WASTE MANAGEMENT IN SEYCHELLES

PRESENTED BY THE LANDSCAPE AND WASTE MANAGEMENT AGENCY (LWMA)

February 2025

Institutional Structure

Waste management in handled on a National level & the responsibility is shared between 2 National bodies, namely:

Ministry of Agriculture, Climate Change, & Environment (MACCE)

- Ensure constitutional right of every individual to a clean, ecologically balanced, and healthy environment, with access to clean, reliable, and affordable water and energy supplies.

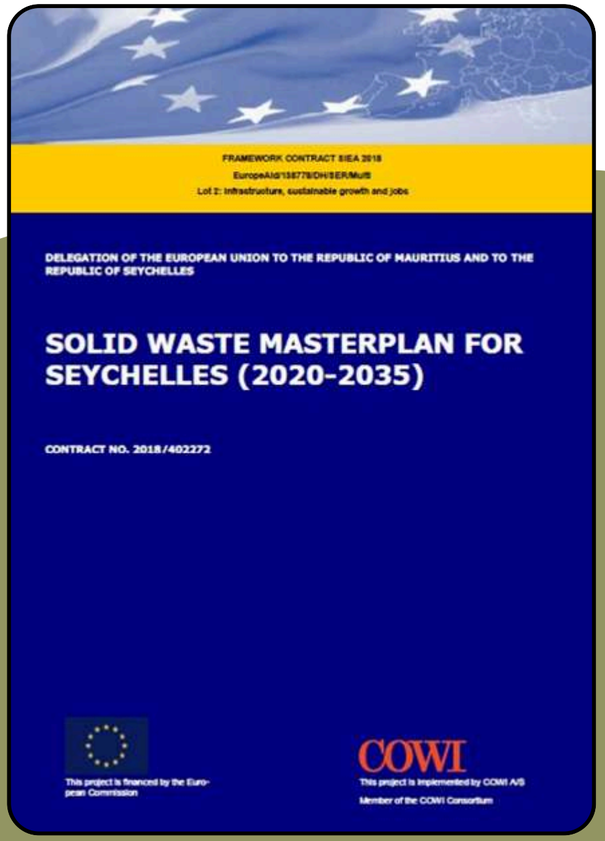
- Regulatory authority for waste management; responsible for formulation regulations, policies, and strategies for the sector as well as enforcement.

The Landscape and Waste Management Agency (LWMA)

- Established under the Environment Protection (Landscape & Waste Management Agency) Regulations (2009).
- Implement regulations and/or policies set by MACCE; inclusive of:
- Waste collection and cleaning of bins
- Operating and monitoring landfills / recycling initiatives
- Cleaning of public areas (incl. Roads, beaches, rivers, wetlands & drains)
- Landscaping and beautification

National Documents:

- *NATIONAL WASTE POLICY (2018-2023)*
- SOLID WASTE MASTER PLAN (2020-2035)
- ENVIRONMENT PROTECTION ACT
- WASTE SERVICES REGULATIONS (2021)
- BANS ON SINGLE USE ITEMS
  - PVC labels (2013)
  - *Plastic bags (2017)*
  - *Plastic utensils (2017)*
  - *Polystyrene boxes (2017)*
  - *Plastic straws (2019)*
  - *Balloons (2021)*



DID YOU KNOW?

In 2023, the enforcement unit handled a total of 135 pollution-related cases and 31 cases where banned plastic items were seized.

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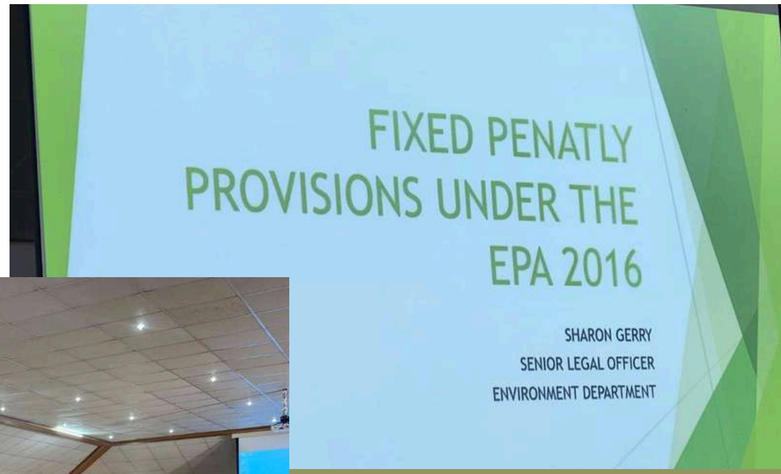

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In February 2025, the LWMA followed a training to be able to give fixed penalties.

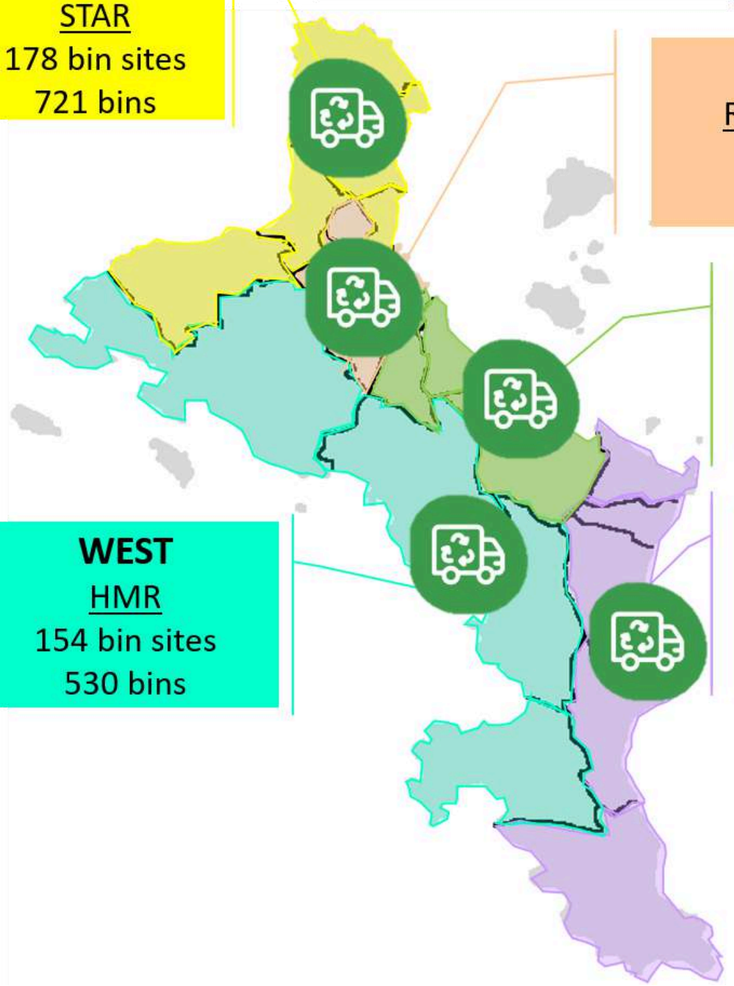
Current Situation in Seychelles

- More than 90,000 tonnes of waste is generated annually.
- >90% of all waste generated in Seychelles is landfilled.
- Despite having 3 “sanitary” landfills, such landfills are not meeting the required environmental standards.

Waste Collection

- *Contractors collect waste from communal bin sites.*
- *Each are assigned to a region.*

WASTE COLLECTION CONTRACTS MAHE: 7



NORTH
STAR
178 bin sites
721 bins

CENTRAL
Ronny Truck Services
102 bin sites
417 bins

EAST
Dynasty / Wastea
146 bin sites
620 bins

WEST
HMR
154 bin sites
530 bins

SOUTH
SNS / Wastea
172 bin sites
519 bins

WASTE COLLECTION CONTRACTS PRASLIN: 2

BAIE SAINT-ANNE
Explorer Investments
46 Bin sites
172 Bins

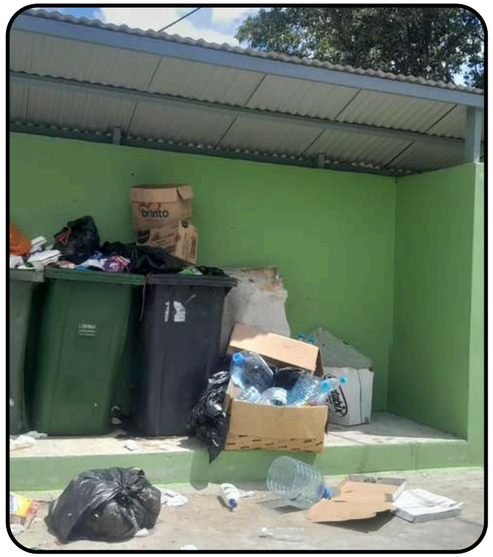
GRAND ANSE
BS Excavation
52 Bin Sites
203 Bins

WASTE COLLECTION CONTRACT LA DIGUE: 1

LA DIGUE
Island Waste Collection
55 Bin Sites
130 Bins

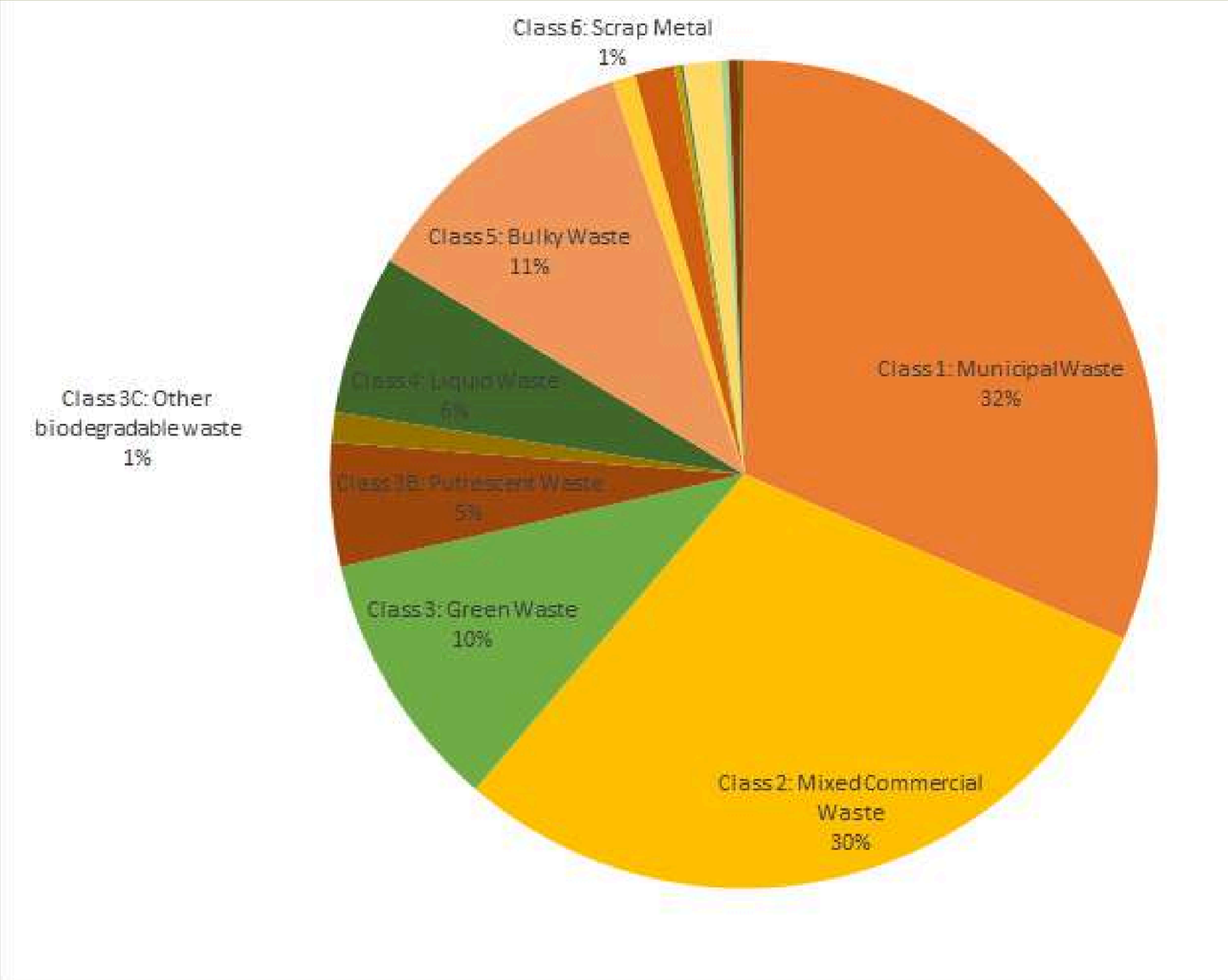
Bin Audit (2023)

- 3,315 240-liter bins distributed amongst 910 bin sites
- Bin sites and bins are not sufficient
- Some districts have better distribution of bins than others
- No segregation of waste



BIN AUDIT 2023					
Region/District	Est. Population (mid-2023)	Bin sites	Bins	Avg bins/bin site	Avg no. of habitants/bin
Central	**18479**	**115**	**482**	**4**	**38**
Bel Air	3,126	29	122	4	26
Mont Buxton	3,380	20	81	4	42
Mont Fleuri	4,052	13	65	5	62
Saint-Louis	3,689	28	117	4	32
English River	4,232	25	97	4	44
East	**22,165**	**133**	**555**	**4**	**40**
Les Mamelles	2,717	17	64	4	42
Plaisance	4,619	38	170	4	27
Pointe Larue	3,747	23	106	5	35
Roche Caiman	3,825	31	97	3	39
Cascade	7,257	24	118	5	62
North	**27,667**	**178**	**721**	**4**	**38**
Anse Etoile	6,549	47	161	3	41
Beau Vallon	5,598	43	174	4	32
Bel Ombre	4,825	17	100	6	48
Glacis	4,492	43	140	3	32
Perseverance	6,203	28	146	5	42
South	**19,558**	**172**	**519**	**3**	**38**
Anse aux Pins	4,681	32	100	3	47
Anse Royale	5,041	51	147	3	34
Au Cap	5,968	40	134	3	45
Takamaka	3,868	49	138	3	28
West	**17,545**	**154**	**530**	**3**	**33**
Anse Boileau	5,378	36	120	3	45
Baie Lazare	4,791	45	137	3	35
Grand Anse	4,136	40	142	4	29
Port Glaud	3,240	33	131	4	25
Praslin	**9,398**	**94**	**375**	**4**	**25**
Grand Anse	4,340	42	172	4	25
Baie Saint-Anne	5,058	52	203	4	25
La Digue	**3930**	**64**	**133**	**2**	**30**
Grand Total	**118,742**	**910**	**3315**	**4**	**36**

Composition of Waste Landfilled - 2024



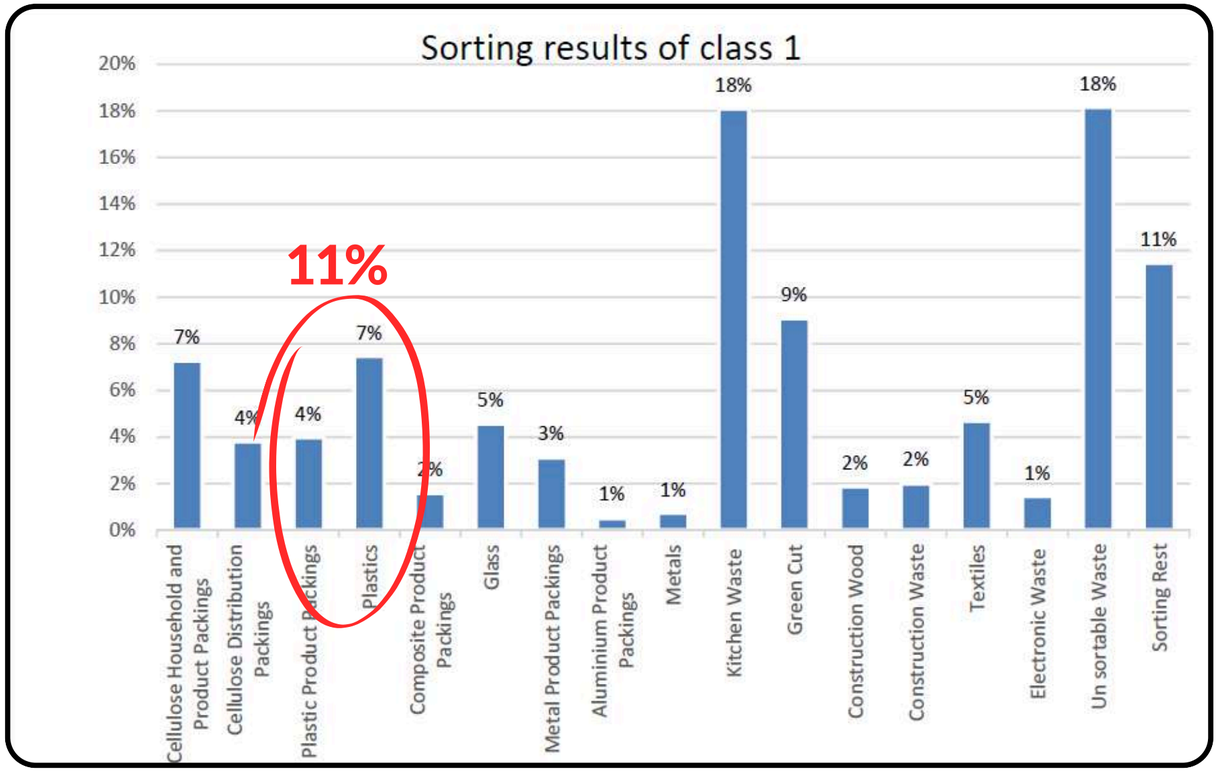
TOTAL COMMERCIAL WASTE : 50%
incl. bulky, scrap metal, construction/ demolition waste

TOTAL MUNICIPAL/HOUSEHOLD WASTE : 32%
inclusive of bulky, scrap and green waste counterparts

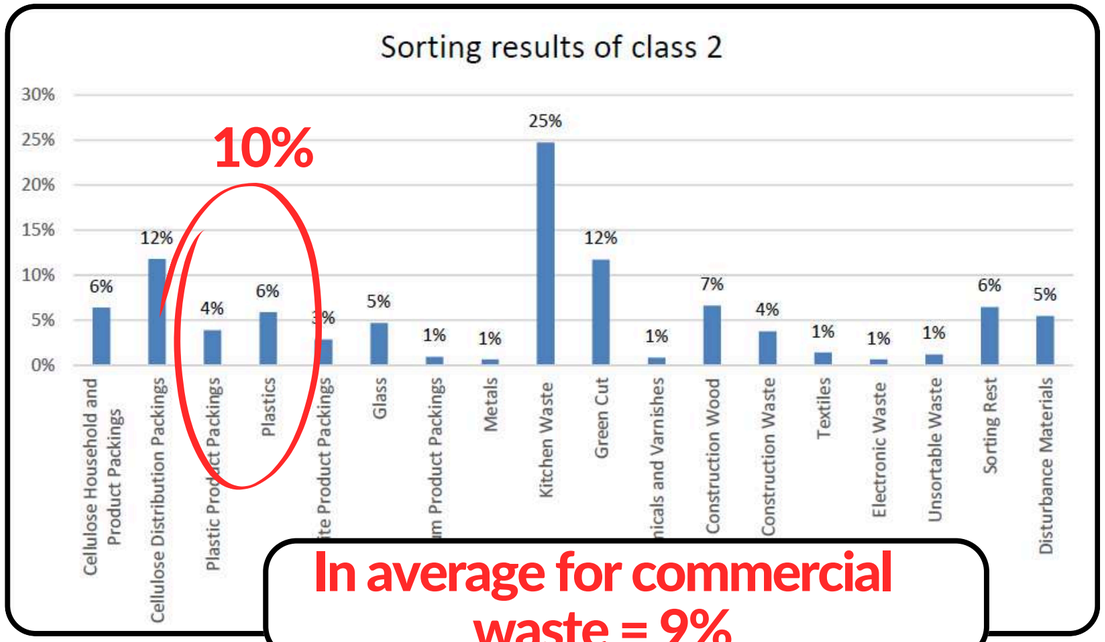
ORGANIC WASTE : 22%
excluding municipal & commercial counterparts but inclusive of Green waste, putrescent, other biodegredable and liquid waste

Waste audit, Darmstadt University 2017

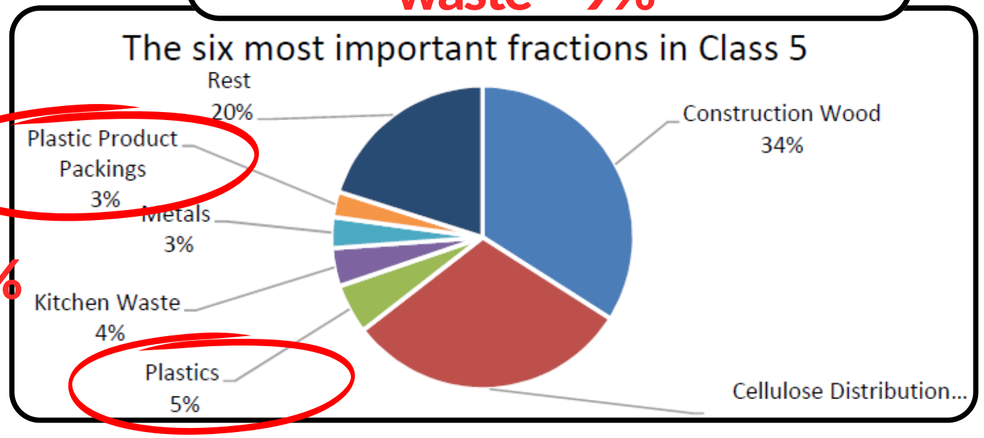
2017: MUNICIPAL WASTE



2017: CLASS 2 and CLASS 5 - *COMMERCIAL WASTE*



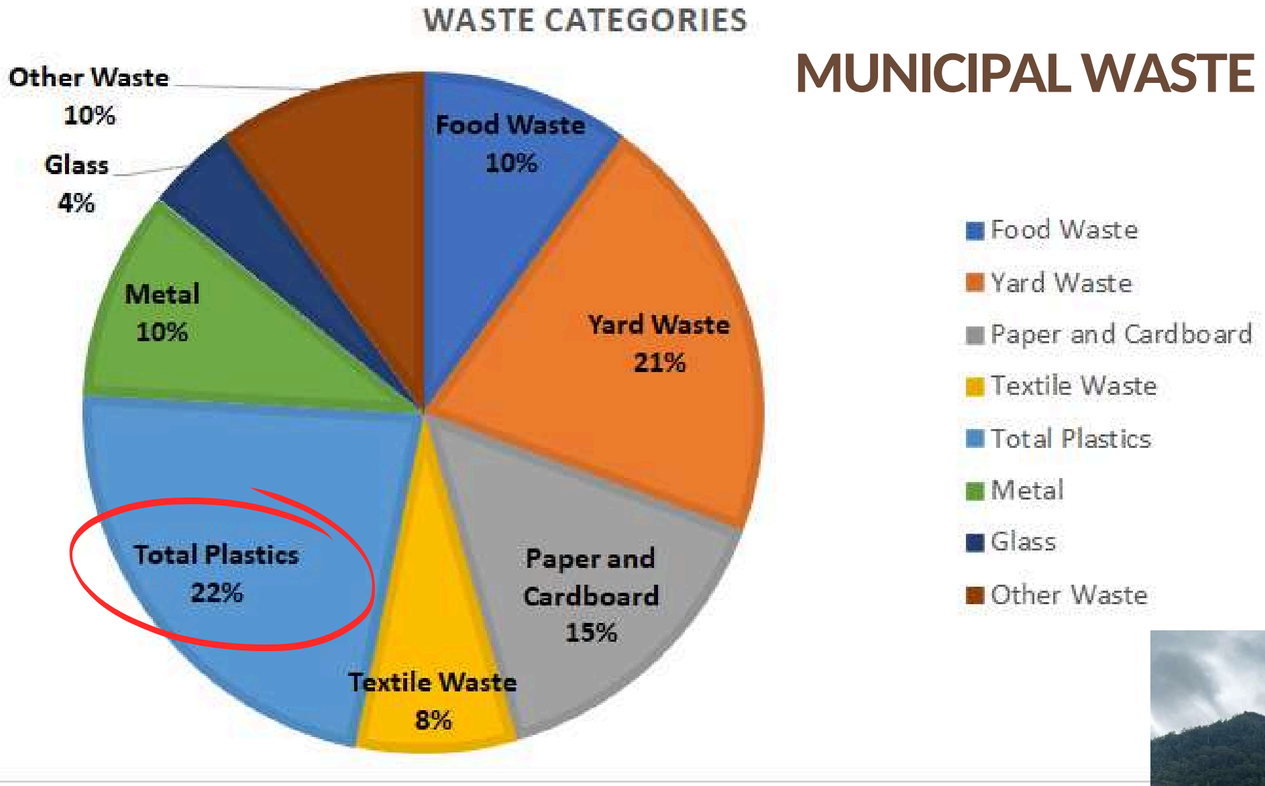
In average for commercial waste = 9%



REMARKS:

- 11% and 9% plastic in municipal and commercial waste respectively.

Training on Waste Audit - December 2024



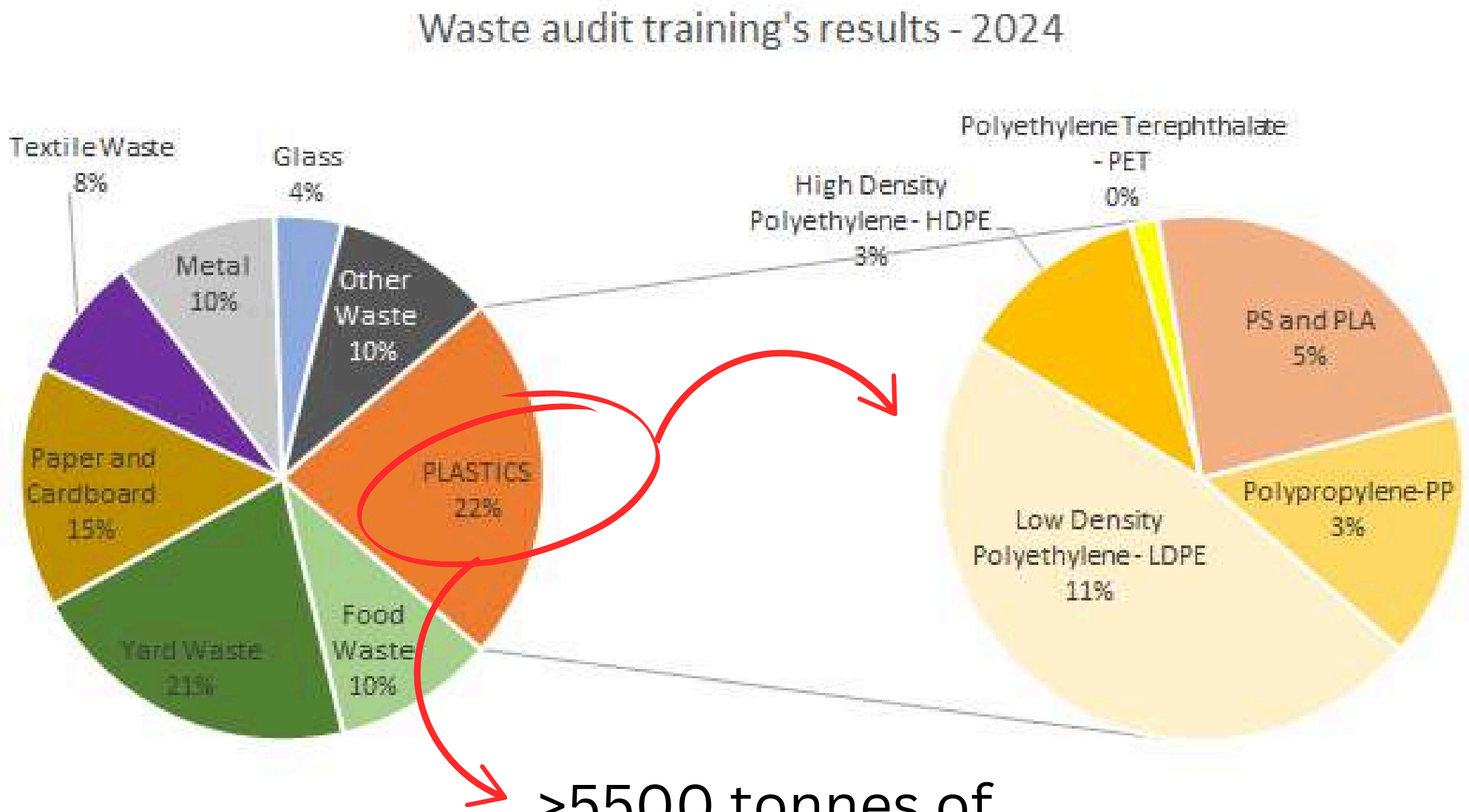
Mauritius Research and Innovation Council

TWENex
Valorisation énergétique des déchets en Indianocéanie

Characteristics:

- Municipal waste
- 1 truck coming from the Central East Region--> **not representative enough**
- Wet wastes
- 9 persons trained from LWMA

MUNICIPAL WASTE



>5500 tonnes of plastic in 2024

MRIC
Mauritius Research and Innovation Council

TWENex
Valorisation énergétique des déchets en Indianocéanie

Remarks

- Increase of 11points for plastics since the last waste audit in 2017
- PS and PLA put together as not recyclable bringing to **17%** (6points more) of recyclable plastics compared to 2017.9 (4200 tonnes)
- PET not so much present showing an efficient sorting effort from the informal sector
- Didn’t categorize E-waste

PLASTIC RESIN IDENTIFICATION CODES

Quick Reference Guide

1 PETE	2 HDPE	3 PVC	4 LDPE	5 PP	6 PS	7 OTHER
polyethylene terephthalate soft drink bottles, mineral water bottles, cooking oil	**high-density polyethylene** laundry detergent and other household cleaner bottles, shampoo bottles	**Polyvinyl chloride** Pipes, some cling film, garden hose	**low-density polyethylene** Some ziplock bags, squeeze bottles, some trash bags	**polypropylene** Plastic cups, plastic straws, plastic shopping bags	**polystyrene** Styrofoam trays and plates, plastic cutleries	**other plastics,** including acrylic, polylactic fibers, fiberglass, PLA cups

Ministry of Agriculture
Climate Change & Environment

Remarks

- Hard to identify the different type of plastic visually sometimes
- MACCE has a plastic scanner

What is being done or will be done to improve a better plastic management?

Deposit Refund Scheme

- Initiated by the Department of Environment in 2007,

1. beverages PET bottles (2007)
2. beverages in aluminium cans (2012)
3. alcoholic glass bottles (2020)

- This portfolio was previously being managed and overseen by the DoE however, as of 2022, became a part of the Agency's mandate.

What is a Deposit Refund Scheme?

- A DRS is a system which combines a tax on the consumption of the product with a rebate when the product is returned for recycling.

It allows for the:

- Re-integration of a product into a new cycle of life
- Reduction of waste and resource consumption.

In 2024, more than 17 million beverage PET bottles were brought to the Redeem Centers.

In 2022, more than 22 millions…

DEPOSIT REFUND SCHEME & REDEEM CENTERS

What types of containers can I return?

BEVERAGE containers only such as:

- PET Bottles and Cans
- **Alcoholic** Glass Bottles

How much will I get back per container?

- PET Bottles & Cans = SCR 0.5
- Alcoholic Glass Bottles = SCR 1

Where can I return my containers?

MAHE

- Victoria, Lodge Street
  Mr. Senthil Kumar
  4322639 / 2606336
- St. Louis, Curio Road
  Mr. Donald Ernesta
  2514892 / 2519103
- Providence
  Mr. Kandan Pillay
  2523355 / 2713727
- Anse Royale
  Mr. Franky Baccas
  2712318 / 2851400

PRASLIN & LA DIGUE

PRASLIN : Not operational until further notice

- La Digue, La Passe
  Mr. Donal Ernesta
  Contact: 2541454 / 2514892

Ministry of Agriculture
Climate Change
and Environment

For more information contact:

Landscape & Waste Management Agency (LWMA)
P.O.Box 1153 | English River - Mahe
Hotline: +248 282 26 00 | lwmainfo@gov.sc

Recycling Initiatives in Seychelles

Recycling is any recovery operation by which 'waste' materials are reprocessed into products, materials, or substances whether for the original or other purposes.

Beverage Aluminum Cans

Beverage PET Bottles

Alcoholic Beverage Glass Bottles

Paper & Cardboard

Scrap Metal

More Recent Recycling Initiatives in Seychelles

3D printing in recycled PET filament

OceanLabs Seychelles
Marine Mechatronics

CLEAN-UP SEYCHELLES

CURRENTLY

- A quaterly event
- Reduce the amount of bulky waste disposed at communal bin sites
- Free disposal if SORTED

FUTURE EXPECTATIONS

- More frequent events
- Different locations
- More partners to directly recover the waste

Sorting Bins Initiatives

To improve waste sorting and support the informal sector, The Agency is willing to:

Give more visibility to young students and the Agency started a discussion for the creation of sorting bins made out of recyclable materials.

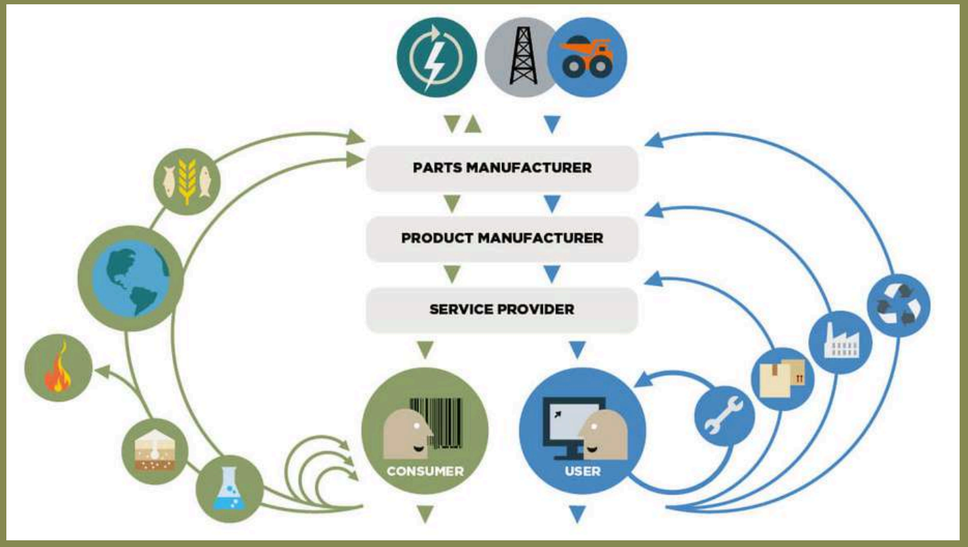
To develop temporary waste sorting stations all around the islands such as the Clean Up Seychelles event

SOLID WASTE MANAGEMENT WORLD BANK PROJECT

5 millions USD loan to support Seychelles in addressing its **urgent challenges** in SWM, in line with its Solid Waste Master Plan (SWMP).

Component 1: *Strengthening operations and increasing disposal capacity at Providence Landfill*

Component 2: Institutional strengthening to improve solid waste management and to promote circularity



THE WORLD BANK
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Ministry of Agriculture Climate Change and Environment

SOLID WASTE MANAGEMENT WORLD BANK PROJECT

Livelihood Restoration Plan for waste pickers:
This document will develop a plan to support the informal sector ‘working’ on the landfill to keep a source of income. Solutions to avoid redeemable waste to be landfilled will need to be implemented.

Component 2: *Institutional strengthening to improve solid waste management and to promote circularity*
Consultancy works will be carried out to:

- *Develop strategies to improve circularity in the tourism and fisheries sector*
- *Assess state of the EPR*
- *…*

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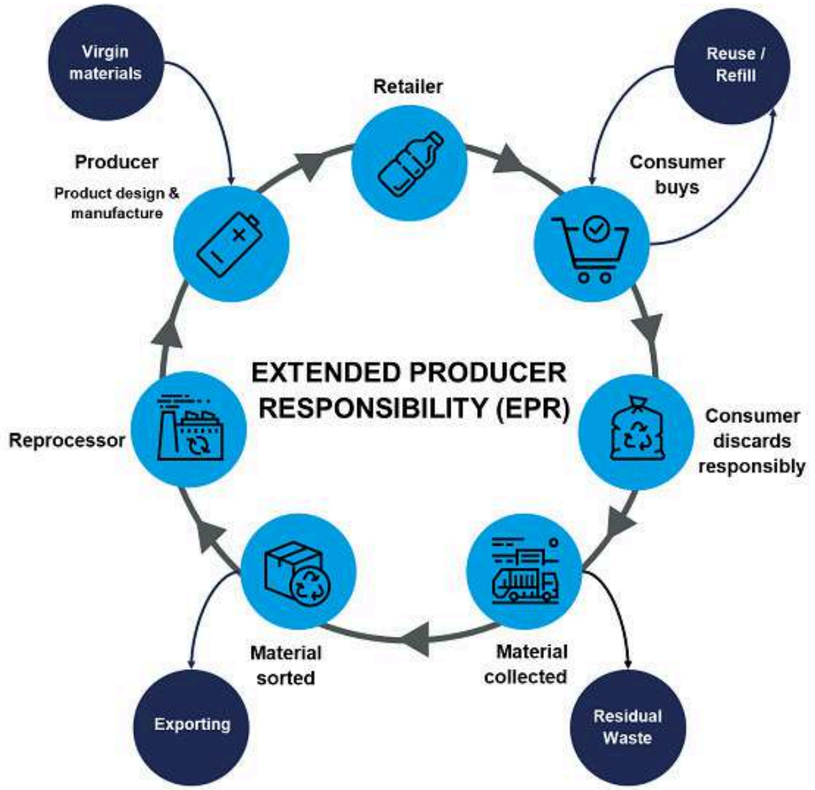
Climate Change
and Environment

Enhancing Sustainable Financing

› Establish an EPR program that requires producers/importers of particular goods to take financial responsibility, through a mix of policy measures, including among other a product tax on the import of designated products, including electric and electronic equipment, batteries and accumulators and vehicles, that aims to cover the full net cost of collection and treatment. Such a tax would complement the already existing levies on bottles, beverage cans and alcoholic glass bottles.

Extract of the SWMP



Can we develop an EPR system on packaging? for the plastic packaging that don't enter within the Deposit Refund Scheme?

- The Cabinet endorsed the Extended Producer Responsibility (EPR) concept for Seychelles in October 2023.

CIRCULAR ECONOMY ROADMAP

UN environment programme

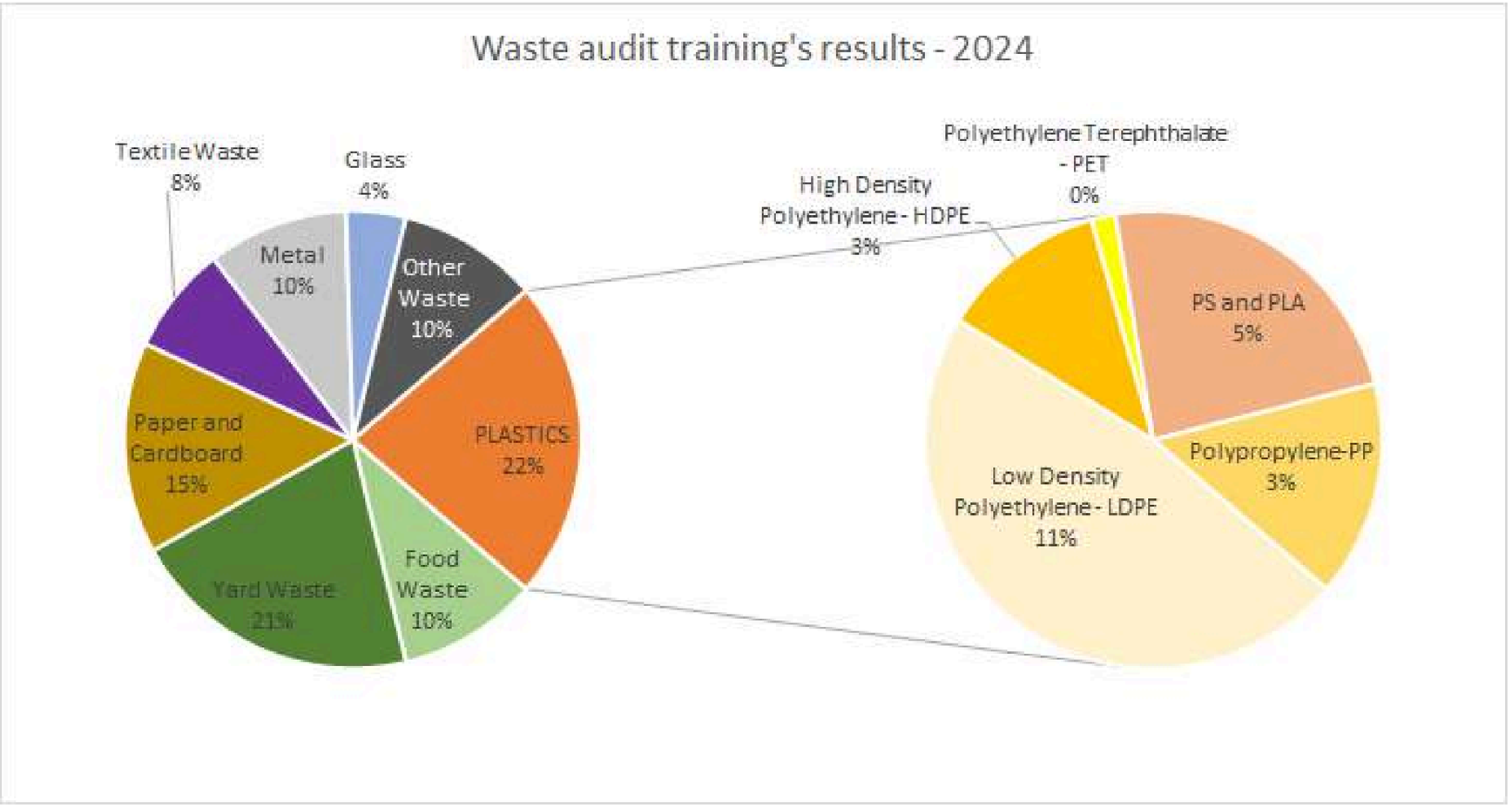
Roadmap and Action Plan on Circular Economy for the Republic of Seychelles (Final Report)

March 2024

SOME TASKS RELATED TO PLASTIC

- Increase to 25% the recycling of plastic packaging by 2034
- Elimination of single use plastics in Hotels and Restaurants
- Develop a roadmap for waste plastic-free Seychelles.
- Bans of harmful substances &plastics
- Landfill ban on the disposal of waste streams for which landfilling is not an appropriate form of disposal due to their recyclability or risks, such as biodegradable waste, paper and cardboard, metals, **plastic** packaging, tyres, batteries and WEEE.
- Introduce economic incentives for the recycling industry and set up a strategic watch on the recycling industry
- Provide a network of fixed and mobile Civic Amenity Centres

MUNICIPAL WASTE



We are currently looking for volunteers for the next waste caracterization study on commercial waste the 22nd of March.

Please come to see me after for more information!

CONCLUSION

For more information visit our website on:
www.lwma@gov.sc

The LWMA is dedicated to continuous improvement, and the Agency will provide the necessary skills, human resources, and financial support, to the extent feasible, to develop initiatives and projects focused on more effectively tackling plastic waste in the country.

THANK YOU!

Landscape and Waste Management Agency
Be Clean-Go Green