, for example. These contribute to the sustainable management of:

Fisheries

Aquaculture farms

SAFETY







We provide products contributing to safer ship routing (can reduce fleet navigation risks in ice-covered areas) and more ecological and efficient marine navigation (by lowering fuel consumption):

Sea ice

Ocean current



& DISASTER

Our daily forecast ocean model provides inputs for: Search and rescue
 Meteo-ocean software dashboards

The ocean current model can be used for drift forecasting of oil spills that help government agencies to better

https://marine.copernicus.eu/resources/documentation



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EO for Blue Market Access



International level

- UNOOSA Space4Water Portal
- DHI GRAS (SDG 6)









EU level



ESA Thematic Exploitation Platforms



EU Water Framework Directive

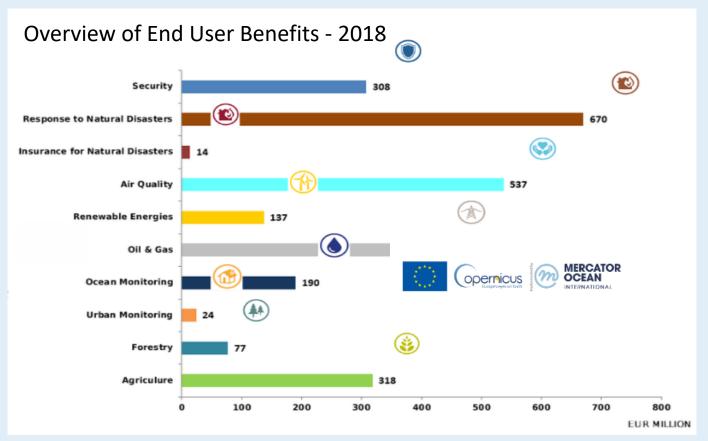
Horizon2020 innovation projects: e-shape

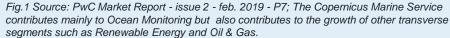


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..and Market Value





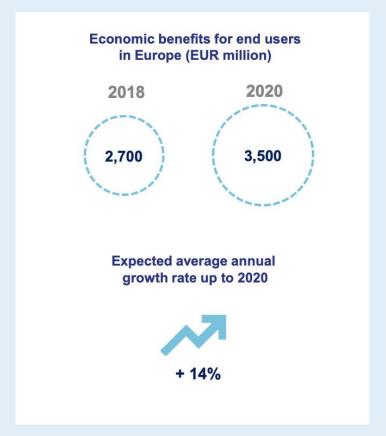


Fig.2 Copernicus Market Report | Issue 2, February 2019 | Prepared by PwC |



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European Marketplace for EO Services







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