

# Harnessing Data for National Source Inventories for Plastics

# The GPML and the Global Plastics Hub



<https://globalplasticshub.org/>

## Global Partnership on Plastic Pollution and Marine Litter (GPML):

- The largest global multi-stakeholder partnership addressing plastic pollution and marine litter
- Unites governments, civil society, academia, private sector
- Steering Committee, UNEP provides secretariat support

## Global Plastics Hub (formerly the Digital Platform)

- Mandated by UNEA resolution 4/6
- Largest open-source, crowd-sourced platform on plastics
- Access to technical resources, good practices, data, network
- Connects stakeholders and integrates data to coordinate action
- Facilitate target setting and measuring progress

# The Global Plastics Hub

*The global crowd-sourced open-access platform on plastics*



KNOWLEDGE HUB

**2800+**

Technical resources, good practices, case studies, guidelines, tools, training courses etc.

Showcase your solutions!

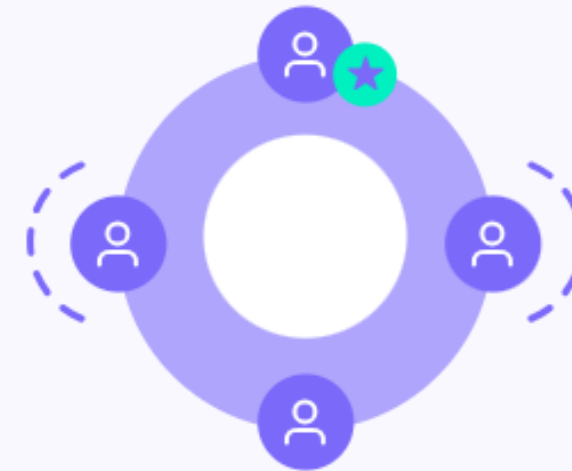


DATA HUB

**80+**

Indicators from global datasets visualize plastics in the economy, in waste management, legacy plastics

Use your country dashboard to visualize data and track progress!

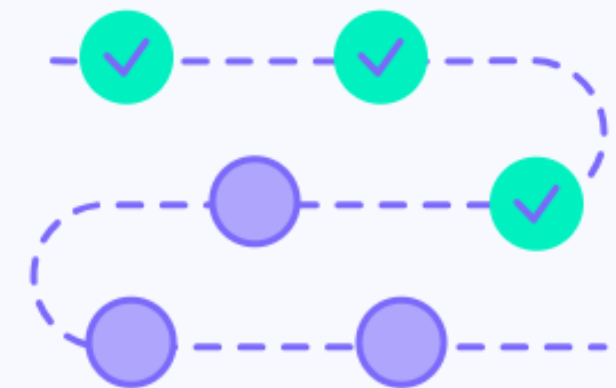


COMMUNITY HUB

**2000+**

Stakeholders and organizations connected to facilitate networking for collaborative action

Connect with our network!



COUNTRY WORKFLOW

Step by step guidance for countries to develop **evidence-based national action plans / strategies**

# Knowledge Hub

Showcases over 2,800 resources



Global Partnership  
on Plastic Pollution  
and Marine Litter

Knowledge Hub ▾Data Hub ▾Community ▾

Search Resources

BROWSE RESOURCES BY

Life Cycle Stage ▾

ProductionConsumption

Waste ManagementLegacy Plastics

Full Life Cycle

Resource Type ▾

ProjectTechnical Resource

TechnologyAction PlanLegislation

Financing ResourceCase Study

InitiativeEventData Portal

Geography ▾

AfricaAsiaEurope

Latin American and Caribbean

Least Developed CountriesLLDCs

SIDs

Countries


Keywords ▾

Keywords

Most Recent First ▾

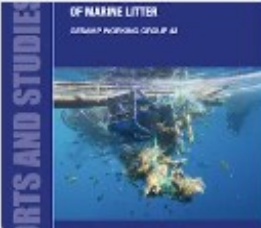
TECHNICAL RESOURCE

Gear marking pilot study in Indonesian small-scale gillnet fisheries with...




TECHNICAL RESOURCE

Sea-Based Sources of Marine Litter. GESAMP Working Group 43.




TECHNICAL RESOURCE

Operationalization of FAO Voluntary Guidelines for the Marking of Fishing...




TECHNICAL RESOURCE

Voluntary Guidelines on the Marking of Fishing Gear – Manual for the...




TECHNICAL RESOURCE

Voluntary Guidelines on the Marking of Fishing Gear – A framework for...




ACTION PLAN

Sénégal - Plan d'Action National (PAN) de lutte contre les Engins de Pêch...




TECHNICAL RESOURCE

Voluntary Guidelines on the Marking of Fishing Gear / Directives...




TECHNICAL RESOURCE

Guidance Document on Development of National Action Plan on Sea-Based Mari...




TECHNICAL RESOURCE

Guidance Document on the Country Status Assessment on Sea-Based Mari...




TECHNICAL RESOURCE

Guidance Document on Conducting Techno-Economic Feasibility Studies...




TECHNICAL RESOURCE

Guidance Document on Developing Port Waste Management Plans




TECHNICAL RESOURCE

Tecnologías y prácticas de reciclaje de artes de pesca




TECHNICAL RESOURCE

Rapport sur les bonnes pratiques pour prévenir et réduire les déchets...




TECHNICAL RESOURCE

Report on good practices to prevent and reduce marine plastic litter from...




TECHNICAL RESOURCE


Notificación y recuperación de aparejos de pesca perdidos:...



TECHNICAL RESOURCE

Déclaration et récupération des engins de pêche perdus:...






Global Partnership  
on Plastic Pollution  
and Marine Litter

Knowledge Hub ▾Data Hub ▾Community ▾

## Learning Centre

ALLONLINE COURSEMASTERCLASSWEBINAROTHER



ONLINE COURSE

Closing The Loop


This course is designed to share the latest knowledge and approaches to measuring and managing marine plastic pollution from land-based sources to achieve local, national and regional goals related to sustainable development.

TAG 1

TAG 2

TAG 3

TAG 4



ONLINE COURSE

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.

TAG 1

TAG 2

TAG 3

TAG 4




ONLINE COURSE

Marine Litter and Legal Framework


The course informs reports on waste economy, as well as studies. The methodology is based on UNCTAD's Guidance on implementing national waste management systems moving from challenges to opportunities.

TAG 1


TAG 2



UN  
environment  
programme

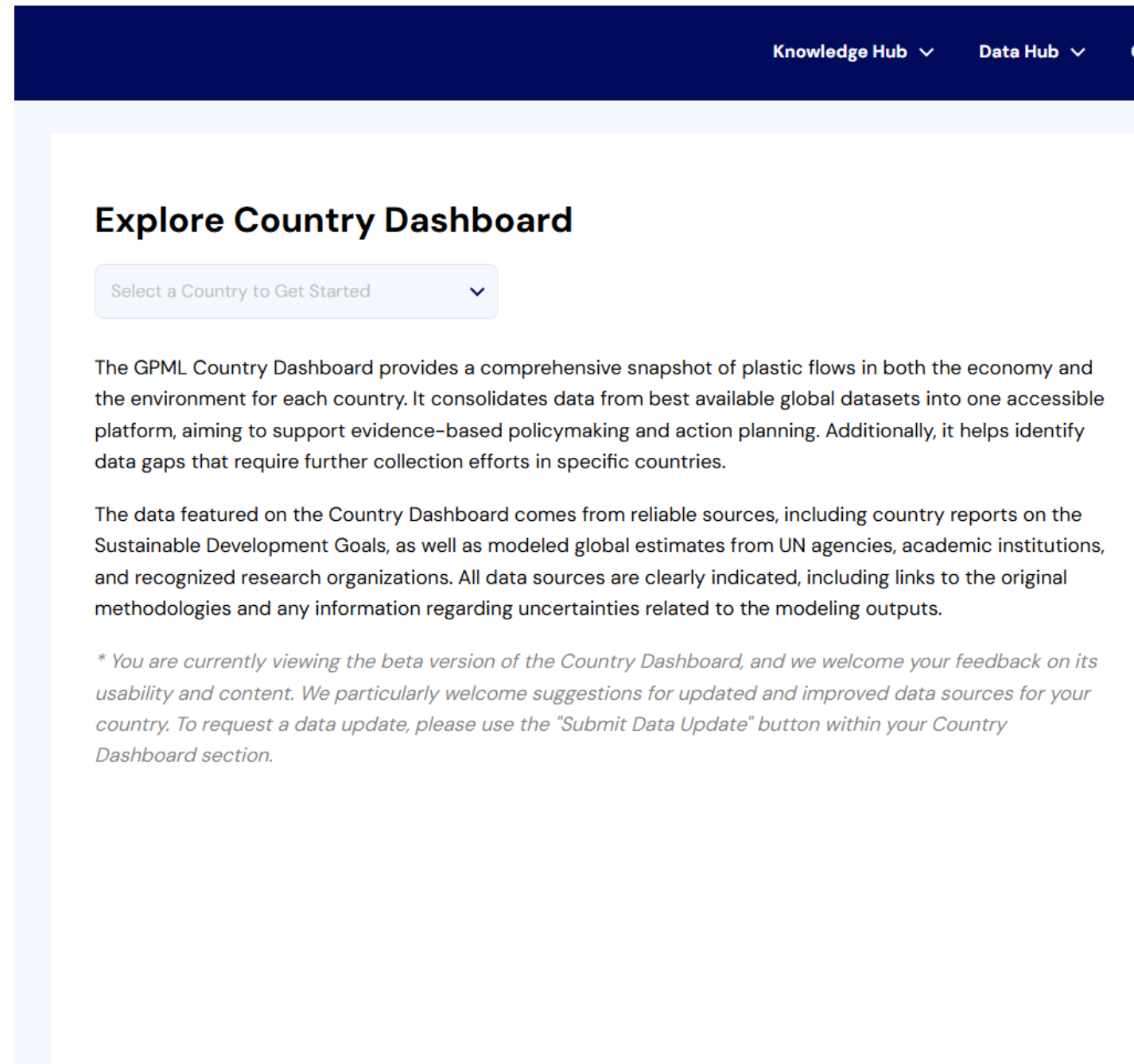


Global Partnership  
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and Marine Litter



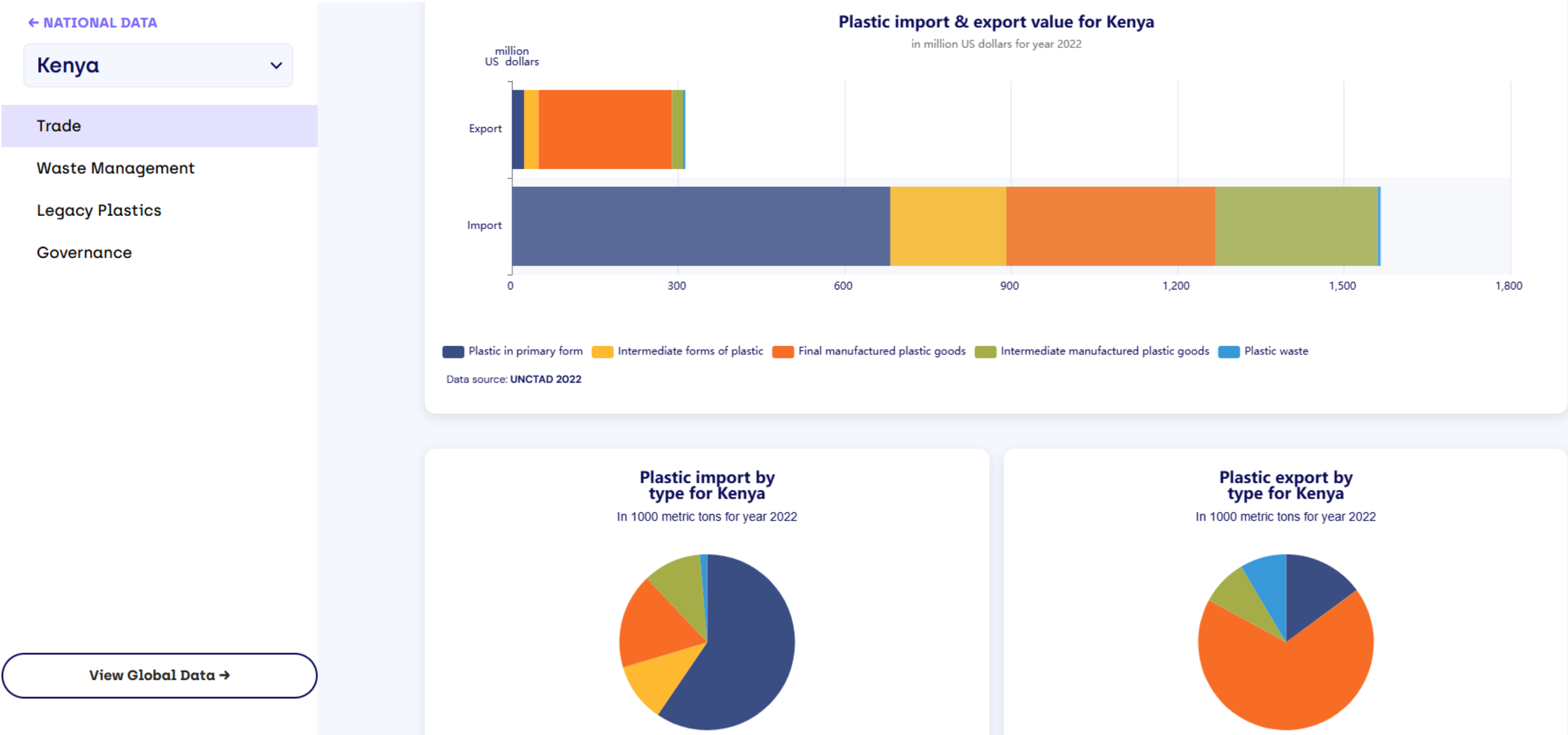
AFRICAN CLEAN  
CITIES PLATFORM  
PLATE-FORME AFRICAINE  
DES VILLES PROPRES

Over 80 indicators across the plastics lifecycle visualized at global and country level



# Data Hub: country dashboard

Visualize UNCTAD trade data on plastics imports and exports



# Data Hub: country dashboard

Visualize data on plastic waste management

Kenya

Trade

Waste Management

Legacy Plastics

Governance

Submit Data Update

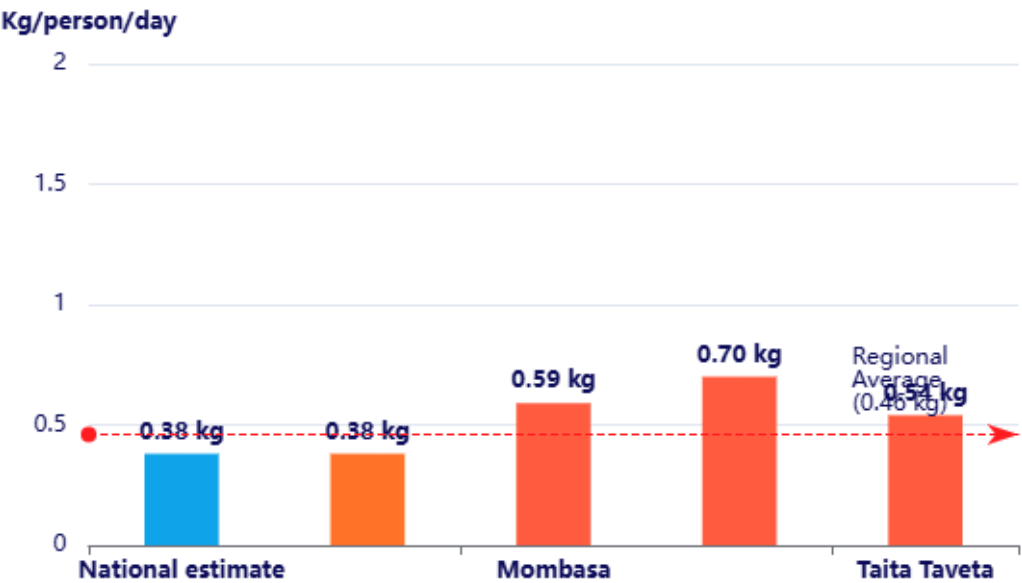
## KENYA

An estimated **7,244 thousand tonnes** of municipal solid waste were generated in **Kenya** in **2020**. A study on global waste management modeling showed **49 %** of municipal solid waste is collection coverage, with annual plastic emission including both debris and open burning is **602,475 tonnes per year**, which is equivalent to **12 kg/person/year**. Estimated proportion of the MSW that is being recycled was **[No data] %** in year **[No data]**.

The estimated MSW generation per capita in **Kenya** in **2020** was **0.38 kg** per person per day.

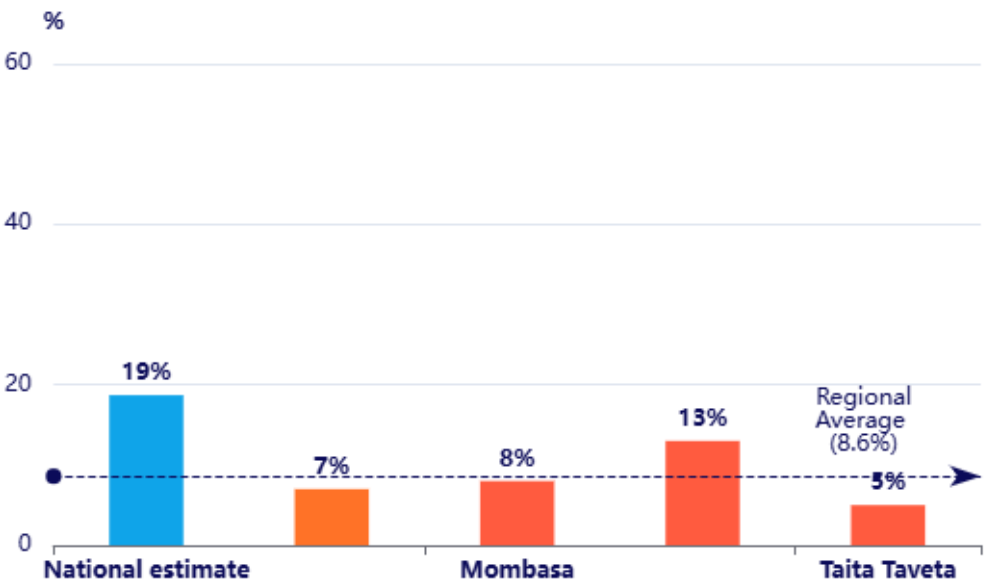
Data from selected city case studies provide further insights into waste management in **Kenya**. Primary data collection through a waste composition survey undertaken recorded that the share of plastic waste within the collected waste was **7%** in **Homabay** in **2023**, and **5%** in **Taita Taveta** in **2023**. The same primary data collection estimated that the per capita MSW generation in **Homabay** was **0.38 kg** and in **Taita Taveta** was **0.54 kg** per person per day.

Per capita MSW generation for Kenya



Data source: UNEP 2020 and UN Habitat 2021

Plastic composition in the MSW for Kenya

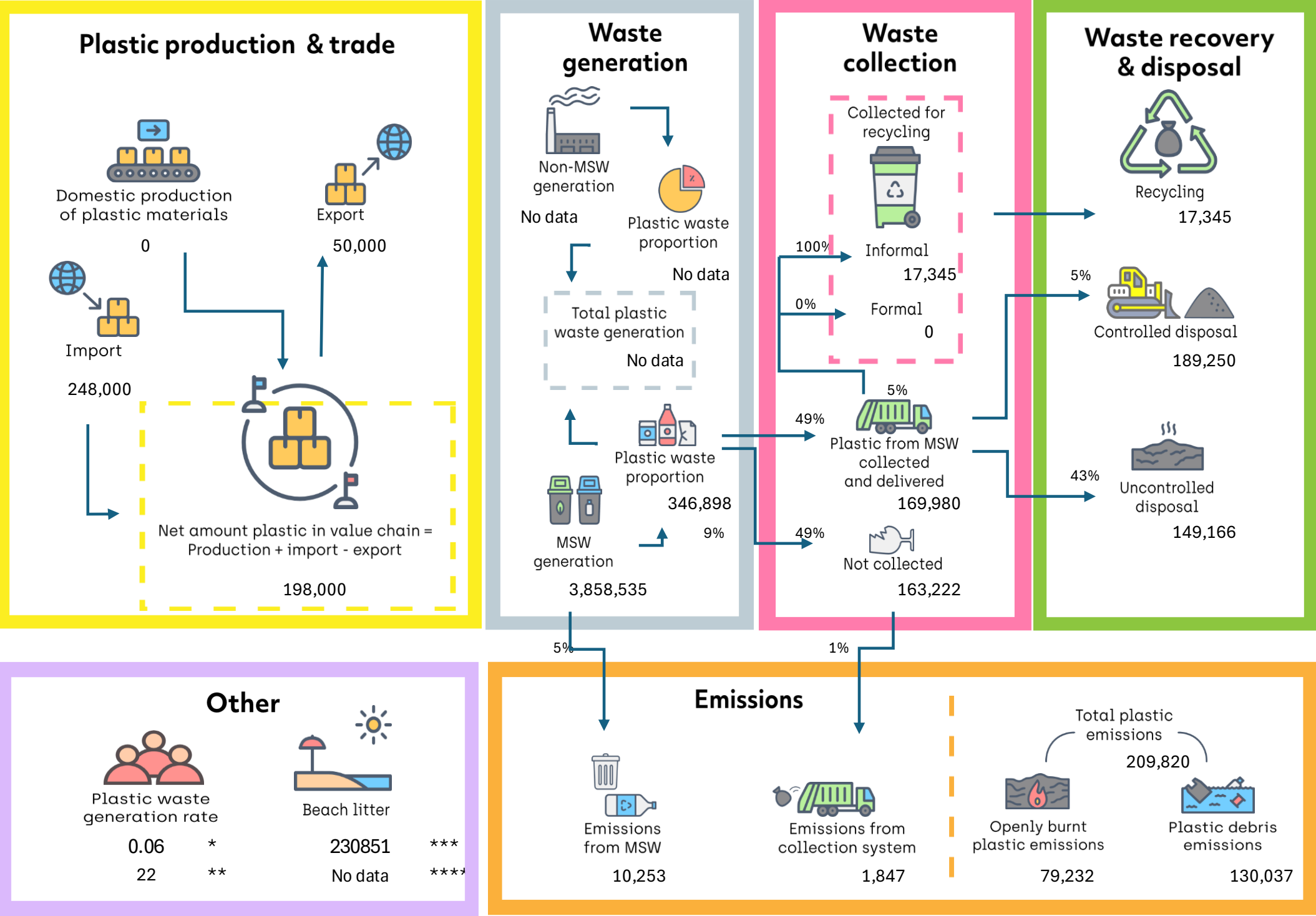


Data source: World Bank

View Global Data →

# Data Hub: country dashboard

Attempt is made to map the global datasets made available on GPH to see data consistency and gaps



Values are in metric tonnes per year unless stated otherwise

\* kg/capita/day  
\*\* kg/capita/year  
\*\*\* items per km<sup>2</sup>  
\*\*\*\* tonnes per km<sup>2</sup>

COUNTRY DEDICATED WORKFLOW

South Africa

88% COMPLETE

Forum

Instructions

National Steering Committee & Project Team

2/2

Stakeholder Consultations

5/5

Legislation & Policy Review

5/5

State of Knowledge on Plastic Data

7/7

Nationals Source Inventory

2/2

National Plastic Strategy

0/2

Final Review

Instructions

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 co the phase 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 plast organizations (governmental and non governmental) as well as individuals active in the space.

[Country Factsheet](#)

Step 1: 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 relevan 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 i

Step 2: Stakeholder consultations

Consultation should aim to understand the current issues faced by various stakeholders, as well as their role in solving the problem (actors) and how propo Different stakeholders may also have access to important data. This step of the workflow provides guidance on organizing a comprehensive stakeholder co

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 plastic 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

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 a 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 legis conducted.

Step 5: National Source Inventory

National plastic strategies should be underpinned by a National Source Inventory (NSI). This step will help in analysing the data available and collected into a National Source Inventory Report on plastic pollution and marine litter that can inform

Revised Steps

Instructions

1. National Steering Committee

Intro

Setup your team

2. Stakeholder Consultations

Intro

Case Studies

Initiatives

Summary and Report

3. Legislation & Policy Review

Intro

Identification of Existing instruments

Case Studies

Summary & Report

4. National Source inventory

Intro

Plastics in Economy

Plastic Waste Management

Plastics in the Environment

National Source Inventory Data Mapping

Summary & Report

5. National Action Plan / Strategy

Intro

Policy Options and Infrastructure Investments

Ask AI

Summary & Report

COUNTRY DEDICATED WORKFLOW

South Africa

88% COMPLETE

Forum

Instructions

National Steering Committee & Project Team

2/2

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Stakeholder Consultations

5/5

▼

Legislation & Policy Review

5/5

▼

State of Knowledge on Plastic Data

7/7

▲

Intro

Available Tools

Available Data & Statistics

Data Collection Tools

Calculation of Indicators

Available Information

Summary & Report

Country Dedicated Workflow

2/2

▼

STATE OF KNOWLEDGE ON PLASTIC DATA

Introduction

Find a presentation summary on the State of Knowledge on Plastic Data, which emphasizes the need to analyze and collect data on plastic pollution and marine litter. Stakeholder input is used to identify data gaps and weaknesses in existing sources, and this information is compiled into a State of Knowledge report. It recommends further data collection as needed, ensuring all project data is made publicly available. Additionally, effective knowledge management through the Global Plastics Hub is encouraged to keep information up-to-date and facilitate data sharing.


Download State of Knowledge Report Template

Download Slides

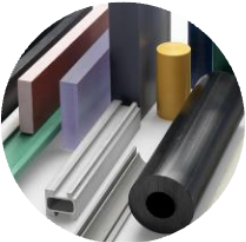
Plastic Production – Central Product Classification (CPC)

CPC provides complete product classification. Most relevant ones are below. Industries, plastic manufacturers associations or similar type of organization in the country might have plastic production data according to CPC.


\*Full list of plastic products in CPC will be made available through Statistical Guideline




Plastics in Primary Forms (347)



Semi-manufactures of plastics (363)



Finished Plastics Products – 100% plastics



Plastics containing products – Certain % plastics

GPML

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Google Slides


Downloadable reporting template

Step-by-step technical guidance

UN

environment programme


GPML




Global Partnership on Plastic Pollution and Marine Litter

AFRICAN CLEAN CITIES PLATFORM

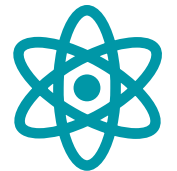
PLATE-FORME AFRICAINE DES VILLES PROPRES



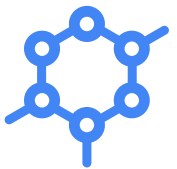


# Coming up: new features in the next 3 years

Be part of the solution and help to shape the Global Plastics Hub to meet your needs!



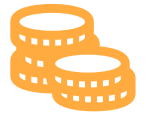
**Strengthened science-policy interface** through knowledge and data curation to inspire evidence-based policy making and action planning through continuous expansion of the Knowledge Hub, Data Hub and the Country Dedicated Workflow.



**Improved transparency on plastics materials and associated risks** through access to best available science, links to platforms on chemicals, stakeholder dialogues and capacity development, for plastics safety and sustainability.



**Cumulative progress tracking mechanism** that supports countries and stakeholders to track and report progress against global goals with shared Key Performance Indicators and harmonized monitoring and assessment methodologies.



**Increased investments in tangible and bankable projects** through connecting and coordinating key actors, providing capacity development and possible social and technological solutions, utilizing innovative tools.



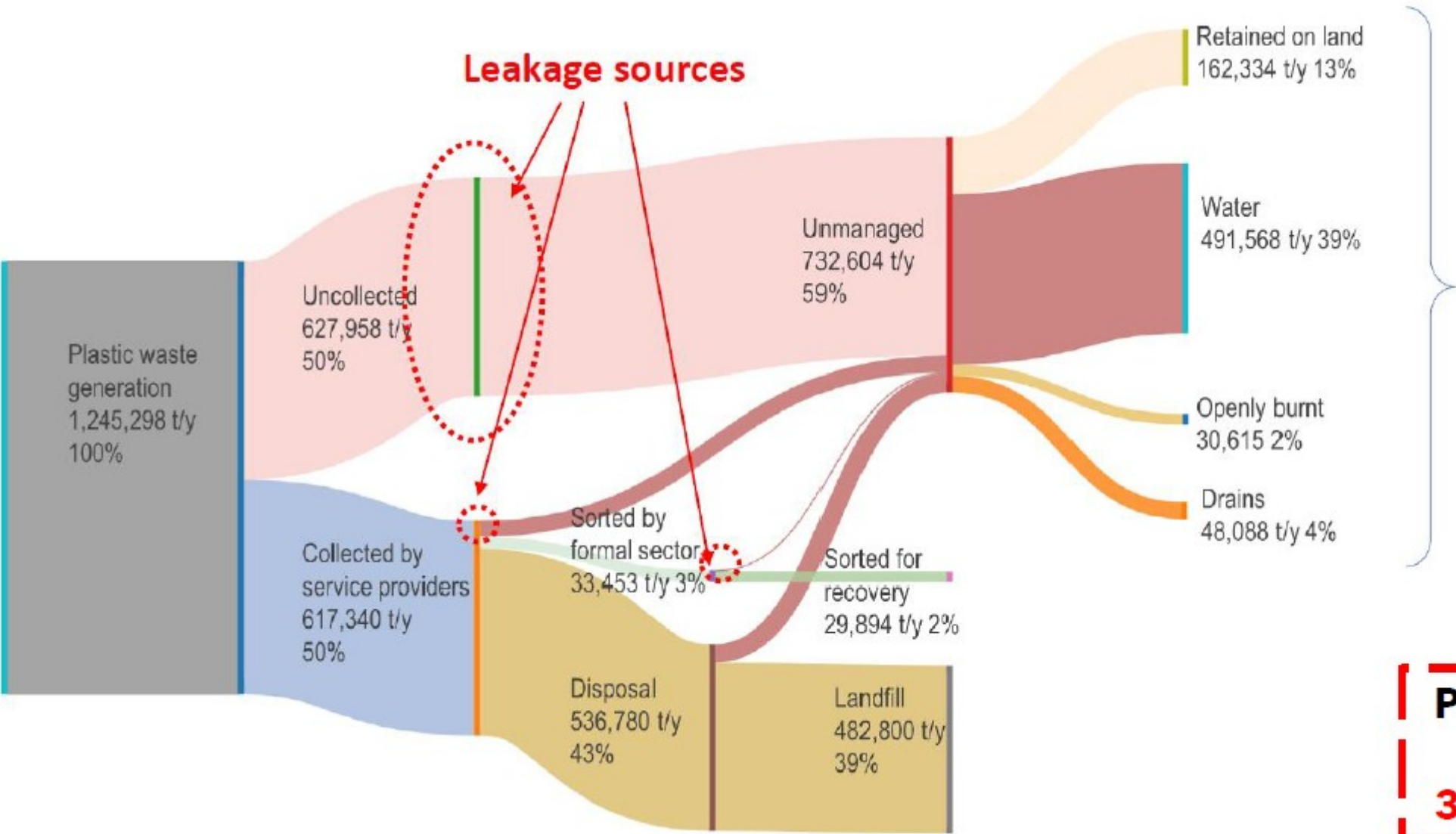
**AI-powered Solutions Hub** providing data-driven policy recommendations and solutions for plastic pollution prevention and mitigation, trained with existing data and resources available on the platform to be able to generate tailored recommendations.



**Inclusive and Empowered Action:** Strengthened gender awareness in plastic action, increased youth engagement for innovative solutions, improved accessibility for persons with disabilities, fostering broader participation in environmental decision making.

# Power of Data and Collaboration: Lagos Case

Single Use Plastic Ban in Lagos, Nigeria: UNEP Web Story Available [here](#).



65% of total plastic waste generated in Mombasa is polluting the environment

Plastic leakage into body water:  
34.2kg/capita/year



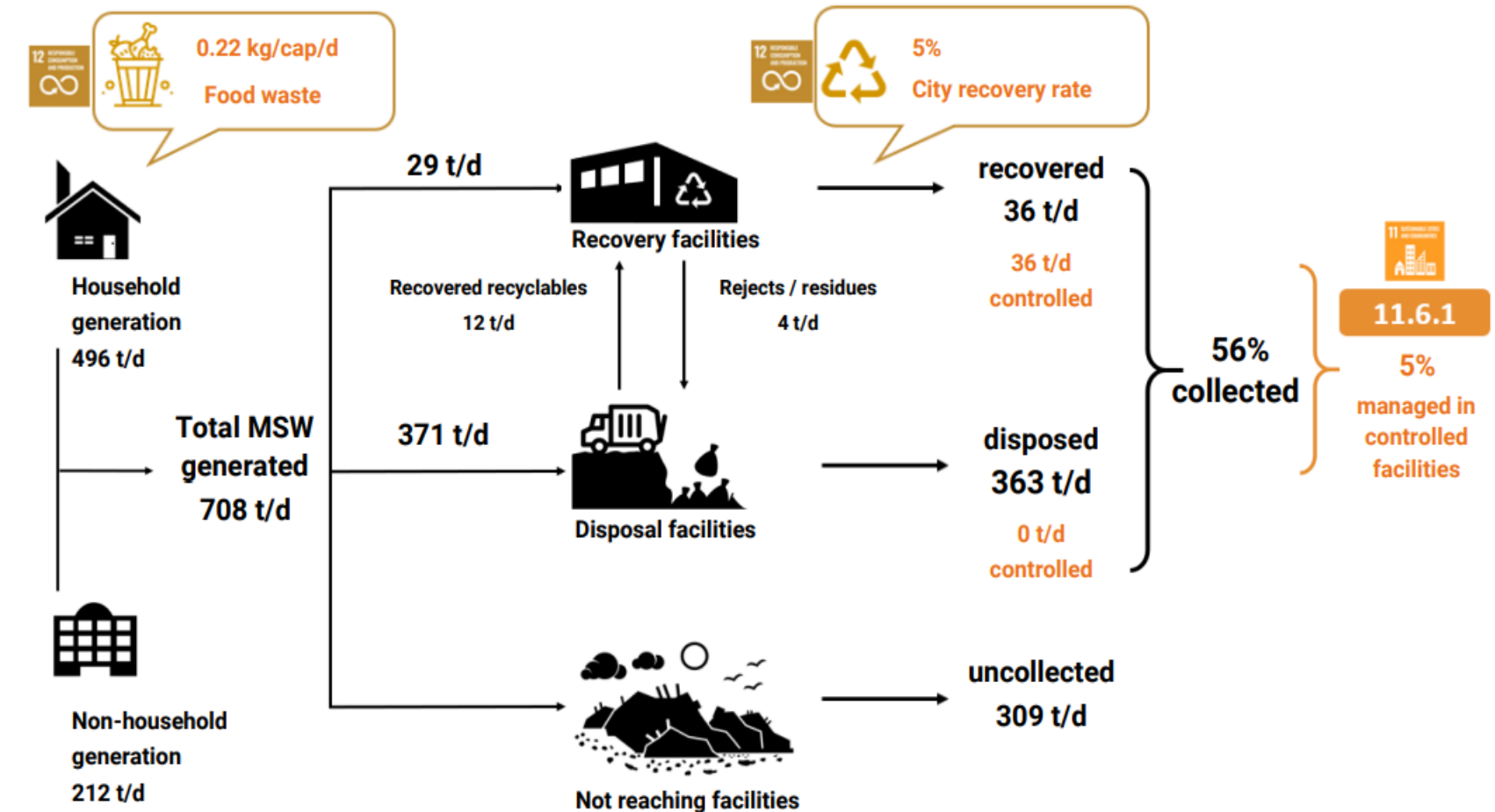
Global Partnership  
on Plastic Pollution  
and Marine Litter



# Power of Data and Collaboration: Mombasa Case

Mombasa's waste management improvement: UNEP Web Story Available [here](#).

- With support from GPML, UN-Habitat applied Waste Wise Cities Tool in Mombasa in 2019.
- With support from UN-Habitat's programme African Clean Cities Platform, local stakeholder came together to adopt a city-wide action plan.
- Building on this, Mombasa County Government, WWF and Coca Cola Foundation implemented a project to **construct Material Recovery Facilities and empower waste pickers for plastic circularity**.
- Currently, JICA and European Investment Bank is preparing a feasibility study for infrastructure investment for **a comprehensive improvement of municipal solid waste management system, to prevent plastic pollution**.



# Power of Data and Collaboration: Dar es Salaam Case

## MRF development in Dar es Salaam

- With support from GPML, UN-Habitat applied Waste Wise Cities Tool in Mombasa in 2021.
- With support from UN-Habitat's programme African Clean Cities Platform, **policy recommendation for MSWM system improvement to prevent plastic pollution** developed.
- Based on the recommendation, a project to construct Material Recovery Facility (3mio) is currently implemented by UN-Habitat, supported by **German Marine Litter Fund**.



# Join the GPML and sign up for the Global Plastics Hub!

Stay tuned with the GPML latest news and events!  
Join our **Newsletter** and follow us on **LinkedIn**.

<https://globalplasticshub.org/>

**Contact us:** [unep-gpmarinelitter@un.org](mailto:unep-gpmarinelitter@un.org)



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