

Marispace-X

Maritime Smart Sensor Dataspace

Marispace-X aims to establish a maritime data ecosystem for various stakeholders - industry, academia, authorities and NGOs. The digital framework allows them to manage, share and analyse data from the ocean in efficient manner based and European standards and values, such as sovereignty or security. It provides new ways in maritime big data processing and analysis of sensor data across Edge, Fog and Cloud Computing.

The integration paves the way for new insights and innovations to tackle the major challenges of our time. Developing a digital ocean ecosystem, Marispace-X addresses multiple issues of our decade, such as climate change, safeguarding marine habitats and digital transformation, by five use cases:

- Internet of Underwater Things - Laying the foundation for a comprehensive digital representation of the oceans
- Offshore Wind - Data collection, management and intelligent monitoring for offshore wind farms
- Munitions in the Sea - Analysis and data management for the clearance of 1.6 million tons of discarded munitions in the North and Baltic Sea
- Biological Climate Protection - Identification and optimization of the CO2 reduction potential of macrophytes (e.g. seagrass meadows)
- Critical Infrastructure – protection and monitoring of critical underwater infrastructure like cables and pipelines

Domain	Geoinformation
Start	Januar 2022
Term	3 years
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Consortium management

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