

# Zero Waste Masterplan

## to Achieve a Sustainable, Resource-Efficient and Climate-Resilient Singapore

### Our Targets

- 1 Extend Semakau Landfill's lifespan **beyond 2035**
- 2 Reduce amount of **waste sent to landfill per capita per day by 30%** by 2030
- 3 By 2030, achieve a **70% overall recycling rate**:  
81% non-domestic recycling rate  
30% domestic recycling rate

#### STRENGTHENING THREE RESILIENCES



##### Climate Resilience

Address existential threats of climate change especially rising sea levels



##### Economic Resilience

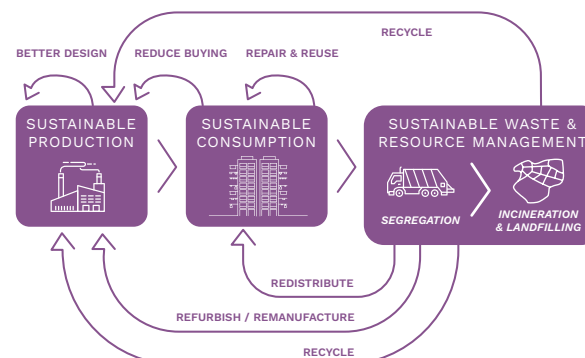
Ensure the future Singapore economy remains competitive by overcoming carbon and resource constraints



##### Resource Resilience

Ensure safe and secure supply of critical resources

To achieve this, we will adopt a circular economy approach



#### GOVERNMENT TAKING THE LEAD

##### Three Priority Waste Streams



Food waste



E-waste



Packaging waste

##### Resource Sustainability Act

Mandatory packaging reporting by **2020**

Extended Producer Responsibility for e-waste by **2021**

Mandatory food waste segregation for treatment from **2024**



Extended Producer Responsibility for packaging, including plastics, **no later than 2025**

#### PUSHING BOUNDARIES THROUGH RESEARCH AND INFRASTRUCTURE

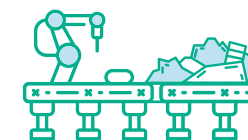


Pneumatic Waste Conveyance Systems

TuasOne Waste-to-Energy Incineration Plant



Pilot Mechanical Biological Treatment facility



##### Tuas Nexus

Comprising Integrated Waste Management Facility and Tuas Water Reclamation Plant to harness synergies across the water-waste-energy nexus



##### NEWSand

Use of incineration bottom ash in construction materials

**\$45 million**  
Closing The Waste Loop R&D Initiative  
8 projects worth almost \$20 million funded as of 2019

**\$25 million**  
Waste-to-Energy Programme  
Prototype testing at \$40 million Waste-to-Energy Research Facility

#### TRANSFORMING THE ENVIRONMENTAL SERVICES INDUSTRY

More than **2,000 firms**

**30,000 workers** to benefit from the Environmental Services Industry Transformation Map by 2025

Gov-PACT innovation calls

**\$30 million** Productivity Solutions Grant (PSG)

Regulatory Sandbox

INCUBATE partnerships

#### CO-CREATING SOLUTIONS WITH THE COMMUNITY

#RecycleRight campaign

More than **250 companies** consulted

New design for recycling bin labels

Over **5,000 households** surveyed on recycling

Citizens' Workgroup on household recycling

More than **1,300 people** participated in public consultation