



INTEGRATED Digital Framework FOR Comprehensive MARITIME DATA AND INFORMATION SERVICES (ILIAD)

Official site:

<https://www.ocean-twin.eu/>



Project Duration: 36 months (2022-2025)

Funded under: European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101037643

Coordinated by: Netcompany – Intrasoft, Belgium

NIMRD Project Coordinator: dr. Răzvan Mateescu

ILIAD project aims is to assemble as broad and diverse as possible user community of existing and new users, who will use the project's innovative technological solutions to address future challenges.

Iliad Digital Twin of the Ocean – builds on the assets resulting from two decades of investments in policies and infrastructures for the blue economy and aims at establishing an interoperable, data-intensive, and cost-effective Digital Twin of the Ocean.

12 Digital Twin pilots will be undertaken in a number of key areas, led by the existing industrial partners, utilizing existing skills and technologies:

- Wind Energy
- Fisheries & Aquaculture
 - Pollution
- Biodiversity Assessments & Monitoring
- Renewable Energy from the Ocean: Currents, Waves & Floating Solar
 - Marine Traffic & Harbour Safety
 - Met Ocean Data: Hind, Now & Forecasts
- Insurance for Marine & Maritime Activities

ILIAD develops representations designed to accurately reflect changes and processes accruing at the ocean. ILIAD will commercialise an interoperable, data-intensive, and cost-effective model, capitalising the explosion of new data provided by many different earth sources, modern computing infrastructure including Internet of Things, social networking, Big Data, cloud computing and more.

Partnerships

56 partners from 18 different countries in Europe, the Middle East and North Africa. The project partners include industrial companies, end users, academic institutions, research and technology developers and private firms.

Armenia (American University of Armenia Foundation – AUA), Belgium (Eigen Vermogen VH Instituut voor Landbouw- en Visserijonderzoek – EV ILVO, Netcompany-Intrasoft, Open Geospatial Consortium Europe – OGC), Bulgaria (Darzhavno Predpriyatie Pristanishtna Infrastruktura, National Institute of Meteorology and Hydrology – NIMH, Technical University of Varna – TUV), Estonia (Tallinna Tehnikaülikool – TalTech), France (Aseamar, Association Europeenne EURISY, Commissariat à l'énergie atomique et aux énergies alternatives, IEEE France Section, Technip France SA, Thales), Germany (Fraunhofer IGD, Genillard & Co. GmbH), Greece (Aristotle University of Thessaloniki – AUTH, Dimokritio Panepistimio Thrakis, idryma technologias kai erevnas – FORTH), Israel (Agora Partners, Docktech Ltd, Eco Wave Power Ltd, Technion – Israel Institute of Technology, University of Haifa – UH), Italy (Associazione Mediterranea Acquacoltori – AMA, Meteorological and Environmental Earth Observation SRL – MEEO, Terradue SRL, Università degli Studi di Roma La Sapienza – UNIROMA), Ireland (University College Cork – National University of Ireland, Cork – UCC), Morocco (AGIR Association de Gestion Intégrée de Ressources), Netherlands (Ramani B.V, Stichting Breda University of Applied Sciences, Stichting dotSPACE), Norway (Bye Bente – BLB, HUB Ocean, Norges teknisk-naturvitenskaplige universitet – NTNU, SINTEF AS, SINTEF Ocean AS), Poland (Instytut Chemii Bioorganicznej Polskiej Akademii Nauk), Portugal (Hidromod – Modelação em Engenharia, Lda., Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência – INESC TEC, Wave/Offshore Renewables- Centro de Energia Offshore Associacao), Romania (National Institute for Marine Research and Development “Grigore Antipa” – NIMRD, Terrasigna SRL), Spain (Acondicionamiento Tarrasense Asociacion – LEITAT, Alpha Unmanned Systems SL, Centre de Recerca Ecològica i Aplicacions Forestals – CREAM, Consorcio para el Diseño, Construcción, Equipamiento y Explotación de la Plataforma Oceánica de Canarias – PLOCAN, Deimos Space, Sociedad Limitada Unipersonal, Fundación Centro Tecnológico de Acuicultura de Andalucía – CTAQUA, Fundación de la Comunidad Valenciana para la Investigación, Promoción y Estudios Comerciales de Valenciaport, Universitat Autònoma de Barcelona), Tunisia (Regional Activity Centre for Specially Protected Areas, SEA-GUST), United Kingdom (Blue Lobster IT Limited, Earthwatch, The University of Edinburgh – UEDIN)

