GPML data harmonisation









What is GPML?

- Global Partnership on Plastic Pollution and Marine Litter
- A multi-stakeholder partnership bringing together actors working on marine litter and plastic pollution prevention and reduction
- Central part of GPML's work is the Digital Platform
- Focus today on data harmonization and the microplastic data available in the platform

GPML Digital Platform



GPML Digital Platform

Data and knowledge hub for informed and evidence-based actions among stakeholders



Knowledge hub

Facilitate learnings through sharing best practices, case studies, guidelines, tools, technical resources, training courses, masterclass, etc.



Data hub

Showcase quality assured data throughout the plastic lifecycle collected and visualized. National dashboard to support source inventory development and measuring progress.



Partners hub

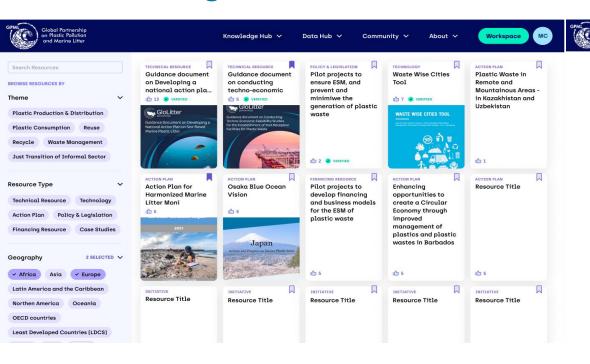
Facilitate networking with likeminded individuals and organizations for consorted and coordinated actions. Window for joining the GPML network is also provided here.



Workspace

Workflow to support countries in developing national source inventory towards national strategy/roadmap/action plan with step-by-step guide and data and knowledge materials.

Knowledge Hub

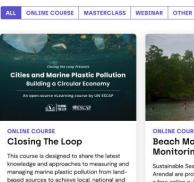




regional goals related to sustainable

development.

Global Partnership on Plastic Pollution





Knowledge Hub V

Beach Macro Litter Monitoring E-Course Sustainable Seas Trust (SST) and GRID-

Arendal are proud to announce the launch of a free online e-learning course for citizen scientists, focusing on marine plastic pollution. The course is based on SST's African Marine Litter Monitoring Manual 2022 Edition, developed with experts across the Western Indian Ocean (WIO) region to build capacity regarding monitoring marine plastic pollution in Africa.







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ONLINE COURS Marine Lit Pollution (

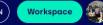
The course inform reports on waste economy, as well studies. The met UNITAR's Guidane implementing na management sys national waste m moving from cha







Data Hub V



TOPICS

Waste Management

Plastic in the Environment

Ocean and Coast

Floating microplastics, extra fine sampling method

Global Partnership on Plastic Pollution

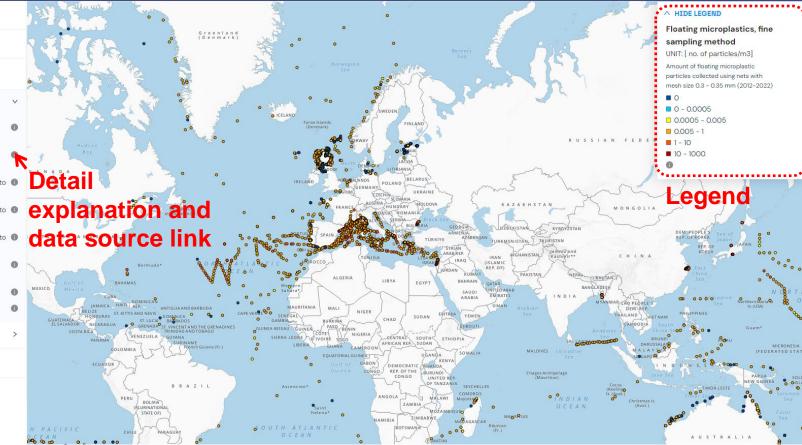
and Marine Litter

- Floating microplastics, fine sampling method
- Mismanaged plastic waste escaping to beaches
- Mismanaged plastic waste escaping to oceans
- Mismanaged plastic waste escaping to 1 oceans and coasts
- Mismanaged plastic waste from the ocean reaching national coasts
- Plastic beach litter per 100 m
- Plastic beach litter per km²

Biota

Plastic Governance

Plastic Trade



NATIONAL DASHBOARD

Global Partnership on Plastic Pollution

Senegal

Overview

Trade

Waste Management

Legacy Plastics

Governance

Development ongoing

Compare countries data on in a map view

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View global data

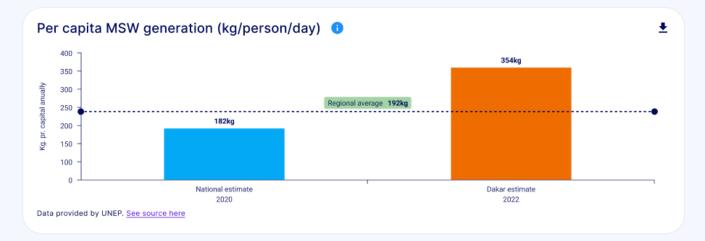
SENEGAL

Waste Management

An estimated 3.209.000 tonnes of municipal solid waste (MSW) were generated in Senegal in 2020, of which [no data]% is collected and [no data]% is recycled. The estimated municipal solid waste generation per capita at the national level in Senegal is 0.5 kg per person daily, 95% is collected.

51.463 tonnes of plastic waste were recorded as generated in the waste composition survey in Dakar in 2022. Primary data collected in Dakar on the MSW generation indicate that the amount of plastic waste generation from MSW annually per capita was **354** kg.

It was estimated that 39% of the generated plastic waste in Dakar was leaking from the MSW management system into the environment in 2022.





Data last updated: 02-20-22

Request Data Update

NATIONAL SOURCE INVENTORY Country A

0% C	OMPLETE
	Forum

Instructions

National Steering Committee & Project Team

0/2 ~

0/2 🗸

Stakeholder Consultation 0/5 🗸

State of Knowledge on 0/5 🗸

Legislation & Policy 0/5 🗸 **Review Report**

National Source Inventory

National Plastic Strategy 0/2 🗸

Final Review

Introductions

This workflow tool has been created to assist your team with the development of a plastics strategy for your country. Some key steps are suggested for consideration while in the 'create' phase. The workflow will be further developed to assist with the phases of 'implement', 'report', and 'review'.

The workflow and resources associated with each suggested step are designed to facilitate and accelerate the activities of the 'create' phase of your plastic strategy. Such resources include data, documents, templates, case studies, relevant organizations (governmental and non-governmental) as well as individuals active in the space.

Step 1: Establishment of a National Steering Committee & Project Team

This step assists in the establishment of a National Steering Committee (NSC) with representation from necessary government agencies as well as relevant non-governmental organizations. The NSC should aim to meet 2-4 times per year to assist with and drive the roadmap/strategy/plan. A project team should be established to assist the NSC, consisting of consultants and focal points, to lead the implementation of the project with the guidance of the NSC and UNEP.

Step 2: Stakeholder consultation

Consultation should aim to understand the current issues faced by various stakeholders, as well as their role in solving the problem (actors) and how proposed activities of the national plastics strategy may affect them positively or negatively. Different stakeholders may also have access to important data. This step of the workflow provides guidance on organizing a comprehensive stakeholder consultation process to ensure all relevant sectors and stakeholders are consulted.

Step 3: State of Knowledge on Plastic Data

Data is at the core of understanding the issues and current state of play, as well as the tracking of trends to determine effectiveness of the national plastics strategy. This step will help in compiling existing data and information into a State of Knowledge Report. This could include identification of areas in need of additional data collection, leading to additional secondary data collection.

Step 4: Legislation & Policy Review and Analysis

An analysis of the legal and policy framework in your country can help identify current goals and targets that the national plastics strategy should aim to achieve, as well as gaps in this framework that the strategy could help close. This allows for the identification of priority areas to track and the type of data needed to do so. In this stage, together with UNEP's guidance, a review and analysis of the legislative and policy landscape as it pertains to marine litter and plastic pollution would be conducted

Mark as Completed

Data Harmonisation



GPML data work

- Database of plastic data relevant for decision makers, covering the entire plastic life cycle
- Including microplastics data, but also many other types of data
 - Currently two microplastics layers based on data fra EMODnet, MOEJ, and NOAA
- Do not monitor data but collect and show data from other sources
- Input from experts very important

Data Harmonisation CoP

















































Convention on Biological Diversity







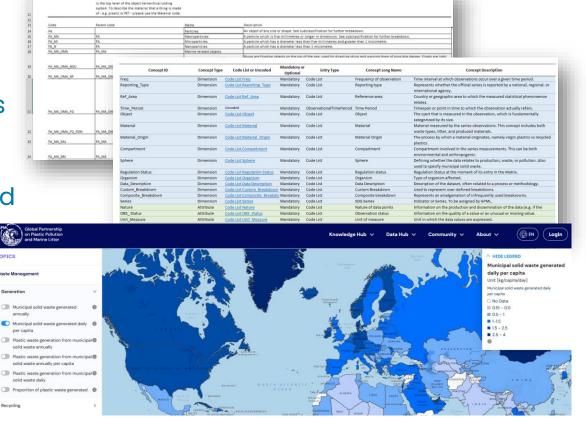




Data harmonisation matrix

 Data harmonization matrix to support harmonising diverse datasets across various dimensions of plastics lifecycle

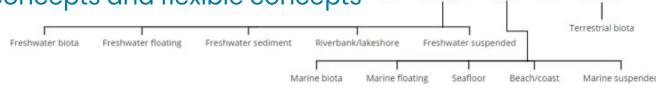
Indicators uploaded and visualized in the GPML Data Hub covering all aspects of plastics



gives the most detailed and accurate description. A fundamental aspect of the object is its size, and size

Data harmonisation matrix

- Based on strategy adopted for SDG reporting
- Each observation uniquely identified
- Storing essential information about the data point
- Suitable for qualitative and quantitative data at global, regional, national and sub-national levels
- Foundation for indicators calculation database main focus on data issued at country-level
- Columns with different concepts, defined by codes with internal hierarchy
- Some free-text concepts and flexible concepts



Freshwater

Terrestrial



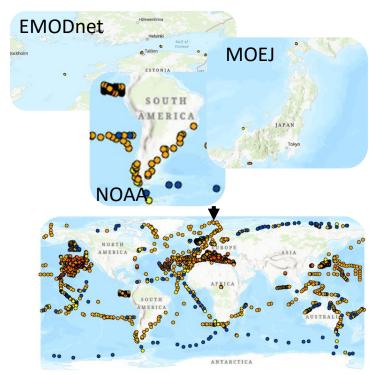
Harmonised microplastics dataset

EMODnet: Floating microplastic in oceans primarily around Europe

Ministry of
Environment Japan:
Floating microplastic ir
oceans surrounding
Japan

NOAA: Floating microplastic in oceans surrounding USA

Harmonized dataset of floating microplastic based on three different underlying datasets



Nets w. mesh size 0.300-0.335 mm, 2012-2022

Challenges in harmonising microplasitc datasets

- Which data are comparable?
- Which information needs to be tracked?
- How do we find the balance between retaining the important metadata, but also showing information at a level that can be taken in by decision makers?
- Different levels metadata by different data providers
- Even within data from the same data providers, there may be data points which should not be visualised in the same layer

Microplastic data in the Data Hub



