

# **COUNTRY BREAKOUT 4 SINGAPORE**

9 February 2023

Presented at: 11th Regional 3R Forum in Asia and the Pacific

Presented by: Khor Zijian, Senior Assistant Director (Sustainability Division)

# Singapore Green Plan 2030 builds on sustainability efforts of preceding decades with sustainability as a new engine of growth



A **national sustainability movement**, with concrete sectoral plans and targets over the next ten years that will position Singapore to **achieve net zero emissions by 2050**



5 Pillars of the SG Green Plan



City in Nature



Sustainable Living



Energy Reset



Green Economy



Resilient Future

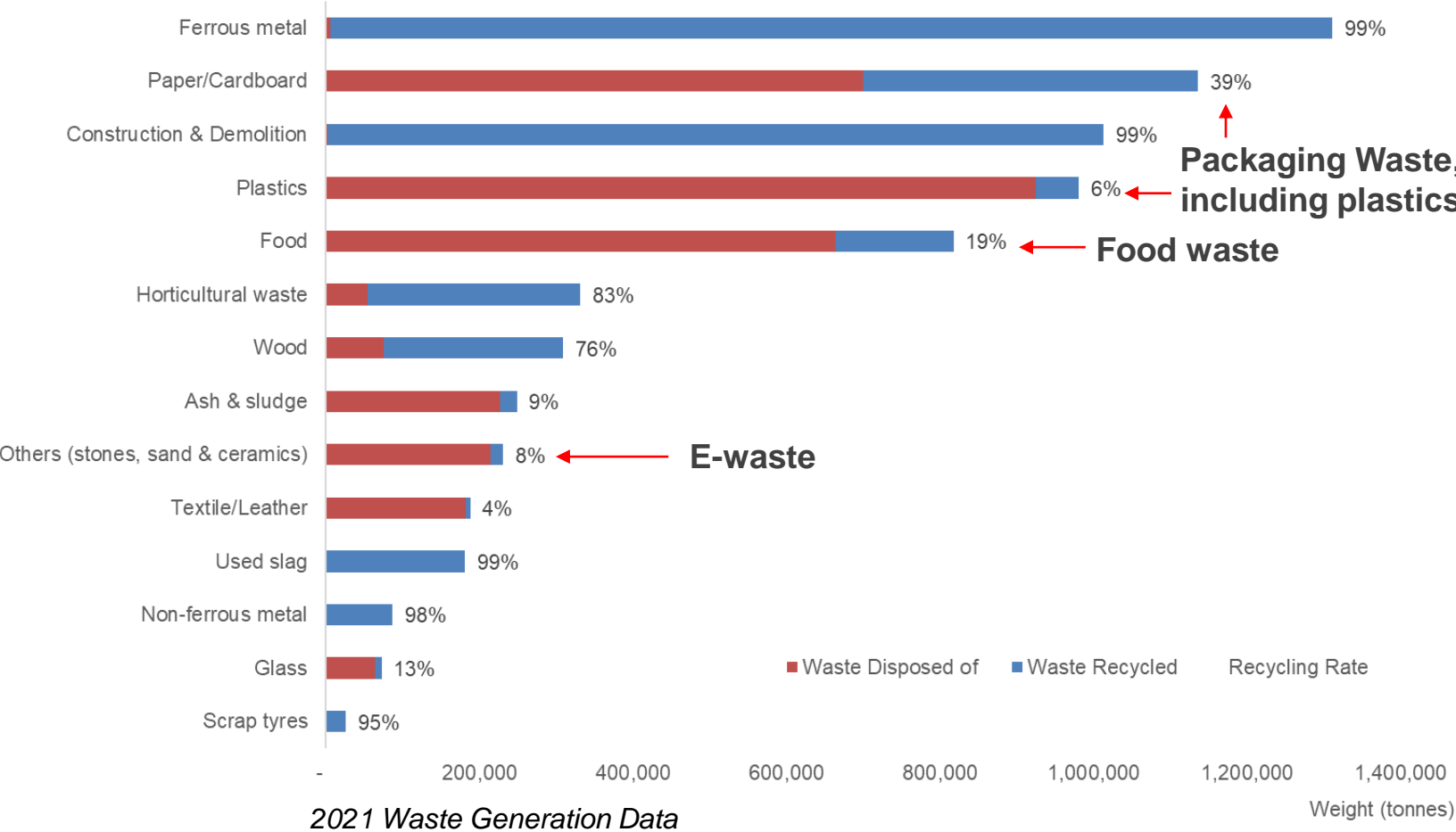
### Target

To reduce the amount of waste (per capita) sent to landfill by **20% by 2026**; and subsequently by **30% by 2030**

For more information, visit [www.GreenPlan.gov.sg](http://www.GreenPlan.gov.sg)

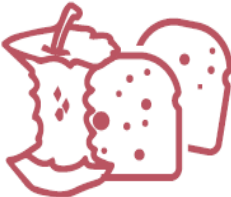
# Resource Sustainability Act (RSA) To Close Three Priority Resource Loops

- RSA gives legislative effect to the regulatory measures targeting three priority waste streams which have relatively high generation and low recycling rates



**Priority Waste Streams**

**Food Waste**






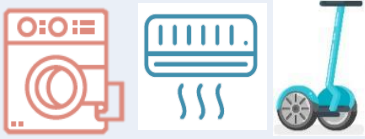

**Packaging Waste, Including Plastics**




**E-waste**



# Closing The E-waste Loop with Industry At The Forefront


<p><b>2021: Extended Producer Responsibility (EPR)</b></p> <p>Covering these products:</p>	<p>1) Lamps</p> 	<p>2) Batteries</p> 	<p>3) ICT Equipment</p> 	<p>4) Large Appliances</p> 	<p>5) Solar Photovoltaic Panels</p> 
--	---	---	---	--	---

**Producers**




- **Consumer EEE:** Required to join a PRS
- **Non-consumer EEE:** Required to provide free take-back services for all end-of-life equipment from clients upon request

**Producer Responsibility Scheme (PRS)**



- PRS operator appointed by NEA
- **Takes on producers' responsibilities** to develop and implement **collection and recycling system** for consumer EEE

**Retailers**



- Required to provide **free one-for-one take-back services** upon delivery of new products
- **Large EEE retailers** (floor area above 300 m<sup>2</sup>): Provision of **in-store collection points**

# Beverage Container Return Scheme as The Starting Point For An EPR Framework For Packaging Waste Management

## Consultation since 2020

- Consulted public, beverage industry, retailers, waste collectors, recyclers
- Stakeholder Group to facilitate development of scheme
- Survey, focus group discussions, nation-wide public consultation conducted
- **4 in 5 people** generally supportive of scheme



## Proposed scheme parameters

### Deposit amount



**Around S\$0.10 - S\$0.20**

- Not too high to discourage from buying beverage
- High enough to incentivise to return container

### Coverage



**Metal cans and plastic bottles**

- High consumption
- High material value
- Ease of collection and compaction

### Return points



**Large supermarkets to set up return points**

- Supermarkets are major sales channel of pre-packaged beverages, and highly preferred return location

# Closing The Food Waste Loop

## 1. Under RSA, mandatory food waste segregation for treatment and reporting by large food waste generators:

### From 2021:

Developers of **new** large commercial and industrial premises to **allocate space for on-site food waste treatment systems** in their design plans

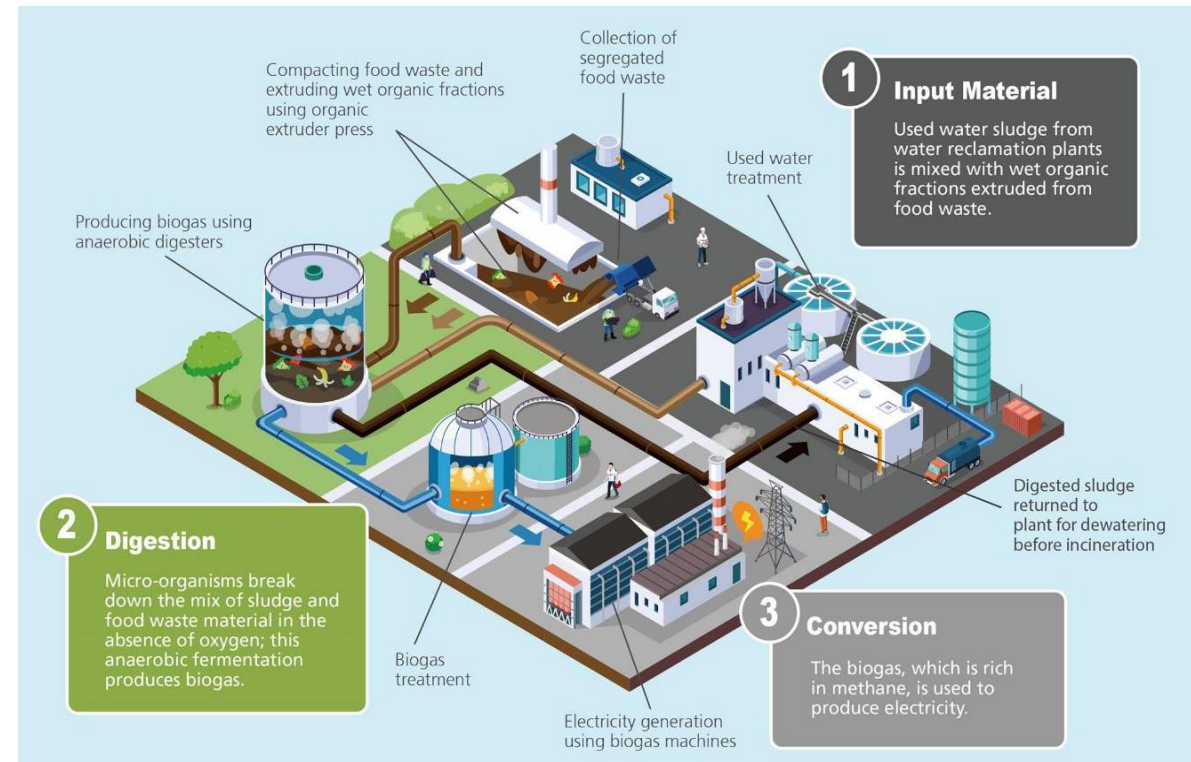
### From 2024 - 2025:

**Mandatory food waste segregation for treatment/recycling** at large industrial and commercial food waste generators

Mandatory food waste reporting by large generators of food waste

Segregated food waste must be treated on-site or off-site

## 2. Sewage sludge and food waste co-digestion facility at Tuas Nexus to enhance biogas production



Our Environment  
Safeguard • Nurture • Cherish

