

Insights, interventions and incentives to action from businesses and consumers in South-East Asia





# PERCEPTIONS ON PLASTIC WASTE:

Insights, interventions and incentives to action from businesses and consumers in South-East Asia This report was conducted by the SEA circular project and Food Industry Asia (FIA) in collaboration with AlphaBeta.

SEA circular is an initiative of UN Environment Programme and the Coordinating Body on the Seas of East Asia (COBSEA), supported by the Government of Sweden to inspire market-based solutions and encourage enabling policies to prevent marine plastic pollution.

This report outlines the findings from surveys targeting consumers and food and beverage businesses, conducted from January to April 2020 in Indonesia, Malaysia, Philippines, Thailand and Viet Nam. Two thousand consumers and four hundred food and beverage businesses were surveyed across the five countries. Consumer surveys translated into national languages were disseminated using online channels and quotas were used to ensure the sample matched the demographics of the countries (e.g. gender, age, income). At least 50 businesses per country were surveyed through local partners such as business associations, ensuring that the sample covered a wide range of companies across the value chain, company ownership structure, company size and locations within the countries. A similar survey will be conducted in 2022 to gauge changes in perceptions.

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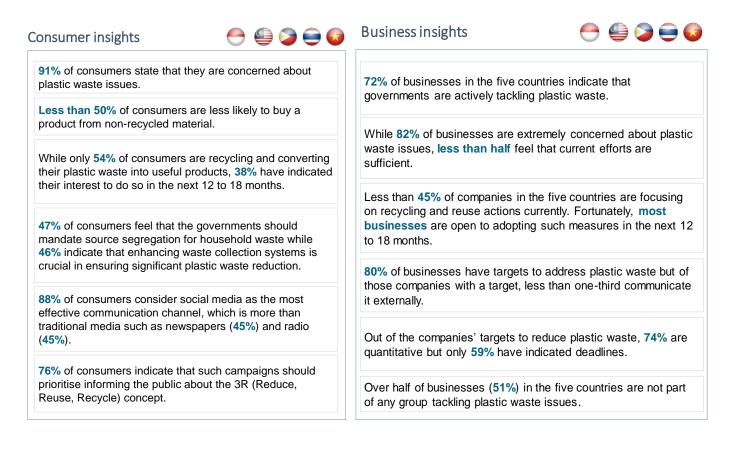
### **Executive Summary**

Tackling plastic waste in South-East Asia requires a real understanding of the challenges faced by stakeholders, including robust data on awareness and opinions that promote or prevent effective action.

Based on surveys conducted between January and April 2020, this report identifies how consumers and food and beverage businesses perceive plastic waste issues in five South-East Asian countries estimated to be major contributors of marine plastic litter: Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. A similar survey will be conducted in 2022.

The purpose of these surveys is to understand business and consumer attitudes towards plastic waste, how they are currently tackling plastic waste issues as well as perspectives on how to best tackle plastic waste. This can inform efforts across stakeholder groups, including by businesses and in the public sector.

#### **KEY FINDINGS:**



#### **CONSUMER INSIGHTS**

The consumer surveys included 400 online respondents in each of the five countries and were available in both English and local languages. Each country survey was designed to ensure the sample matched the demographics of the country (e.g. gender, age, income). Some of the main findings include:

- Consumers are concerned about plastic waste, but are not changing habits. While 91 percent of consumers state that they are concerned about plastic waste issues, fewer than half are less likely to buy a product from non-recycled material.
- There are important differences across the five countries. While consumers in the five countries share many similarities in terms of their perceptions of plastic waste and their current behaviours, there are important differences. For example, 25 percent of Indonesian households claim that their household waste is never collected by a waste collection organisation, versus just 1 percent of Vietnamese households. In addition, only 37 percent of Indonesian consumers believe that businesses are concerned about plastic waste issues, versus 70 percent in Thailand.
- Consumers feel that their governments should focus more on mandating actions. Consumers highlight mandatory waste segregation among their priorities for government action i.e. actions requiring certain behaviour changes in producers and consumers. Another priority for government actions from consumers is enabling actions i.e. actions supporting the waste ecosystem, through training, financing, infrastructure and technology support to reduce plastic waste. For example, 47 percent of consumers feel that the governments should mandate source segregation for household waste, while 46 percent indicate that enhancing waste collection systems is crucial in ensuring plastic waste reduction.
- Social media is a crucial channel for consumer engagement. Social media is perceived as the most effective platform for consumers to learn more about and be encouraged to take action on plastic waste issues. 88 percent of consumers consider social media as the most effective communication channel, which is more than traditional media such as newspapers (45 percent) and radio (45 percent). When asked about the prioritisation of plastic waste issues in consumer awareness campaigns, 76 percent of consumers indicate that such campaigns should prioritise informing the public about the 3R (Reduce, Reuse, Recycle) concept. Other popular topics perceived to be important are "Impact of plastic pollution on the environment" (67 percent) and "Segregation of plastics" (62 percent).

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<sup>&</sup>lt;sup>1</sup> For more details, refer to Appendix A.

#### **BUSINESS INSIGHTS**

The business surveys, conducted through local partners in each of the five countries, analysed about 400 responses from food and beverage companies across the selected markets.<sup>2</sup> Efforts were taken to ensure that the sample covered a wide range of companies across the value chain, company ownership structure, company size and locations within the countries. Some of the main findings include:

- Businesses understand that their current efforts are not sufficient. While 82 percent of businesses are extremely concerned about plastic waste issues, less than half feel their current efforts are sufficient to address the problem.
- Targets by businesses on plastic waste need strengthening. 80 percent of businesses have targets to address plastic waste but of those companies with a target, less than one-third communicate it externally. Among business targets to reduce plastic waste, 74 percent are quantitative but only 59 percent have indicated deadlines.
- Businesses are aligned with consumers in seeking further priority actions from governments. Businesses believe that actions such as mandatory waste segregation are crucial, as do consumers. In addition, businesses highlight the importance of actions such as developing clear packaging labels with information related to recycling, biodegradability, etc. and mandatory reporting of waste by businesses.
- Many businesses are not yet engaged in industry collaborations to tackle plastic waste issues. Over half of businesses (51 percent) in the five countries are not part of any group tackling plastic waste issues. This ranges from 76 percent in Viet Nam to 24 percent in Thailand.

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<sup>&</sup>lt;sup>2</sup> For more details, refer to Appendix A.

#### **OPPORTUNITY TO ACT**

The surveys in 2020 reveal an expectation that more efforts can and should be made by governments, businesses and consumers to tackle plastic waste and marine litter. Potential opportunities emerging from this research include:

- Consumers. There is a large gap between reported consumer concern with plastic waste and action taken in terms of purchasing decisions and recycling / reuse habits. Behavioural change programs coupled with initiatives around improving information for consumers (e.g. consistent labelling regarding product recyclability, waste segregation approaches) could be useful. As highlighted in this survey, using social media is key to engaging consumers.
- 2. Food and beverage businesses. Businesses agree that they need to do more to tackle plastic waste and prioritise recycling efforts. Encouraging companies to adopt public, quantified targets with clear timelines and supporting greater mobilisation of businesses on these issues through relevant local, regional or international initiatives can help scale actions and build capabilities.
- 3. Governments. Consumers as well as businesses recognise that their governments are concerned with plastic waste. Key areas where consumers and businesses believe there are opportunities for governments to take further action include mandating waste segregation, enhancing collection systems, ensuring consistent labelling on product recycling, and imposing littering fines and charges.

### Introduction

The development of plastics over the last eighty years has led to a revolution in packaging and consumer goods and enhanced convenience for billions of people. Yet a massive amount of plastics has leaked into our environment, with an estimated 8 million metric tonnes of plastics entering the oceans of the world annually.<sup>3</sup> In less than ten years, there could be 250 million tonnes of plastics in the oceans.<sup>4</sup> Once in the marine environment, plastics harm marine animals; ingestion has been shown to inhibit growth, making them more prone to tumor development, less successful in reproduction, and less able to detect and evade predators.<sup>5</sup>

South-East Asia is at the heart of this marine plastic pollution challenge. Six of the top 20 estimated sources of plastic marine debris are from South-East Asian countries.<sup>6</sup> If South-East Asia were thought of as one country, it would represent the single biggest source of mismanaged plastic waste globally.

Increasingly, governments, businesses and other organisations in the region have demonstrated their determination to tackle current marine waste issues through a range of measures including raising consumer awareness, introducing financing mechanisms, pursuing capacity building as well as developing product bans and limits. These measures focus both on land-based and seabased solutions to tackle plastic waste issues and marine ocean plastics.

While these measures are crucial, an underlying challenge for reducing plastic pollution in South-East Asia is the limited awareness of consumers and businesses on the issue, and a lack of understanding of the highest potential intervention points to move consumers and businesses into action.

Without information on how consumers and businesses are thinking, policymakers and decision-makers could be limited in developing more targeted programmes. Furthermore, a lack of understanding of consumer and business awareness could hinder the effective evaluation of the many programmes currently in the region.

<sup>3</sup> Jenna Jambeck et al. (2015), "Plastic waste inputs from land into the ocean". Science, 13 Feb 2015: Vol. 347, Issue 6223, pp. 768-771. Available at: <a href="https://science.sciencemag.org/content/347/6223/768">https://science.sciencemag.org/content/347/6223/768</a>

Ocean Conservancy (2017), The Next Wave: Investment Strategies for Plastic Free Seas. Available at: <a href="https://oceanconservancy.org/wp-content/uploads/2017/05/the-next-wave.pdf">https://oceanconservancy.org/wp-content/uploads/2017/05/the-next-wave.pdf</a>

<sup>&</sup>lt;sup>5</sup> Food Industry Asia (2018), Sustainable packaging: Tackling plastic waste in Asia. Available at: https://foodindustry.asia/documentdownload.axd?documentresourceid=30711

<sup>&</sup>lt;sup>6</sup> Jenna Jambeck et al. (2015), "Plastic waste inputs from land into the ocean". Science, 13 Feb 2015: Vol. 347, Issue 6223, pp. 768-771. Available at: https://science.sciencemag.org/content/347/6223/768

Issues include a lack of understanding of how to properly segregate waste, and businesses working to become eco-friendly - but shifting to alternative products which ultimately become more problematic in terms of their environmental footprint.<sup>7</sup>

In response to this challenge, SEA circular, an initiative of the United Nations Environment Programme (UNEP) and the Coordinating Body on the Seas of East Asia (COBSEA), together with Food Industry Asia (FIA) commissioned multi-country surveys on perspectives concerning plastic waste. The food and beverage industry is one of the crucial players in the plastics value chain. Many organisations within the food and beverage industry are actively pursuing initiatives to address plastic waste in the ocean. Measures such as driving packaging innovation, supporting recycling efforts and co-developing Extended Producer Responsibility (EPR) schemes with governments are all key to tackling post-consumer plastic waste.

These surveys covered Indonesia, Malaysia, the Philippines, Thailand and Viet Nam (estimated to be among the major contributors to marine plastic debris globally).<sup>8</sup> The surveys involved 400 respondents in each country in 2020, in order to understand business and consumer attitudes and to determine how best to tackle plastic waste issues (see Appendix A and B for the survey method).

This report highlights the findings of this first comprehensive survey of the region in terms of consumer awareness and business incentives, and will provide important insights into the motivations, incentives, challenges and gaps faced by consumers and businesses in reducing plastic use and waste. The report provides insights into how governments, businesses and consumers can collaborate to tackle the issue of plastic waste in South-East Asia and highlights key intervention points within the plastic value chain.

These surveys are scheduled to be repeated in 2022 for comparison, and to indicate trends in plastic waste consumer awareness and business incentives.

<sup>8</sup> Jenna Jambeck et al. (2015), "Plastic waste inputs from land into the ocean". Science, 13 Feb 2015: Vol. 347, Issue 6223, pp. 768-771. Available at: <a href="https://science.sciencemag.org/content/347/6223/768">https://science.sciencemag.org/content/347/6223/768</a>

<sup>&</sup>lt;sup>7</sup> European Union and ASEAN Secretariat (2019), *Circular economy and plastics: A gap analysis in ASEAN Member States*. Available at: <a href="https://www.iges.or.ip/en/pub/ce-plastics/en">https://www.iges.or.ip/en/pub/ce-plastics/en</a>

### 1. Consumer Insights

There are more than 576 million people in Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. These consumers must play a large role in efforts to reduce marine ocean plastics. For instance, even if there are recycling bins and laws to mandate source segregation, the intended outcome (of more recyclables collected) might not be achieved if there is low consumer awareness of these plastic waste issues.

Consumer surveys, with 400 respondents from each country, were conducted in the five countries to understand:

- 1. Perspectives on current awareness and concerns regarding plastic waste issues
- 2. Perspectives on current and potential set of actions to tackle plastic waste issues
- 3. Perspectives on potential opportunities to scale up action

#### **KEY FINDINGS**

#### Perspectives on current awareness and concerns regarding plastic waste issues

Most consumers feel that governments are active in tackling plastic waste issues and businesses should be doing more (Exhibit 1). 71 percent of consumers in Indonesia, Malaysia, the Philippines, Thailand and Viet Nam agree or strongly agree that their governments are actively tackling plastic waste through policies and regulations. Similarly, over 50 percent of the consumers feel that the frequency and quality of the waste collection systems in their neighbourhoods are adequate. This is supported by the fact that waste from 89 percent of households in the five countries is collected at least on a weekly basis (Exhibit 2). On a country level, over 90 percent of consumers in Malaysia, the Philippines, Thailand and Viet Nam indicate that there is frequent weekly collection of waste compared to only 64 percent in Indonesia. However, it is important to note that a quarter of consumers in Indonesia indicate that their household waste is never collected. This finding is consistent across both urban and rural consumers in Indonesia (see Box 1 for more details).

Regarding businesses, consumers feel that private sector companies should be doing more to tackle plastic waste issues. Only 58 percent of consumers think that businesses are concerned about plastic waste issues and only 45 percent of consumers indicate that businesses are doing enough to tackle plastic waste issues (Exhibit 1). This insight is also consistent with the business surveys revealing that most businesses feel that they are generally aware of plastic waste issues, but they could also be doing more to tackle these issues (Exhibit 13).

## Most consumers feel that governments are active in tackling plastic waste issues and businesses should be doing more

Consumer sentiments toward governments and businesses regarding plastic waste issues									
Percent of survey respondents who agree or strongly agree to the statement, $\%$									
5 countries 🔴 🥥 🥃 😺									
	The government is actively tackling plastic waste through policies and regulations	71	64	80	66	70	73		
Sentiments toward governments	The frequency of the waste collection system in my neighbourhood is adequate	57	41	69	62	65	51		
	The quality of the waste collection system in my neighbourhood is adequate	51	36	64	54	56	46		
Sentiments toward businesses	Businesses are concerned about plastic waste issues	58	37	62	53	70	69		
	Businesses are doing enough to tackle plastic waste issues	45	37	40	42	66	38		

SOURCE: Consumer surveys conducted in 2020 in Indonesia, Malaysia, Philippines, Thailand and Viet Nam; n = 2,000

#### **EXHIBIT 2**

## Waste from 89% of households in Indonesia, Malaysia, Philippines, Thailand and Viet Nam is collected at least on a weekly basis

#### How often is your household waste collected by a waste collection organisation?

Percent of survey respondents<sup>1</sup>, % Monthly Weekly or less (including less Daily Never (but not daily) often than weekly) 5 countries 36 53 4 7 Indonesia 23 41 10 25 4 Malaysia 29 64 3 Philippines 25 69 3 3 Thailand 2 35 60 3 Viet Nam 65 32 2 1

 $SOURCE: Consumer surveys conducted in 2020 in Indonesia, Malaysia, Philippines, Thailand and Viet Nam; \ n = 2,000 \ (400 in each country)$ 

<sup>1</sup> May not add up to 100% due to rounding. Consumers that indicate "Don't know" to this question are removed for the analysis. There are about 1 percent of all consumers who have indicated this response.

## There is a disconnect between consumers' concern with plastic waste issues and their purchasing decisions

Sentiments toward consumer patterns regarding plastic waste issues										
Survey respondents who agree or strongly agree to the statement, %  countries  •••••••••••••••••••••••••••••••••••										
People should be more educated about plastics and the effect on the environment	91	91	93	94	91	89				
I am extremely concerned about the extent of plastic waste issues	91	92	92	94	89	89				
I am actively pursuing efforts to tackle plastic waste	84	76	87	83	90	85				
I know how to properly segregate my household waste for recycling	84	71	87	92	91	82				
I have a good understanding of what products can be recycled	79	69	80	90	85	72				
I always segregate my household waste for recycling	76	64	79	82	85	71				
I regularly look at products to understand if the material has been recycled before I buy them	66	55	69	63	75	69				
If a product is made from non-recycled material, I am less likely to buy it	49	40	46	49	58	55				

Consumers feel that there should be more consumer education about plastics but most think that they are already practicing good habits (Exhibit 3). About 91 percent of consumers feel that people should be more educated about plastics and the effect on the environment. When asked to review their own consumption patterns, most consumers indicate that they are already practicing good habits to tackle plastic waste issues. 91 percent of consumers respond that they are extremely concerned about the extent of plastic waste issues. This is consistent across the five countries. Regarding specific areas, consumers seem to fare better with regards to awareness related to downstream actions such as source segregation and recycling rather than upstream actions such as selective purchases to reduce plastic waste. 84 percent of respondents indicate that they are actively pursuing efforts and know how to properly segregate household waste for recycling. 76 percent of consumers indicate that they always segregate household waste for recycling. There could be a potential bias for this insight if compared to other sources regarding household source segregation rates. For instance, in Malaysia, 79 percent of consumers indicate that they always segregate their household waste (79 percent in urban areas and 81 percent in rural areas). While other estimates are difficult to obtain, one existing study done in Iskandar Malaysia (defined as an urban area) reported a household segregation rate of 49 percent using direct face-to-face interview surveys.9 Comparisons to actual waste segregation rates across countries could be

<sup>9</sup> Sujitra Vassanadumrongdee and Suthirat Kittipongvises (2017), "Factors influencing source separation intention and willingness to pay for improving waste management in Bangkok, Thailand" Sustainable Environment Research. Available at: <a href="https://www.sciencedirect.com/science/article/pii/S2468203917301875?via%3Dihub#bib35">https://www.sciencedirect.com/science/article/pii/S2468203917301875?via%3Dihub#bib35</a> and Azilah M. Akil, Foziah J and C.S Ho (2014), "The Effects of

Socio-Economic Influences on Households Recycling Behaviour in Iskandar Malaysia" *Procedia Social and Behavioural Sciences* 202 (2015). Available at: <a href="https://www.sciencedirect.com/science/article/pii/S1877042815048636">https://www.sciencedirect.com/science/article/pii/S1877042815048636</a>

useful to gather in the future to understand the extent of the mismatch between reporting and actual waste segregation.

However, there is a disconnect between consumers' concerns with plastic waste issues and their purchasing decisions. With regards to their shopping habits, a much smaller share of consumers state that they are likely to reduce their purchases if their desired products are made from non-recycled materials (49 percent). Only 66 percent of consumers regularly look at products to understand if the materials have been recycled before they buy them.

It is also useful to consider the impact of urbanisation on plastic waste awareness (see Box 1 for more details). Based on the consumer surveys, there seem to be no major differences in the perspectives towards plastic waste issues from consumers in urban or rural areas (Exhibit 4). While the perspectives of urban versus rural consumers are generally similar, rural residents report less frequency of waste collection and have generally lower understanding of recycling options. For example, 61 percent of urban consumers feel that the frequency of the waste collection system is adequate, compared to only 53 percent of rural consumers. Regarding the understanding of what products can be recycled, 82 percent of urban residents indicate that they have a good understanding. This is relatively high compared to the 76 percent of rural residents who feel the same way.

There are also some differences comparing the responses from urban and rural areas on the country level. For instance, when consumers are asked whether they have a good understanding of what products can be recycled, a higher percentage of consumers in the urban areas, relative to the consumers in the rural areas, agree. In Viet Nam, 77 percent of consumers in the urban areas agree with this statement compared to 68 percent of consumers in rural areas. Likewise, in Indonesia, the national figure is 69 percent; urban and rural estimates are 76 percent and 62 percent respectively. However, the other findings are generally similar from insights by consumers in both the urban and rural areas. Possible reasons for the generally similar results could include the widespread use of the internet and social media to communicate information (Exhibit 9); increasing focus by governments and multilateral institutions on raising awareness of plastic waste issues in rural areas; and the presence of city-level networks such as the ASEAN Smart Cities Network (ASCN) which increase the exposure of smaller cities to programmes.

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<sup>&</sup>lt;sup>10</sup> The urbanisation rates in each country were used to structure the sampling share from urban versus rural residents.

<sup>11</sup> ASEAN Secretariat (2018), "ASEAN Smart Cities Network:". Available at: <a href="https://asean.org/asean/asean-smart-cities-network/">https://asean.org/asean/asean-smart-cities-network/</a>, and ASEAN Secretariat (2018), ASEAN Sustainable Urbanisation Strategy. Available at: <a href="http://aadcp2.org/wp-content/uploads/ASEAN-Sustainable-Urbanisation-Strategy-ASUS\_2018.pdf">http://aadcp2.org/wp-content/uploads/ASEAN-Sustainable-Urbanisation-Strategy-ASUS\_2018.pdf</a>

While the perspectives of urban versus rural consumers are generally similar, rural residents report less frequent waste collection and lower understanding of recycling options

Sentiments toward governments, businesses and consumer patterns regarding plastic waste issues								
Survey respond	dents who agree or strongly agree to the statement	Total	Urban (n=1,104)	Rural (n=896)				
	The government is actively tackling plastic waste through policies and regulations	71	69	72				
Sentiments toward governments	The frequency of the waste collection system in my neighbourhood is adequate	57	61	53				
governments	The quality of the waste collection system in my neighbourhood is adequate	51	53	49				
Sentiments	Businesses are concerned about plastic waste issues	58	60	56				
toward businesses	Businesses are doing enough to tackle plastic waste issues	45	46	43				
	People should be more educated about plastics and the effect on the environment	91	92	91				
	I am extremely concerned about the extent of plastic waste issues	91	92	89				
	I am actively pursuing efforts to tackle plastic waste	84	86	82				
Sentiments	I know how to properly segregate my household waste for recycling	84	86	82				
toward consumers	I have a good understanding of what products can be recycled	79	82	76				
	l always segregate my household waste for recycling	76	79	73				
	I regularly look at products to understand if the material has been recycled before I buy them	66	69	63				
	If a product is made from non-recycled material, I am less likely to buy it	49	51	47				

 $SOURCE: \ \ Consumer \ surveys \ conducted \ in \ 2020 \ in \ Indonesia, \ \ Malaysia, \ Philippines, \ \ Thailand \ and \ \ Viet \ Nam; \ n=2,000$ 

#### Box 1. Potential differences in perspectives on plastic waste issues due to consumers' locations

Based on existing landscape studies in South-East Asia, most initiatives to tackle plastic waste issues are usually concentrated in a few regions, typically the national capitals.<sup>12</sup> Possible reasons include the ease of implementing projects and the higher volume of waste in these areas. For instance, in the Philippines, most programmes and activities are in the National Capital Region. As a result, there might be concerns that only consumers in the urban areas are benefitting from consumer awareness campaigns and programmes.

In the consumer surveys used in this study, to obtain indicative insights on the impact of urbanisation on plastic waste awareness, responses from Tier 1 cities were considered as urban while responses from other cities were considered as rural.<sup>13</sup> Analyses were conducted to explore any perceived differences in perspectives.

#### Perspectives on current and potential set of actions to tackle plastic waste issues

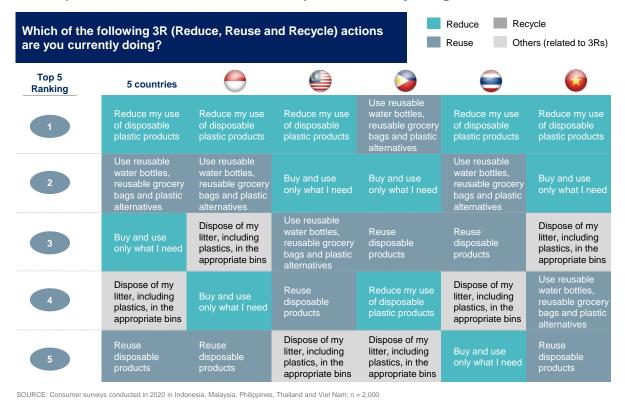
This section explores the current and potential set of 3R (Reduce, Reuse and Recycle) actions taken by consumers regarding tackling plastic waste issues.<sup>14</sup> Currently, consumers are focusing their actions mostly on two of the 3Rs, reducing and reusing, with a lack of emphasis on recycling (Exhibit 5). While consumers report that they are trying to reduce their use of disposable plastic products and to reuse items (such as waste bottles and grocery bags), far fewer report efforts around trying to increase recycling. In fact, there are no recycling actions in the top five 3R actions indicated by consumers in the five countries.

<sup>12</sup> Studies include Food Industry Asia (2018), Sustainable Packaging: Tackling Plastic Waste in Asia. Available at: <a href="https://foodindustry.asia/documentdownload.axd?documentresourceid=30711">https://foodindustry.asia/documentdownload.axd?documentresourceid=30711</a>

<sup>13</sup> To obtain indicative insights on the impact of urbanisation on plastic waste awareness, responses from Tier 1 cities were considered as urban while responses from other cities were considered as rural (in-line with similar studies). Tier 1 cities, compared to other cities, are larger, denser, and more developed. For instance, in Indonesia, the regional breakdown was as follows – Greater Jakarta (Urban) vs. Rest of Indonesia (Rural). See Appendix A for more details.

<sup>14</sup> Respondents could select from 16 actions in four categories: "Reduce", "Reuse", "Recycle" and "Others (related to 3Rs)". They indicate which actions they are currently doing and which actions they would consider doing in the future (next 12 to 18 months).

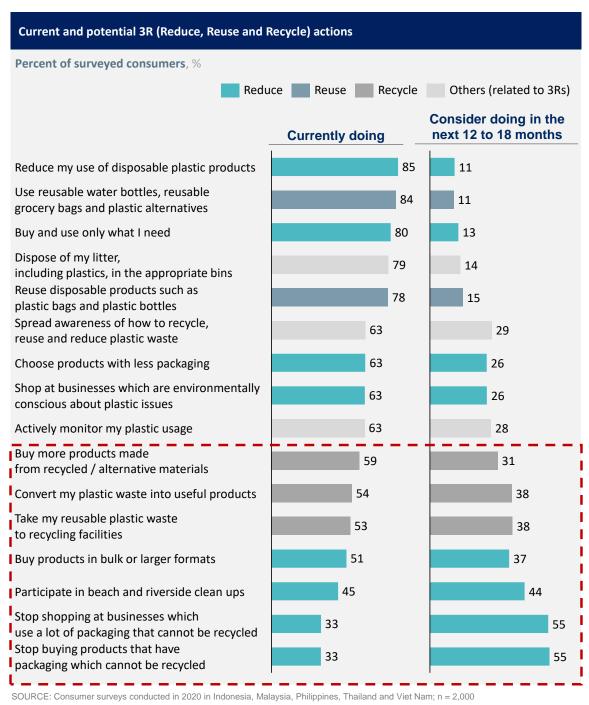
## Consumers are focusing their actions on two of the "3Rs" (Reduce and Reuse) and most consumers do not prioritise recycling habits



Consumers also indicate other actions not specified in the surveys. These include following the news on plastic waste issues; reporting waste issues and sharing suggestions to related parties such as the local authorities; joining and donating to no-plastics petitions and advocacy groups to raise awareness; ensuring that there are multiple bins in the household; as well as establishing ground-up activities such as garbage collection.

Across the five countries, consumers could do more to reduce and recycle plastic waste and the good news is that consumers are considering broadening their current efforts to tackle plastic waste in the next 12 to 18 months (Exhibit 6). For instance, while only 54 percent of consumers are currently recycling and converting their plastic waste into useful products, 38 percent have indicated their interest to do so in the future. Similarly, while only 33 percent of respondents are currently deciding to stop shopping at businesses which use a lot of packaging that cannot be recycled, 55 percent of consumers are considering doing so in the future.

# Consumers appear open to broadening their current efforts to tackle plastic waste



While consumers should start prioritising recycling and reviewing their shopping habits, it is important to also ensure that the right infrastructure and waste systems are in place (e.g. recycling bins, frequent collection of recyclables, measures to ensure non-contamination) and the availability of more sustainable alternative products (factoring in income levels and suitable price

points). The relevant authorities and stakeholders could focus on these crucial enablers in the next 12 to 18 months to increase impact.

#### Perspectives on potential opportunities to scale up action

Government actions to tackle plastic waste issues can be classified into five main categories:

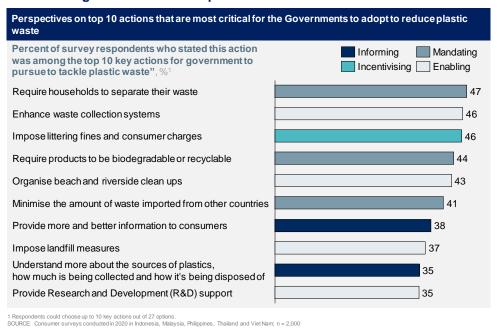
- Informing covers actions seeking to increase information on waste flows, as well as raise business and consumer awareness. For instance, "Businesses must report how much plastic packaging they use to the government" and "Providing information to consumers, including on how to separate their waste to support recycling".
- **Financing** covers actions seeking to identify sustainable financing approaches to the waste system. For instance, "Producers are required to pay consumers who recycle their packaging and products".
- Incentivising covers actions incentivising change in consumer and business behaviour (beyond financing approaches above). For example, "Littering fines and consumer charges".
- Mandating covers actions requiring certain behaviour changes in producers and consumers. For example, "Products have to be biodegradable or recyclable".
- Enabling covers actions supporting the waste ecosystem, through training, financing, infrastructure and technology support. One example is "Encourage different groups to work together".

Generally, consumers feel that useful government actions could focus more on pursuing mandating and enabling actions to reduce plastic waste (Exhibit 7).<sup>15</sup> 47 percent of consumers feel that the governments should mandate source segregation for household waste while 46 percent indicate that enhancing waste collection systems is crucial in ensuring plastic waste reduction.

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<sup>&</sup>lt;sup>15</sup> Consumers could select up to ten actions that they feel are most critical for their governments to pursue to reduce plastic waste. They are allowed to select out of 27 options covering the five categories.

## Consumers feel that their governments should focus more on mandating and enabling actions to reduce plastic waste



However, there is some variation in consumer perspectives on appropriate government actions by country (Exhibit 8). For example, a financing action of making businesses and consumers pay more if they produce more waste (known as "Pay-as-your-throw" schemes) is highlighted in the top 10 actions indicated by consumers in Indonesia. In countries like the Philippines and Thailand, consumers prioritised enabling actions such as developing waterway infrastructure.

# Consumer perspectives on priority government actions vary by country

	es on top 10 a nments to add				Informing Financing Incentivising	Mandating Enabling
anking	5 countries					
1	Require households to separate their waste	Impose littering fines / consumer charges	Require households to separate their waste	Require products to be biodegradable / recyclable	Enhance waste collection systems	Impose litterin fines / consumer charges
	Enhance waste collection systems	Organise beach and riverside clean ups	Impose littering fines / consumer charges	Enhance waste collection systems	Require households to separate their waste	Require households to separate their waste
)	Impose littering fines / consumer charges	Require households to separate their waste	Impose landfill measures	Require households to separate their waste	Minimise the amount of waste imported	Organise beach and riverside clean ups
	Require products to be biodegradable / recyclable	Minimise the amount of waste imported	Enhance waste collection systems	Impose littering fines / consumer charges	Require products to be biodegradable / recyclable	Enhance waste collection systems
	Organise beach and riverside clean ups	Require products to be biodegradable / recyclable	Introduce labels	Ban single-use plastics	Provide more and better information	Minimise the amount of waste imported
	Minimise the amount of waste imported	Enhance waste collection systems	Require products to be biodegradable / recyclable	Impose landfill measures	Understand more about plastics	Require products to be biodegradable recyclable
	Provide more and better information	Ban single-use plastics	Organise beach and riverside clean ups	Provide more and better information	Organise beach and riverside clean ups	Provide R&D support
	Impose landfill measures	Provide more and better information	Provide more and better information	Minimise the amount of waste imported	Develop waterway infrastructure	Improve waste transportation system
	Understand more about plastics	Make producers / consumers pay more if they produce more waste	Train the informal waste sector	Develop waterway infrastructure	Introduce Labels	Provide more and better information
	Provide R&D support	Encourage collaboration	Minimise the amount of waste imported	Organise beach and riverside clean ups	Impose landfill measures	Understand more about plastics

SOURCE: Consumer surveys conducted in 2020 in Indonesia, Malaysia, Philippines, Thailand and Viet Nam; n = 2,000

Leveraging the appropriate communication channels to raise consumer awareness is also critical for success. According to consumers in the five selected countries, social media (such as Facebook, Twitter, Instagram) is perceived as the most effective platform for consumers to learn more about and be encouraged to act on plastic waste issues (Exhibit 9). 88 percent of consumers

consider social media as the most effective communication channel, which is more than traditional media such as newspapers (45 percent) and radio (45 percent). This finding is consistent with other reports about the increasing internet penetration, smartphone adoption and social media usage in developing countries. For instance, the share of adults who use online social networking sites in Viet Nam has increased from 34 percent in 2014 to 53 percent in 2017 (at a 16 percent compound annual growth rate). While it is important for governments, businesses and civil society to leverage social media to raise consumer awareness, it is necessary to also develop measures to manage possible issues associated with social media such as fake news.

**EXHIBIT 9** 

## Social media is the most effective platform, except in Viet Nam, to learn more about and be encouraged to take action on plastic waste issues

	Perspectives on the most effective ways for consumers to learn more and be encouraged to take action on plastic waste issues									
Pe	Percent of survey respondents, % 5 countries									
	New media	Social media	88	92	88	92	88	83		
		Television	87	91	86	91	85	84		
		Community	70	76	63	77	71	61		
	Traditional media	Door-to-door campaigns	49	41	45	49	50	59		
		Newspapers	45	38	59	41	31	58		
		Radio	45	34	63	49	29	52		
	Others <sup>1</sup>	Others	2	2	2	3	1	1		

1 Includes using billboards, fines, incentives and education curriculum.

SOURCE: Consumer surveys conducted in 2020 in Indonesia, Malaysia, Philippines, Thailand and Viet Nam; n = 2,000 (400 in each country)

At the country level, Indonesia and Thailand have the same order of prioritisation of communication channels. In Malaysia, "Radio" is ranked third instead of "Community" while in Viet Nam, "Television" is still dominant (84 percent) followed very closely by social media (83 percent).<sup>17</sup>

Consumers have also indicated other communication ideas including campaigns of local politicians, school and environmental excursions, changes in the education curriculum, fines and incentives, as well as signages around the community. Furthermore, respondents have pointed out

16 Pew Research Centre (2018), "Social Media Use Continues to Rise in Developing Countries but Plateaus Across Developed Ones". Available at: <a href="https://www.pewresearch.org/global/2018/06/19/social-media-use-continues-to-rise-in-developing-countries-but-plateaus-across-developed-ones/">https://www.pewresearch.org/global/2018/06/19/social-media-use-continues-to-rise-in-developing-countries-but-plateaus-across-developed-ones/</a> and Smart Insights (2019), "Global social media research summary 2019". Available at: <a href="https://www.smartinsights.com/social-media-marketing/social-media-strategy/new-global-social-media-research/">https://www.smartinsights.com/social-media-marketing/social-media-strategy/new-global-social-media-research/</a>

<sup>17</sup> In Malaysia, 63.3 percent of consumers choose "Radio" while 62.8 percent of consumers indicate "Community".

specific areas to focus awareness raising efforts such as places of worship, commercial establishments and educational institutions.

When asked about the prioritisation of plastic waste issues in consumer awareness campaigns, 76 percent of consumers indicate that such campaigns should prioritise informing the public about the 3R (Reduce, Reuse, Recycle) concept (Exhibit 10). Other popular topics perceived to be important are "Impact of plastic pollution on the environment" (67 percent) and "Segregation of plastics" (62 percent).

#### **EXHIBIT 10**

## Consumers indicate that awareness campaigns should prioritise the 3R concept

Perspectives on prioritisation of plastic waste issues in consumer awareness programmes											
Percent of survey respondents, %											
	5 countries										
3R concept	76	83	81	83	71	62					
Impact of plastic pollution on the environment	67	70	65	66	67	66					
Segregation of plastics	62	58	50	69	68	63					
Disposal of plastics	59	54	51	66	58	66					
Practical 3R tips	49	47	50	46	46	57					
Collection of plastics	49	49	41	52	41	60					
Production of plastics	35	38	37	37	37	28					
Others <sup>1</sup>	0.5	0.3	1	1	0.3	0					

<sup>1</sup> Includes topics such as "impact on future generations" and "incentives to take actions".

SOURCE: Consumer surveys conducted in 2020 in Indonesia, Malaysia, Philippines, Thailand and Viet Nam; n = 2,000 (400 in each country)

On a country level, there are slight differences in perspectives. For instance, in the Philippines, consumers prioritised "Disposal of plastics" instead of "Impact of plastic pollution on the environment" while in Viet Nam, consumers deprioritise the "3R (Reduce, Reuse, Recycle) concept" topic.<sup>18</sup>

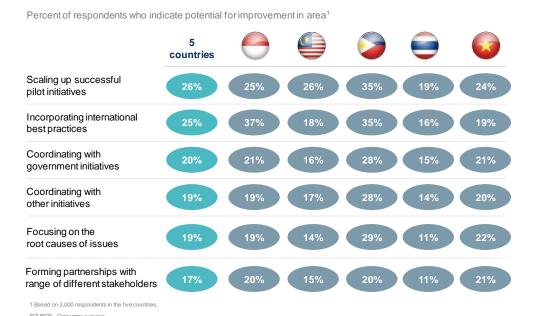
Finally, survey results across the five selected countries indicate strong potential for incorporating international best practices, scaling up initiatives, and improving coordination in plastic waste reduction efforts (Exhibit 11). 26 percent of consumers feel that there is potential to scale up successful pilot programmes while 25 percent think that stakeholders can incorporate international

<sup>18</sup> In the Philippines, 66.3 percent of consumers prioritised "Disposal of plastics" while 66.0 percent prioritised "Impact of plastic pollution on the environment".

best practices into their programmes. At a country level, there are slight variations in the perspectives. For example, in Indonesia, more consumers see potential in incorporating international best practices (37 percent) than scaling up pilot programmes (25 percent).

**EXHIBIT 11** 





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The multi-country consumer surveys in 2020 reveal some promising trends, but also that more needs to be done.

Encouragingly, consumers are concerned about plastic waste issues and report that they are taking active efforts to reduce the impact of plastic waste. However, there are still many gaps in achieving this. These include the failure of concern with plastic waste to translate into consumer purchasing decisions on non-recycled materials; lower understanding of recycling in rural areas; and generally lower focus on recycling (as compared to actions related to reduction and reuse).

Consumers also believe that governments can play a strong role in tackling plastic waste through actions such as mandatory waste segregation and are keen to learn more about key concepts such as the 3Rs (Reduce, Reuse, Recycle), particularly through social media.

## 2. Business Insights

While country-specific information is currently limited, food and beverage packaging has been estimated to account for about 14 percent of the total waste generated globally. Other major sources of waste include non-food packaging, textiles, building and construction, and increasingly e-waste. This reinforces the point that the food and beverage industry alone is a necessary, but not sufficient, player for driving overall change in waste management. Nevertheless, the food and beverage industry can play an important role in developing solutions to tackle plastic waste issues and marine ocean plastics. In Indonesia, Malaysia, the Philippines, Thailand and Viet Nam, it is estimated that there are about 3.5 million food and beverage companies.

Therefore, business surveys, targeting the food and beverage companies across the value chain, were conducted in each of the five countries to understand:

- 1. Perspectives on current awareness and concerns regarding plastic waste issues
- 2. Perspectives on current and potential set of actions to tackle plastic waste issues
- 3. Perspectives on potential opportunities to scale up action

#### **KEY FINDINGS**

#### Perspectives on current awareness and concerns regarding plastic waste issues

Most businesses feel that governments and consumers are active in tackling plastic waste issues. (Exhibit 12). Overall, 72 percent of businesses in the five countries indicate that governments are actively tackling plastic waste. More than half (56 percent) of businesses feel that consumers are concerned about plastic waste issues.

<sup>19</sup> As country-specific plastic waste information is limited, AlphaBeta makes use of global statistics for this analysis. Global estimates of sector waste (including packaging which is estimated to account for 47 percent of total waste generated) are provided by Roland Geyer, Jenna R. Jambeck, and Kara Lavender Law (2017), "Production, use, and fate of all plastics ever made". Science Advances. Available at: <a href="http://advances.sciencemag.org/content/3/7/e1700782">http://advances.sciencemag.org/content/3/7/e1700782</a>. The share of packaging waste that is related to flexible food packaging is estimated to be 30 percent by Gone Adventurin (2017), Toward Circularity of Post-consumer Flexible Packaging in Asia. Available at: <a href="http://www.goneadventurin.com/portfolio\_page/towards-circularity-of-flexible-packaging-asia/">http://www.goneadventurin.com/portfolio\_page/towards-circularity-of-flexible-packaging-asia/</a>

<sup>&</sup>lt;sup>20</sup> Food Navigator Asia (2019), "China's plastic waste ban: How are Asia's food firms and governments coping 18 months on?" Available at: <a href="https://www.foodnavigator-asia.com/Article/2019/07/15/China-s-plastic-waste-ban-How-are-Asia-s-food-firms-and-governments-coping-18-months-on">https://www.foodnavigator-asia.com/Article/2019/07/15/China-s-plastic-waste-ban-How-are-Asia-s-food-firms-and-governments-coping-18-months-on</a> and Food Industry Asia (2018), Sustainable Packaging: Tackling Plastic Waste in Asia. Available at: <a href="https://foodindustry.asia/documentdownload.axd?documentresourceid=30711">https://foodindustry.asia/documentdownload.axd?documentresourceid=30711</a>

<sup>&</sup>lt;sup>21</sup> AlphaBeta estimates based on a literature review.

#### Most businesses feel that government and consumers are active in tackling plastic waste issues PRELIMINARY Business sentiments toward governments, industry, civil society and consumers regarding plastic waste issues Percent of survey respondents who agree or strongly agree to the statement, %countries Current efforts by government, industry 44 13 67 22 67 and civil society are sufficient to tackle plastic waste 59 The government is actively tackling plastic waste through policies and regulations 72 87 75 Consumers are concerned about plastic waste issues 56 27 52 59 75 70

#### **EXHIBIT 13**

Most businesses feel that they are generally aware of plastic waste issues but they could also be doing more to tackle these issues

SOURCE: Business surveys conducted in 2020 in Indonesia n = 71, Malaysia n = 73, Philippines n = 85, Thailand n = 75 and Viet Nam n = 63; total n = 367

	out they could also be doing more to tackle these issues								
Sentiments toward companies' practices regarding plastic waste issues									
Percent of survey respondents who agree or strongly agree to the statement, $\%$									
5 countries $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$									
82	77	77	85	91	78				
73	62	75	66	88	76				
80	77	73	79	89	79				
55	52	48	60	76	35				
48	55	51	44	59	30				
	5 countries  82  73  80  55	**************************************	strongly agree to the second tries           82         77         77           73         62         75           80         77         73           55         52         48	strongly agree to the statement         5 countries       Image: Countries	strongly agree to the statement, %         5 countries       Image: Countries of the statement of				

Most businesses feel that they are generally aware of plastic waste issues, but they could also be doing more to tackle these issues (Exhibit 13). While 82 percent of businesses are extremely concerned about plastic waste issues, less than half (48 percent) feel that current efforts are sufficient. This is consistent with the consumer surveys, highlighted in the previous chapter, which reveal that consumers think that businesses should be doing more to tackle plastic waste issues (Exhibit 1).

#### Perspectives on current and potential set of actions to tackle plastic waste issues

Businesses can consider actions in four broad categories to tackle plastic waste issues:

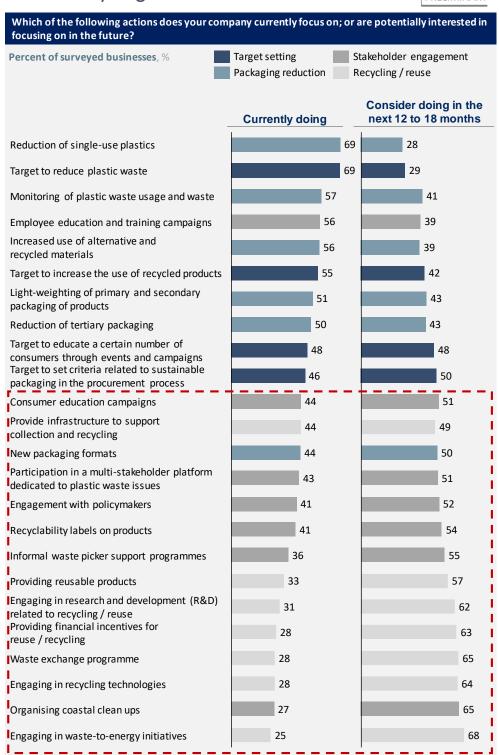
- o Target setting. Examples include establishing "Target to reduce plastic waste" or "Target to educate a certain number of consumers through events and campaigns".
- Packaging reduction. Examples include working on "Reduction of single-use plastics" or "Light-weighting of primary and secondary packaging of products".
- Stakeholder engagement. Examples include facilitating "Engagement with policymakers" or "Informal waste picker support programmes".
- Recycling / reuse. Examples include focusing on "Engaging in research and development (R&D) related to recycling / reuse" or "Waste exchange programmes".

The survey reveals that businesses feel they could do more in stakeholder engagement as well as recycling and reuse (Exhibit 14).<sup>22</sup> Less than 45 percent of companies in the five countries are focusing on recycling and reuse actions currently. Fortunately, most businesses are open to adopting such measures in the next 12 to 18 months. Other initiatives related to plastic waste mitigation undertaken by the businesses include recycling plastic waste into asphalt and other useful products.

25

<sup>&</sup>lt;sup>22</sup> Respondents could choose what actions they are currently implementing and what actions they are potentially interested in implementing in the future (12 to 18 months) from a list of 24 options.

# Businesses could do more in stakeholder engagement as well as recycling and reuse

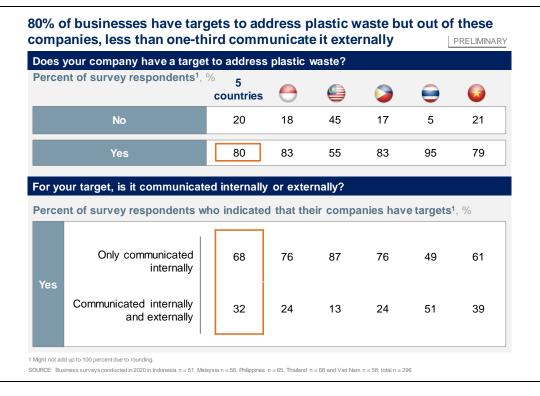


SOURCE: Business surveys conducted in 2020 in Indonesia n = 59, Malaysia n = 63, Philippines n = 74, Thailand n = 71 and VietNam n = 60;

Many businesses globally have been announcing targets to reduce plastic waste.<sup>23</sup> There are over 450 organisations, the majority being consumer goods companies, which have signed the New Plastics Economy Global Commitment (launched in 2018 by UNEP and the Ellen MacArthur Foundation).<sup>24</sup>

The surveys reveal that despite many businesses having targets related to plastic waste, there are a number of gaps. For example, based on the business surveys in the five selected countries, 80 percent of businesses have targets to address plastic waste but of those companies with a target, less than one-third communicate it externally (Exhibit 15).

#### **EXHIBIT 15**



Out of the companies' targets to reduce plastic waste, 74 percent are quantitative but only 59 percent have indicated deadlines. Quantitative and time-bound targets include examples such as "25 percent reduction of plastic waste within 2 years" and "Full adoption of sustainable packaging by 2030" (Exhibit 16).

23

<sup>23</sup> National Geographic (2019), "A running list of action on plastic pollution". Available at: <a href="https://www.nationalgeographic.com/environment/2018/07/ocean-plastic-pollution-solutions/">https://www.nationalgeographic.com/environment/2018/07/ocean-plastic-pollution-solutions/</a>

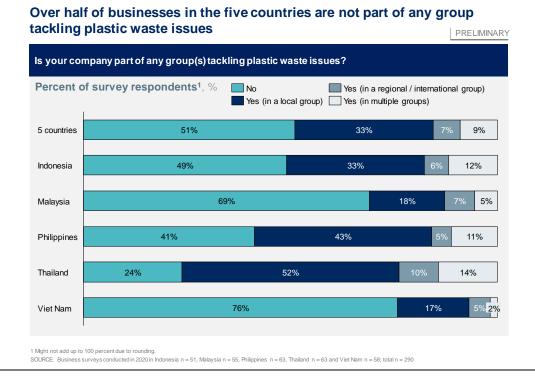
<sup>24</sup> EMF (2019), "Global Commitment". Available at: <a href="https://www.ellenmacarthurfoundation.org/our-work/activities/new-plastics-economy/global-commitment">https://www.ellenmacarthurfoundation.org/our-work/activities/new-plastics-economy/global-commitment</a> and New Plastics Economy (2020), "Global Commitment". Available at: <a href="https://www.newplasticseconomy.org/assets/doc/Global-Commitment-Signatories\_List\_Document-to-download-on-website\_Feb-2020-V2.pdf">https://www.newplasticseconomy.org/assets/doc/Global-Commitment-Signatories\_List\_Document-to-download-on-website\_Feb-2020-V2.pdf</a>



There are several groups dedicated to addressing plastic waste issues at the country, regional and global levels. National initiatives across South-East Asia include the Packaging and Recycling Association for Indonesia Sustainable Environment (PRAISE) in Indonesia and the Philippine Alliance for Recycling and Materials Sustainability (PARMS). These multi-stakeholder coalitions facilitate the sharing of best practices and help to implement projects locally. There is at least one such group in each of the five countries. On a global front, there are organisations such as the Global Plastic Action Partnership (GPAP), launched by the World Economic Forum, and the New Plastics Economy, led by the Ellen MacArthur Foundation. Given the finite resources of any given business, it is important for companies to be connected to such groups to learn and contribute to plastic waste reduction efforts. Therefore, it is alarming that over half of businesses (51 percent) in the five countries are not part of any group tackling plastic waste issues (Exhibit 17). This ranges from 76 percent of companies in Viet Nam to 24 percent of companies in Thailand.

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<sup>&</sup>lt;sup>25</sup> There is at least one dedicated local group in each of the five countries – Indonesia with PRAISE, Malaysia with the Malaysia Plastics Pact, Philippines with PARMS, Thailand with Thailand PPP Plastics and Viet Nam with Packaging Recycling Organisation Viet Nam (PRO Viet Nam).



#### Perspectives on potential opportunities to scale up action

Government actions to tackle plastic waste issues can be classified into five main categories (as highlighted in Chapter 1):

- Informing covers actions seeking to increase information on waste flows, as well as raise business and consumer awareness. For instance, "Mandatory reporting on business waste" and "Sharing of approaches among businesses for tackling waste".
- o **Financing** covers actions seeking to identify sustainable financing approaches to the waste system. For instance, "Extended Producer Responsibility (EPR) scheme where producers pay a fee to support the collection and recycling of product packaging".
- o **Incentivising** covers actions incentivising change in consumer and business behaviour (beyond financing approaches above). For example, "Government procurement requirements".
- Mandating covers actions requiring certain behaviour changes in producers and consumers. For example, "Limitations on plastic waste imports".
- Enabling covers actions supporting the waste ecosystem, through training, financing, infrastructure and technology support. One example is "Training for the informal waste sector which refers to people who collect recyclable materials and are not part of any organisation".

Businesses feel that their governments could focus more on informing, mandating and incentivising actions to reduce plastic waste (Exhibit 18).<sup>26</sup> In all countries except the Philippines, businesses feel that the top action by the governments should be to provide information to consumers, including on waste segregation.

Businesses in the five countries also suggest other actions for the governments to consider, including providing credible government commitments (with strong enforcement mechanisms of announced regulations), developing clear plastic waste-related regulations, and increasing investment for related infrastructure such as waste treatment plants.

-

<sup>26</sup> Businesses could select up to ten actions that they feel are most critical for their governments to pursue to reduce plastic waste. They are allowed to select out of 27 options covering the five categories.

	ses feel t ming, ma		_		ould focu actions	IS MORE    PRELIMINARY				
Perspectives on top 10 actions that are most critical for their governments to adopt to reduce plastic waste  Informing Financing Incentivising										
Ranking	5 countries									
1	Provide information to consumers	Provide information to consumers	Provide information to consumers	Mandate consumer waste segregation	Provide information to consumers	Provide information to consumers				
2	Mandate consumer waste segregation	Mandate consumer waste segregation	Impose littering fines and consumer charges	Map out waste flows	Develop labels	Mandate consumer waste segregation				
3	Developlabels	Enhance collection systems	Provide incentives to ensure sales	Provide information to consumers	Mandate consumer waste segregation	Impose littering fines and consumer charges				
4	Share approaches among businesses	Share approaches among businesses	Develop labels	Share approaches among businesses	Mandate reporting on business waste	Share approaches among businesses				
5	Impose littering fines and consumer charges	Impose littering fines and consumer charges	Limit plastic waste imports	Enhance collection systems	Enhance collection systems	Limit plastic waste imports				
6	Map out waste flows	Map out waste flows	Mandate reporting on business waste	Develop labels	Share approaches among businesses	Develop labels				
7	Limit plastic waste imports	Develop labels	Map out waste flows	Limit plastic waste imports	Impose Pay-as- you-throw (PAYT) for businesses and consumers	Ban single-use plastics				
8	Enhance collection systems	Facilitate coastal clean ups	Share approaches among businesses	Provide training for the informal sector	Promote multi- stakeholder partnerships	Mandate reporting on business waste				
9		Provide training for the informal sector		Provide incentives to ensure sales	Map out waste flows	Provide incentives to ensure sales				
10	Provide incentives to ensure sales	Promote multi- stakeholder partnerships	Mandate consumer waste segregation	Determine product specifications	Develop Extended Producer Responsibility (EPR) schemes	Enhance collection systems				

SOURCE: Business surveys conducted in 2020 in Indonesia n = 47, Malaysia n = 54, Philippines n = 57, Thailand n = 58 and VietNam n = 55; total n = 271

Businesses indicate there is strong potential for incorporating international best practices in existing plastic waste initiatives and improving coordination among stakeholders (Exhibit 19). 34 percent of businesses believe that their countries could work towards incorporating international best practices. 34 percent and 33 percent of businesses indicate that there could be greater

coordination of plastic waste-related programmes with government initiatives and other initiatives, respectively.

On a country level, only 4 percent of businesses in Thailand feel there is potential in forming greater partnerships with a range of different stakeholders (compared to over 20 percent in the other countries). This is consistent with "Business key finding 6" which indicates that partnerships are a key focus among businesses in Thailand and most businesses (76 percent) in Thailand already belong to a dedicated group tackling plastic waste issues (Exhibit 17). One example of these groups is the Thailand Public Private Partnership for Plastic and Waste Management (Thailand PPP Plastics). This group includes representatives from production through to retail including the Federation of Thai Industries (FTI), Thailand Business Council for Sustainable Development (TBCSD), and Thai Plastic Industries Association. It also includes civil society and international organisations: Thailand Environment Institute Foundation, Thai Creation Society, and International Union for Conservation of Nature (IUCN).

**EXHIBIT 19** 

## There is strong potential for incorporating international best practices in existing plastic waste initiatives and improving coordination

Percent of respondents who indicate potential for improvement in area countries Incorporating international best practices Coordinating with 34% government initiatives Coordinating with 33% 38% 31% 62% 16% 20% other initiatives Scaling up successful 32% 15% pilot initiatives Focusing on the 11% 30% root causes of issues Forming partnerships with 25% 36% range of different stakeholders.

. . . .

 $SOURCE: \ Business surveys conducted in 2020 in \ Indonesia \ n=45, \ Malaysia \ n=54, \ Philippines \ n=55, \ Thailand \ n=56 \ and \ VietNam \ n=54; \ total \ n=264 \ and \ NetNam \ n=54, \ NetNam \ n=56, \$ 

The multi-country business surveys in 2020 reveal that more efforts could be done by governments, food and beverage companies as well as consumers to tackle marine ocean plastics and plastic waste issues.

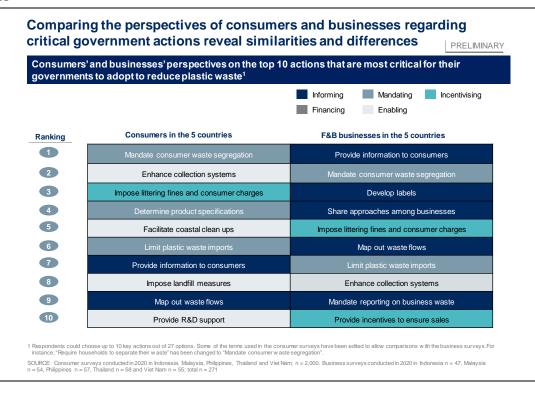
Though there are clear gaps in the current efforts by businesses including the lack of focus on stakeholder engagement as well as recycling and reuse, it is promising that these businesses are broadening their focus in the near future.

While businesses in the food and beverage industry are currently disrupted by the current COVID-19 situation, and sustainability efforts might be deprioritised in the short-term, it is crucial that these businesses also focus on the long-term implications of plastic waste issues and unsustainable packaging.

### 3. Conclusions

The consumer and business surveys revealed many areas of similarities in perspectives. For example, consumers and businesses show clear concern with plastic waste issues and a realisation that current efforts are insufficient and need to be augmented. Consumers and businesses also agree on some of the key government priorities (Exhibit 20), including the necessity of actions such as mandating consumer waste segregation and improving information for consumers (in areas such as labelling and recycling).

#### **EXHIBIT 20**



What could this mean in terms of future actions to tackle marine debris? Many actions are required to tackle the plastic waste challenge and providing an exhaustive analysis of these actions is beyond the scope of this research. However, this research does highlight some interesting potential opportunities for each stakeholder group to drive positive change, including:

1. Consumers. There is a large gap between consumer concern with plastic waste to this translating into action in terms of purchasing decisions and recycling / reuse habits. Behavioural change programs coupled with initiatives around improving information (e.g. consistent labelling regarding the ability of a product to be recycled, waste segregation approaches) could be useful areas to explore, particularly in rural areas. As highlighted in this survey, using social media to engage consumers will be a key channel for conducting these activities.

- 2. Food and beverage businesses. Businesses agree that they need to do more to tackle plastic waste issues and prioritise recycling efforts. A starting point could be to ensure that all companies have public, quantified targets, with clear timelines. Encouraging greater mobilisation of businesses on these issues by joining relevant local, regional, or international efforts could also be crucial to building their capabilities and helping drive scale in their actions.
- 3. Governments. It is clear that both consumers and businesses think that their governments are concerned with plastic waste issues and are trying to take action. Some of the key areas where consumers and businesses believe government action could be most critical include mandating waste segregation, enhancing collection systems, ensuring consistent labelling on product recycling, and imposing littering fines and charges.

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Tackling the plastics challenge is feasible. Focused action could see dramatic improvements in a relatively short time.

Making this change happen will require a multi-stakeholder approach. UNEP and the FIA will be monitoring progress with follow-up surveys scheduled for 2022.

## Appendix A: Approach

#### **CONSUMER SURVEY**

This report used online consumer surveys (available in both English and local languages) in Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. Quotas were added to ensure the sample matched the demographics of the country (e.g. gender, age, income). For statistical significance, a minimum sample size of 400 respondents in each country was analysed. To obtain indicative insights on the impact of urbanisation on plastic waste awareness, responses from Tier 1 cities were considered as urban while responses from other cities were considered as rural (inline with similar studies).

The regional breakdown was as follows:

- Indonesia Greater Jakarta (Urban) vs. Rest of Indonesia (Rural)
- Malaysia Three Market Centres (Klang Valley, Johor, Penang) (Urban) vs. Rest of Malaysia (Rural)
- Philippines Greater Manila (Urban) vs. Rest of Philippines (Rural)
- Thailand Greater Bangkok (Urban) vs. Rest of Thailand (Rural)
- Viet Nam Ha Noi / Ho Chi Minh (Urban) vs. Rest of Viet Nam (Rural)

#### **BUSINESS SURVEY**

A minimum sample size of 50 companies in each country was surveyed through business associations, food and beverage associations, universities, research organisations and government agencies. The business surveys were available in both English and local languages. The total number of companies who responded to the surveys was 399:

- Indonesia 78
- Malaysia 81
- Philippines 95
- Thailand 82
- Viet Nam 63

#### The local partners were:

- Indonesia Gabungan Pengusaha Makanan dan Minuman Seluruh Indonesia (GAPMMI)
- Malaysia International Islamic University Malaysia (IIUM) and the Federation of Malaysian
   Manufacturers Malaysian Food Manufacturing Group (FMM MAFMAG)
- Philippines Philippine Chamber of Food Manufacturers, Inc. (PCFMI)
- Thailand Department of Environmental Quality Promotion (DEQP), Ministry of Natural Resources and Environment
- **Viet Nam** Academy of Policy and Development, Ministry of Planning and Investment (MPI)

Efforts were taken to ensure that the sample covers a wide range of companies across the value chain, company ownership structure, company size and locations within the countries. These ensured that the results are not skewed to a particular business type (e.g. foreign subsidiaries which might have a higher level of awareness of plastic waste issues).

## **Appendix B: Questionnaires**

## **EXAMPLE OF A COUNTRY CONSUMER SURVEY (ENGLISH)**

Consumer awareness survey of plastic waste issues in the Philippines 2020

#### Introduction

Food Industry Asia (FIA) and the United Nations Environment Programme (UNEP) have commissioned a consumer awareness survey to understand the level of understanding of plastic waste issues. A similar survey will be conducted in 2022 for comparison. This survey will cover Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. The purpose of this survey is to understand consumer attitudes towards plastic waste and your perspectives on how to best tackle plastic waste.

This survey will take approximately 10 minutes to complete. The information you provide will be anonymised. The overall findings will be published in a public report.

Thank you for participating in our survey. Your feedback is important, and your time is very much appreciated.

## Section 1: Basic Information Q1: What is your gender?

- Male
- Female

#### Q2: What is your age?

- 17 or younger
- 18 20
- 21 29
- 30 39
- 40 49
- 50 59
- 60 or older

#### Q3: What is your approximate average monthly household income?

- Less than PHP 8,000
- PHP 8,000 to PHP 15,999
- PHP 16,000 to PHP 31,999
- PHP 32,000 to PHP 78,999

- PHP 79,000 to PHP 119,999
- PHP 120,000 to PHP 159,999
- PH 160,000 and more

## Q4: What is your educational level?

- No studies
- Elementary school
- Junior high school
- Senior high school
- University
- Post graduate qualification
- Others: \_\_\_\_\_

## Q5: Where do you currently live in?

- Greater Manila
- Davao city
- Cebu city
- Zamboanga City
- Antipolo
- Cagayan de Oro
- Dasmariñas
- Bacoor
- General Santos
- San Jose del Monte
- Other, please specify: \_ \_ \_

## Q6: How do you describe your neighbourhood?

- Urban
- Suburban
- Rural

## Section 2: Perspectives on current awareness and concerns regarding plastic waste issues in the Philippines

## Q7: Please indicate how much you agree / disagree with the following statements?

(NA = Don't Know; I= Strongly Disagree; 2= Disagree; 3= Neither agree nor disagree; 4= Agree; 5= Strongly Agree)

(please tick only one answer per statement)

In the Philippines						_
• •	111	,	0	2	4	_
The government is actively tackling plastic	NA	1	2	3	4	5
waste through policies and regulations						
The frequency of the waste collection system	NA	1	2	3	4	5
in my neighbourhood is adequate						
The quality of the waste collection system in	NA	1	2	3	4	5
my neighbourhood is adequate						
Businesses are concerned about plastic waste	NA	1	2	3	4	5
issues						
Businesses are doing enough to tackle plastic	NA	1	2	3	4	5
waste issues						
People should be more educated about	NA	1	2	3	4	5
plastics and the effect on the environment						
I am extremely concerned about the extent of	NA	1	2	3	4	5
plastic waste issues						
I am actively pursuing efforts to tackle plastic	NA	1	2	3	4	5
waste						
I know how to properly segregate my	NA	1	2	3	4	5
household waste for recycling						
I always segregate my household waste for	NA	1	2	3	4	5
recycling						
I regularly look at products to understand if the	NA	1	2	3	4	5
material has been recycled before I buy them						
If a product is made from non-recycled	NA	1	2	3	4	5
material, I am less likely to buy it						
I have a good understanding of what products	NA	1	2	3	4	5
can be recycled						

## Q8: How often is your household waste collected by a waste collection organisation?

- Never
- Daily
- 1 time per week
- 2 times per week
- 1 time per month
- Other (please specify)

#### Don't know

Section 3: Perspectives on current and potential set of actions to tackle plastic waste issues in the Philippines

Q9: Which of the following 3R (Reduce, Reuse and Recycle) actions are you <u>currently</u> doing or would consider doing in the future?

(please tick all actions that apply)

3R approach	Action	Currently doing	Would consider doing in the future (next 12 to 18 months)
Reduce	Reduce my use of disposable		
	plastic products		
	Buy and use only what I need		
	Choose products with less		
	packaging		
	Stop shopping at businesses which		
	use a lot of packaging that cannot		
	be recycled		
	Stop buying products that have		
	packaging which cannot be		
	recycled		
	Shop at businesses which are		
	environmentally conscious about		
	plastic issues		
	Participate in beach and riverside		
	clean ups		
	Buy products in bulk or larger		
	formats		
Reuse	Use reusable water bottles,		
	reusable grocery bags and plastic		
	alternatives when you can		
	Reuse disposable products such as		
	plastic bags and plastic bottles		
	(e.g. as containers to store non-		
	beverage items)		
Recycle	Buy more products made from		
	recycled / alternative materials		
	Take my reusable plastic waste to		
	recycling facilities (e.g. waste		
	banks)		

	Convert my plastic waste into	
	useful products (e.g. using used	
	plastic bottles to make decorative	
	items and eco-bricks)	
Others	Dispose of my litter, including	
(related to	plastics, in the appropriate bins	
3Rs)	Spread awareness of how to	
	recycle, reuse and reduce plastic	
	waste to my friends, family and	
	community	
	Actively monitor my plastic usage	

Q10: Are you currently or thinking about pursuing any other action not mentioned above? (max. 300 words)

(open text)

Section 4: Perspectives on potential opportunities to scale up action in the Philippines Q11: Please indicate the <u>top actions (up to ten)</u> that are the most critical for the Filipino government to pursue to reduce plastic waste.

(please only indicate up to ten choices)

Government actions	Your top choices (please only indicate up to ten choices)
Businesses must report how much plastic packaging they use	
to the government	
Providing information to consumers, including on how to	
separate their waste to support recycling	
Labels (e.g. Recyclability labels to help consumers know what is recyclable)	
Government should understand more about the sources of	
plastics, how much is being collected and how it's being	
disposed of	
Businesses which have successfully managed to improve the	
amount of waste they produce can show other businesses	
how to do it	
Producers are required to pay consumers who recycle their	
packaging and products	
Businesses and consumers have to pay more if they produce	
more waste	
Littering fines and consumer charges	
Government procurement requirements (e.g. government	
offices can only buy recycled materials or products from	
businesses)	
Incentives to ensure the sale of products (e.g. offering long-	
term contracts for energy supply from waste-to-energy	
sources)	
Households are required to separate their waste	
Minimising the amount of waste imported to the Philippines	
from other countries	
Bans of single-use plastics	
Products have to be biodegradable or recyclable	
Businesses have to use a certain amount of recycled materials	
in their products	
Businesses allowed to use recycled plastic in food packaging	
and other bans removed	
Training for people who collect recyclable materials from	
streets and dumps, but are not part of any formal organisation	

Beach and riverside clean ups	
Collection systems (e.g. more public rubbish bins and	
recycling centres)	
Waterway infrastructure (e.g. placing metal traps over drains	
to collect waste materials)	
Landfill measures (e.g. new sanitary landfills where waste is	
buried in layers and covered with linings to prevent	
contamination, shifting hazardously placed landfills such as	
those around water bodies)	
Improving waste transportation system (e.g. installing sensors	
on waste trucks to prevent illegal dumping)	
Actions to reduce policy risk and increase participation (e.g.	
allowing local governments to introduce localised laws)	
Financing support, including blended finance which is a mix of	
government and private sector funding	
Research and Development (R&D) support (e.g. more funding	
available for studying plastic waste treatment)	
City-level training support	
Encourage different groups to work together (e.g. forming	
partnerships among government agencies, businesses and	
schools)	

# Q12: What are the most effective ways for consumers to learn more about and be encouraged to take action on plastic waste issues? (please tick all that apply)

- Television
- Radio
- Newspapers
- Social media (e.g. Facebook, Twitter, Instagram)
- Door-to-door campaigns
- Community (e.g. friends, neighbours, family)
- Others (please specify)

# Q13: Which plastic waste issues should be prioritised in consumer awareness programmes? (please tick all that apply)

- 3R (Reduce, Reuse, Recycle) concept
- Practical 3R tips
- Production of plastics
- Segregation of plastics
- Collection of plastics
- Disposal of plastics
- Impact of plastic pollution on the environment

• Others (please specify)

## Q14: Please indicate how much you agree / disagree with the following statements?

(NA = Don't Know; I= Strongly Disagree; 2= Disagree; 3= Neither agree nor disagree; 4= Agree; 5= Strongly Agree)

(please tick only one answer per statement)

Existing plastic waste initiatives in the Philippines						
incorporate international best practice	NA	1	2	3	4	5
form collaborations between a range of	NA	1	2	3	4	5
different organisations, businesses and						
partners						
are focused on the root causes of issues	NA	1	2	3	4	5
are based on scaling up successful small-		1	2	3	4	5
scale pilot tests / experiments						
are closely coordinated with government	NA	1	2	3	4	5
initiatives						
are coordinated with each other (e.g. share	NA	1	2	3	4	5
best practices, do not overlap)						

Q15: If you could recommend one specific action that the government could do in the Philippines to significantly reduce plastic waste, what would it be? (max. 300 words)

(open text)

## **EXAMPLE OF A COUNTRY BUSINESS SURVEY (ENGLISH)**

Business awareness survey of plastic waste issues in Asia: Philippines 2020

#### Introduction

Food Industry Asia (FIA) and the United Nations Environment Programme (UNEP) have commissioned a business awareness survey to understand the level of awareness of plastic waste issues amongst food and beverage companies. A similar survey will be conducted in 2022 for comparison. This survey will cover Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. The purpose of the survey is to understand how businesses are currently tackling plastic waste issues and identify the opportunities for a multi-stakeholder partnership to scale up current efforts.

This survey will take approximately 10 minutes to complete. Your individual responses will be completely anonymous and only the aggregated results will be shared with participating companies, as well as UNEP and FIA. The overall findings will be published in a public report.

If you have any questions about this survey, please contact Cheng Wei Swee <a href="mailto:chengwei.swee@alphabeta.com">chengwei.swee@alphabeta.com</a>.

We thank you for your participation.

The survey is split into four main sections:

- 1. Basic information about your company
- 2. Perspectives on current awareness and concerns regarding plastic waste issues in the Philippines
- 3. Perspectives on current and potential set of actions to tackle plastic waste issues in the Philippines
- 4. Perspectives on potential opportunities to scale up action in the Philippines

Before proceeding further in this survey, please ensure that you are representing a food and beverage company operating in the Philippines.

#### Section 1: Basic Information

Q1: What term(s) best describe(s) your organisation? (select all that apply)

- Retailer
- Brand owner
- Manufacturer
- Importer
- Distributor
- Other (please specify)

### Q2: What term best describes your company ownership structure?

- 100% Filipino owned
- Joint venture with a foreign company
- Foreign subsidiary
- Other (please specify)

## Q3: What is the total number of permanent employees in your company in the Philippines?

- 1 19
- 20 49
- 50 99
- 100 249
- 250 499
- 500 999
- 1,000 2,500
- Over 2,500

## Q4: Which cities in the Philippines do your company operate in? (please select all that apply)

- Greater Manila
- Davao city
- Cebu city
- Zamboanga City
- Antipolo
- Cagayan de Oro
- Dasmariñas
- Bacoor
- General Santos
- San Jose del Monte
- Other:\_\_\_\_\_

# Section 2: Perspectives on current awareness and concerns regarding plastic waste issues in the Philippines

## Q5: Please indicate how much you agree / disagree with the following statements?

(NA = Don't Know; I= Strongly Disagree; 2= Disagree; 3= Neither agree nor disagree; 4= Agree; 5= Strongly Agree)

(please tick only one answer per statement)

In the Philippines						
The government is actively tackling plastic	NA	1	2	3	4	5
waste through policies and regulations						
Current efforts by government, industry and	NA	1	2	3	4	5
civil society are sufficient to tackle plastic						
waste						
Consumers are concerned about plastic waste	NA	1	2	3	4	5
issues						
My company is extremely concerned about	NA	1	2	3	4	5
plastic waste issues						
My company is actively monitoring its plastic	NA	1	2	3	4	5
usage						
My company is actively pursuing efforts to	NA	1	2	3	4	5
tackle plastic waste (including reduction,						
reuse and recycling)						
My company has a dedicated individual /	NA	1	2	3	4	5
team looking into plastic usage and reduction						
efforts						
The current efforts of our company to tackle	NA	1	2	3	4	5
plastic waste are sufficient						

Section 3: Perspectives on current and potential set of actions to tackle plastic waste issues in the Philippines

Q6: Which of the following actions does your company <u>currently</u> focus on; or are potentially interested in focusing on in the future?

(please select all that apply)

Approach	Action	Currently implementing	Potentially interested in implementing in the future (next 12-18 months)
Target setting	Target to reduce plastic waste		
	Target to increase the use of		
	recycled products		
	Target to educate a certain		
	number of consumers		
	through events and		
	campaigns		
	Target to set criteria related		
	to sustainable packaging in		
	the procurement process		
	(e.g. avoiding products with		
	microbeads or only		
	purchasing from suppliers		
	with track records in reducing		
	plastic waste)		
Packaging	Monitoring of plastic waste		
reduction	usage and waste		
	Reduction of single-use		
	plastics (e.g. plastic bags,		
	straws)		
	Light-weighting of primary		
	and secondary packaging of		
	products		
	New packaging formats (e.g.		
	package-free concept or		
	transition from small-format		
	plastic packaging to larger		
	packs)		
	Increased use of alternative		
	and recycled materials		

	Reduction of tertiary	
	packaging (i.e. involved in	
	the transport of goods)	
Stakeholder	Recyclability labels on	
engagement	products	
ongagomone	Consumer education	
	campaigns	
	Employee education and	
	training campaigns	
	Organising coastal clean ups	
	Engagement with	
	policymakers	
	Informal waste picker support	
	programmes	
	Participation in a multi-	
	stakeholder platform	
	dedicated to plastic waste	
	issues	
Recycling /	Providing financial incentives	
reuse	for reuse / recycling (e.g.	
	container deposits, discounts	
	for use of reusable	
	containers, low value plastic	
	subsidy)	
	Provide infrastructure to	
	support collection and	
	recycling (e.g. refuse bins)	
	Waste exchange programme	
	(e.g. taking part in operating	
	platforms that link and	
	match companies to ensure	
	waste from one company	
	can be used in another	
	company)	
	Engaging in waste-to-energy	
	initiatives	
	Engaging in recycling	
	technologies (e.g. MRF)	
	Engaging in research and	
	development (R&D) related	
	to recycling / reuse	
	, ,,	

Providing reusable products	
(e.g. products are returned	
by consumers and directly	
used again after cleaning)	

Q7: Is your company undertaking any other initiatives related to plastic waste which are not covered above? If so, please describe them below. (max. 300 words)

(open text)

Q8: Can you share information on an initiative that your company is involved in related to plastic waste which you are excited about? (max. 300 words)

(open text)

Q9: Does your company have a target to address plastic waste?

- No
- Yes (but only communicated internally)
- Yes (and communicated internally and publicly)

Q10: Is the target quantitative (e.g. reduce plastic waste by 25%)?

- No
- Yes

Q11: Does the target indicate a time for when it will be achieved (e.g. by 2025)?

- No
- Yes

Q12: If your company has a target for addressing plastic waste, can you please share what it is? (max. 300 words)

(open text)

Q13: Is your company part of any group(s) tackling plastic waste issues in the Philippines?

- No
- Yes (in a local group)
- Yes (in a regional / international group)
- Yes (in multiple groups)

Section 4: Perspectives on potential opportunities to scale up action in the Philippines Q14: Please indicate the <u>top actions (up to ten)</u> that are the most critical for the Filipino government to pursue to help address plastic waste.

(please only indicate up to ten choices)

Area	Description	Actions	Your top choices (please only indicate up to ten choices)
Informing	Seeking to	Mandatory reporting on business	
	increase	waste (i.e. businesses must report	
	information on	how much plastic packaging they	
	waste flows, as	use to the government)	
	well as raise	Providing information to	
	business and	consumers, including on waste	
	consumer	segregation	
	awareness	Labels (e.g. Recyclability labels to	
		help consumers know what is	
		recyclable)	
		Mapping of waste flows (e.g. the	
		government should understand	
		the sources of plastics as well as	
		how much is being collected and	
		disposed of)	
		Sharing of approaches among	
		businesses for tackling waste (i.e.	
		businesses which have	
		successfully managed to improve	
		the amount of waste they produce	
		can show other businesses how to	
<u>-</u>	0 1.	do it)	
Financing	Seeking to	Extended Producer Responsibility	
	identify	(EPR) scheme where producers	
	sustainable	pay a fee to support the collection	
	financing	and recycling of product	
	approaches to	packaging (e.g. in some countries,	
	the waste system	producers are made to pay	
		consumers who recycle their	
		bottles)	
		Pay-as-you-throw (PAYT)	
		approaches for businesses and	
		consumers (e.g. businesses and	

		consumers have to pay more if	
		they produce more waste)	
Incentivisi	Incentivising	Littering fines and consumer	
	change in	charges	
ng	consumer and		
	business	Government procurement	
		requirements (e.g. government	
	behaviour	offices can only buy recycled	
	(beyond	materials or products from	
	financing	businesses)	
	approaches	Incentives to ensure the sale of	
	above)	products (e.g. offering long-term	
		contracts for energy supply from	
		waste-to-energy sources)	
Mandatin	Requiring certain	Mandated consumer waste	
g	behaviour	segregation (i.e. households must	
	changes in	separate their waste)	
	producers and	Limitations on plastic waste	
	consumers	imports (e.g. reducing the amount	
		of plastic waste from other	
		countries into the Philippines to a	
		certain volume)	
		Bans of single-use plastics	
		Product specifications (e.g.	
		products to be biodegradable or	
		to have the ability to be recycled)	
		Recycled content standards (i.e.	
		businesses must ensure a certain	
		amount of recycled materials in	
		their products)	
Enabling	Supporting the	Regulatory changes (e.g.	
	waste	removing bans and allowing	
	ecosystem,	businesses to use recycled plastic	
	through training,	in food products)	
	financing,	Training for the informal waste	
	infrastructure	sector which refers to people who	
	and technology	collect recyclable materials and	
	support	are not part of any organisation	
		Coastal clean ups (e.g. beach	
		and riverside clean ups)	
		Collection systems (e.g. more	
		public rubbish bins and recycling	
		centres)	
		Ceriu es j	

	Waterway infrastructure (e.g.	
	placing metal traps over drains to	
	collect waste materials)	
	Landfill measures (e.g. new	
	sanitary landfills where waste is	
	buried in layers and covered with	
	linings to prevent contamination,	
	shifting hazardously placed	
	landfills such as those around	
	water bodies)	
	Improving waste transportation	
	system (e.g. installing sensors on	
	waste trucks to prevent illegal	
	dumping)	
	Actions to reduce policy risk and	
	increase participation (e.g.	
	allowing local governments to	
	introduce localised laws)	
	Financing support, including	
	blended finance which is a mix of	
	government and private sector	
	funding	
	Research and Development (R&D)	
	support (e.g. funding studies to	
	find new plastic waste treatment	
	methods)	
	City-level training support	
	Multi-stakeholder partnerships	
	(e.g. encourage different groups	
	such as government agencies,	
	businesses and schools to work	
	together)	

### Q15: Please indicate how much you agree / disagree with the following statements?

(NA = Don't Know; I= Strongly Disagree; 2= Disagree; 3= Neither agree nor disagree; 4= Agree; 5= Strongly Agree)

(please tick only one answer per statement)

Existing plastic waste initiatives in the Philippines								
incorporate international best practice		1	2	3	4	5		
form partnerships between a range of		1	2	3	4	5		
different stakeholders								
are focused on the root causes of issues		1	2	3	4	5		
are based on scaling up successful pilot		1	2	3	4	5		
initiatives								
are closely coordinated with government		1	2	3	4	5		
initiatives								
are coordinated with each other (e.g. share		1	2	3	4	5		
best practices, do not overlap)								

Q16: If you could recommend one specific action that the government could do in the Philippines to significantly reduce plastic waste, what would it be? (max. 300 words)

(open text)

#### **Section 5: FINAL Comments**

Q17: Do you have any additional comments or feedback on this survey? (max. 300 words) (open text)

## Section 6: Contact Details (optional)

Q18: Full name Q19: Company

Q20: Job title

Q21: Email address Q22: Phone number

Q23: Please tick here if you're happy to be contacted for further information or a follow-up call.

- Ves
- No

## Acknowledgements



#### SEA circular: solving plastic pollution at source

SEA circular is an initiative of UN Environment Programme and the Coordinating Body on the Seas of East Asia (COBSEA) to inspire market-based solutions and encourage enabling policies to prevent marine plastic pollution in South-East Asia.

https://www.sea-circular.org/



### United Nations Environment Programme (UNEP)

UNEP is the leading global voice on the environment. It provides leadership and encourages partnership in caring for the environment by inspiring, informing and enabling nations and peoples to improve their quality of life without compromising that of future generations.

https://www.unenvironment.org/regions/asia-and-pacific



### Coordinating Body on the Seas of East Asia (COBSEA)

COBSEA oversees the implementation of the East Asian Seas Action Plan, adopted in 1981 and revised in 1994. The East Asian Seas Action Plan brings together nine countries – Cambodia, People's Republic of China, Indonesia, Republic of Korea, Malaysia, the Philippines, Thailand, Singapore and Vietnam – in development and protection of the marine environment and coastal areas of the region, for the health and wellbeing of present and future generations.

https://www.unenvironment.org/cobsea/



#### The Swedish International Development Cooperation Agency (Sida)

Sida is a government agency working on behalf of the Swedish parliament and government, with the mission to reduce poverty in the world. Through its work and in cooperation with others, Sida contributes to implementing Sweden's Policy for Global Development (PGU). Sida carries out enhanced development cooperation with a total of 35 countries in Africa, Asia, Europe and Latin America.

https://www.sida.se/English/



## Food Industry Asia (FIA)

FIA was founded in July 2010 by a group of leading food and beverage companies. From our base in Singapore, we seek to enhance the industry's role as a trusted partner in the development of science-based policy in the region. FIA provides an important hub for advocacy and debate. We bring together the food industry's most senior business leaders to champion initiatives that promote sustainable growth and support regional policies that deliver harmonised results.

https://foodindustry.asia/



#### AlphaBeta

AlphaBeta is a strategy and economic advisory business serving clients across Asia from our headquarters in Singapore. Our team of advisors are experts in both strategy and economics who partner with clients from the private, public, and not-for-profit sectors to identify the forces shaping their markets and develop practical plans to create prosperity and wellbeing.

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