

### **GA Circular**



Research & Data Analytics



Strategy & Policy Advisory



Technical Assistance



Stakeholder Engagement































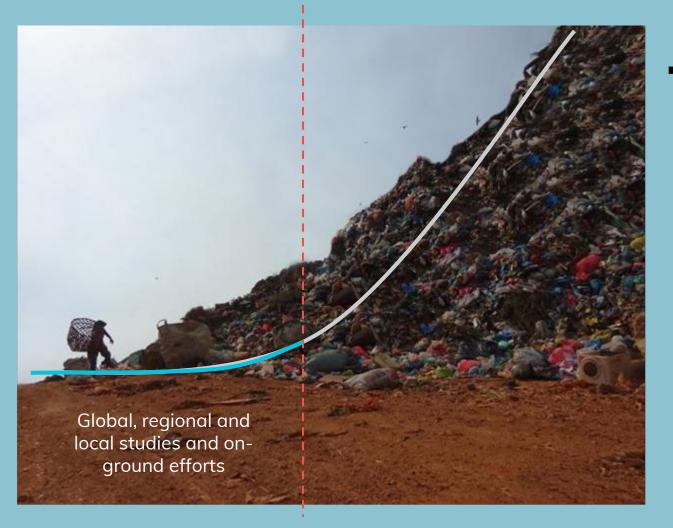






# SCALING THE CURVE





# THE ROAD THUS FAR

- Building Baselines
- Marine Debris and Plastics-Focused Policy
- > Technology
- Informal Sector
  Inclusion
- Behaviour Change



Material Flow Analysis Overview



Value Chain Studies



Leakage Audits



**Landfill Audits** 







### **Key Insights**

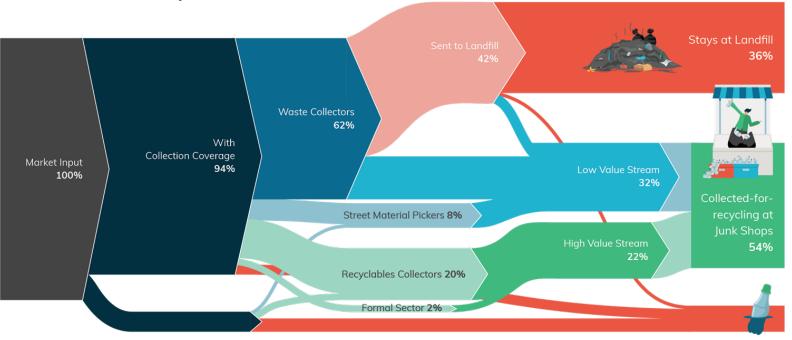
01

Different materials -> Different value chains -> Different Approaches

02

End markets AND Value chain activities influence collection of plastics

Material Flow Analyses



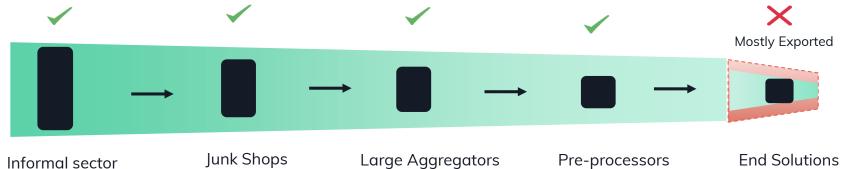
Without Collection Coverage 6%

Environmental Leakage 10%

Source: GA Circular Analysis (2017-2019)

Value Chain Studies - PET

- Offtake opportunity
- Existence of unbroken domestic value chain
- Subject to market challenges and price volatility

















#### **Landfill Audits**













Leakage Audits





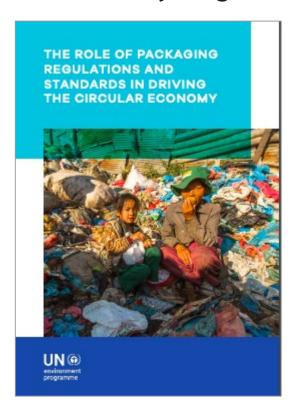






### **Marine Debris & Plastics-Focused Policy**

Identifying Policy Frameworks that will Reduce Leakage and Improve Collection for Recycling



#### **Key Policy Focus Areas**

Marine litter legislation

Plastic bans are being contemplated as SUPs are now at the forefront

Take-back/ EPR policies (Indonesia, Malaysia, recycling policies)



### **Technology**

### **Evaluating Existing and Potential Technologies**

REGULATORY

SUPPORT

SUPPORT

END USE /

PROCESSING CAPACITY /

SCALABILITY

DEGREE OF

CIRCULARITY

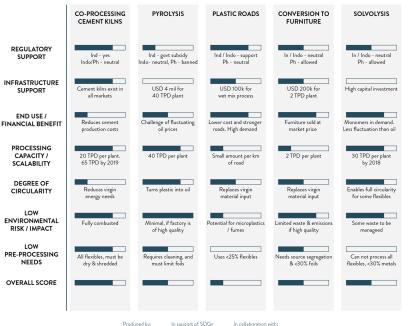
LOW

LOW

NEEDS



SUMMARY OF PROCESSING TECHNOLOGIES FOR POST-CONSUMER FLEXIBLE PACKAGING IN INDIA, INDONESIA, AND THE PHILIPPINES



MK Aromatics plant in Chennai







#### **Key Insights**

Must rely on boosting the existing technology even if it's basic

Capacity Building

Domestic Offtake is essential



### **Informal Sector Inclusion**

### Discovering challenges that are unique to the informal sector















#### **Key Insights**

01

They are critical for recycling in ASEAN

02

Gaps in business knowledge and commodity potential

**03**Declining participation with development



### **Behaviour Change**

There are three critical behaviours to address:



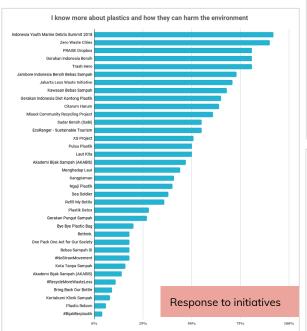
and behaviour change needs to happen throughout the value chain

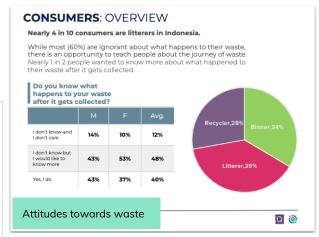
- Producers/ Consumers/ Stakeholders
- Value-chain participants

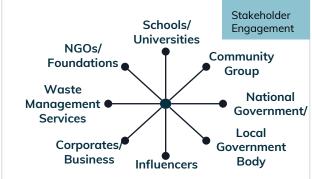
### **Behaviour Change**

### Behaviour change is critical to all aspects

ASEAN Consumers and the Circular Economy - Understanding attitudes towards waste and Mapping of Existing Initiatives in Indonesia







#### **Key Insights**

01

Multi-stakeholder engagement for greater outreach and success

**O2**Consumer profiling is critical

O3
Longer-term and sustained efforts are needed



### THE JOURNEY AHEAD

- Industry-led Efforts
- ➤ The Role of the Government

### **Packaging Recovery Organisations (PROs) in ASEAN**

Vision and Goals of a Collective Industry-led Effort





### **Packaging Recovery Organisations (PROs) in ASEAN**

Countries Committed to an Industry-led Collective Effort





### Packaging Design, Behaviour Change Efforts

Industry-led Singular Efforts

#### **Redesigning Packaging**



Finding alternatives to plastic packaging



Making products more recyclable/ easy for recycling

#### **Behaviour Change Campaigns**





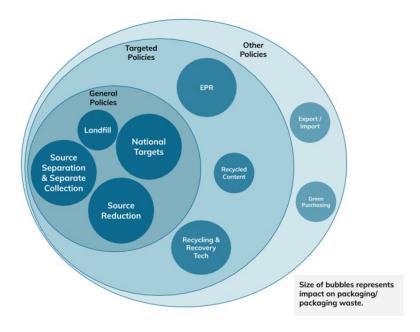




### **Policy Efforts**

#### Government-led Efforts

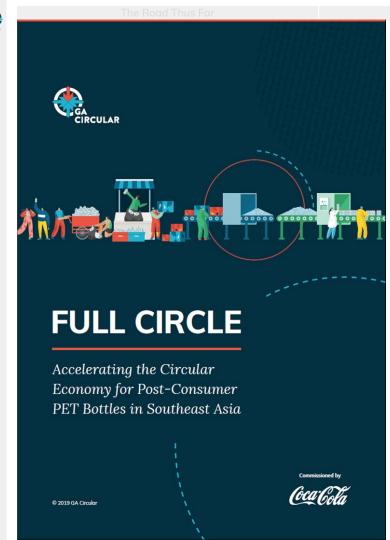
## Country Specific Interventions





#### Prioritization of Source **Embracing key** Separation principles Identification of National **Targets** Commiting to a Circular Economy/ Life Cycle Approach. **Opportunities** Reporting of packaging metrics Conformity of definitions for Labelling practices harmonisation Adoption of process and quality standards The creation of 'technology Inter-ASEAN hubs' trade Export and import convention





#### **FULL CIRCLE**

Accelerating the Circular Economy for Postconsumer PET bottles in Southeast Asia

Examples of previous insights featured are found in GA Circular's most recent report.

Provides a systematic and comparative baseline of the flow of plastics packaging from production to end-states by studying PET bottles in Southeast Asia: Indonesia, the Philippines, Vietnam, Thailand, Myanmar, and Malaysia.



Scan to download the report



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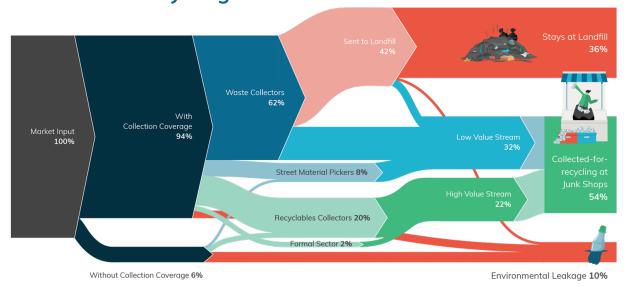
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#### Post-consumer PET bottles in Southeast Asia

Only 54% of bottles sold in the cities studied are collected for recycling.



Source: GA Circular Analysis (2017-2019)



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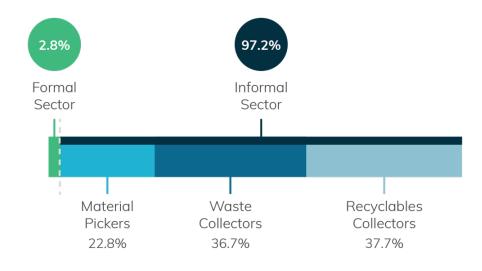
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#### Post-consumer PET bottles in Southeast Asia

The informal sector is responsible for 97% of the PET bottles collected for recycling.



Source: GA Circular Analysis (2017-2019)



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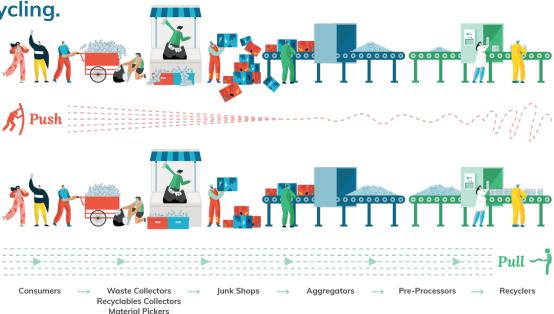
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Post-consumer PET bottles in Southeast Asia

Pulling material through the value chain using a price incentive is a key strategy to achieve 100% collection for recycling.





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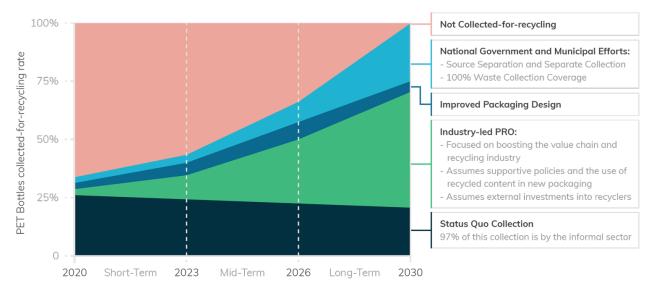
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#### Post-consumer PET bottles in Southeast Asia

### Key levers to achieve 100% collection for recycling of PET bottles in Southeast Asia



Source: GA Circular Analysis (2017-2019) based on primary data collection and examples of ECOCE and PETCO



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