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Marine Debris and Plastic Waste Management – International Experiences from Coastal Cities

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Waste-related SDG Targets and Indicators



Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable

Targets

11.6

By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management.

Indicator

Proportion of municipal solid waste collected and managed in controlled facilities with regards to the total waste generated by the city



Goal 12: Ensure sustainable consumption and production patterns

Targets

12.3

By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses.

Indicator

Food loss Index
Food Waste Index

12.4

By 2030, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment.

Hazardous waste generated per capita and proportion of hazardous waste treated, by type of treatment

12.5

By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse.

National recycling rate, tons of material recycled



Goal 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Targets

14.1

Index of coastal eutrophication and floating plastic debris density

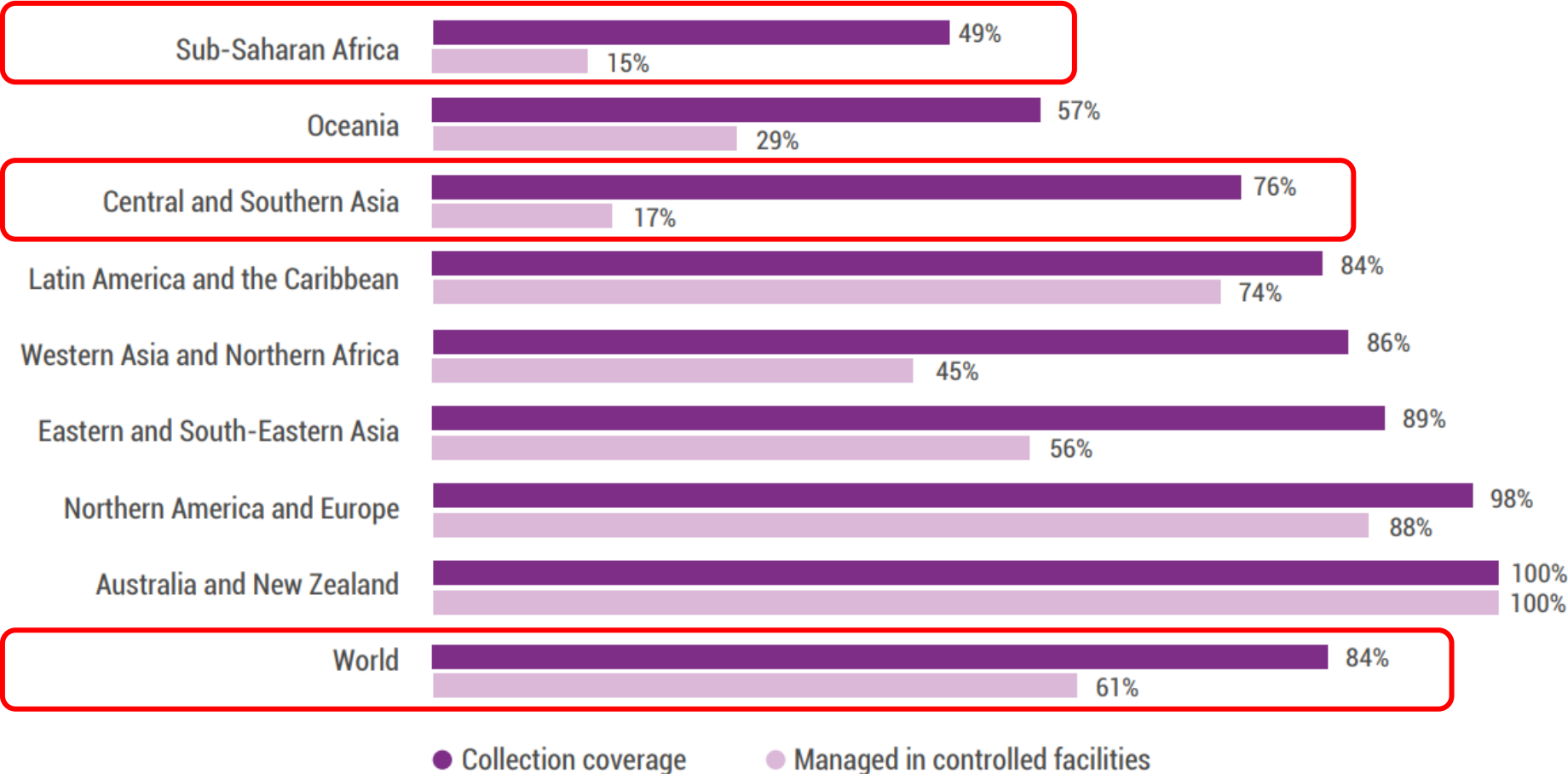
Indicator

Tier 3. awaiting the development of internationally established methodology and standards



SDG Indicator 11.6.1 Monitoring Global Estimate

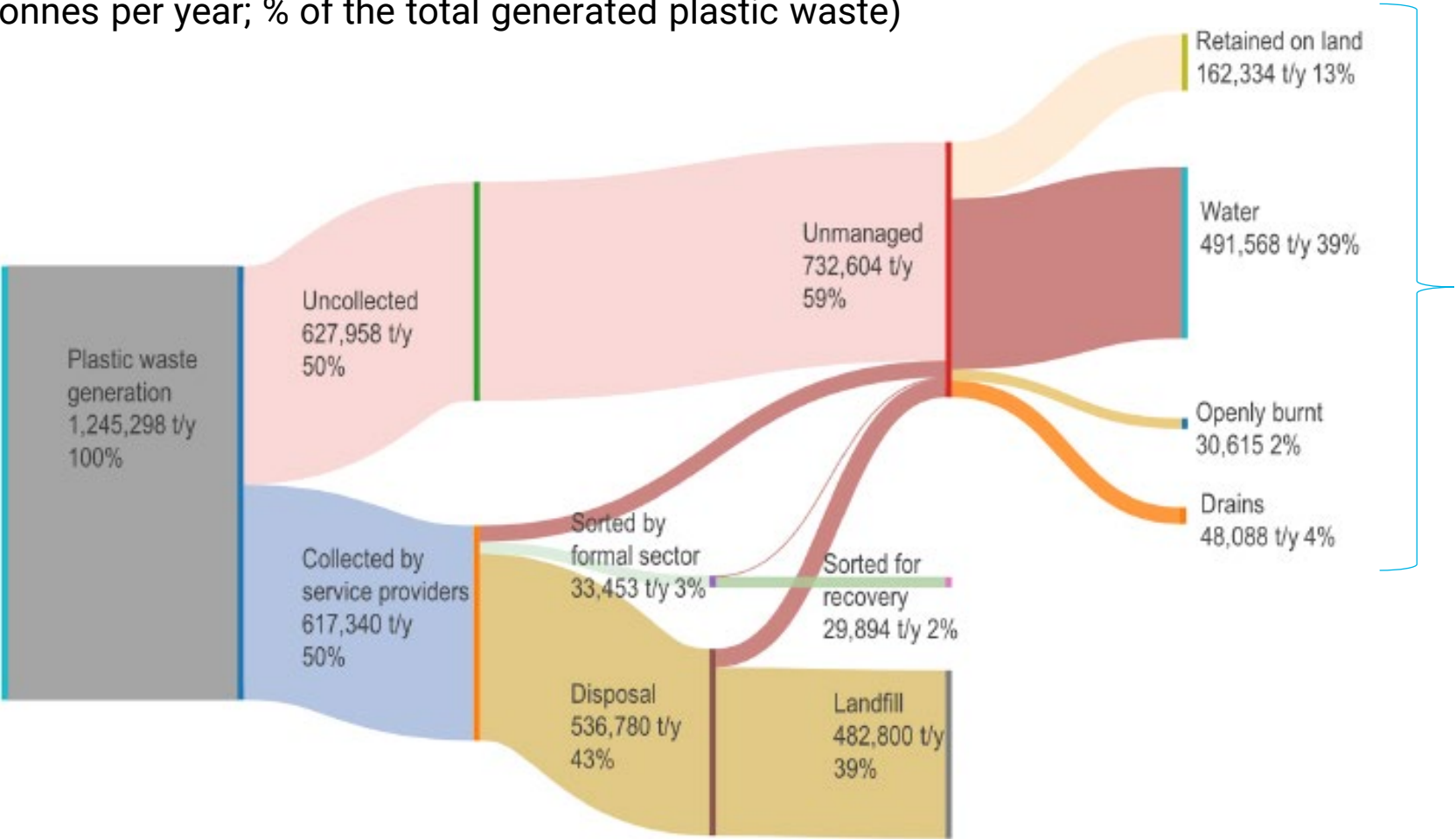
2.3 billion tonnes of MSW generated globally in 2023 , of which almost 40 % mismanaged .



Global collection coverage and waste management status in controlled facilities (UN-Habitat, 2023: SDG 11 Synthesis Report)

SDG Indicator 11.6.1 Monitoring in Lagos

Result of Waste Flow Diagramme in Lagos, Nigeria
(tonnes per year; % of the total generated plastic waste)



58% of total plastic waste generated in Lagos is polluting the environment

34.2 kg/person/year of plastic leaking to water

Recommendation:
Ban of unnecessary single-use plastic -> **The ban has been enacted since Jan 2024**

Low-Value Plastic Upcycling

Objective

Demonstrate sustainable circularity of Low Value Plastics (LVPs) through the application of frontier technologies

Outcomes

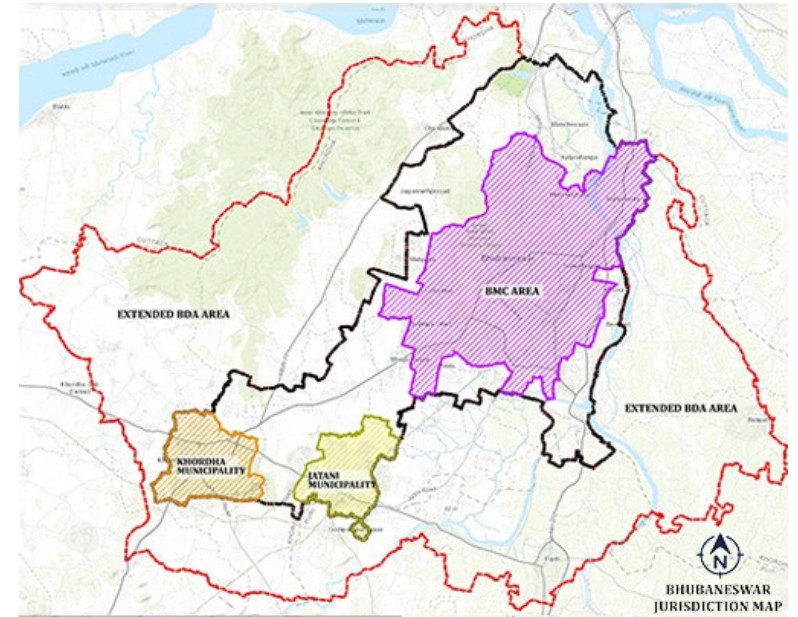
- Reduced plastic pollution
- Promoting green economy – MSMEs and PPPs
- Sustainable livelihoods in waste sector



Paver Blocks & Bricks



Drainage Trench



Project area – BMC Limits

Thank you!

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