DIGITALE TVILLINGER AV HAVET I NORGE

Velkommen og introduksjon til Iliad

Bente Lilja Bye, BLB

Erfaringer fra samarbeid med IOC-UNESCO og deling av industridata

Jo Øvstaas, HubOcean

Statens kartverks havdata og produkter

Njål Tengs-Hagir, Statens kartverk

Introduksjon til met.no havmodeller

Marta Trodahl, met.no

Hypso-1 - norsk satellitt for havdata

Esmee Oudijk, NTNU

Diskusjon/Discussion

Støttet av Forskningsrådet

BLB SINTEF NTNU HUB Ocean

Introduksjon til Iliad - digital twins of the ocean
Bente Lilja Bye, BLB

Bente is Innovation Manager in Iliad - Digital Twins of The Ocean and expert on data management and capacity development

Støttet av Forskningsrådet

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DIGITAL TWINS

Iliad's Digital Twin of the Ocean provides a virtual environment representing the ocean, capable of running complex, predictive management scenarios. The innovative system integrates across discipline, sensors, models, and digital infrastructures.

Interoperable, data-intensive, and cost-effective Digital Twins of the Ocean

ILIAD IN A SEASHELL

Enabling an ecosystem of interoperable digital twins for the ocean trough:
- Connecting to *existing* ocean data infrastructures
- Enhance ocean data infrastructures with *additional* observation technologies and citizen science

Create an open marketplace accessible for all providers and users by:
- Development of *innovative methods* in open frameworks and platforms
- Enable model *evaluations & comparisons* for many Earth science applications from weather, energy, aquaculture to climate and more

Provide solutions to address future societal challenges by:
- Assembling a broad and diverse *user community* of existing and new users,
- Supporting the communities in testing and using the project's *innovative technological solutions*

ocean-twin.eu   /oceantwin   @ocean_twin
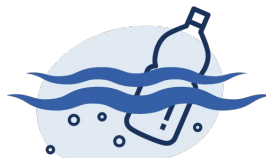
ILIAD DIGITAL TWIN**S** OF THE OCEAN

Existing Wind Farm Capacity

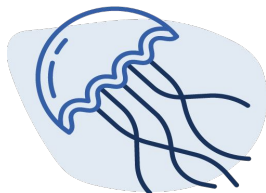Ocean Energy Potential

Coastal Sediment Transport

Plastic Pollution Monitoring

Oils Spill Simulation

Insurance For Marine & Maritime Activities
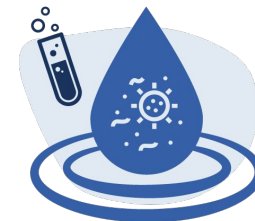
Jellyfish Swarm Forecast

Harbour Safety

Met Ocean Hind, Now & Forecast

Fisheries Productivity & Sustainable Aquaculture

Ballast Water Monitoing

Aquaculture & Harmful Algae, Water Quality & Ship Traffic

ILIAD numbers

▶ **Full name:** Integrated Digital Framework for Comprehensive Maritime Data and Information Services

▶ **Coordinator:** Netcompany-Intrasoft

▶ **Grant Agreement No:** 101037643

▶ **Project start date:** 1. February 2022

▶ **Project end date:** 31. January 2025

▶ **Duration of project in months:** 36

▶ **Overall budget:** 18 956 630 EURO

▶ **EU contribution:** 17 046 230 EURO

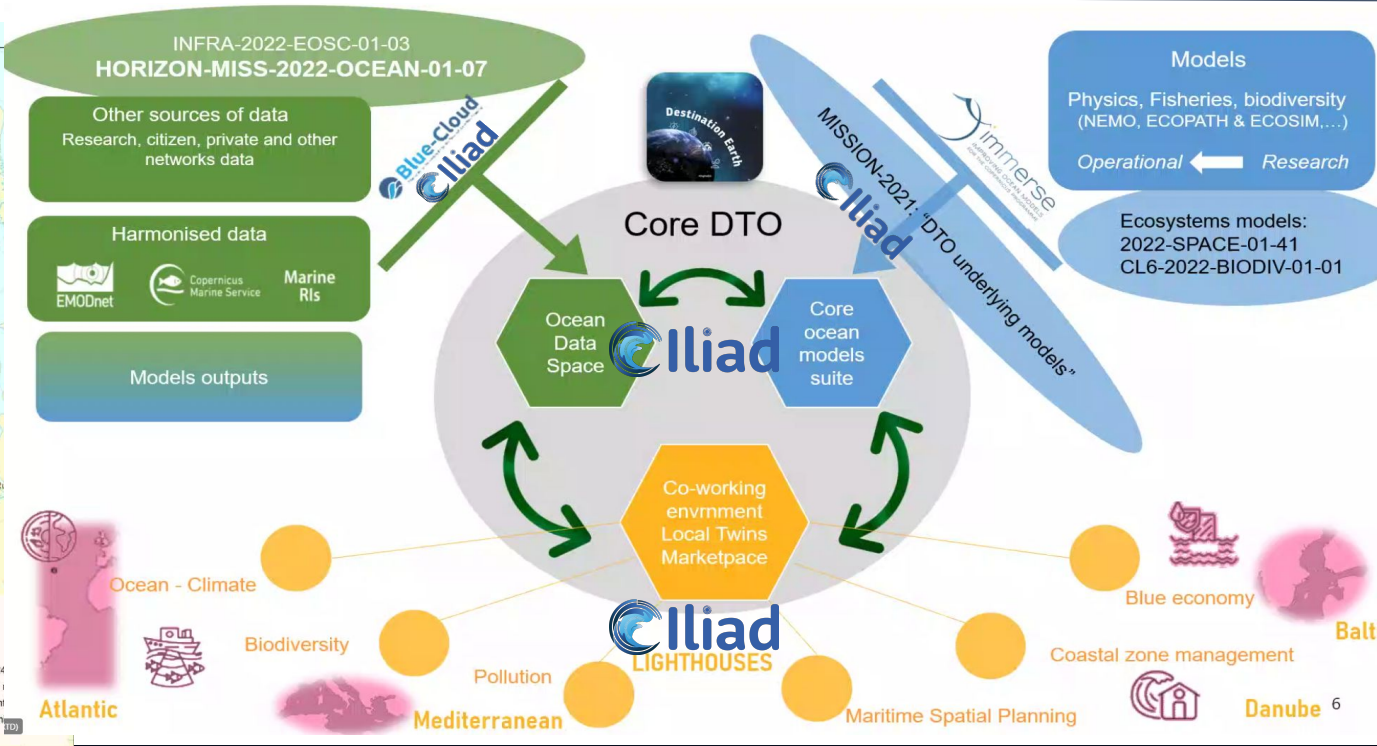▶ **Partners:** 56 + 2 linked third parties

European Green Deal

HORIZON 2020

ILIAD Norge, Europa og verden

Erfaringer fra samarbeid med IOC-UNESCO og deling av industridata
Jo Øvstaas, HubOcean

Jo works with platform/data-innovation at HUB Ocean, a non-profit foundation aiming to become the global hub for ocean data collaboration. With over 20 years of experience at DNV, Jo is an expert in data, technology, and collaboration. Passionate about improving ocean resource management, he holds an MSc in Marine Engineering from NTNU.

Støttet av Forskningsrådet

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Statens kartverks havdata og produkter
Njål Tengs-Nagir, Statens kartverk

Njål works with partnerships and ventures locally, nationally, regionally and globally. Marine Spatial Data Infrastructure is the key needed to unlock the Power of Where. He strongly believes that we must establish close cooperation with stakeholders, customers and partners to establish coherent data supply chains where Norway's national marine and maritime data are core components in the digital ecosystem for business development and management. He is definitely thinking outside the box.

Støttet av Forskningsrådet

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Hypso-1 - norsk satellitt for havdata
Esmée Oudijk, NTNU

Esmée Oudijk is a Ph.D. candidate at the Norwegian University of Science and Technology in Trondheim in the department of Engineering Cybernetics. Her passion is to find a sustainable way to monitor the oceans, because she firmly believes that only if water is monitored and managed wisely it is possible to combine the needs of human activities and ecosystems in a sustainable way. Her work focuses on combining numerical ocean modelling and (hyperspectral) satellite data to overcome temporal and spatial gaps in satellite data and errors in ocean modelling

Støttet av Forskningsrådet

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