

AGENDA

REGISTRATION FORM: [LINK](#)

The link to join the virtual meeting will be sent in advance to all registered participants.

Day 1: Tuesday, 13 January

08:00 – 11:00 CET (15:00 – 18:00 Beijing, 02:00 – 05:00 New York)

14:00 – 17:00 CET (21:00 – 00:00 Beijing, 08:00 – 11:00 New York)

Time	Title	Speaker
08:00-08:30 (30 min)	Welcome and Introductions: Morning Block	
08:00-08:15 (15 min)	Welcome and Introduction to the DITTO Online Event	Fei Chai Xiamen University
08:15-08:30 (15 min)	EDITO Program Overview- Morning	Joanna Staneva HEREON
08:30-09:30 (1 hour)	Focus Topic: WG2	
08:30-08:45 (15 min)	Development of Operational Coastal Ocean Digital Twins based on JCOPE	Swadhin Behera JAMSTEC
08:45-09:00 (15 min)	Global Upper Ocean Marine Heatwave Climatology in Coupled GFDL Climate Models	Xinri Liu WPI-AIMEC, Tohoku University
09:00-09:15 (15 min)	The European Digital Twin Ocean: Integrating Data, Models, and AI for Sustainable Ocean Management	Marina Tonani MOi
09:15-09:30 (15 min)	AI-Driven Digital Twins for Coastal Resilience: Leveraging VHR Satellite Data for Flood Simulation in Trinidad and Tobago	Jumpei Takami United Nations Office for Outer Space Affairs
09:30-10:00 (30 min)	Focus Topic: WG3	
09:30-09:45 (15 min)	Interoperability for Coastal Water Digital Twins with Ocean and Inland Waters	Arne Berre SINTEF
09:45-10:00 (15 min)	Trustworthy GEO AI services for environmental digital twins	Piotr Zaborowski OGC Europe

10:00-10:45 (45 min)	Focus Topic: All WGs	
10:00-10:15 (15 min)	Strategic Integration Across the Ocean Value Chain Through Regional Digital Twins contributing to DITTO	Joaquin Tintore IMEDEA (CSIC-UIB)
10:15-10:30 (15 min)	Activating Marine Biodiversity Data for the European Digital Twin of the Ocean: The DTO-BioFlow Approach	Matthias Obst University of Gothenburg
10:30-10:45 (15 min)	Digital Twin of Seamount Habitat for Science and Sustainability	Yuntao Wang Second Institute of Oceanography, Ministry of Natural Resources
10:45-11:00 (15 min)	Group Discussion	
11:00-14:00 (3 hours)	BREAK	
14:00-14:15 (15 min)	Welcome and Introductions: Afternoon Block	
14:00-14:15 (15 min)	EDITO Program Overview- Afternoon	Joanna Staneva HEREON
14:15-15:30 (1 hour 15 min)	Focus Topic: WG1	
14:15-14:30 (15 min)	The Caspian Sea Digital Twin	Andrey Kostianoy Russian Academy of Sciences
14:30-14:45 (15 min)	Adding the function of ocean observing evaluation/design to Japanese DITTO by SynObs	Yosuke Fujii JMA/MRI, JAMSTEC
14:45-15:00 (15 min)	Federated Data Architectures: Enabling Right-Time Data for Digital Twins	Tom Mansfield Plymouth Marine Laboratory
15:00-15:15 (15 min)	Data-muling using AUVs with wireless optical communication	Alexander Bahr HYDROMEA SA
15:15-15:30 (15 min)	Observing the Ocean Using Artificial Intelligence	Katherine Shaw Fisheries and Oceans Canada / Government of Canada
15:30-16:45 (1 hour 15 min)	Focus Topic: WG2	

15:30-15:45 (15 min)	Adaptive Digital Twin Ocean Framework for Coastal Ocean Resilience	Juliane Wihsgott Plymouth Marine Laboratory
15:45-16:00 (15 min)	Combining machine learning and data assimilation to improve phytoplankton forecasts on the North-West European Shelf	Jozef Skakala Plymouth Marine Laboratory
16:00-16:15 (15 min)	Digital Twin of the Ocean off east coast of Canada for Marine Conservation	Hui Shen Fisheries and Oceans, Canada
16:15-16:30 (15 min)	AI4PISCES: Deeplearning Emulator for Biogeochemical Modelling	Nabiz Rahpoe Barcelona Supercomputing Centre
16:30-16:45 (15 min)	From Packaging to Execution: Application Packages for Discoverable, Interoperable and Reusable Ocean Twins	Artur Rocha INESC TEC
16:45-17:00 (15 min)	Group Discussion	
17:00	Closing of Day 1	

Day 2: Wednesday, 14 January

08:00 – 11:00 CET (15:00 – 18:00 Beijing, 02:00 – 05:00 New York)

14:00 – 17:00 CET (21:00 – 00:00 Beijing, 08:00 – 11:00 New York)

Time	Title	Speaker
08:00-08:15 (15 min)	Welcome and Introductions: Morning Block	
08:15-09:15 (1 hour)	Focus Topic: WG2	
08:15-08:30 (15 min)	Regional Essential Ocean Variable Reconstruction with SHRED	Jeffrey Harris ENPC
08:30-08:45 (15 min)	A graph-based GIS data model in geospaital digital twin	Cunjin Xue Chinese Academy of Sciences
08:45-09:00 (15 min)	Digital Twins of the Ocean for a Sustainable Blue Economy	Johannes Pein HEREON
09:00-09:15 (15 min)	EDITO Model Lab Validation Toolbox: a standardized and reproducible framework for ocean model performance assessment	Camilo Melo-Aguilar SOCIB
09:15-09:30 (15 min)	Focus Topic: WG3	
09:15-09:30 (15 min)	Digital Twins of the Ocean for Guangdong-Hong Kong-Macau Great Bay Area	Chuyong Lin Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai)
09:30-10:00 (30 min)	Focus Topic: WG4	
09:30-09:45 (15 min)	SCOast-DT: Creation and deployment of Space-based Digital Twins of Coastal Zones	Vincent Lonjou CNES
09:45-10:00 (15 min)	Demonstration of Digital Twin System for Smart Aquaculture in Sansha Bay	Nengwang Chen Xiamen University
10:00-10:45 (45 min)	Focus Topic: All WGs	
10:00-10:15 (15 min)	Developing Resilience and Climate Adaptability	Billy Ogutu PICKOUN
10:15-10:30 (15 min)	Nature-based Solutions in the European Digital Twin of the Ocean	Joanna Staneva HEREON

10:30-10:45 (15 min)	Digital Twin prototype developed for the 2025 EDITO Model Lab Hackathon: Identifying Suitable Offshore Renewable Energy Sites off the Coast of Ireland	Michael Arrigan Marine Institute, Ireland
10:45-11:00 (15 min)	Group Discussion	
11:00-14:00 (3 hours)	BREAK	
14:00-14:15 (15 min)	Focus Topic: WG3	
14:00-14:15 (15 min)	AI Agents as an Integration Layer for Interoperable Ocean Digital Twins: Connecting Knowledge, Models and Services	Miguel Charcos-Llorens SOCIB
14:15-15:15 (1 hour)	Focus Topic: WG4	
14:15-14:30 (15 min)	Connecting the DOTs - An exploratory study of global activities and collaboration potential for Digital Ocean Twins	Sigmund Kluckner Independent
14:30-14:45 (15 min)	The SURIMI project: onboarding a modelling complex on the European Digital Twin of the Oceans	Jeroen Steenbeek Ecopath International Initiative
14:45-15:00 (15 min)	Socio-economical Architecture for Digital Twins of the Ocean	Lara Veylit SINTEF Ocean
15:00-15:15 (15 min)	Standards and Practices for Digital Twins of the Ocean	Sigmund Kluckner IEEE France
15:15-15:45 (30 min)	Focus Topic: WG5	
15:15-15:30 (15 min)	ILIAD Academy Courses on Digital Twins of the Ocean	Bente Lilja Bye BLB
15:30-15:45 (15 min)	Pilot Digital Twins for water pollution in Africa: the case of Laginha beach (São Vicente, Cabo Verde)	Marta Rodrigues LNEC
15:45-16:45 (30 min)	Focus Topic: All WGs	
15:45-16:00 (15 min)	DITTO for Coastal Ecosystems	Mark Capron OceanForesters
16:00-16:15 (15 min)	DATAz	Telmo Dias Instituto Hidrográfico
16:15-16:30 (15 min)	AtlanticSENSE is a Geospatial Multi-Hazards Information System designed to provide decision-makers with actionable insights into coastal hazards and temperature extremes	Ana Oliveira CoLAB +ATLANTIC



DITTO Online Event
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16:30-16:45 (15 min)	Group Discussion
16:45-17:00 (15 min)	Closing of DITTO Online Event