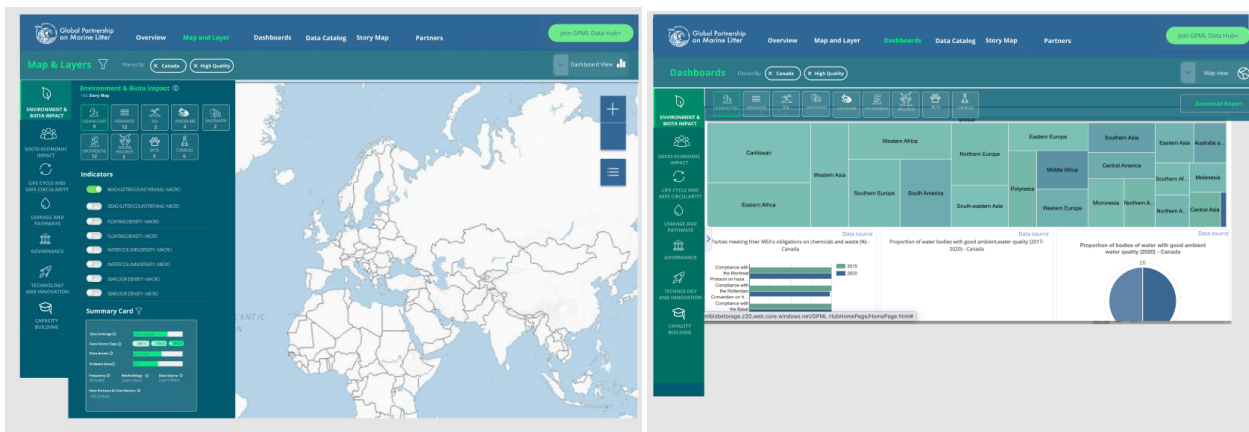


1. Objectives

A successful Data Harmonization aims to aggregate current data layers available in the GPML Data Hub to indicators to provide tools to monitor progress for country, regional and global reporting.

The indicators will be made available through the GPML Digital Platform, where users can select a dimension and the relevant indicators are displayed, as shown in the figures below. The data harmonization exercise will provide a systematic reporting method or matrix on data used to determine indicators, so that information on the data (e.g. type, availability) is displayed on the Summary Card, and Dashboards can be populated.



2. Data Harmonization process

There are two aspects to the data harmonization process: one that involves the harmonisation of individual indicators and one that concerns the harmonization of different indicators so they can be combined into higher level scores:

1. Harmonization of spatially disaggregated data to generate globally consistent data layers for each individual indicator.
2. Harmonisation in terms of scaling, weighting, and aggregating the individual indicators into combined scores for the issue categories (Level 2), then into the dimensions (Level 3) and finally into an overall ML score.

At this stage it is not clear to what extent the CoP Data Harmonisation assignment will focus on both aspects or whether the priority is to look only at the harmonisation of the individual indicators.

3. Role of Co-leads and CoP

The starting point for the data harmonization exercise is the current list of dimensions and indicators and a simplified version of [the matrix used for SDG reporting](#) (see section Section 5)

The role of the Community of Practice and especially Co-leads is to provide inputs and feedback on:

- Which indicators should be calculated for each dimension;
- How current data layers (from the SDG data we have) can be integrated to calculate the suggested indicators;
- Provide support to populate the data harmonization matrix and identify experts in their field who can contribute

4. Next steps and timeline

The suggested next steps below are based on the discussion and outputs from the CoP Kick off workshop which took place on the 27th of January 2022.

Activity 1: Mapping Exercise		
1.1	UNEP-DHI develops a first draft of the data harmonization matrix based on the SDG matrix.	Mid-March 2022
1.2	UNEP-DHI populate the data harmonization matrix using freshwater indicators from the initial list of indicators as a pilot phase	Mid-March 2022
Activity 2: Data Visualization - Harmonization		
2.1	Initiate the dialogue with freshwater Co-leads (UNEP-DHI and UGA) with the aim of: • reviewing the list of suggested freshwater indicators • identify gaps • calculate the indicators based on currently available data • populate the matrix	End of March – April 2022
2.2	Review process with freshwater Co-leads before proceeding with other dimension groups. Integrate a few examples from Freshwater onto the GPML Platform	End April 2022
2.3	Roll out to all dimensions through Co-leads. - Small workshops with co-leads from each dimension on integrating data - Capacity building for CoP on how to integrate additional data from network of experts	May – July 2022
2.4	Data visualization at indicator level of six dimensions on the data hub	September 2022
2.5	Best practices developed and roll-out for further integration of additional dimensions	tbd

Activity 3: Integration with action planning /national source inventories		
	To be determined	

5. Suggested Indicators

The table below summarizes the list of indicators for the six chosen dimensions that are currently available in the Digital Platform, the aggregation levels and inputs for the matrix to be used for Data Harmonization. This list of indicators will form the basis for activity 2 and is expected to be revised with inputs from CoP co-leads.

LEVEL 1	LEVEL 2	LEVEL 3	Source	Coverage (g=global, r=regional n=national)	Source (m=model, e=estimate, c=country data)
Environment and biota impact	Ocean and coast	Beach litter count per km2 - macro			
		Beach litter count per km ² - micro			
		Floating density - macro			
		Floating density - micro			
		Water column density - macro			
		Water column density - micro			
		Seafloor density - macro			
		Seafloor density - micro			
	Freshwater	Water surface and water column - macro			
		Water surface and water column - micro			
		River sediments - macro			
		River sediments - micro			
		Riverbanks - macro			
		Riverbanks - micro			
		Water surface and water column - macro			
		Water surface and water column - micro			
		Sediments - macro			
		Sediments - micro			
		Shores - macro			
		Shores - micro			

Data Harmonization Community of Practice
Objectives and next steps – 16th of February 2022

	Biota	Marine - ingestion			
		Marine - entanglement			
		Marine - behaviour and reproduction			
		Freshwater - ingestion			
		Freshwater - entanglement			
		Freshwater - behaviour and reproduction			
		Terrestrial - ingestion			
		Terrestrial - entanglement			
		Terrestrial - behaviour and reproduction			
	Chemicals	Marine			
		Freshwater			
		Soil			
		Air			
		Landfill leachate			
	Wastewater				