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Estonia: Smart Maritime Nation

14.01.2025

Vladimir Svet
Minister of Infrastructure





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Three points

- Security
- Sustainability
- Cooperation





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Security





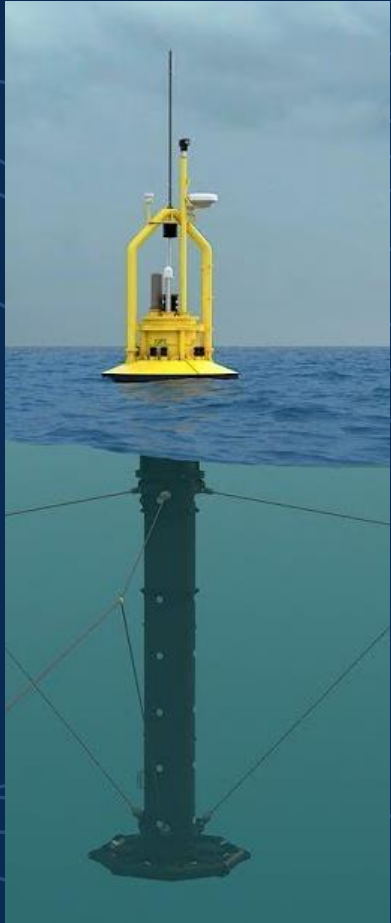
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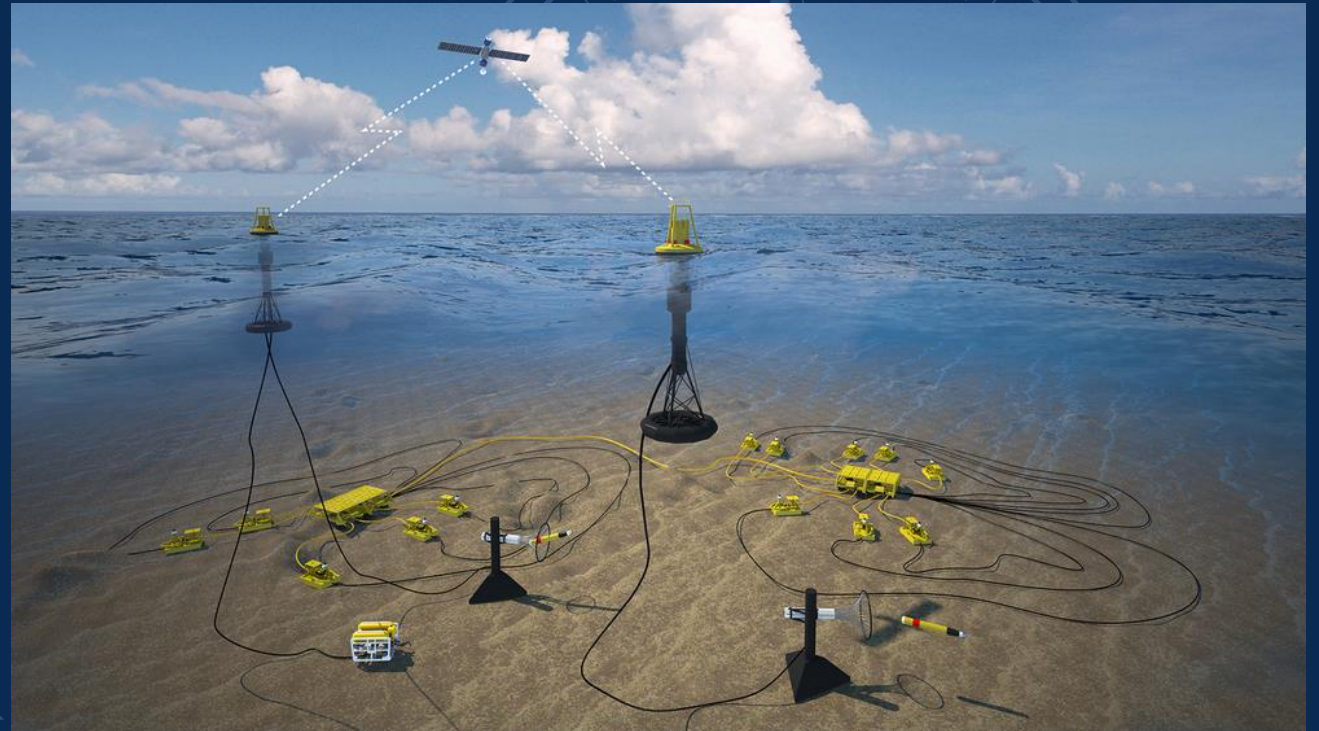
What is a smart platform network?



Ocean Power technologies:
Powerbuoy 3



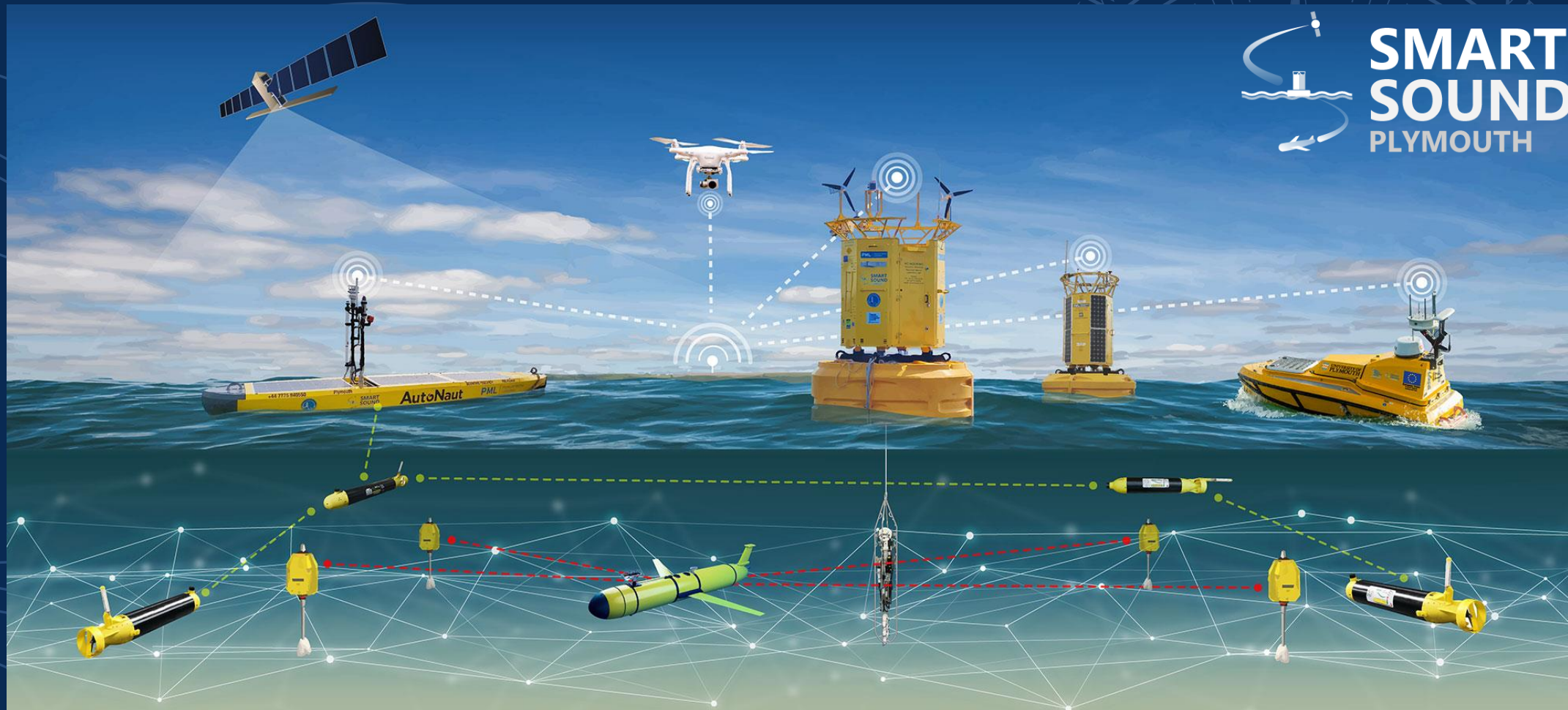
Reedsport Wave Power Station



Ocean Power technologies: Powerbuoy 3

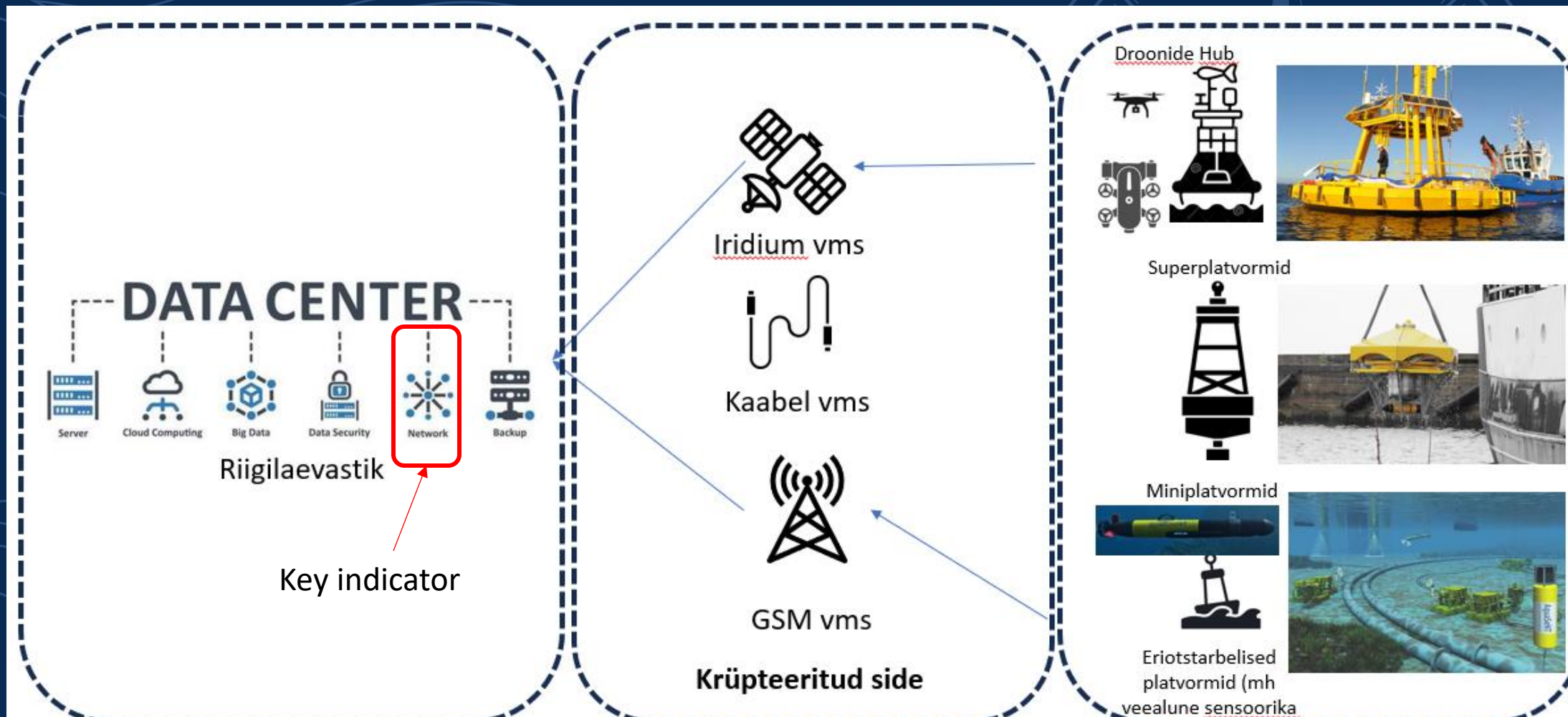


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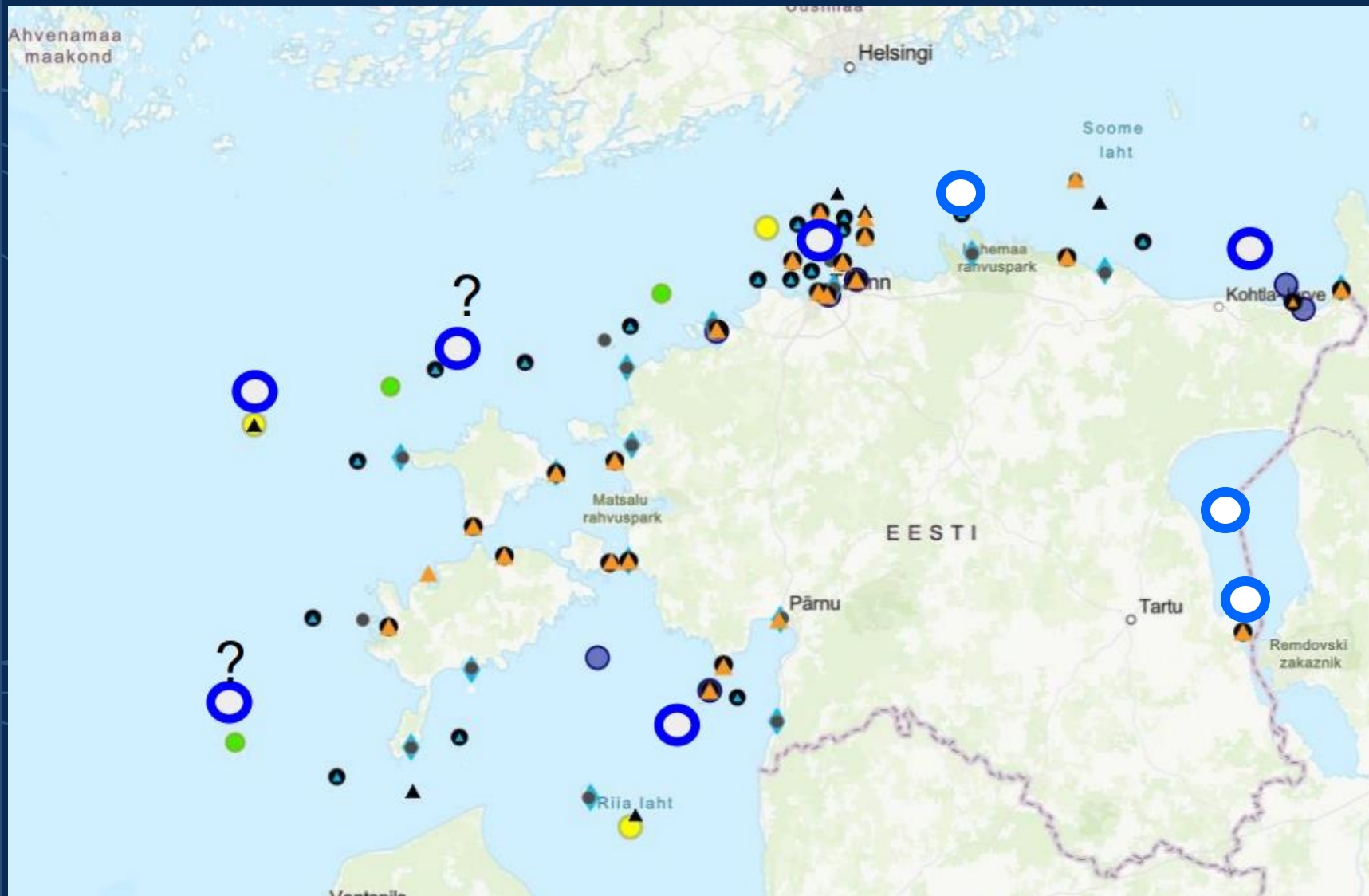


General concept





Possible locations



Platforms can also be reallocated according to need and risk. Depends on the system architecture.



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Sustainability





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European Digital Twin of the Ocean



URSULA VON DER LEYEN
European Commission President

// The ocean is still largely a great mystery for humankind.

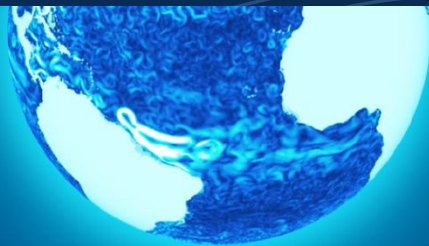
That is why Europe is building a digital twin of the ocean. We are connecting our assets – like the Copernicus satellites, marine infrastructure like icebreakers, buoys and underwater drones, and high-performance computing. We will gather the raw data and turn it into real-time knowledge and longer-term predictions. We are putting the power of the digital revolution at the service of our climate. [...] Thanks to the EU and its Member States, a digital twin should be operational by 2024. It will make ocean knowledge open-access, available to citizens, scientists and policymakers around the world. It will be a platform for global cooperation.





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European Digital Twin of the Ocean



European Digital Twin of the Ocean

An interactive and dynamic digital representation of the ocean for better decision making and sustainable action

- Launched in February 2022
- Make ocean knowledge readily available to all
- International policymakers, national governments and researchers, businesses, activists and citizens
- Innovative set of user-driven, interactive and decision-making tools, backed by science and data



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Estonia's activities



- Retrofit Hub
- Merhunt
- Subsidies for innovative and sustainable solutions (ferries and harbours)





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Cooperation



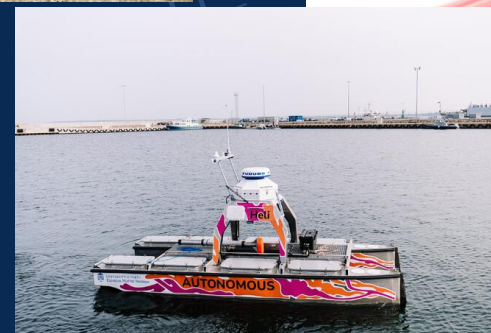
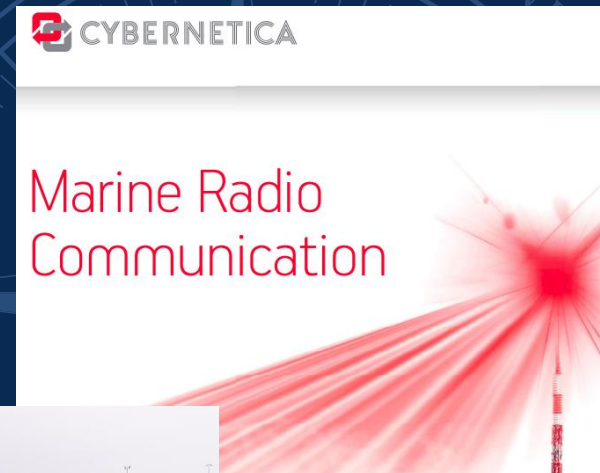


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Estonian capabilities



FLYDOG MARINE
skeleton+



30+
companies



- Formal education
- Research and development
- New innovative solutions
- Cross-border cooperation
- Tradition and agility



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Three points

- Hybrid warfare poses a challenge
- Smart time-efficient solutions for both security and environment
- Strong ties between academia, business and the state





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Thank you!

