



# BEAT PLASTIC WASTE

Spread awareness and solve plastic waste issues in the environment throughout the ASEAN community



# OBJECTIVES



8 DECENT WORK AND  
ECONOMIC GROWTH



4 QUALITY  
EDUCATION



Is to achieve sustainable economic growth while decreasing the emission of waste over the life cycle of products, improve better education qualities and opportunities, also aim at minimizing and strongly reducing the plastic waste pollution in ASEAN

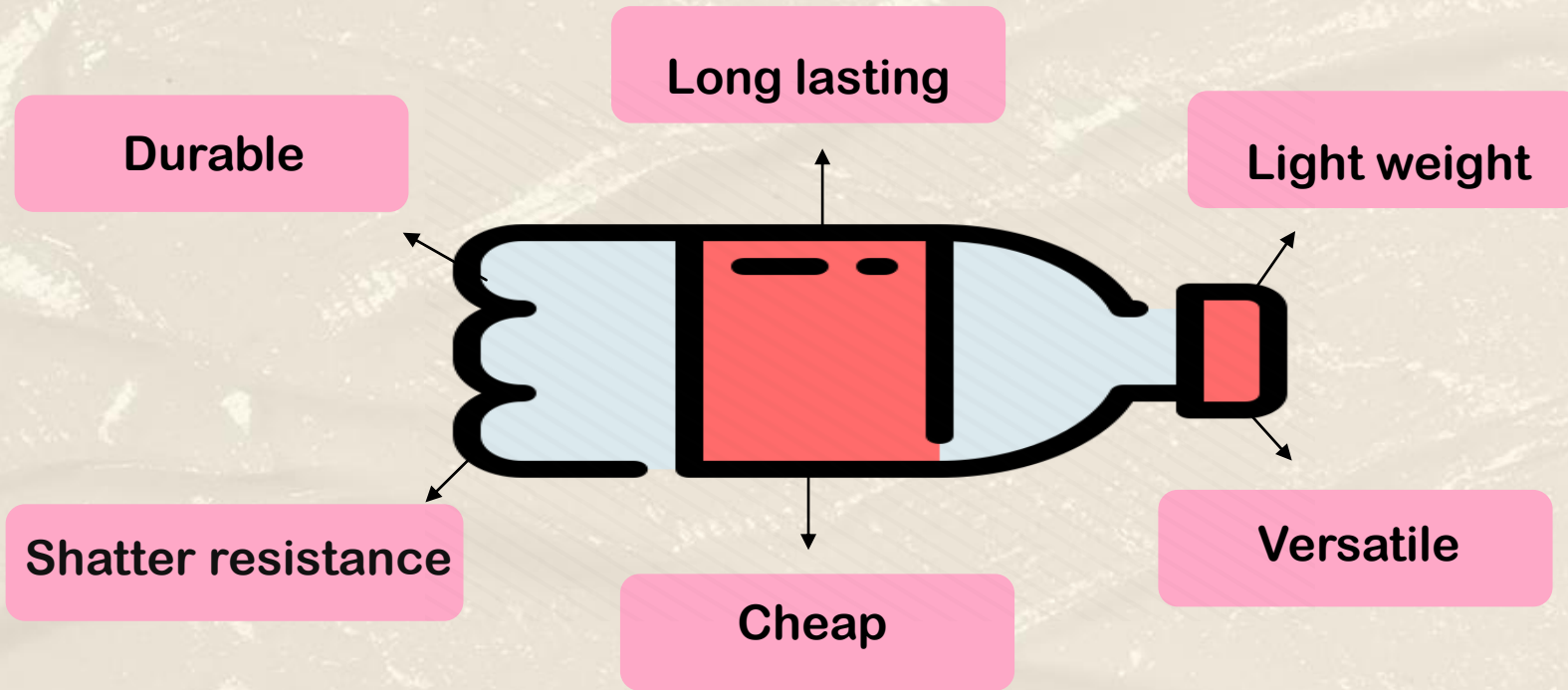
Table I Amount of Waste Generation and Composition of MSW in ASEAN Countries

No.	Countries	Waste Generation			MSW Composition (%)										
		Per Capita MSW Generation (kg/capita/day)	Annual MSW Generation (In ton)	Annual Hazardous Waste Generation (In MT)	Annual E-waste Generation (In Metric Kiloton ton)	Food/ Organic Waste	Paper	Plastic	Metal	Glass	Textile	Rubber	Grass/Wood etc. waste	Construction Debris	Others
1	Brunei Darussalam	1.4	210480			36	18	16	4	3					
2	Cambodia	0.55	1089429			60	9	15		3	1	1			
3	Indonesia	0.70	64000000			60	9	14	4.3	1.7	3.5	5.5			2.4
4	Lao PDR	0.69	77380		8.00	64	7	12	1	7	5	3			
6	Malaysia	1.17	12840000	1517434.06		45	8.2	13.2		3.3					27.3
5	Myanmar	0.53	841508			73	2.24	17.75		0.45	1.14				5.15
7	Philippines	0.69	14660000	1693856.72	39000	52	8.70	10.55	4.22	2.34	1.61				
8	Singapore	3.763	7514500	411180	110	10.5	16.5	11.6	20.8	1.1	2.1		8.6	16.9	11.9
9	Thailand	1.05	26770000	3300000	368.314	64	8	17.62	2	3	1.4	1	1		
10	Viet Nam	0.84	22020000		1609.775	55	5	10	5	3		4			

Source: Fourth ASEAN State of Environment Report 2009, available from: [www.environment.asian.org](http://www.environment.asian.org) (accessed 7 August 2016); AIT/UNEP, Municipal Waste Management Report: Status-quo and issues in Southeast and East Asia Countries, 2010; Regional 3R Forum in Asia and the Pacific: Country Report; Baldé, C.P., Wang, F., Kuehr, R., and Huisman, J., The Global E-waste Monitor, 2014, United Nations University; Country Presentation for 3R Meeting of the Regional 3R Forum; and Basel Convention National Reports -Year 2014, available from: <http://www.basel.int/Countries/NationalReporting> (accessed 7 August 2016); Ocean Conservancy and Trash Free Seas Alliance (2017), the Next Wave: Investment Strategies for Plastic free Seas, p. 69, available from: <http://www.oceanconservancy.org/our-work/marine-debris/the-next-wave.pdf> (accessed 20 March 2017).



# What is plastic and where does plastic waste come from?



Plastic is a valuable resource in many ways, but plastic pollution is an unnecessary and unsustainable waste of that resource. Packaging is the largest end-use market segment accounting for over **40%** of total plastic usage.

Produce packaging



Building and construction



textiles



Consumer products



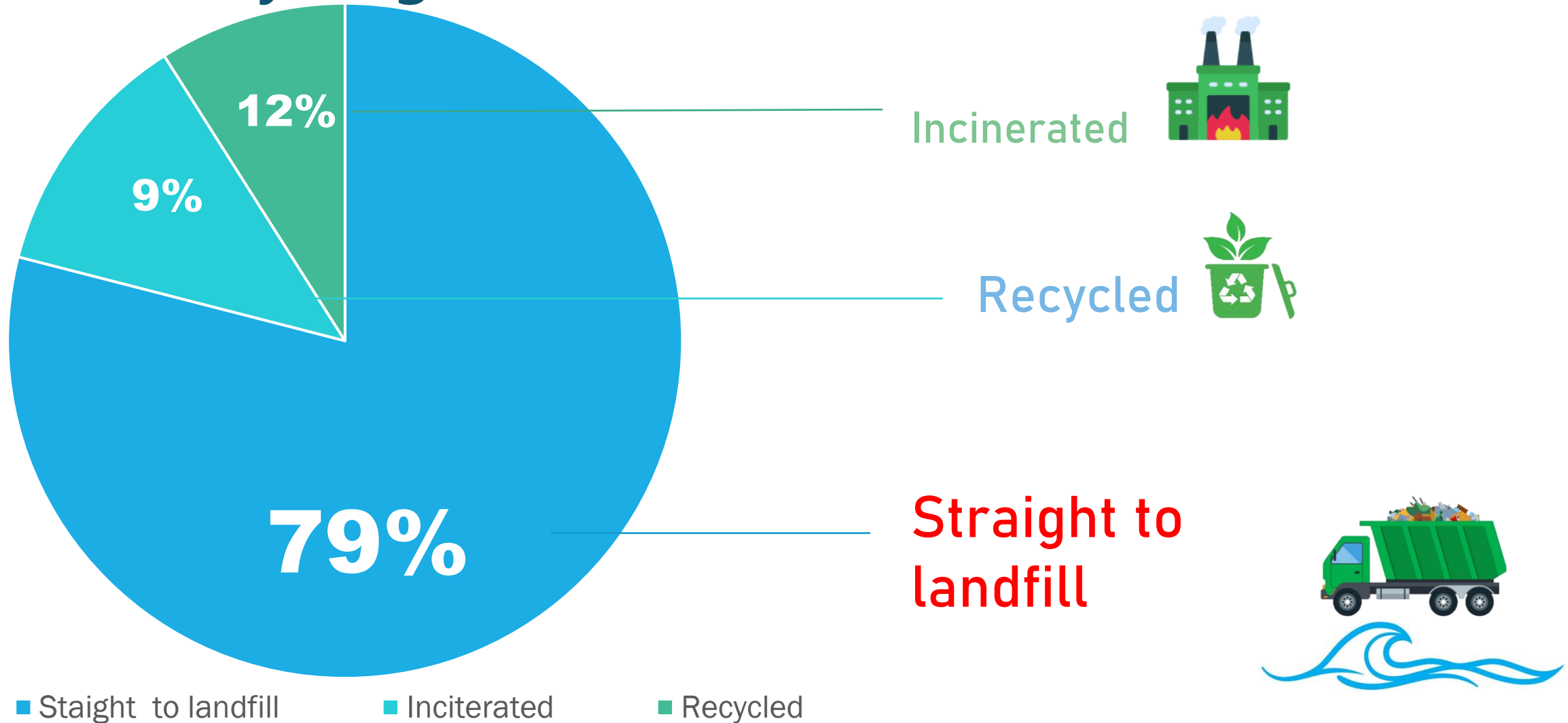
transportation



Electronics and industrial machinery



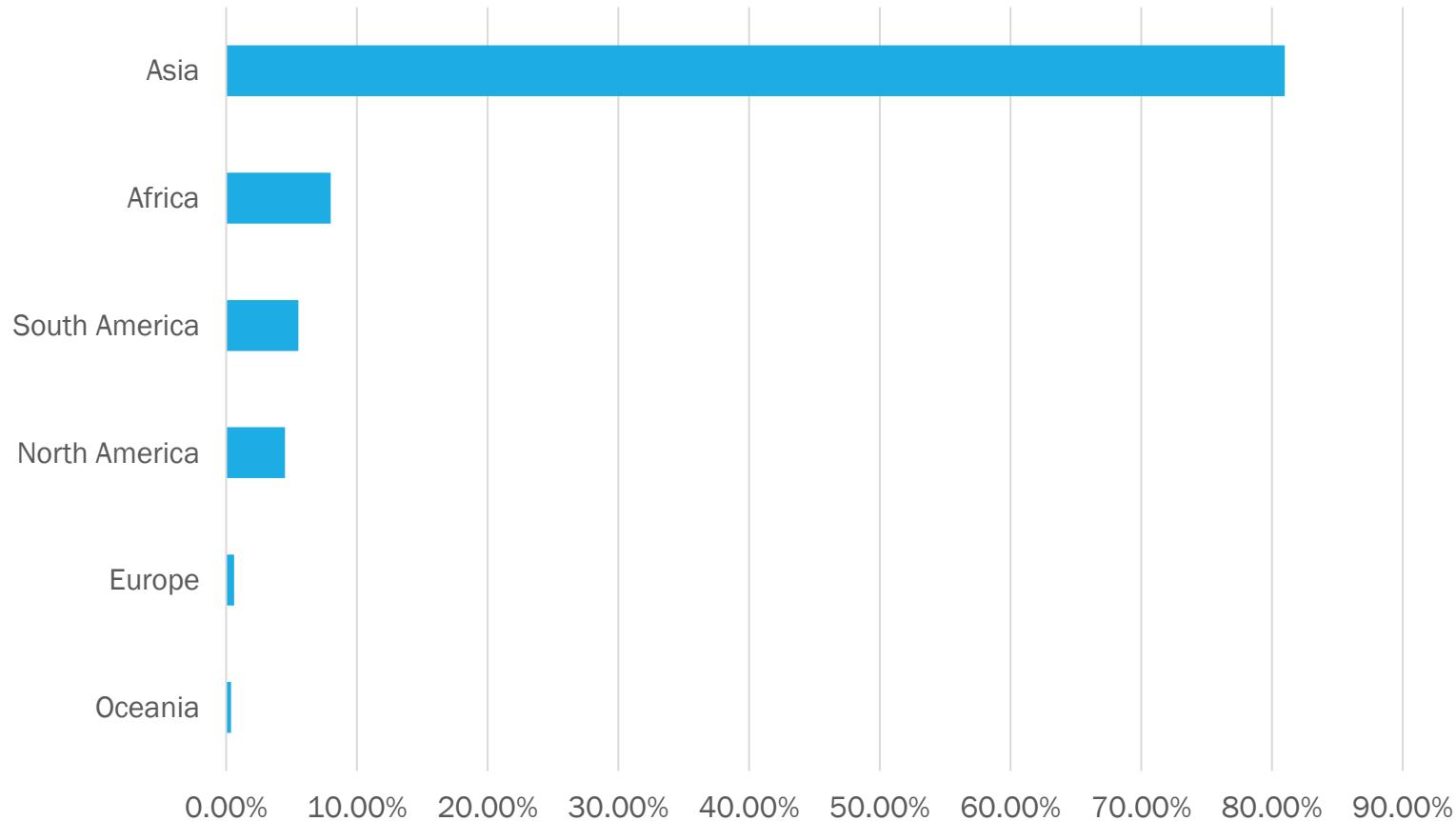
# Low Recycling Rates





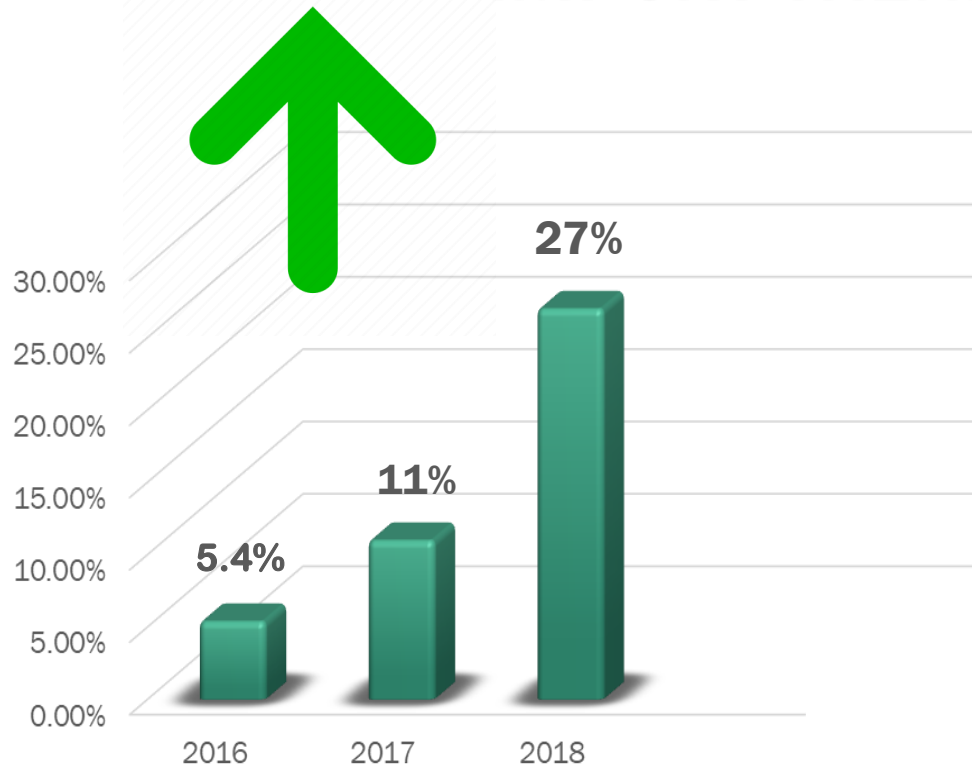
# CONTINENT THAT EMIT MOST OCEAN PLASTICS 2019

% OF TOTAL PLASTIC EMISSION PER CONTINENT

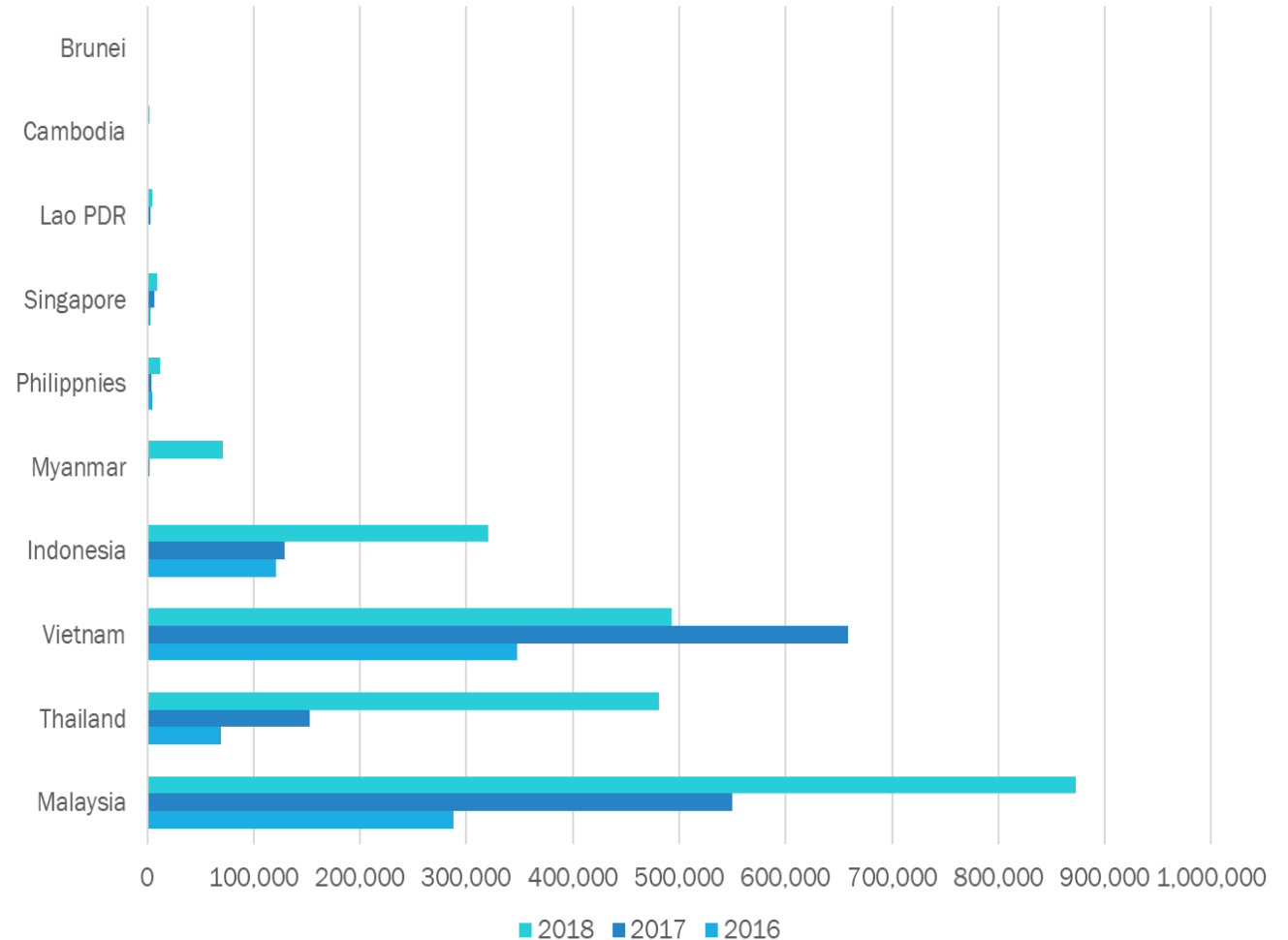


Asia accounts for up to **81%** of global plastic inputs to the ocean.

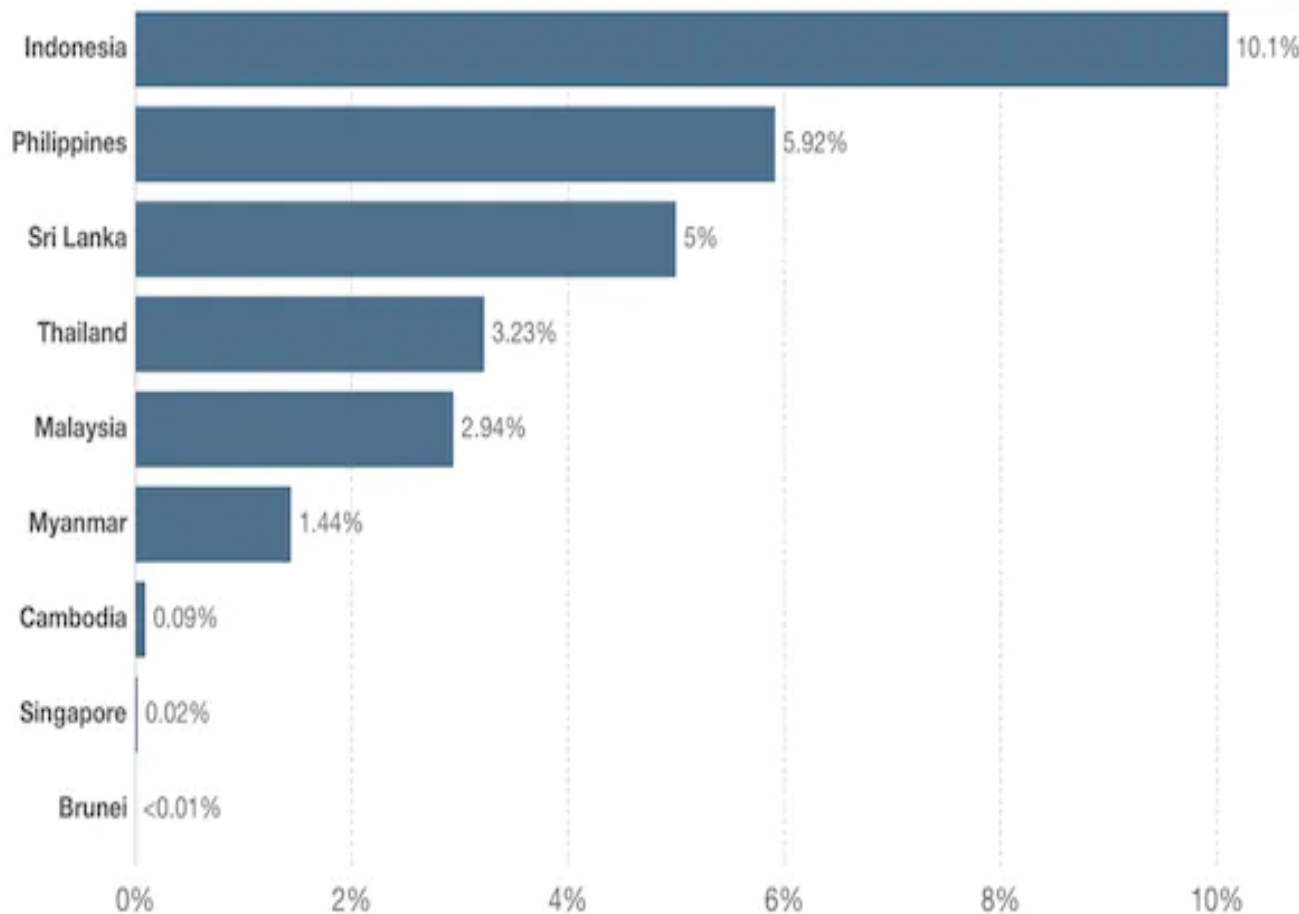
## PLASTIC WASTE SOUTHEAST ASIA IMPORT TRENDS IN TONS 2016-2018



Over **25%** of the world's  
plastic waste import



## Mismanaged plastic waste derived from ASEAN countries



The combined marine plastic pollution of ASEAN accounted for **1.4-3.54 million metric tonnes** (MT) per year, out of 8-12 million MT globally.



# Indonesia's Plastic Statistics 2018

Plastic pollution has a devastating impact on Indonesia's rich natural ecosystems



200 – 550,000  
Tones of plastic



2,000 full  
Boeing 747

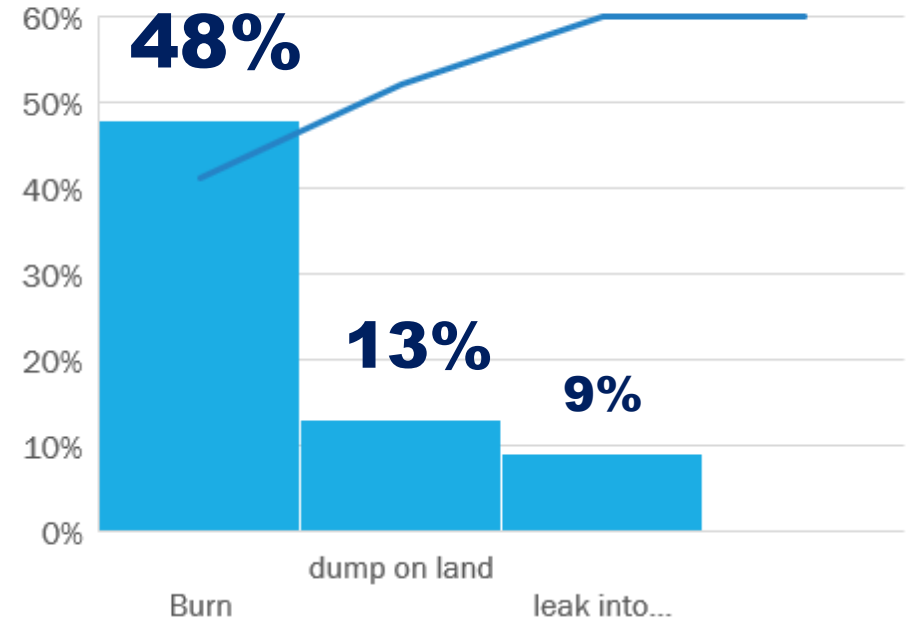
The damage of plastics to  
Indonesia's ocean economy

US\$ 450  
million per year



Revenue lost in Indonesia  
due to plastics

\$US 147  
million per year



**70% percent of plastic waste  
or about 4.8 million tons** per  
year, was mismanaged in various ways.



9

**BUT, THE PROBLEMS ARE  
WORSEN BY COVID-19**



1

increases needs during the pandemic, and  
the WFH period results in more packaging  
due to more online shopping.



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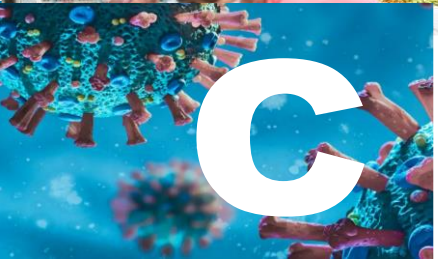
■ The Pollution Control Department of Thailand  
recently reported that the amount of plastic waste,  
especially plastic packaging, increased by 15% from  
because the demand for delivery tripled.



V



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5,500 tons

6,300 tons



1.15 kg / per person a day

Sources: <https://www.sciencedirect.com/>, [www.tei.or.th](http://www.tei.or.th)

# The problem of plastic bottle wastes also arise from education.

- Environmental studies are not widely executed and are not emphasized enough in some schools within ASEAN.
- Limited to no time dedicated to environment studies within
- No table slots for students to learn environment studies, making students unaware of the environmental problem with plastic wastes

VPSI Secondary 2021 - 2022  
12A, Term 1  
Vientiane Pattana School, Souphanouvong Rd., Khounta Village

	Homeroom 8:15 - 8:25	Period 1 8:25 - 9:25	Period 2 9:30 - 10:30	Period 3 10:50 - 11:50	Period 4 12:40 - 13:40	Period 5 13:45 - 14:45
Mo	307 Homeroom Jang Brian	106 Uni prep. Allison James	301 Physics Andreas Mike 107 Business Studies Watling Jim 112 Music/Dance/MP Arellano C. / Guillen JP	205 Chemistry Burabod Dhanont 101 Economics Sivasubramanian Charu	106 English Dixon Evan	102 Maths Koh Siew Leh 110 Art Henderson Jamie
Tu	307 Homeroom Jang Brian	102 Maths Koh Siew Leh 110 Art Henderson Jamie	202 Biology Bollisay Evan 307 Travel & Tourism Jang Brian 210 IT Isa Romeo	PE Ruiz Adrian	106 English Dixon Evan	
We	307 Homeroom Jang Brian	301 Physics Andreas Mike 107 Business Studies Watling Jim 112 Music/Dance/MP Arellano C. / Guillen JP	102 Maths Koh Siew Leh 110 Art Henderson Jamie	106 English Dixon Evan	205 Chemistry Burabod Dhanont 101 Economics Sivasubramanian Charu	202 Biology Bollisay Evan 307 Travel & Tourism Jang Brian 210 IT Isa Romeo
Th	307 Homeroom Jang Brian	301 Physics Andreas Mike 107 Business Studies Watling Jim 112 Music/Dance/MP Arellano C. / Guillen JP	202 Biology Bollisay Evan 307 Travel & Tourism Jang Brian 210 IT Isa Romeo	205 Chemistry Burabod Dhanont 101 Economics Sivasubramanian Charu	102 Maths Koh Siew Leh 110 Art Henderson Jamie	
Fr	307 Homeroom Jang Brian	301 Physics Andreas Mike 107 Business Studies Watling Jim 112 Music/Dance/MP Arellano C. / Guillen JP	202 Biology Bollisay Evan 307 Travel & Tourism Jang Brian 210 IT Isa Romeo	205 Chemistry Burabod Dhanont 101 Economics Sivasubramanian Charu	102 Maths Koh Siew Leh 110 Art Henderson Jamie	

INTERNATIONAL SCHOOL

## Pathana School 2021 - 2022

	Period1 7:30-9:20	Period2 9:40-11:30	Period3 13:00-14:50	Period4 14:50-15:50
MO	ENGLISH	COMPUTER	MATH	PHYSICS
TU	HISTORY	LAO	CHEMISTRY	ENGLISH
WE	LAO	PE	PHYSICS	MATH
TH	MATH	CHEMISTRY	BIOLOGY	ENGLISH
FR	SOCIAL-STUDIES	GEOGRAPHY	MATH	MEETING

LAO PRIVATE SCHOOL

# SUMMARY

- **ECONOMY:**

- **IMPORTS AND CONSUMPTION**

As a country of importation, we have bought hundred tons of plastic everyday, they are seen as containers, utensil wrapper. Further more, the transportation of products in the country creates double of containers and wrapper.

- **EDUCATION:**

Conscious mind of using plastic is mainly up to the knowledge, personalities of human being training and educating influences to this point too.





## Recommendation

### Flaura house ... the ultimate software in recording and analyzing plastic bottles data

#### INTRODUCING



**FAURA HOUSE** is software program which functions to collect data and analyze the quantity of plastic bottles which are sold in a daily , monthly or yearly basis. This is to ensure that we will be able to know the amount of target plastic bottles which are needed to be reduced or recycled.

## 1. CONSUMERS



## 2. SUPERMARKET / Emporiums



## 3. USE



4



Dump

# THE FAURA HOUSE'S JOURNEY

8



PACKAGING  
AND  
DISTRIBUTION

7



DESIGN AND  
PRODUCTION

6



FACTORY

5



SDG4  
TARGET 4.7



SDG8  
TARGET 8.2

SDG8  
TARGET 8.3

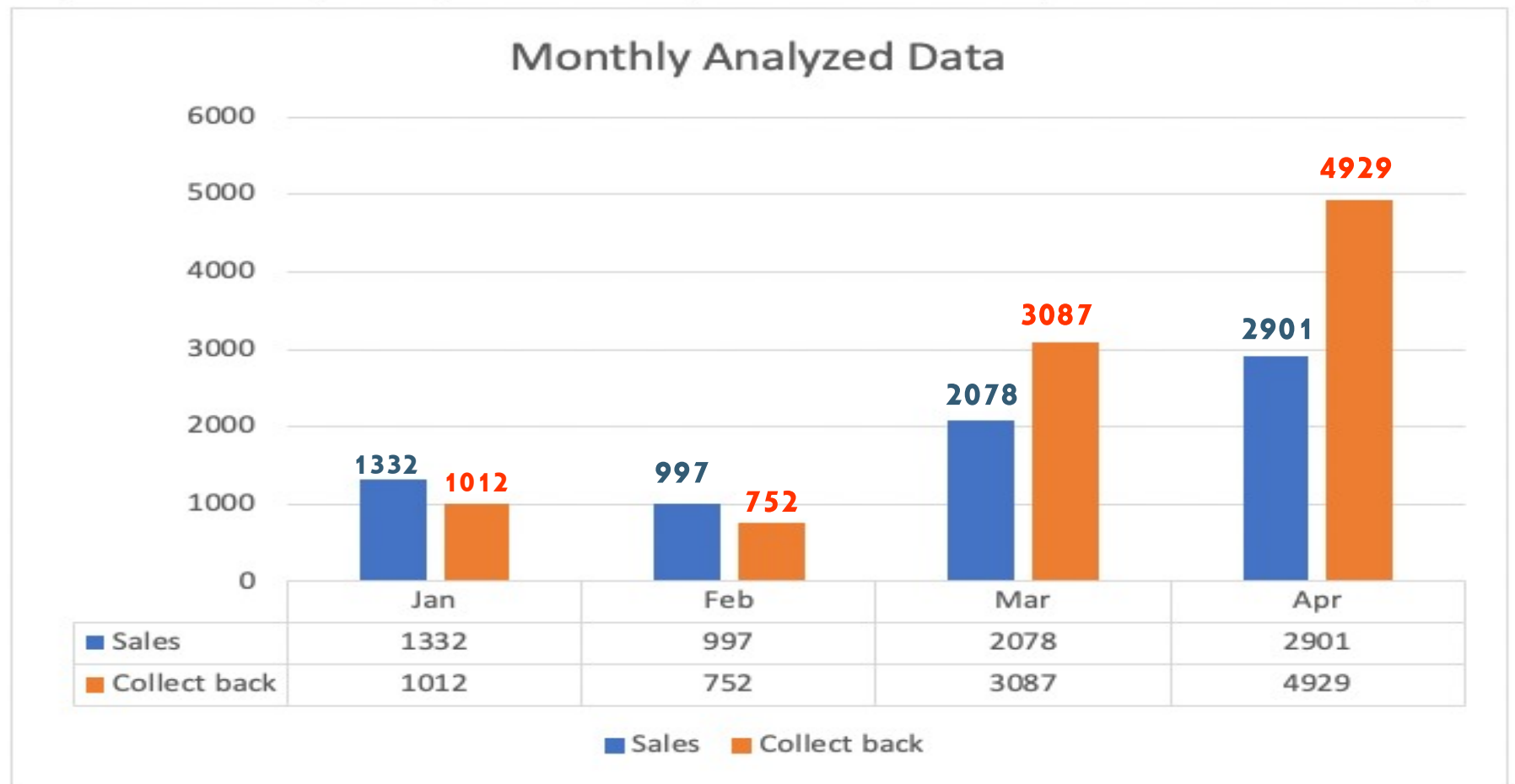


SDG12  
TARGET 12.5

SDG12  
TARGET 12.A



Month	Sales	Collect back	Lower than target	Higher than target
Jan	1332	1012	✗	
Feb	997	752	✗	
Mar	2078	3087		✓
Apr	2901	4929		✓





# FEATURES

- It is able to collect data through the program by computers or smart phones.
- There will be exact and faultless sale data which are unchangeable any salesperson ( staff).
- No need to visit the real location.

## CIRCULAR ECONOMY



In a circular economy, products are made to last longer, communities share resources and save money, and businesses are maintaining, reusing, remanufacturing and recycling materials to create more value for you and future generations.



# PARTNERSHIPS



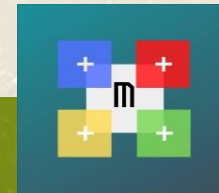
## Supermarkets

Is the source to send information on the amount of plastic products per day in to our program



## Education institutions

To manage plastic bottles and be a part for us and forma cleaner and better life for students.



## XIANG MIANG

To come to support our software development and collaborate with faura house including advertising Faura house to be more well-known.



## SAP Analytics clouds

to provide management of business process data about plastic waste.

We **“ FAURA HOUSE ”**  
care about the history to  
make a better future



## 2022 – 2023

- Make and design the software program and develop it by professionals
- Find partner stores, target groups
- Persuade organizations to become one of our co-creators
- Find colleagues and workmates to join our community including volunteers

## Implementation Plan

### 2024 – 2025

- Faura house collects data
- Create a bottle buying center
- Forward plastic bottles into the recycle factory

### 2025 – 2026

- The profit will be used as expenditure of the project
- some will be used for fund for educating disseminating about plastic waste and spreading awareness by workshops ETC...

### 2026 – 2027

- Expand from plastic bottles into more plastic categories ; collect and recycle

### 2027 – 2028

- Expand the program out to other ASEAN countries
- Seek new partnership in other countries

## OUR SDG ALIGNED WITH:

### ASEAN ECONOMIC COMMUNITY BLUEPRINT 2025

**34.** To promote innovation, more attention needs to be given to the development of national and cross-border mechanisms that promote the following strategic measures:

i. Information sharing and networking to stimulate ideas and creativity at the universities and business-level;

**51.** The AEC 2025 vision will be built upon the successes of the past ASEAN ICT Masterplan. It will aspire to propel ASEAN towards a digitally-enabled economy that is secure, sustainable and transformative, and to further leverage ICT to enable an innovative, inclusive and integrated ASEAN. Strategic measures include the following:

iii. Innovation: Support ICT innovations and entrepreneurship as well as new technological developments such as Smart City, and Big Data and Analytics:

### ASEAN PLAN OF ACTION ON SCIENCE, TECHNOLOGY AND INNOVATION (APASTI) 2016-2025

**Action 1.2.** Enhance and sustain the utilization of the ASEAN Science and Technology Network (ASTNET) and strengthen other S&T networks to facilitate information sharing.

**Action 1.4.** Strengthen existing regional STI initiatives in priority areas including Sustainable Development Goals.



**If not NOW then  
WHEN?  
If not us then  
WHO?**



**It is one ASEAN and It's within our  
care, the future is in our palm of our  
hands and action must be taken **NOW****



**Thank you.**

# REFERENCES

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