

PLASTICS.

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De Palma Hotel Shah Alam



MALAYSIAN
PLASTICS
MANUFACTURERS
ASSOCIATION



Did you use
any plastics
today?










How is plastics made?



Source: National Geographic

Types of recyclable plastics

 PET	 HDPE	 PVC	 LDPE	 PP	 PS	 OTHER
POLYETHYLENE TEREPHTHALATE	HIGH DENSITY POLYETHYLENE	POLYVINYL CHLORIDE	LOW DENSITY POLYETHYLENE	POLYPROPYLENE	POLYSTYRENE	OTHER PC POLYCARBONATE



Why is plastics invented?

The first synthetic polymer, cellulose, was invented in 1869 to replace ivory (elephant tusks). This discovery was revolutionary as it **reduces humans' dependence on natural resources**. In 1907, Bakelite was invented as electrical insulator and since then, plastics development booms rapidly.

PAST



Plastics:

1. Easy to carry – light and flexible
2. Clean – no transfer of ink on food surface
3. Fresh – prolong food freshness and can be frozen
4. Saves space – reduces transportation cost and carbon footprint
5. Convenient – small packaging i.e. 3 in 1 sachets is travel-friendly

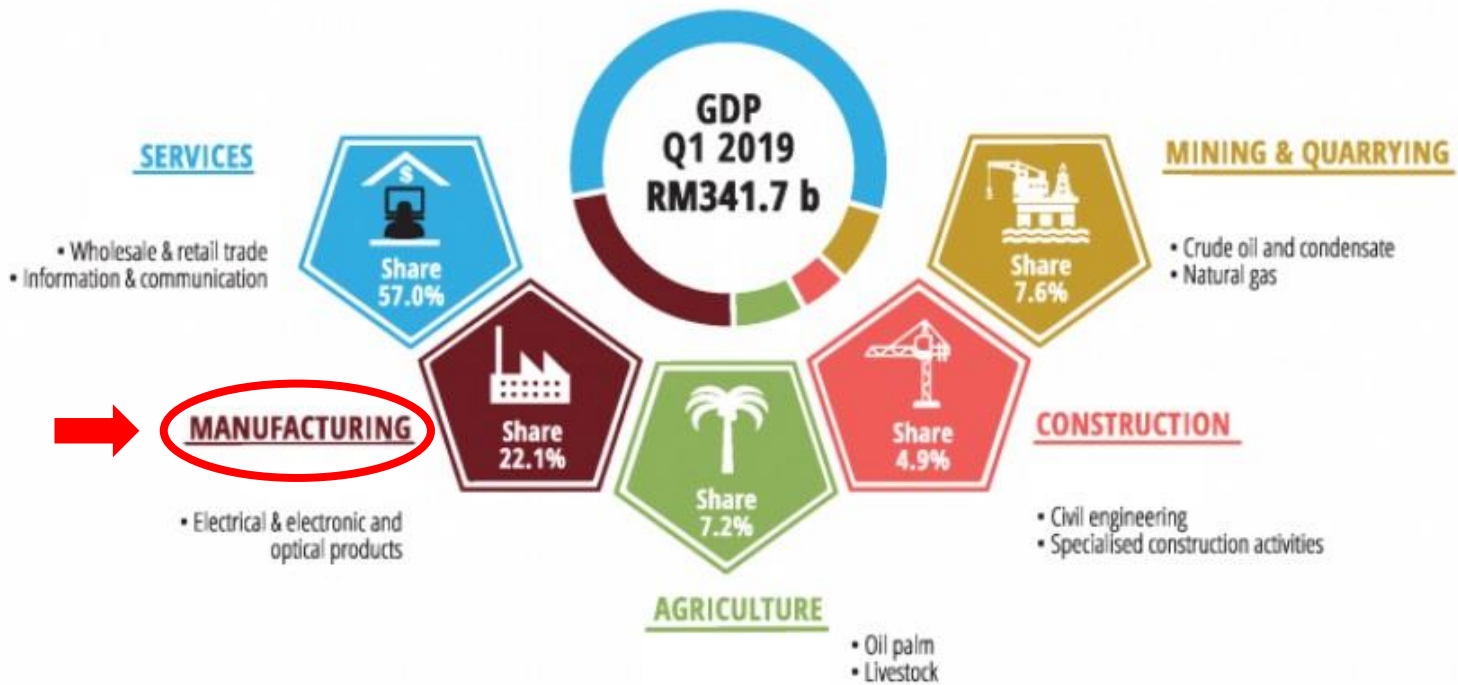
PRESENT



The manufacturing sector

PRODUCTION

Services, Manufacturing and Agriculture sectors anchored the Malaysia's economy



Plastics as an enabler industry

MANUFACTURING



1. Petroleum, Chemical, Rubber and **PLASTIC**

2. Electrical & Electronics Products

3. Food, Beverages & Tobacco

4. Transport Equipment & Other Manufacturers

5. Textile, Wearing Apparel, Leather & Footwear

6. Wood, Furniture, Paper Products & Printing

7. Non-Metallic Mineral Products, Basic Metal & Fabricated Metal Products



Plastics value chain in Malaysia

RECYCLERS

Collect, recover, recycle and reprocess plastics products / waste into raw material / products again.

RESIN PRODUCERS

Produce of raw material for plastics in the form of pellets or powder.

RETAILERS & CONSUMERS

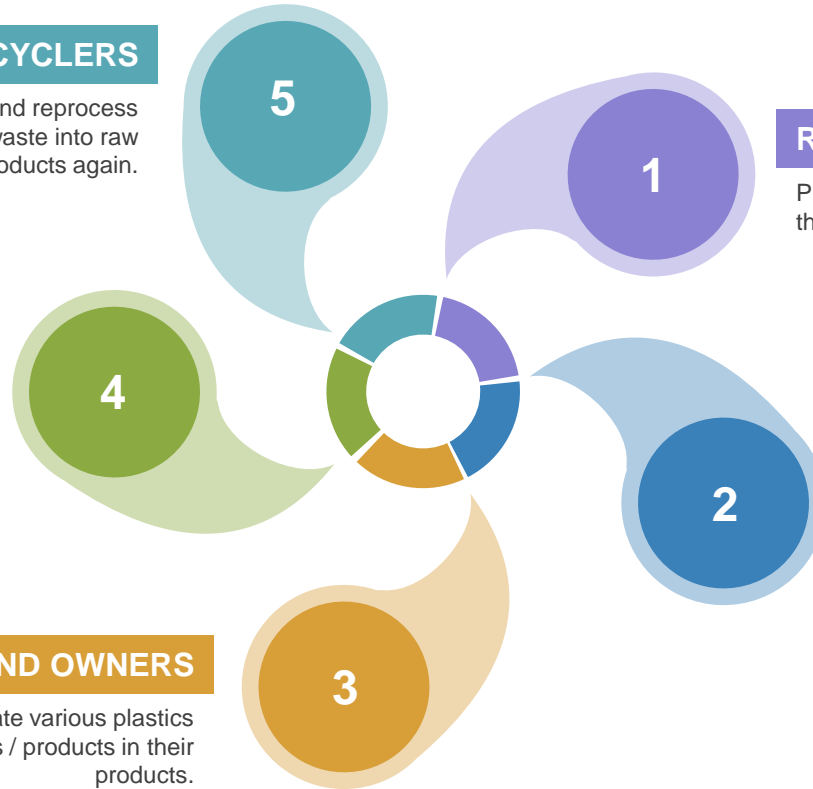
Sell, use and dispose plastics products.

MANUFACTURERS

Manufacture all kinds of plastics products; from simple bags and bottles to complex automotive parts and medical devices.

BRAND OWNERS

Use / incorporate various plastics components / parts / products in their products.



Circular economy

Conventional plastics to be separated and sent for recycling. Recycled resin can be channelled back into the manufacturing process.

Biodegradable plastics have to be separated and sent to industrial composting facility to be degraded.



Source: Green Dot Bioplastics



Unfortunately...

Despite plastics enabling advancement and development in various industries, and providing convenience to human lifestyle,

mismanagement of plastics waste poses one of the greatest threats to the environment.



The plastics industry is as united as ever to play its part in addressing this problem by accelerating

efforts towards achieving **circular economy**.

Plastics industry's actions

PCG, Plastic Energy sign MoU on addressing plastic waste

Last update: 27/06/2019



BRAND OWNERS

R&D in developing **mono-material packaging** to ease recycling

01

Colgate redesigned the toothpaste tube so it's actually recyclable

The new design will be fully rolled out by 2020.



Plastics producers gear up for shift to circular economy

Business - June 22, 2018 3:41 PM

02



RESIN PRODUCERS

Investment in **chemical recycling** to recycle non-recyclable plastics e.g. multi-layered packaging



03

MANUFACTURERS & RECYCLERS

Continuous development to **increase recovery rate** of plastics such as **EPR** towards achieving **circular economy**

What can you do as consumers?

Try to figure this
out throughout
the conference!



Plastics ain't that bad after all if you know how to manage it

Thanks!

Any questions?

You can find me at:



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