



This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

CITY OF MANILA'S BEST PRACTICES IN PROMOTING CIRCULAR ECONOMY



CITY OF MANILA



6 CONGRESSIONAL DISTRICT
16 ADMINISTRATIVE DISTRICT
896 BARANGAYS

DEPARTMENT OF PUBLIC SERVICES (DPS)

MANDATE

The Department of Public Services is mandated to discharge functions of ecological solid waste management and environmental sanitation.

VISION

The City's vision is to have an environment friendly and resilient community with its citizen aware and conscious of their social responsibility to sustain a clear and efficient solid waste management practices worth emulating by the future generation of Manila.

POPULATION AND WASTE GENERATION



1,846,513

Total population (PSA 2020)

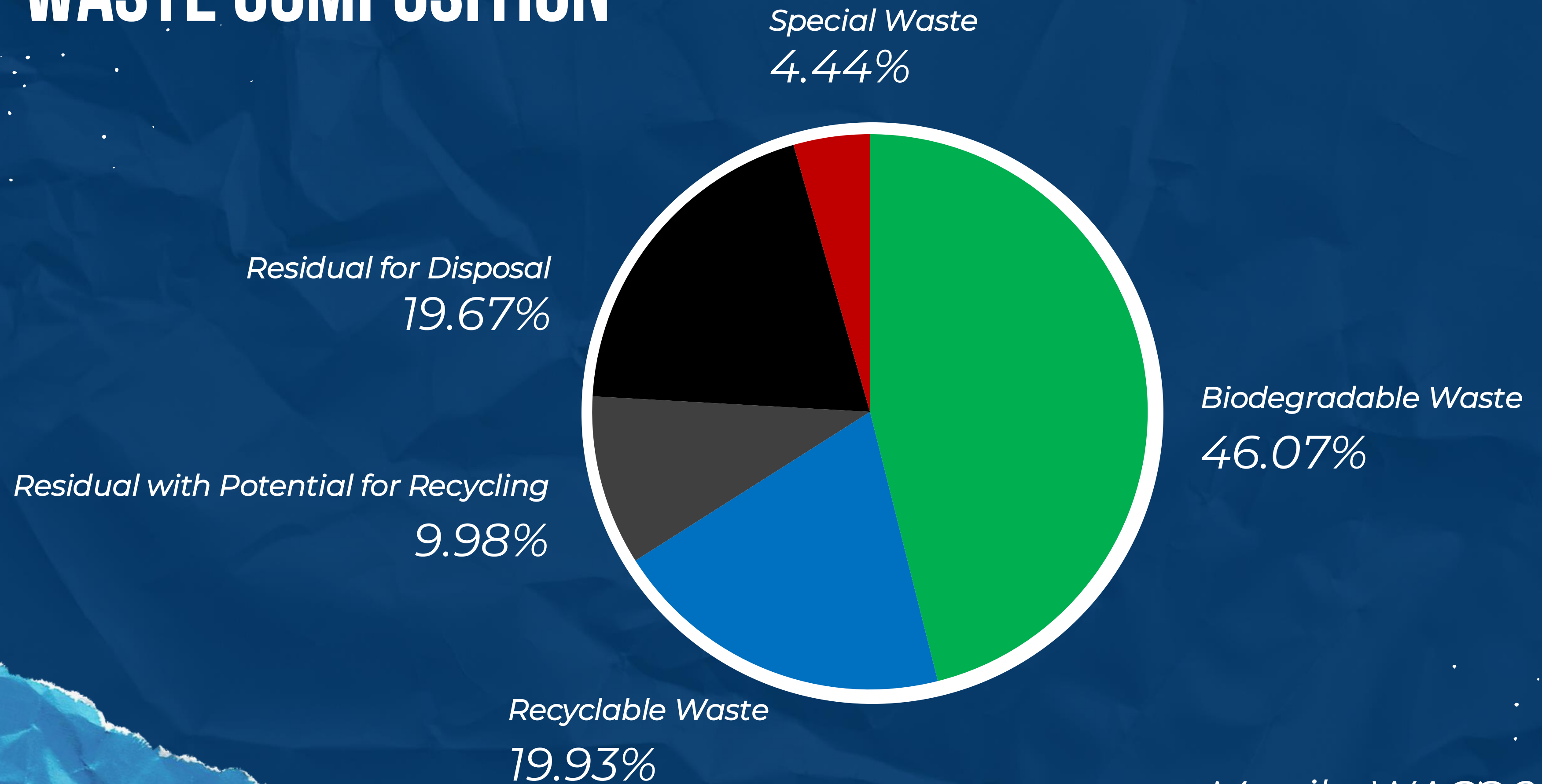
0.607 KG/PER PERSON/PER DAY

Per capita from WACS 2015

0.938 KG/PER PERSON/PER DAY

Per capita from WACS 2023

WASTE COMPOSITION



Manila WACS 2023

LINIS MAYNILA PROGRAM: DAILY CLEANUP OPERATIONS



Mopping



Sweeping



Flushing

LINIS MAYNILA PROGRAM: WATER BODIES CLEANUP



Estero Rangers



*Baseco Beach
Warriors*



*Manila Bay Team
Mandaragat*

INTERNATIONAL COASTAL CLEANUP 2024



92 ORGANIZATIONS

5,527 VOLUNTEERS

41 MT OF WASTE COLLECTED

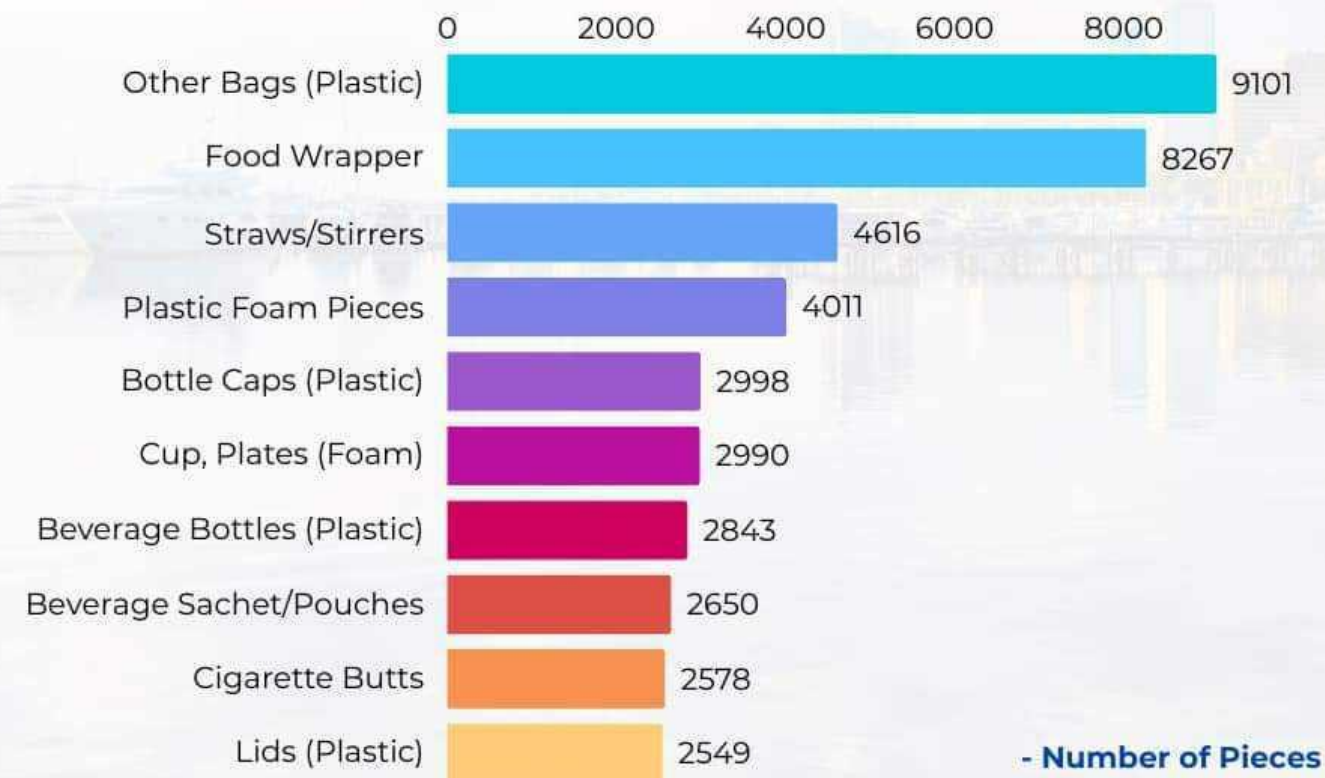
INTERNATIONAL COASTAL CLEANUP 2024



39TH INTERNATIONAL COASTAL CLEANUP



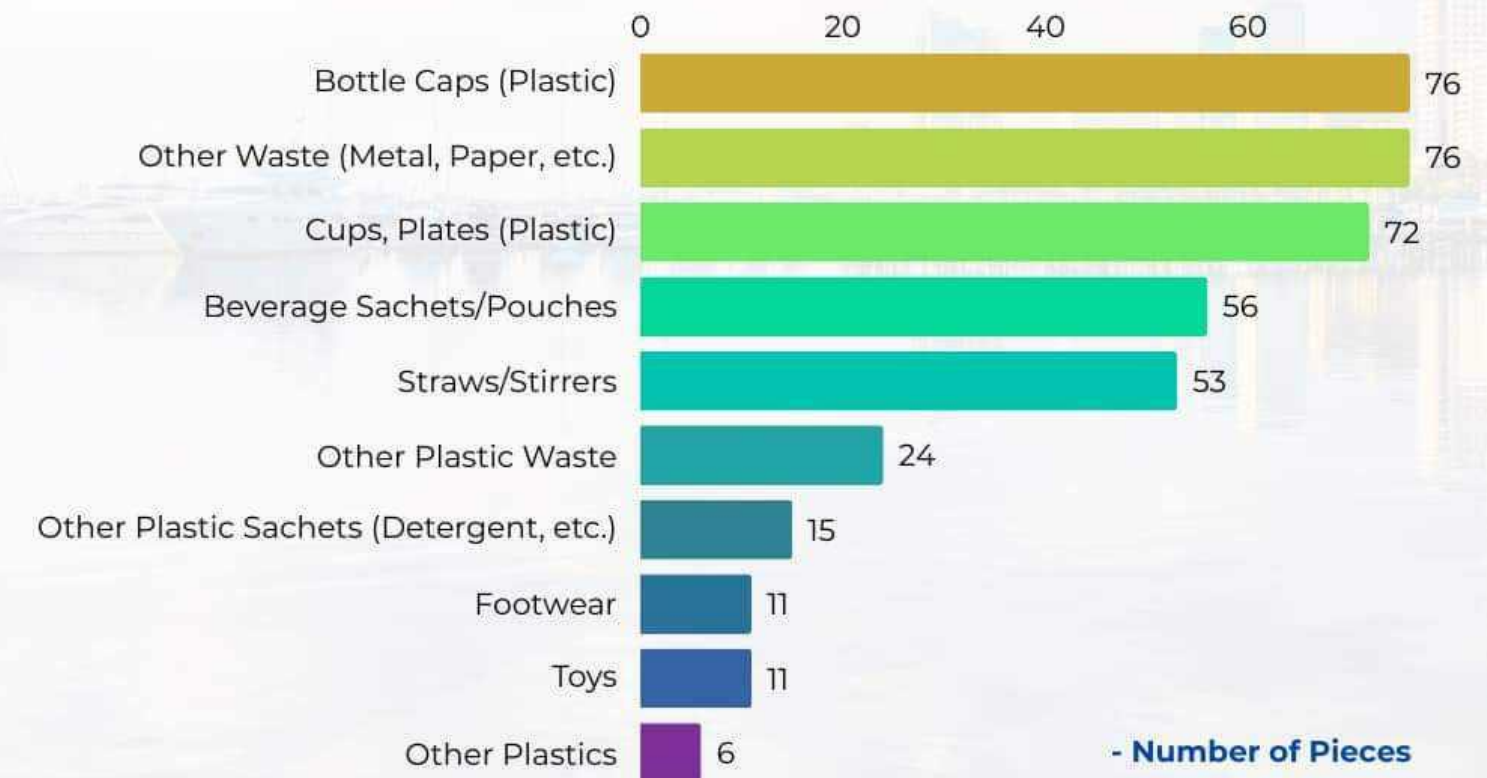
TOP 10 TRASH COLLECTED BASECO BEACH, PORT AREA



39TH INTERNATIONAL COASTAL CLEANUP



TOP 10 TRASH COLLECTED BAYWALK, ROXAS BLVD.



INFORMATION, EDUCATION, AND COMMUNICATION (IEC) CAMPAIGN ON RA 9003 (BARANGAYS)



INFORMATION, EDUCATION, AND COMMUNICATION (IEC) CAMPAIGN ON RA 9003 (SCHOOLS)



INFORMATION, EDUCATION, AND COMMUNICATION (IEC) CAMPAIGN ON RA 9003 (ESTABLISHMENTS)



INFORMATION, EDUCATION, AND COMMUNICATION (IEC) CAMPAIGN ON RA 9003

2024 *IEC Conducted: 1,251*
IEC Participants: 11,724

2025 *IEC Conducted: 3,105 (as of June 9)*
IEC Participants: 3220

CITY MATERIALS RECOVERY FACILITY (CMRF)



The City of Manila established its first ever City Materials Recovery Facility (MRF) in 2022 with a land area of 500 sq.meters.

Located inside the Manila Zoological and Botanical Garden .

CMRF COMPOSTING FACILITY



Bioreactor



Biocomposter

CMRF COMPOSTING FACILITY



Composting Area:
Shredding of dry matter



*Mixing of shredded
compostable materials*

CMRF COMPOSTING FACILITY



*Loading of mixed
compostable waste*



Curing Area

CMRF COMPOSTING FACILITY



This **soil conditioner** is made from biodegradable wastes such as leftover food, spoiled vegetables and fruits from markets, dry leaves from parks, and manure from herbivore mammals in the Manila Zoo.

CMRF COMPOSTING FACILITY

BIOREACTOR

Processed – 131,490 kg

Output – 43,786 kg

BIOCOMPOSTER

Processed – 201,170 kg

Output – 150,878 kg

GROSS TOTAL

Processed – 332,660 kg

Output – 194,664 kg

CMRF RECYCLING FACILITY



Multi-purpose Shredder



*Plastic Shredder
and Plastic Melter*

CMRF RECYCLING FACILITY



Plastic Extruder



Plastic Molder

CMRF RECYCLING FACILITY



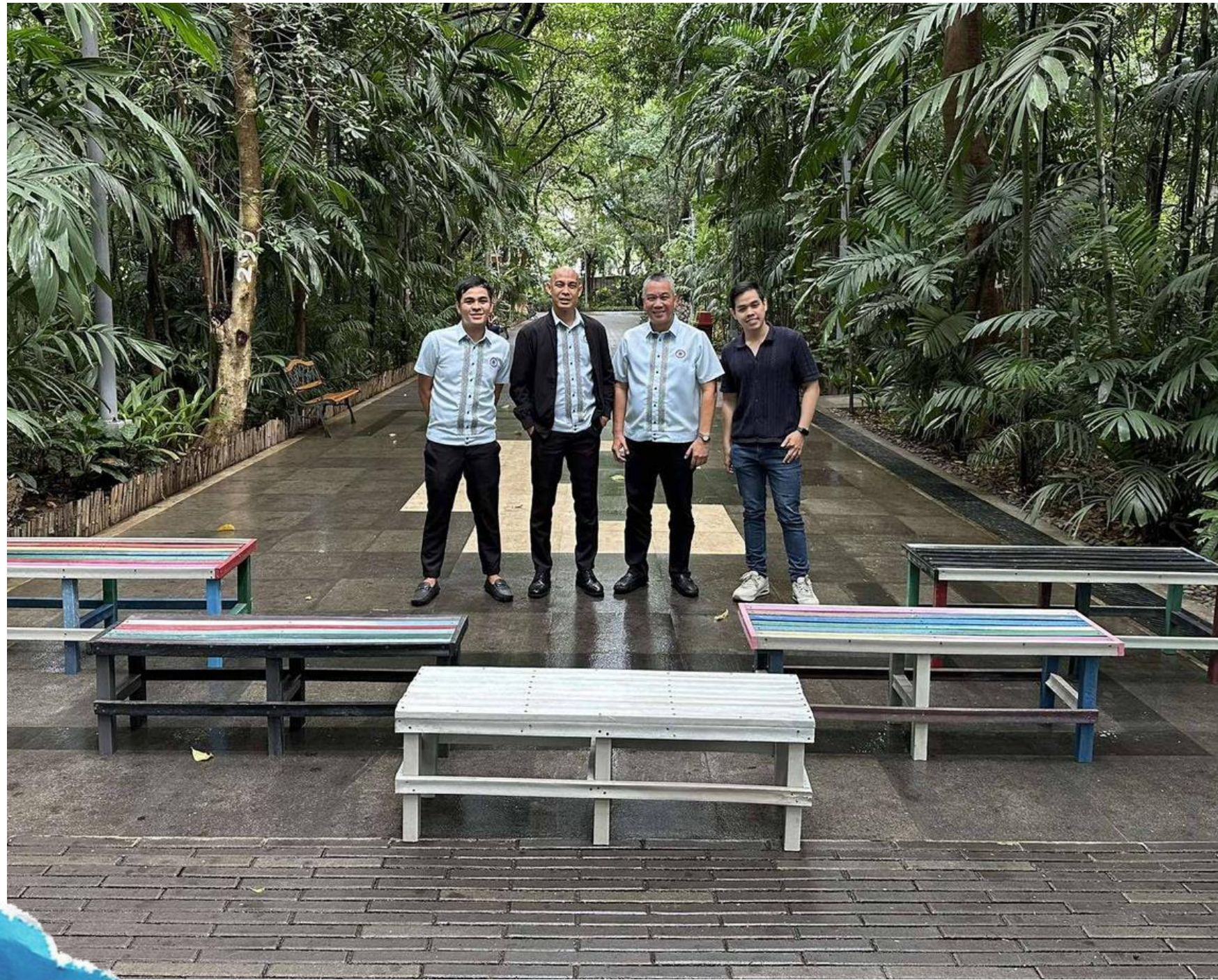
Livelihood Area

MRF LIVELIHOOD PRODUCTS

The MRF produces upcycled and recycled products such as **eco bags** made from woven **plastic straws** and **tarpaulins**, **plastic coasters**, **plant pots**, **keychains**, and **refrigerator magnets** made from PET bottle caps and HDPE plastics.



RECYCLED PLASTIC BENCHES



RECYCLED PLASTIC PODIUM



MOBILE MATERIALS RECOVERY FACILITY



Equipped with a **multi-purpose shredder** and a **glass pulverizer** that process recyclable waste.

Donated by UNDP through Accelerating Nationally Determined Contributions (NDCs) through Circular Economy in Cities (ACE) Project

KOLEK, KILO, KITA PARA SA WALASTIK NA MAYNILA



Kolek, Kilo, Kita
Walastik na Junkshop
para sa Walastik na Maynila

Kolek



Kolektahin ang mga
plastic sachet
wrappers, linisin,
patuyuin at gupitin ng
1 inch size.

Kilo



Ipakilo ang mga
nakolekta at nagupit na
plastic sachet wrappers sa
authorized Walastik na
Junkshop sa inyong
Barangay

Kita



1 Kilo
=
₱3

Ang programang ito ay buong pagmamalaking inihahandog sa inyo ng pamunuan
ng **Lungsod ng Maynila**, sa pangunguna ni **Mayor Isko Moreno Domagoso**
#IskoMorenoDomagoso #BagongMaynila #LinISKOMaynila at ng **Unilever**
Philippines #UnileverPhilippines, kasama ang **Cemex** at **Republic Cement**.

Isang paalala mula sa



A total of **800 metric tons** of flexible plastics
have been diverted
since October 2019

ALING TINDERA: A WASTE TO CASH PROGRAM



ALASKALIKASAN WRAPPER REDEMPTION PROGRAM





SIMULTANEOUS E-WASTE COLLECTION FROM HOUSEHOLDS

WHAT CAN YOU DONATE?

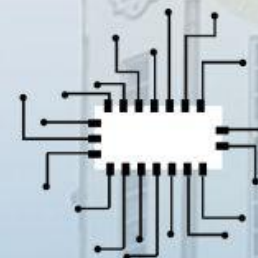
all worn-out or discarded electrical and electronic equipment such as:



LAPTOP & COMPUTER



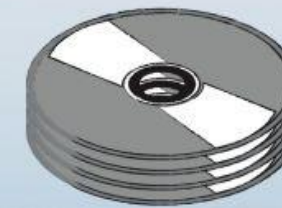
APPLIANCES



CIRCUITS



CHARGERS



CD & VCD



BUSTED LAMP/BULB



PRINTERS



CELLULAR PHONE



CONSOLES



CAMERAS



EARPHONE



BATTERIES

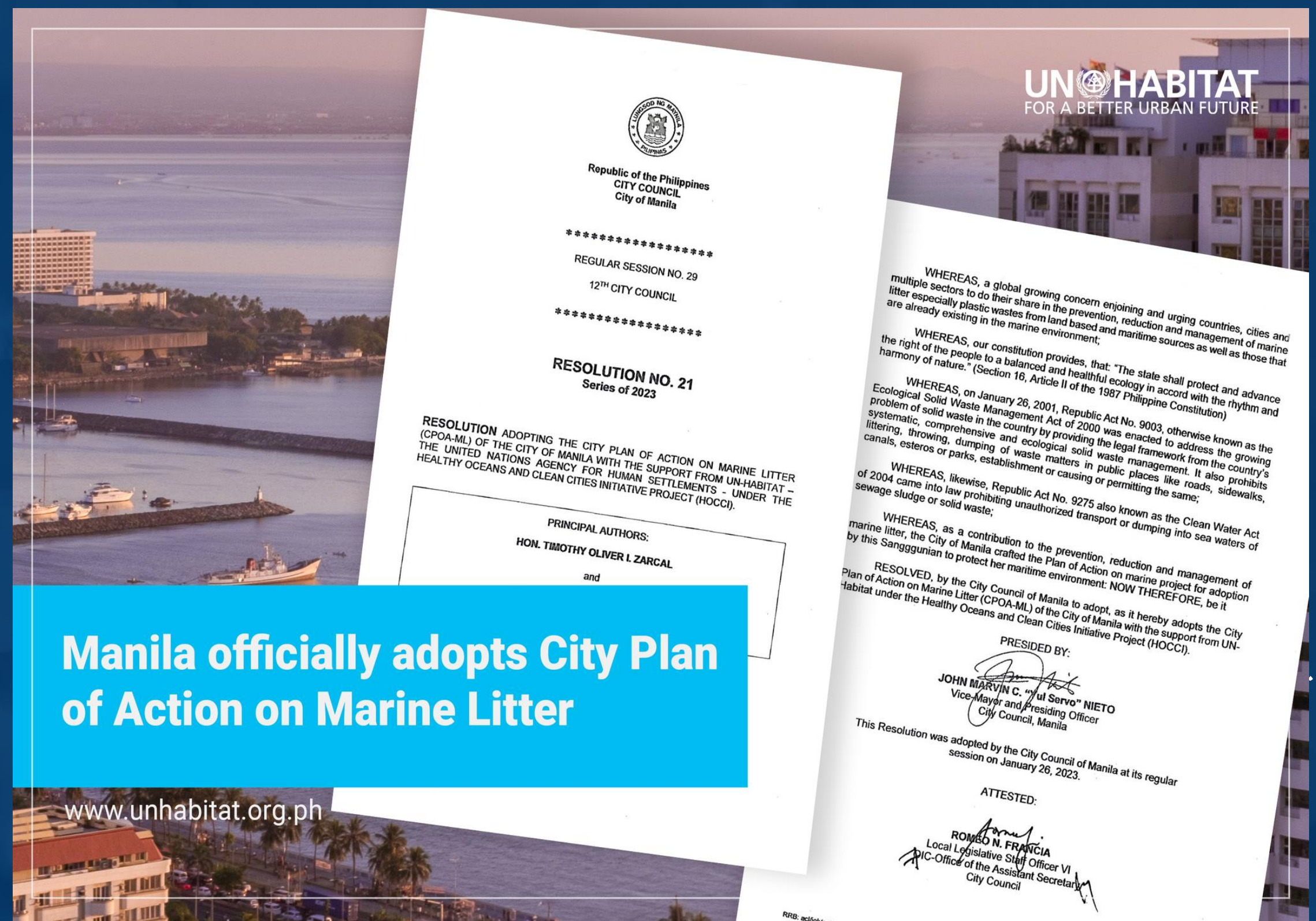
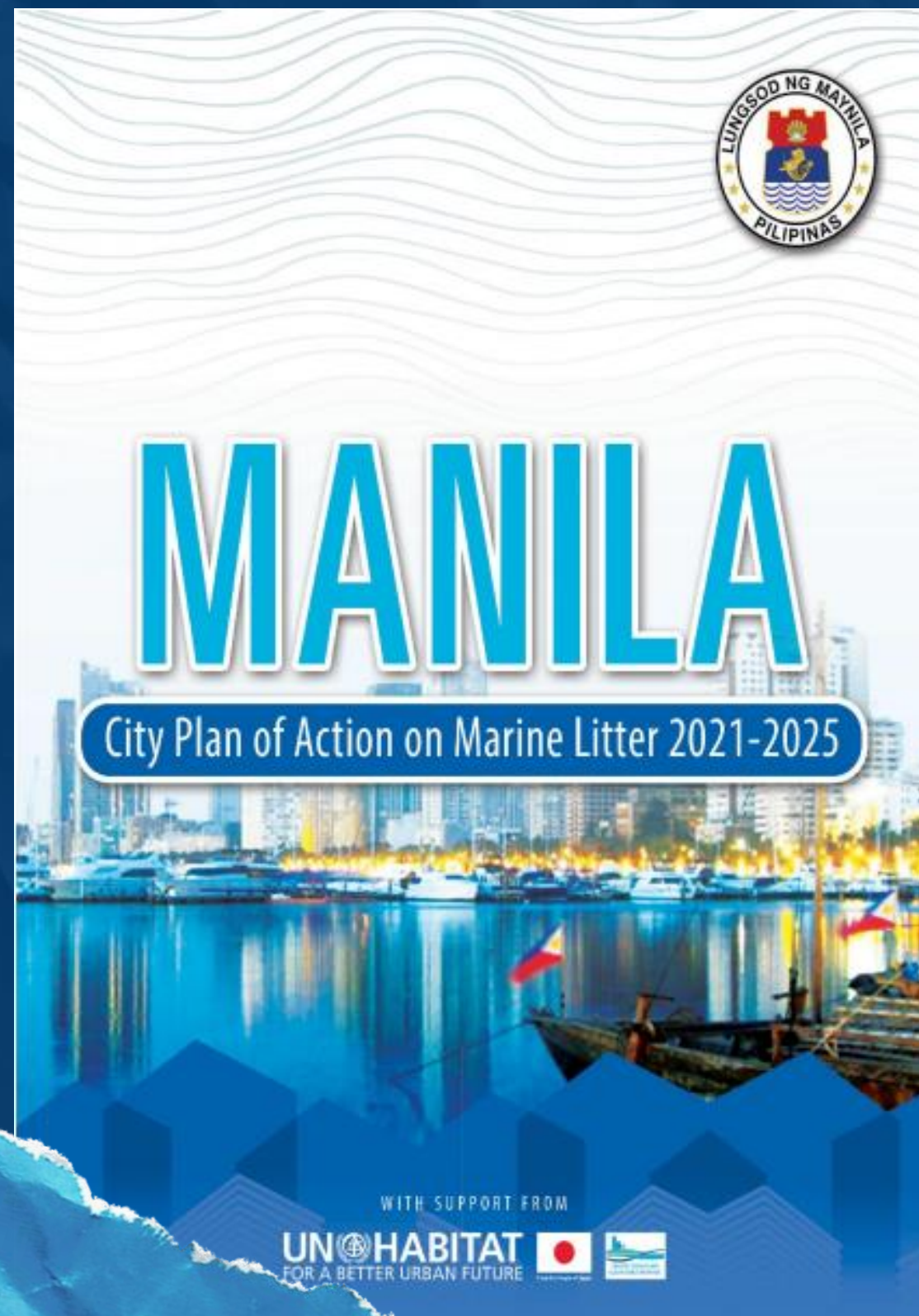


CAR BATTERIES

JUNE 26 - 30, 2023

ORTEGA COVERED COURT, BARANGAY 737, ZONE 80, DISTRICT V, MALATE MANILA

CITY PLAN OF ACTION ON MARINE LITTER (CPOA-ML)



PLASTIC SMART CITIES PROJECT



1,754 HOUSEHOLDS

Trained on solid waste management

179 WASTE COLLECTION VEHICLE

Distributed across 6 districts of Manila

7 SOLUTION PROVIDERS

Were supported in the City of Manila

PLASTIC SMART CITIES PROJECT



*Segregation
Bins*



*Waste Collection
Carts & Vehicles*



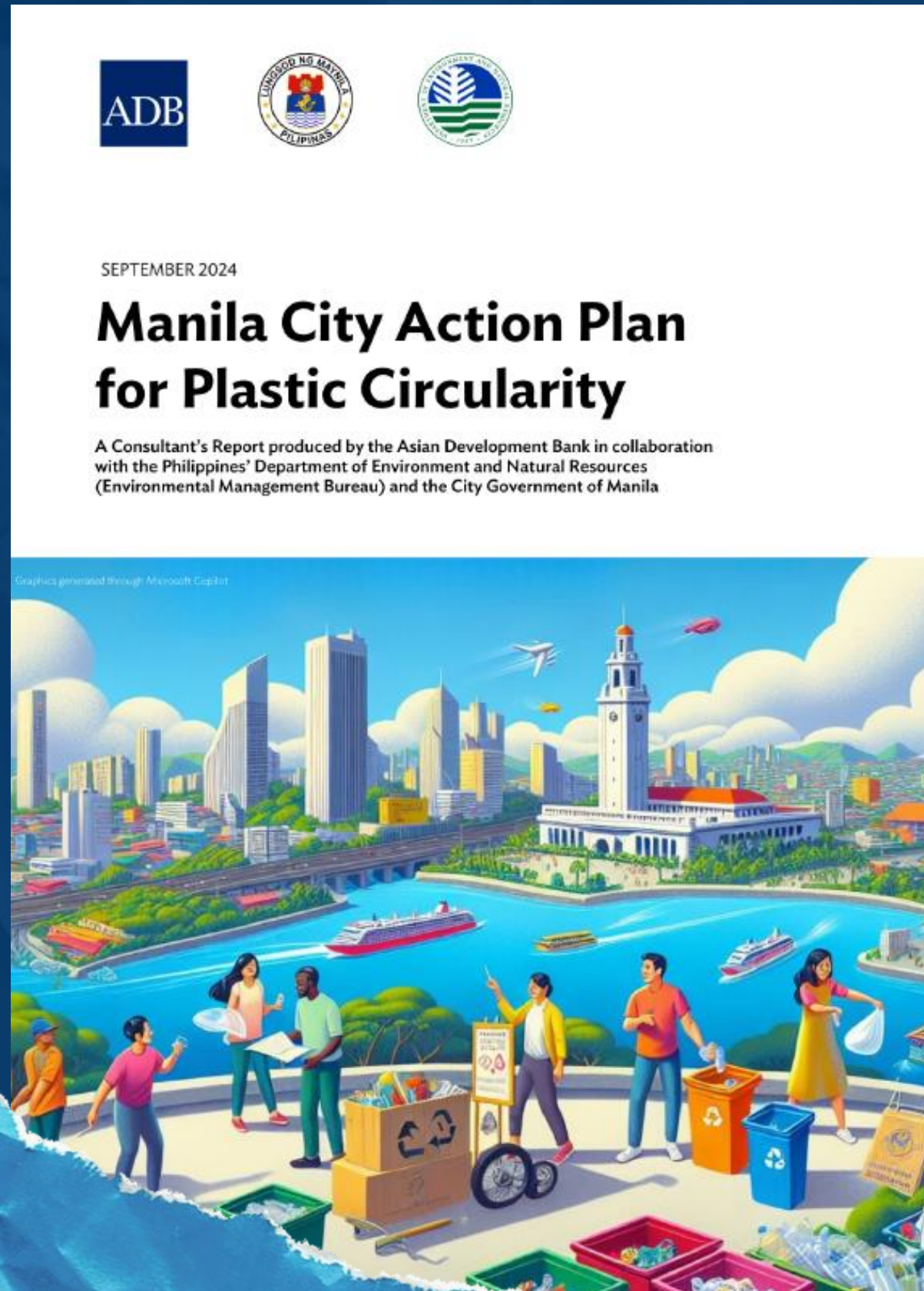
*Plastic Shredder
and Melter*

ROADMAP FOR PLASTIC CIRCULARITY - MANILA CITY ACTION PLAN



February 10, 2025

ROADMAP FOR PLASTIC CIRCULARITY - MANILA CITY ACTION PLAN



R#1 - Capturing and Monitoring Data for Better Plastic Waste Management

R#2 - Streamlining and Harmonizing Ordinances

R#3 - Establishment of City Environment and Natural Resources Office (CENRO) under a Newly Formed Department of Manila City

R#4 - Developing Awareness Engagement and Behavioural Change

R#5 - Formalisation and Institutionalization of Informal Groups in Manila City

R#6 - Establishment of a Dedicated Waste Sorting and Transfer Station for Manila-Wide Plastic Waste Sorting, Recycling and Recovery

R#7 - Assessment of the Adequacy, Efficiency and Effectiveness of the City's MRFs and Developing a Budgetary and Implementation Plan

R#8 - Study and Install Mechanised and Automated Equipment and Systems to Capture Marine Litter

R#9 - Conduct a Pilot Study on Barangay Clustering in Manila City for the Establishment of Additional MRFs



**THANK YOU FOR
LISTENING**

