

2 - 13 JUNE 2025



Our Integrated Marine Debris Observing

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Welcome Notes

Henri Landes Master of Ceremony



Inspire the EU and the ocean value chain: global mobilization

SESSION FLOW

18:00

Welcome Notes

18:05

The Integrated Marine Debris Observing System

Alex Turra IMDOS co-chair 18.15

Take-away messages from the blue-zone

Jana Friederich IAEA

18.25

ECOPs GESAMP GOOS IAEA IOC **IOCCP UNEP**















Global Partnership on Plastic Pollution and Marine Litter



The Advisory and Sponsors Committee

GEO Blue Planet

Mercator Ocean **UN** Decade

18:40

Signature

"Declaration of Common Purpose" by the Advisory and Sponsors Committee











The Integrated Marine Debris Observing System



Alexander Turra

University of Sao Paolo IMDOS co-chair





https://imdos.org/

info@imdos.org

I. A diversity of Marine Debris

- **Transboundary issue** : found from pole to pole, from coastal shores to the depths of the oceans.
- Multi-dimensional problem with environmental, cultural, economic, and human health risks and associated costs
- Variety in forms and size, from fishing gear to cosmetic microbeads.
- **Different polymer composition**, with additives and can be associated with pathogens.





I. Heterogeneity in Marine Litter data



Leading to <u>non-unified</u> datasets and <u>no comparability</u>



Mostly project-based, not operational observations

- Remote sensing incl. satellites, drones, ROVs
- Sparse in situ sampling campaigns Local citizen science events
- **Diverse laboratory protocols**

II. Birth of IMDOS

OCEANOBS'19 technical recommendations on monitoring harmonization (Maximenko et al, 2019)

STARTED IN 2021

IMDOS developed as a joint initiative :

- the Group on Earth Observations (GEO) Blue Planet,
- the Global Ocean Observing System (GOOS)

In partnership with :

 the UNEP Global Partnership on Plastic Pollution and Marine Litter (GPML)

Collaboration and science are at the core of IMDOS







The Global Ocean **Observing System**





II. IMDOS Vision



OBSERVATIONS REQUIREMENTS





Our Vision

A globally coordinated and sustained observing system of marine debris addressing knowledge gaps and diverse stakeholder needs with adequate data and information.

RESEARCH

II. IMDOS Missions

Our Mission

Provide coordination and guidance to lead the marine debris community in establishing a **sustained global observing** system and facilitating open access to data.

- - open
- \rightarrow Informed **indicators**



\rightarrow Harmonized **standards** → Standardized **data** : adequate, FAIR and

→ Federated **data management systems** →Feed the **GPML Digital Platform** and **Digital Twin of the Ocean**

III. Coordination and co-design

- Builds on **existing initiatives** incl. IOC-UNESCO, UNEP, G7/G20 countries, GOOS, IODE
- Integrates existing **data harmonisation** guidelines: incl. AOMI-MOEJ, EMODnet, NOAA, NUTEC
- Covers the Earth Observation value chain : remote sensing, in-situ, modelling, indicators, data to policy...
- Targets users' needs: research community and policymakers.





IMDOS supported several co-design workshops :

Narine Debris in the Atlantic Ocean

VIRTUAL EVENT 3 June 2021 11:30 - 13:30 UTC

One Integrated Marine Debris Observing System for a Clean Ocean

Satellite Activity of Ocean Decade Lab: A Clean Ocean

Integrating Marine Litter Monitoring to Inform Action a global instrument to address a global pollution une 29th 2022 – Centro Cultural de Cascais, Portug 29-31 AUG DATA HARMONIZATION 2023

III. IMDOS Steering Committee

Advisory & Sponsors Committee

High level strategic directions and connections, composed of ex-officio seats from 10 international org.

Implementation Committee

Coordination of IMDOS activities, composed of 20 Task Teams co-chairs from 17 institutes of 12 countries



Steering Committee meeting #1 - January, 8th 2025





Advisory and Sponsors Committee

INTEGRATED MARINE DEBRIS OBSERVING SYSTEM

Thank you!!



Restitution of the Blue-zone event "Combatting Marine Pollution, including Plastics, Through Innovative International Action" by **IAEA and Surfrider**



Jana Friederich

IAEA Laboratory Head





Addresses from our Advisory and Sponsors Committee members Towards the signature of the "Declaration of Common Purpose"

Audrey Hasson





MERCATOR OCEAN INTERNATIONAL







Heidi Savelli-Soderberg

On behalf of Natalie Harms



Global Partnership on Plastic Pollution and Marine Litter









Marc Metian









Joanna Post



Global Ocean Observing System







Francois Galgani

On behalf of Kirsten Gilardi



GESA Joint Group of Exp Scientific Aspects Environmental Pro





Shungu Garaba











UNITE OCEAI NICE,



Evgeniia Kostianaia

On behalf of Mafalda de Freitas







Alexander Turra



2021 United Nations Decade of Ocean Science for Sustainable Development







Signature of the Declaration



Audrey Hasson





Alexander Turra







Evgeniia Kostianaia

On behalf of Mafalda de Freitas





Joanna Post





Marc Metian



Francois Galgani

On behalf of Kirsten Gilardi





Heidi Savelli-Soderberg

On behalf of Natalie Harms



Declaration of Common Purpose



11 June 2025 - Nice, France

Recognizing the growing demand for scientifically qualified data by the research community, policy and decision makers, and the private sector, we acknowledge that establishing a global monitoring system is a priority for assessments, setting evidence-based targets, and implementing and monitoring the impacts of actions.

At present, global estimations of the scale and impact of marine debris pollution are constrained by the lack of common standards, definitions, and monitoring methodologies. We therefore recognise the urgent need for coordination and standardisation of marine debris monitoring.

We, the members of the Advisory and Sponsors Committee of the Integrated Marine Debris Observing System (IMDOS), reaffirm our shared vision to establish a globally coordinated and sustained observing system for marine debris that fills knowledge gaps and delivers adequate and reliable data and information for all stakeholders.

The success of IMDOS relies on our collective engagement and shared vision.

In line with the IMDOS Strategy, we express our ambition to facilitate coordination and guidance that will enable the marine debris community to establish a sustained global observing system and facilitate open access to data.

United in purpose, we lead efforts to advance marine debris monitoring, promote sustainable practices, and enhance global cooperation. With the support of the IMDOS community, we are working together to promote a collaborative, multi-stakeholder approach to advancing knowledge on marine debris pollution, while directly contributing to Sustainable Development Goal (SDG) 14.1 to prevent and significantly reduce marine pollution of all kinds by 2030.



IMDOS

INTEGRATED MARINE DEBRIS **OBSERVING** SYSTEM





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THANK YOU





The success of IMDOS relies on our collective engagement and shared vision.























5:00 PM



REGISTRATION OPEN



Official Side-event



Location: Mama Shelter, Nice + online

- Date: Thursday, 12 June **...**
- () Local Time: 17:00–18:30

coffee will be served at 16:30 event followed by a cocktail dinner



