The role of IMDOS in supporting the Global Partnership on Marine Litter (GPML) Digital Platform

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Global Challenges & Solutions Needed

From **Duplication and lack of data and information**
  → To integrated Knowledge and Data

From **Lack of harmonization**
  → To promoting unified approaches

From **Lack of coordinated action**
  → To a common framework to develop and implement Action Plans and measure progress

From **Lack of ad hoc and regular collaboration among Stakeholders**
  → To co-developed solutions

How?

The GPML is working with a wide range of Partners to create a common Digital Platform that brings together curated data, information, and innovative technologies and convenes stakeholders across sectors to give access to all.
Multi-stakeholder Engagement
Communities of Practice

- Informal communities who meet regularly to discuss good practices or contribute to a project
- Three types
  - Geographic
  - Topical
  - Cross-cutting

Centers of Excellence

- Formal entities responsible for establishing good practices, contributing to data governance, and creating technical links to the GPML Digital Platform
- Two types
  - Geographic ("Regional Center")
  - Topical ("Research Center")
INDICATORS

- National Source Inventories on Marine Litter and Plastic Pollution
- Identifying and Recommending National source inventories & beyond
- Three-dimension indicators – economy, environment, social
- Working with 8+ countries to pilot the approach
- Join if interested!

NATIONAL SOURCE INVENTORIES & ACTION PLAN WORKFLOW

- **STEP 1** MAPPING AND BASELINE STUDY
- **STEP 2** COORDINATING MECHANISM AND STAKEHOLDER ENGAGEMENT
- **STEP 3** INFORMATION SHARING
- **STEP 4** CREATE ACTION PLAN AND RELATED SCIENCE-POLICY PRODUCTS
- **STEP 5** REPORT ON ACTIONS AND MEASURE PROGRESS AND IMPACT
DATA HUB

Map & Layers
Dashboard & Analytics
Data Catalogue
Data Content
Story Maps
+ Data Communities
Estimate macro plastic litter load along all major rivers for the next 9 months.

Support national authorities **identify and prioritize:**

- where the problem is
- where it is originating
- how to intervene
Tracking Marine Litter With a Global Ocean Model

Where Does It Go? Where Does It Come From?

The global marine plastic waste tracking simulations are designed to address the following questions:

1. Where does the marine plastic waste go once released into the ocean?
2. Where does the marine plastic waste found on the coast come from?

Global statistics available from the GPML data hub

Current work: Development of a probabilistic atlas of stranding time and locations of marine litter originating from the Wider Caribbean Sea region to document:

a) the location and the type of plastics leaked in the environment,
b) travel pathways as a function of seasons,
c) where the plastic litter ends up,
d) how useful is the model to address infrastructure gaps, and
e) how can waste management be strengthened.

The global marine plastic waste tracking simulations include the following three components:

1. Particle seeding that represents realistically the input of the mismanaged plastic wastes (MPW) into the ocean.
2. High-resolution global ocean circulation and wind data.
SDG11.6.1 Global Estimate


https://plasticpollution.leeds.ac.uk/toolkits/

BETA RELEASE
Thank you

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