



AN ADVANCED PLASTICS RECYCLING INDUSTRY FOR MALAYSIA

A WHITE PAPER BY



IN COLLABORATION WITH



Why a White Paper?



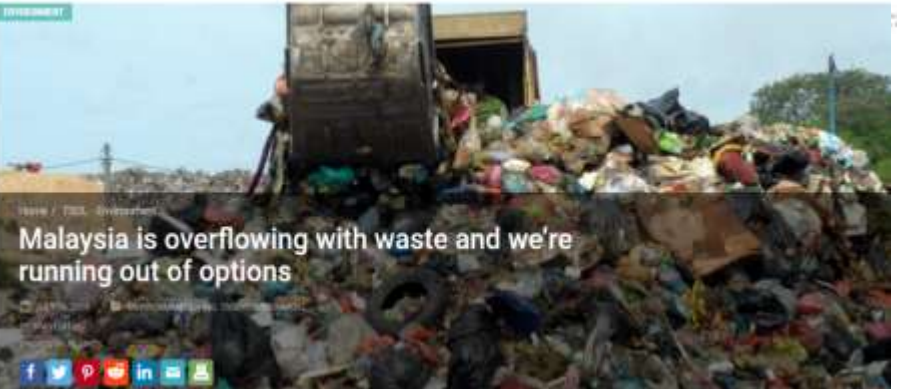
Plastic recycling is a myth: what really happens to your rubbish?

You sort your recycling, leave it to be collected - and then what? From roundabout burning the lot to foreign landfill sites overflowing with British rubbish, Oliver Franklin-Wallis reports on a global waste crisis

Nation

Keeping plastics out

More stringent checks will be carried out on containers at all ports to ensure no prohibited plastic waste enters the country. >9



Malaysia is overflowing with waste and we're running out of options



Trash traitors

It's environment versus security and 'traitors' are doing eco duty at the expense of the country. Minister Mervin Tan says his hands are tied as he tries to get rid of the waste that is being dumped in the country. We will fight back. Even though we are a small country, we cannot be a dumping ground for developed countries' (he said). [Click here](#) on Pages 4 and 5.

'Plastic jungle' a legal factory

Perak DOE: British daily's report wrong, area is recycling plant storage



Photo of plastic waste in the area of the recycling plant storage in Perak. The area is a recycling plant storage, not a landfill site as reported by the British daily.

Negative news creating a misconception of Recycling



Locals claim illegal plastic recycling factories 'protected' by 'Datuk'



Absolutely no more plastic bags in Penang on Mondays from July 1... not even if you pay for it

Published 5 days ago on 08 June 2019
BY THERESA TAN

Residents in the area were very reluctant to talk about the illegal factories... during a check by Bernama.

Blanket ban on plastic waste will hurt legal recyclers, say industry players



Photo of plastic waste in the area of the recycling plant storage in Perak. The area is a recycling plant storage, not a landfill site as reported by the British daily.



Take your trash back

Mountain of trash believed covered up
Locals had clean-up not knowing plastic waste was allegedly buried
RM50,000 fine not enough for illegal plastic waste operators, say NGOs
Return to sender: Malaysia seeks origin of tons of plastic waste
Klang council admits problem closing down illegal plastic plants

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Bans alone won't reduce plastic usage, say environ groups



KUALA LUMPUR (Bernama) The government and non-governmental organisations (NGOs) should get their hands dirty and not depend on laws alone to get people to reduce their plastic use, say local environmental groups.



‘sampah plastic’

- A symptom of mismanaged foreign waste smuggled in by unlicensed recycling operators
 - A timely reminder that Malaysia also needs to address its own plastics waste

Recycling is a core component of efficient and effective waste management systems, and an advanced plastics recycling industry will support an effective and sustainable waste management system





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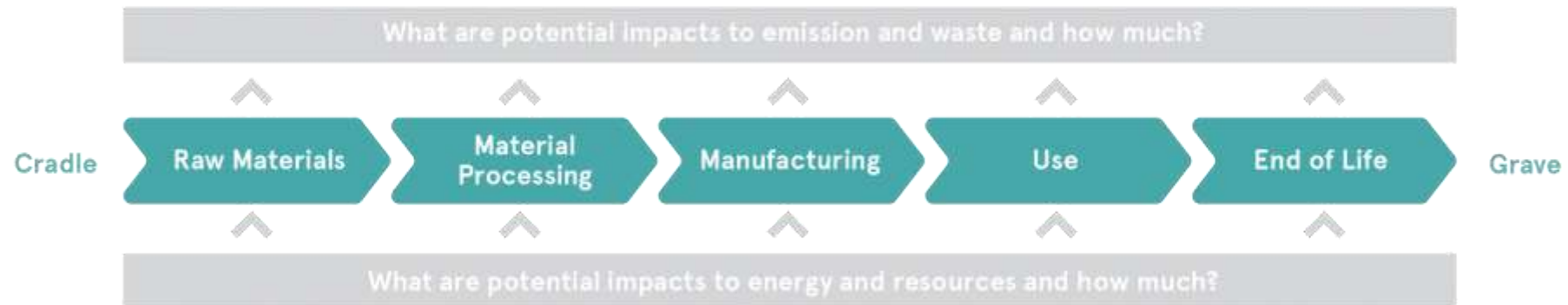


The White Paper:

- *is a vision of an advanced plastics recycling industry - one that counters plastics pollution*
- *demonstrates how a vibrant plastics recycling industry will benefit the country's economy and enhance the government's efforts to advance its sustainability agenda*
- *promotes plastics recycling as a key component in the country's efforts to embrace circular economy - it is the core to an effective and efficient waste management system*

GOALS

Malaysia is in critical need of wider collaboration,
as managing the flows of plastics from cradle to the grave
is a multi-stakeholder undertaking



GOALS

The importance of properly managing plastics streams and waste management infrastructure in order to develop a viable and successful circular economy



GOALS

The potential of plastics recycling as a contributor to Malaysia's economy



- Plastics are valuable resources that can be transformed into new feedstock or into energy instead of being buried in landfills.
- To advance up the value chain, it is not just the plastics recyclers who need to upgrade their equipment and technology to produce higher value recycled feedstock.
- Malaysia as a country must encourage higher quality investments in the recycling of all materials, from plastics to construction waste.

OBJECTIVES

01

Keep plastics in the economy whereby recyclables are treated as materials and resources

Build an advanced plastics recycling industry as part of an effective waste management system

02

03

Address plastics throughout its lifecycle in the transition to a circular economy

Shared responsibility for the environmental impact with all parties involved in a product's life cycle, under government-led or industry-led, voluntary product stewardship

04

05

Promote the adoption of the Extended Producers Responsibility (EPR) concept in Malaysia

Improve the national recycling rate to 35 percent of local plastics recyclables (more than double the current rate) by 2025

06

07

Study and recommend improvements to plastics recycling facilities and infrastructure through new technologies

Contribute to the development of frameworks for better regulation and improved waste management system

08

09

Grow the plastics recycling industry's contribution to the Malaysian economy to RM20 billion a year from the current revenue of RM4.5 billion

Why the need for an advanced recycling industry?

TO MANAGE WASTE - BETTER

Klang council admits problem closing down illegal plastic plants

Bernama - June 4, 2019 12:15 AM

698
Shares

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41

14

1



Plastic parts and waste dumped at a site in Kampung Teluk Gong, Klang. (Bernama pic.)

KLANG: The Klang Municipal Council (MPK) has admitted difficulties in curbing illegal plastic recycling activities following delays by the utility companies in cutting off electricity and water supply to the plants.

Court fines two Selangor factories RM120,000 for illegal plastic recycling

Published 4 months ago on 17 May 2019

BY IDA LIM



Plastic waste is piled outside an illegal recycling factory in Jerarom, Kuala Langat October 14, 2018. — Reuters pic



SN

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other, Dr M tells UN

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force to consolidate

Sampah Plastik is caused by illegal recyclers who have smuggled in dirty, contaminated, unsorted plastic household waste from high-income countries

198 containers of plastic waste at Msian ports - but where did they come from?



Malaysia wants to return almost 200 shipping containers believed to contain plastic waste, officials said Thursday, but first they need to work out where they came from. — NSTP Archive

Illegal plastic recycling plants - 'Operators shifted to other states'



Mountains of plastic waste at an illegal recycling factory found operating at an oil palm estate in Jerarom, Kuala Langat, May 17, 2018. — LUDMAN HAKIM ZUBRI

By AFP - August 29, 2019 @ 8:11pm

RECOMMENDED

By Daren Chai - February 14, 2019 @ 10:12am

RECOMMENDED

Sampah Plastik

This has caused:

- Unlicensed and unregulated factories to mushroom in places like Jenjarom and Teluk Gong, Selangor and Sungai Petani, Kedah
- Illegal landfills and dumps of sampah plastik left abandoned as illegal recyclers attempt to escape the clampdown
- Abandoned dumps and landfills pose a pollution risk especially to surrounding communities

Sampah Plastik

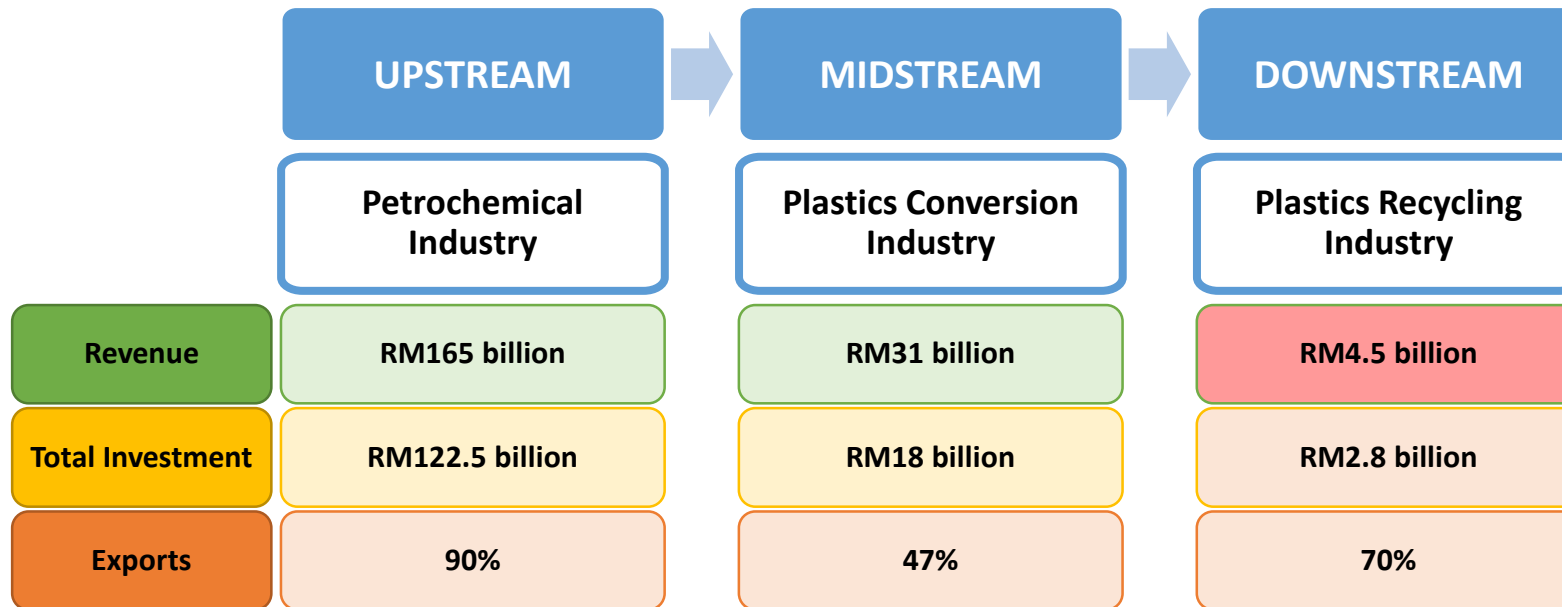
- Malaysia is in the process of recovering from this crisis - within 6 months, local authorities have shut down more than 150 of these unlicensed factories
- We do not condone any illegal activities and support the clamp down against unlicensed recycling operators who break the law and pollute the environment

Why the need for an advanced recycling industry?

- *The plastics recycling industry plays a crucial role in any country's waste management system.*
- *Recycling alleviates the immense pressure on landfills while reducing the amount of recyclable material which would be permanently lost.*
- *Recycling also prevents pollution as part of an effective waste management system.*

Plastics recycling industry as a vibrant contributor to Malaysia's economy

Plastics Recycling industry produces 1.5 million tonnes of recycled resins a year worth approximately **RM4.5 billion** in revenue, roughly 50% of its production generating foreign exchange earnings for the country



Plastics recycling industry supports the RM31 billion local plastics industry - a key supply chain to the local electrical and electronics and automotive industry

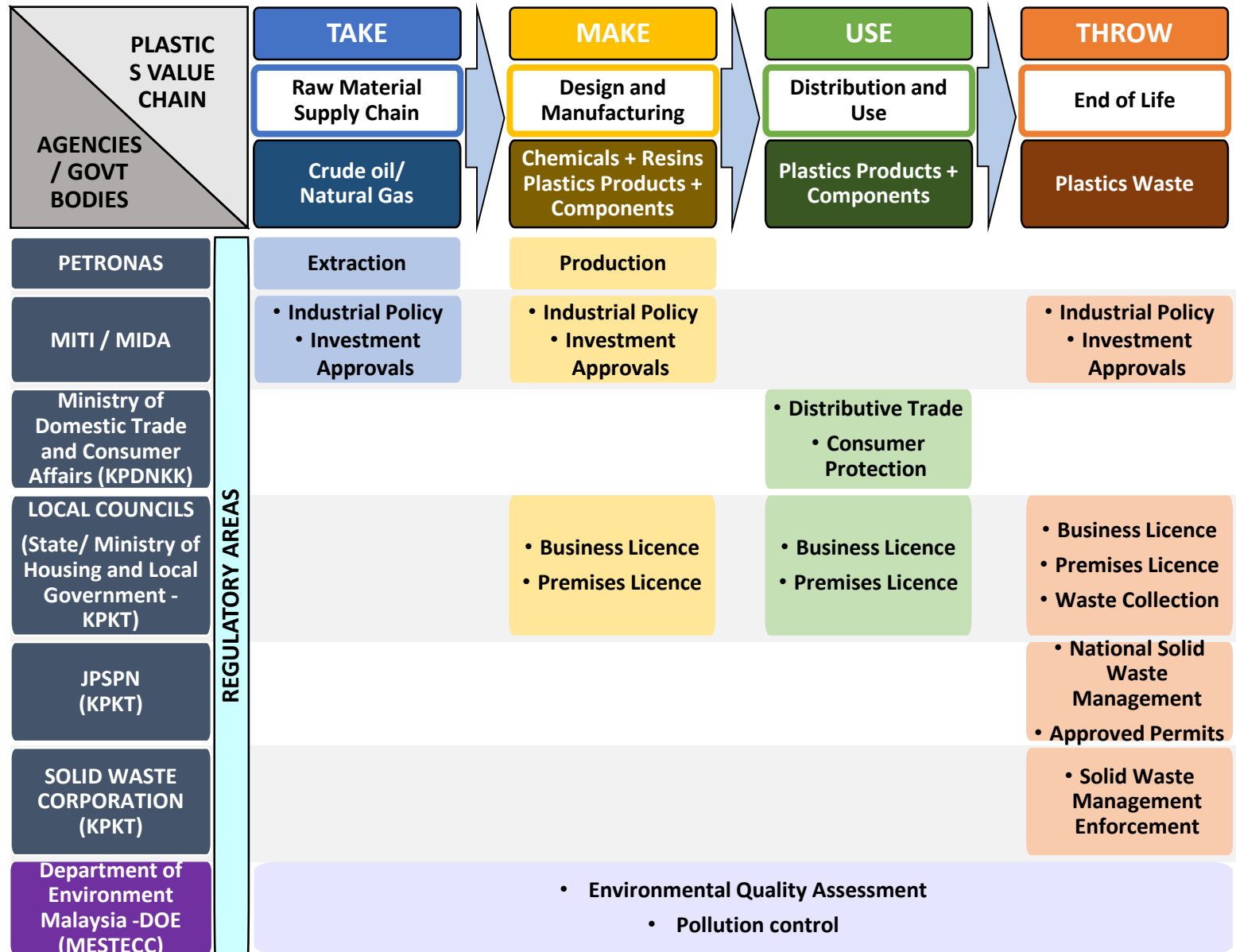
Plastics recycling industry as a vibrant contributor to Malaysia's economy

- As export-oriented economy, Malaysia generates plastics waste along the entire value chain of the manufacturing sector - With manufactured goods comprising 55% of exports, and electronic and electrical products making up 34% of total exports
- MPMA and MPRA estimates the total value of manufactured plastics goods, or goods containing plastics parts, across sectors in the economy amounts to approximately RM320 billion per annum - the electronic and electrical sector produces RM290 billion of end-products which contain plastics, while the automotive sector produces RM25 billion and the F&B sector RM3 billion

An advanced plastics recycling industry will require significant organisational and collaborative effort across all agencies overseeing and regulating the plastics industry value chain

This is necessary to achieve better efficiencies and efficacy in recycling plastics wastes

A simple outline which shows there is a complex array of regulators enforcing various laws and policies, from raw material to consumption to waste



Malaysia is in critical need of wider collaboration

- Managing the flows of plastics from cradle to the grave is a multi-stakeholder undertaking
- Adopting Extended Producers Responsibility (EPR) schemes in Malaysia - in order to better connect regulation with the circular economy. Introducing EPR schemes can push producers' incentive to change product designs in environmentally benign ways, such as making products that are easily recyclable or reusable

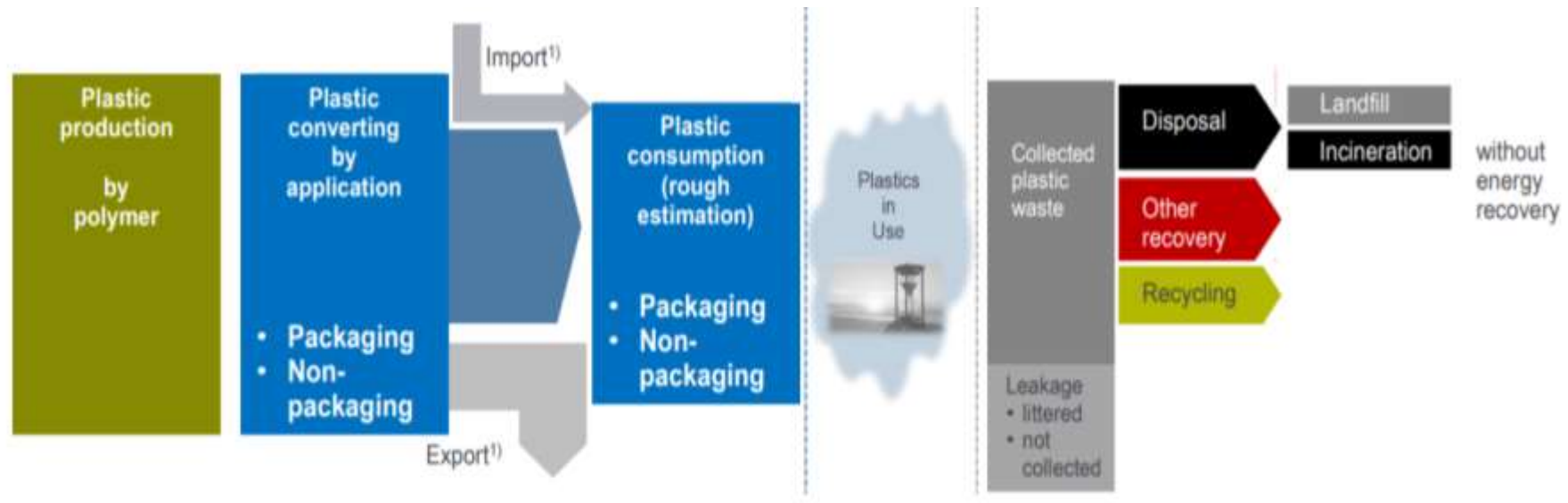
(Organisation for Economic Co-operation and Development, n.d)

Malaysia is now preparing to take the next step towards sustainability and in the process of developing a circular economy

In a circular economy, the waste becomes a valuable resource, to be recycled as raw material and made into new products and not thrown away

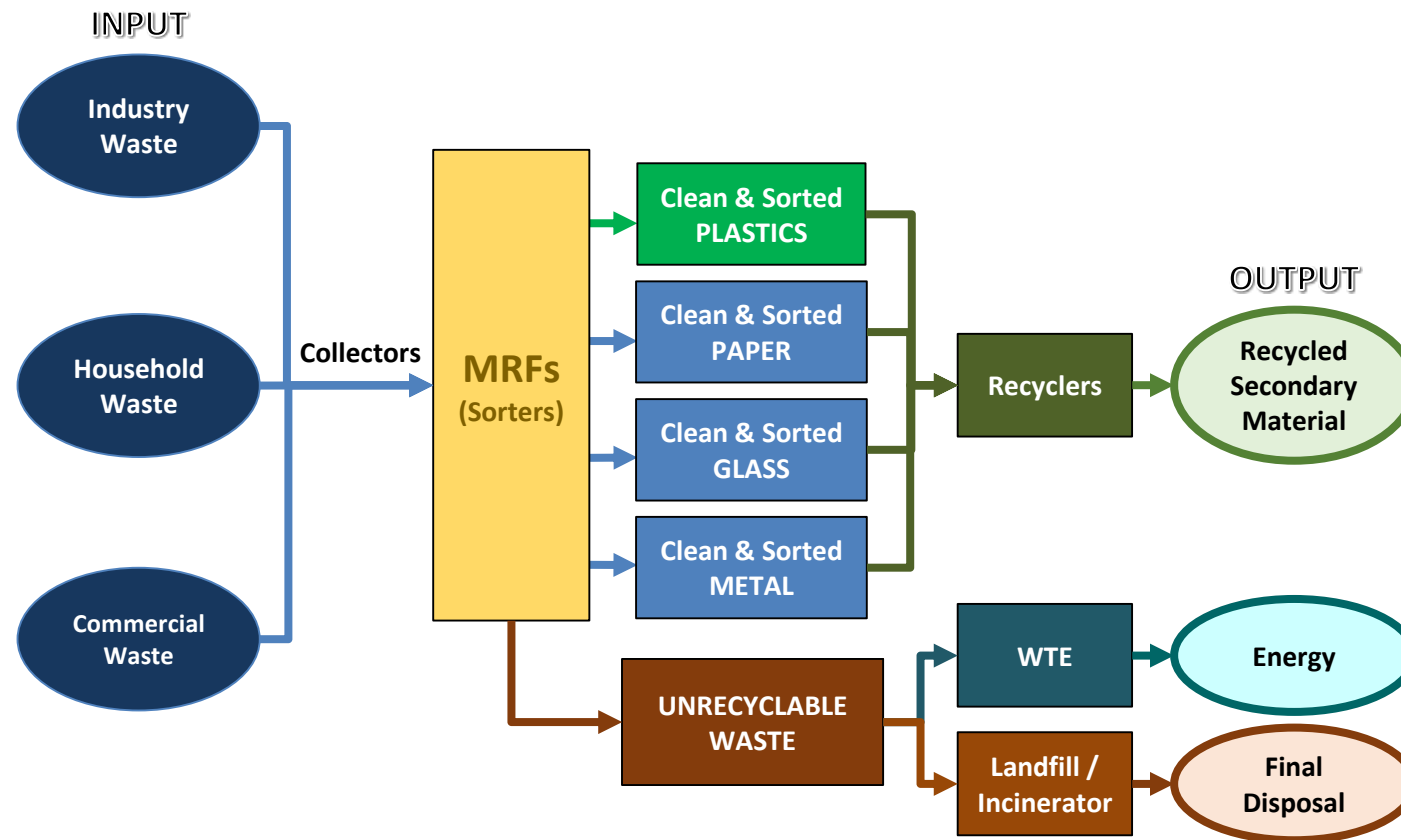
Proper management of plastics streams and waste management infrastructure for a successful circular economy

- The country's low recycling rate is an indication of gaps and deficiencies in the current waste management system which lacks the resources to develop sustainably*



1) On continental and selected country basis

MPMA & MPRA's Vision of an Effective Waste Management System



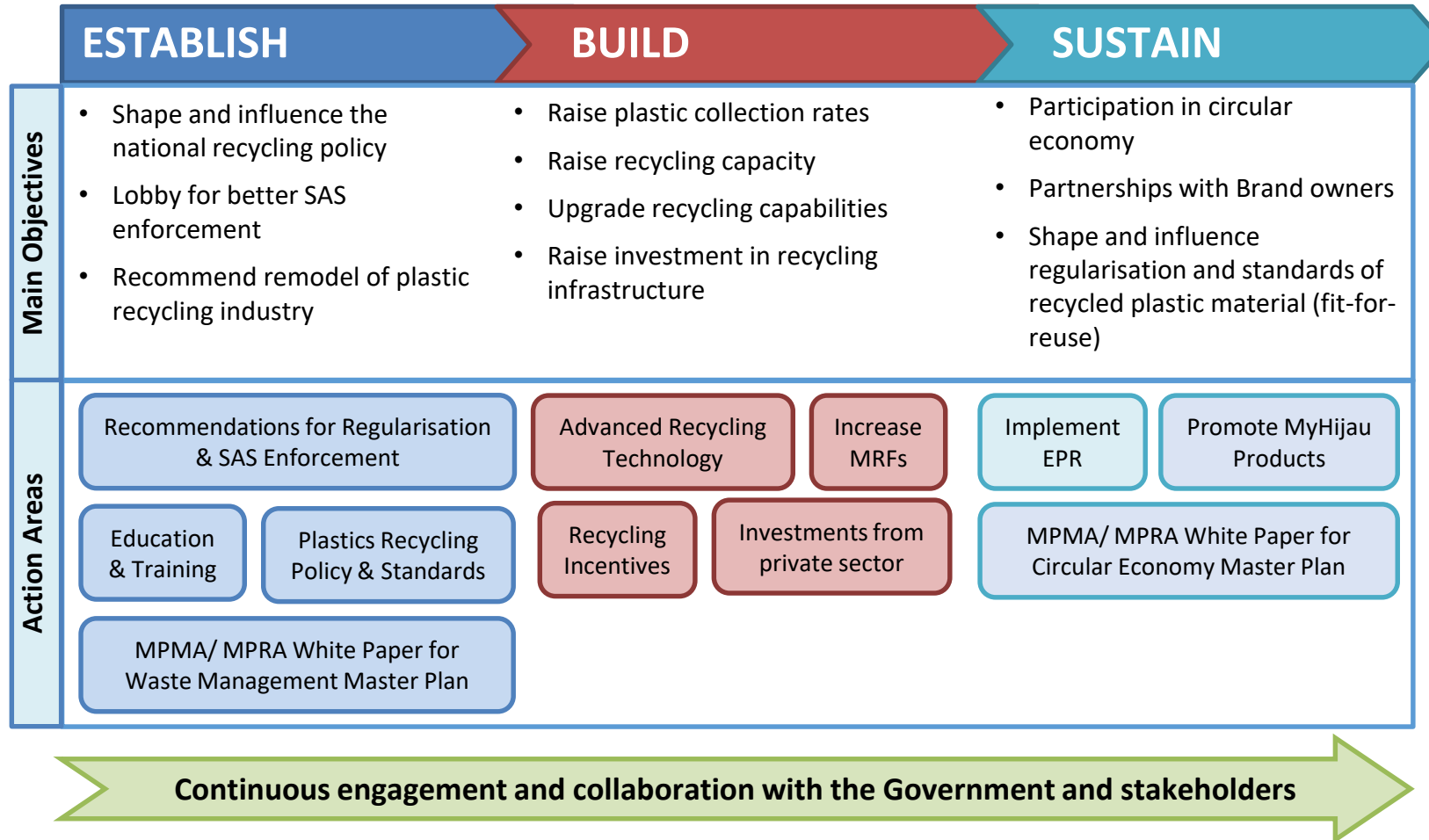
Proper management of plastics streams and waste management infrastructure for a successful circular economy



- In a circular economy, the waste becomes a valuable resource, to be recycled as raw material and made into new products and not thrown away.
- This reduces the need to extract more natural resources and the impact on the environment.
- Redeploying waste as a resource to be used over and over is the organising principle of circular economies, which is why recycling plays an important role

The Future of Plastics Waste Management

Build an Advanced **PLASTICS** Recycling Industry to Counter **PLASTICS** Pollution



With better technology and increased capacity, Malaysia's advanced plastics recycling industry could grow its contribution by three to four times, to RM15 billion to RM20 billion annually

THANK YOU