



**The 2<sup>nd</sup> Regional Workshop Series**  
**Reduce, Reuse, Recycle to Protect the Marine Environment and Coral Reefs (3RproMar)**

**Bali, 22 May 2023**

# **The Implementation of Roadmap of Producer Responsibility in Waste Reduction**

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# Presentation Outline

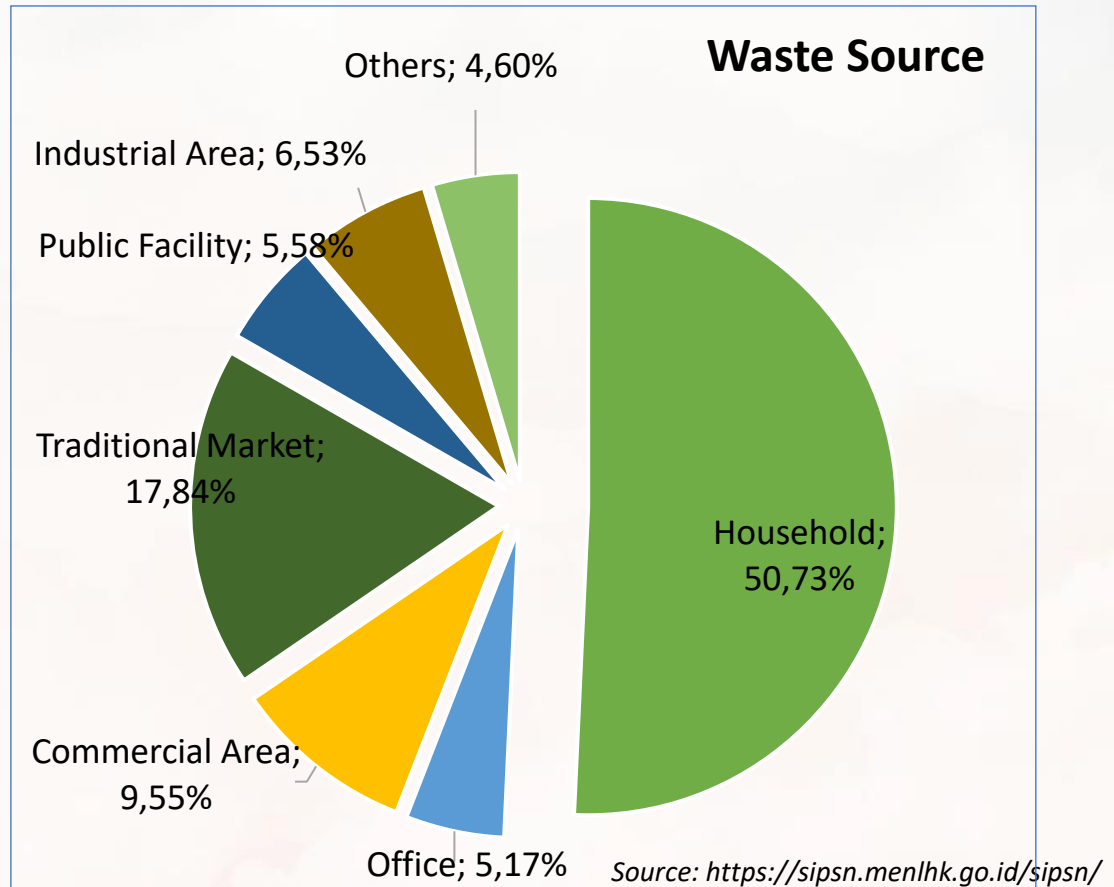
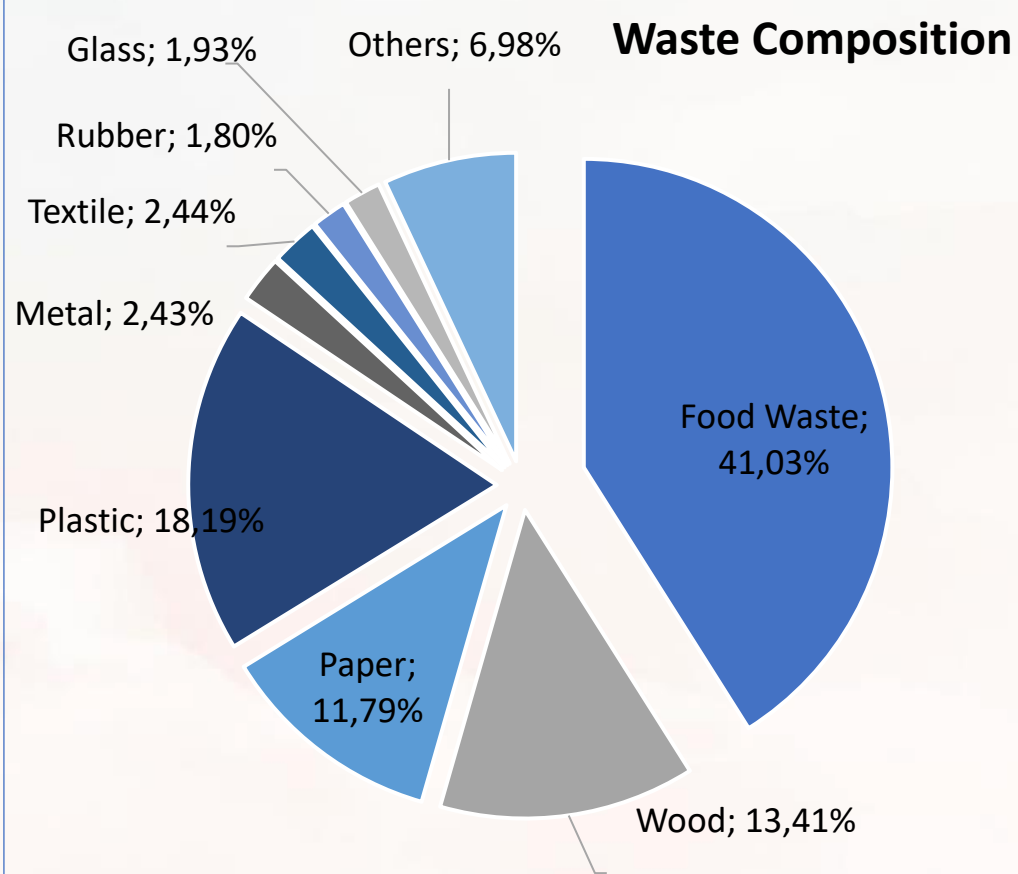
- Indonesia Solid Waste Management Data
- Plastic Waste Challenge in Indonesia
- Plastic Recycling in Indonesia
- Target, Strategy, and Goal of Solid Waste Management in Indonesia
- Producer Responsibility in Waste Reduction
- Implementation of Circular Economy in Indonesia
- Strategies to Accelerate the implementation of Producer Responsibility in Waste Reduction



# INDONESIA SOLID WASTE MANAGEMENT DATA IN 2022



## Waste Generation (2021) 68.5 million ton



Potential of Plastic Waste in Indonesia: 18.19 % (2022) or around 12.46 million ton/year (unsorted)  
Potential of Paper Waste in Indonesia: 11.79% (2022) or around 8.08 million ton/year (unsorted)

Potential as Recycling Resource → Implementing Circular Economy



# Plastic Waste Challenges in Indonesia

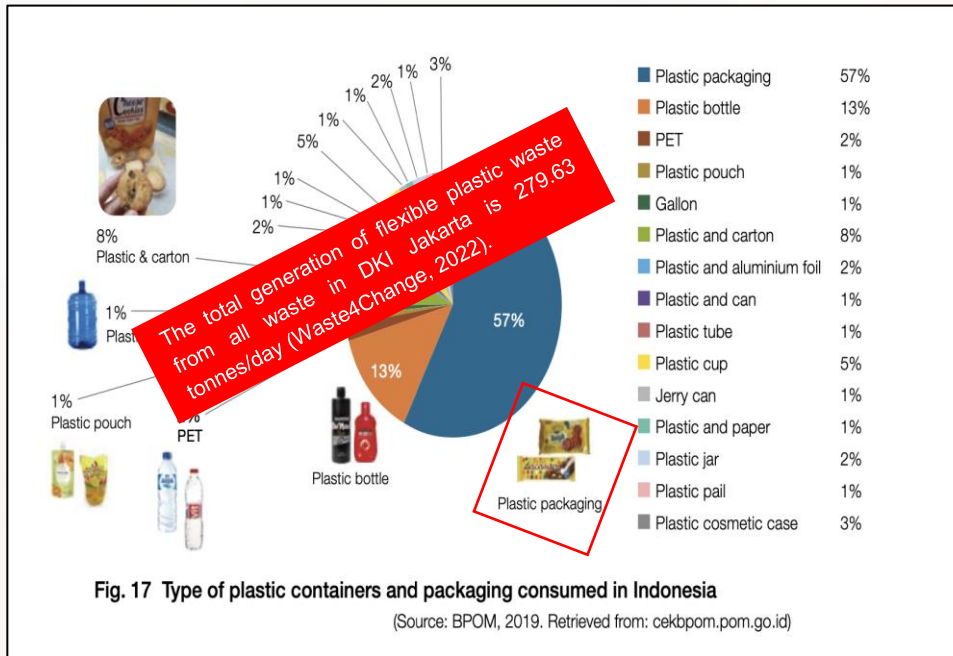
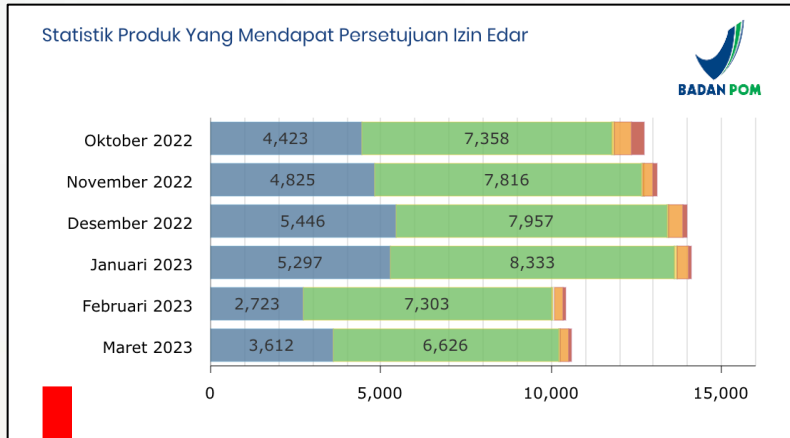


Fig. 17 Type of plastic containers and packaging consumed in Indonesia  
(Source: BPOM, 2019. Retrieved from: cekbpom.pom.go.id)

## PEMAKAIAN SEDOTAN INDONESIA

93 million pieces of plastic straws are used in Indonesia every day!

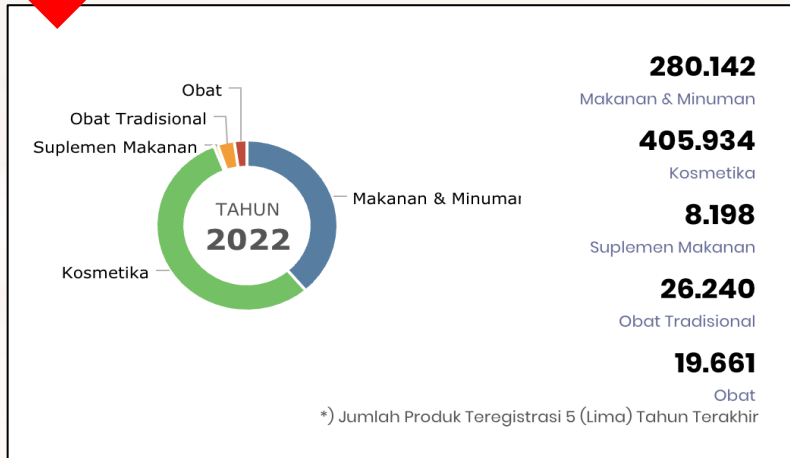
JARAK

PER HARI 16.784 KM

PER MINGGU 117.449 KM

PER BULAN 503.522 KM

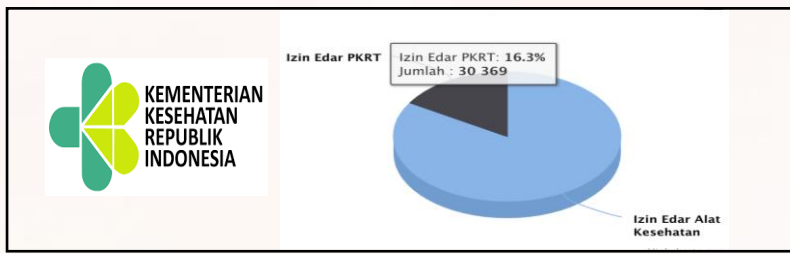
SUMBER: BIT.LY/SUMBERINFOJCA



Indonesia uses 9.8 billion plastic bags every year. Almost 95% of it ends up at our environment (MoEF, 2015)

During Pandemic Covid 19, in 2020, in the PSBB era, The frequency of online shopping, increased from one to 10 times per month, and 96% online shopping items are wrapped and delivered using plastic.

Source: Oceanographic Research and the Population Research Center of the Indonesian Institute of Sciences (LIPI)



# Plastic Recycling in Indonesia

Plastic & Paper Waste Generation in Indonesia **19,66 Million Tons/Year**  
(SIPSN KLHK, 2021)

## Plastic:

18,19 % (2022) → 12,46 Million ton/Year

## Papper:

11,79 % (2022) → 8,08 Million ton/year  
(unsaggregated)

The domestic supply capacity of paper and plastic waste for recycling industry is only **46%**

(Database of BS KLHK, BPS, INAPLAS, ITC. Analysis by SWI, 2020)

Globally, only **9% of plastic waste is recycled** (OECD Global Plastics Outlook Database)

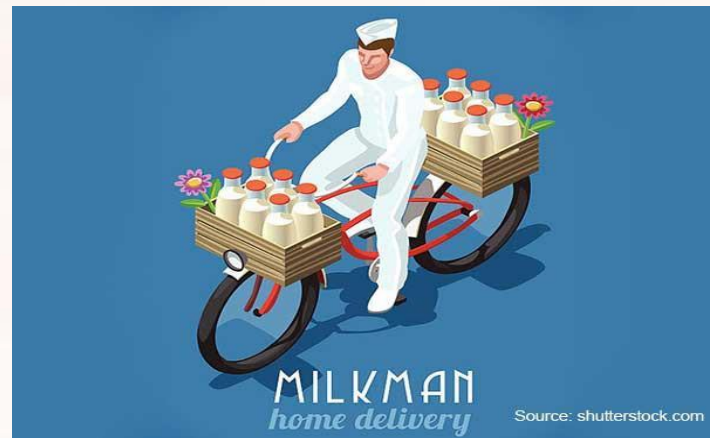
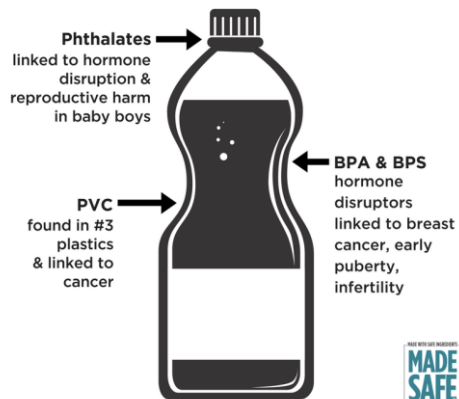
## 1. Not all plastic packaging waste are absorbed by the recycling industry

- Technically cannot be recycled
- Technically recyclable but not economically feasible.
- Technically and economically recyclable but not well-collected separately.
- Recycling infrastructure is still limited (low recycling rate)
- Contains harmful substances such as phthalates, chlorine, and styrene

## 2. Reuse Model Business as Forgotten Solution

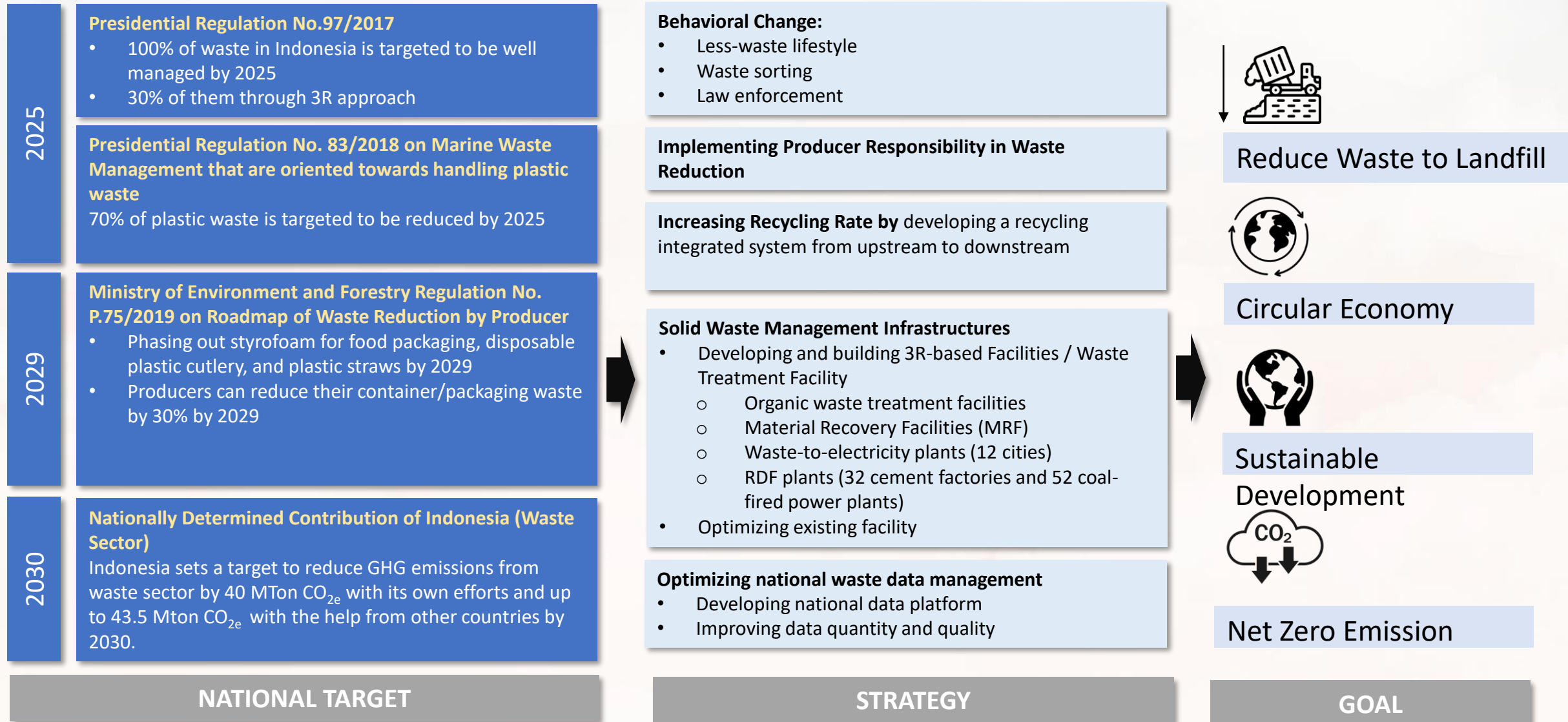
- Sales without packaging
- Refills model
- reusable model

## Toxic Chemicals in Plastics





# TARGET, STRATEGY, AND GOAL

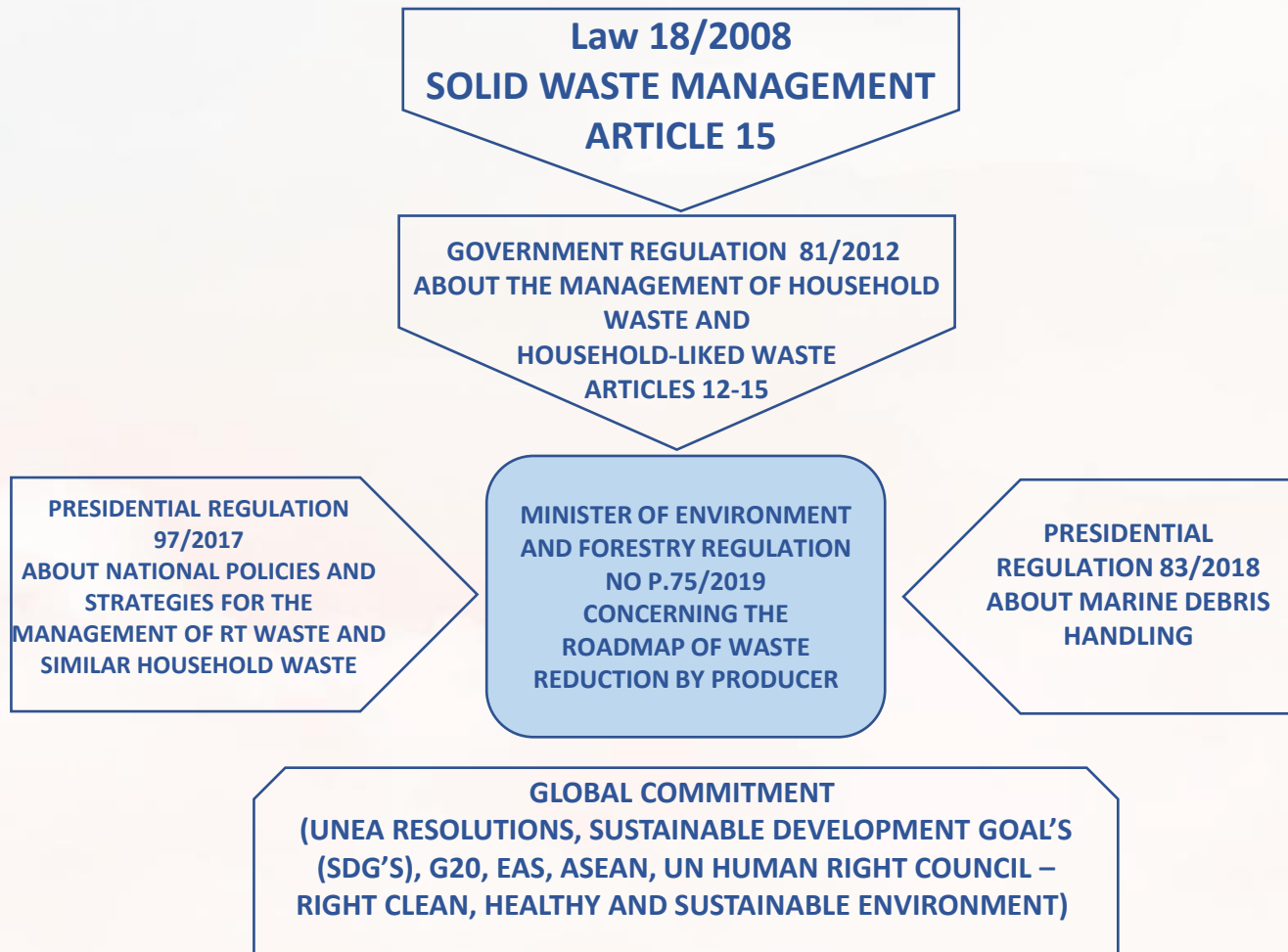






# THE PRODUCER'S RESPONSIBILITY FOR THE PACKAGING AND/OR GOODS IT PRODUCES

## MANDATE OF LEGAL REGULATIONS



**THE PRODUCER IS OBLIGED TO MANAGE WASTE GENERATED FROM PACKAGING AND/OR THEIR PRODUCT WHICH IS UNABLE OR DIFFICULT TO BE DECOMPOSED NATURALLY** (LAW 18 Year 2008 ARTICLE 15)

**PRODUCER IS BUSINESS ENTITY THAT PRODUCES PACKAGED PRODUCT, DISTRIBUTE IMPORTED PACKAGED PRODUCT OR SALE PRODUCT THAT ARE PACKED WITH MATERIAL THAT ARE DIFFICULT OR CANNOT BE DECOMPOSED NATURALLY** (GOVERNMENT REGULATION 81 Year 2012 ARTICLE 1)

**PRODUCER SHALL TO :**

- LIMIT WASTE GENERATION FROM PRODUCT/PACKAGING
  - TAKE-BACK POST-CONSUMER PRODUCT/PACKAGING FOR RECYCLING
  - REUSING POST-CONSUMER PRODUCT/PACKAGING
- (GOVERNMENT REGULATION 81 Year 2012 ARTICLE 12 – 14)

**PRODUCERS ARE REQUIRED TO DEVELOP A PLAN AND/OR PROGRAM FOR REDUCING WASTE IN STAGES FOR TEN YEARS THROUGH A ROADMAP** (GOVERNMENT REGULATION 81 Year 2012 ARTICLE 15)



**MINISTER OF ENVIRONMENT AND FORESTRY 75/2019 CONCERNING THE ROADMAP FOR WASTE REDUCTION BY PRODUCER**





## The Minister of Environment And Forestry Regulation Number P.75/2019 about The Roadmap of Waste Reduction By Producers



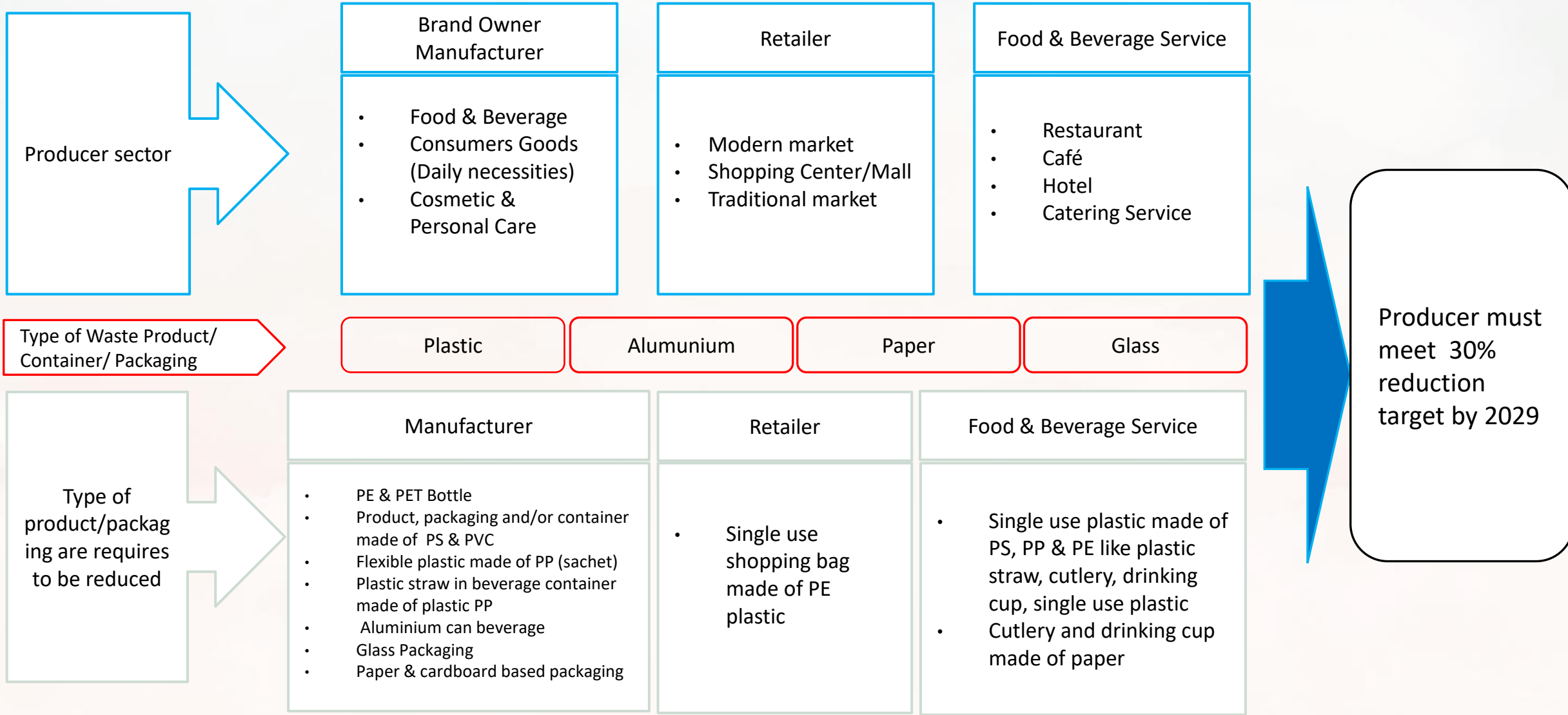
- This waste reduction obligation is imposed on producers in the following sectors:
  - Brand owner manufacturer
  - Retail
  - Food and Beverage Services
- Through the **3R (Reduce, Reuse, Recycle)** approach, Producers are required to:
  - Re-design the containers/packaging so that they are easy for reuse, easy to collect, have economic value and can be recycled into the same packaging raw materials as an effort to implement a circular economy, and sell products/services without packaging/containers and phase out products/ problematic packaging.
  - Taking-back and collect post-consumer product/packaging for recycling.
  - Taking-back and collect post-consumer product/packaging for reusing.
- **By the end of 2029, several single-use plastic items will be phased out** (for example, Styrofoam for food packaging, single-meal plastic cutlery, plastic straws, plastic shopping bags, small-sized packaging, etc.).
- Through this regulation, **Producers are required to prepare a Planning Document for Reducing Packaging Waste or a Roadmap of Waste Reduction by Producers** where the implementation is carried out in stages, it is hoped that in 2029 producers can reduce their container/packaging waste by 30% so that this can **encourage the growth of sustainable business and circular economic in Indonesia.**

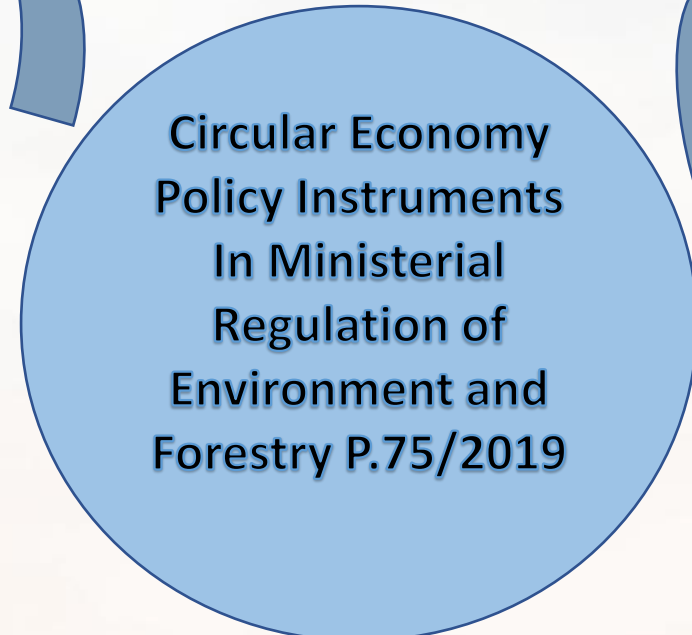






# Implementation Framework Ministerial Regulation of Environment and Forestry P.75/2019





### PHASE-OUT 1 JANUARY 2030

- PVC & PS Based Packaging
- Packaging Sachet size <50 ml or <50 gr
- Dedicated and loosed plastic straw
- Single use shopping plastic bag
- Single use cutlery & drinking cup include plate, cup, spoon, fork, and plastic foam container.

### RE-DESIGN

- Using materials that can be recycled or reused
- Using recycled materials (50% recycled content)
- Removing recycling process contaminants (e.g. labels and seals)
- Converting multi-material/multi-layer packaging materials into mono-material/mono-layer materials
- Set clear or bluish color for PET beverage packaging
- Right-sizing various types of packaging

### ECOLABEL

#### PACKAGING STANDARDS & LABELS

- Compostable
- Recyclable
- Reusable
- Recycled content







## Implementation of PermenLHK P.75 in the Framework of End Plastic Pollution

Some of the important contents of the **UN Resolution numbered UNEP/EA.5/Res. 14** :

- Plastic waste is officially declared as **a new pollutant** that can pollute the environment of land, inland waters, and oceans.
- Pollution due to plastic waste (**plastic pollution**) has reached a high and rapidly increasing level in terrestrial and marine ecosystems, threatening the environment, social life, and economic development.
- Plastic pollution can naturally be **transboundary**, especially **marine plastic**, so it requires cooperation between countries with **a full lifecycle plastic** approach starting from design, production, distribution, consumption, post-consumption, and post-consumption reuse and recycling.
- The importance of implementing a **circular economy** in ending plastic pollution through the **sustainable design of products and materials, reuse, remanufacture or recycle** to keep products or materials can be utilized continuously (circular) as long as possible to save resources and prevent and reduce plastic pollution due to plastic waste.

**The content of PermenLHK P.75** has contained **a full lifecycle plastic** approach starting from design, production, distribution, consumption, post-consumption, and post-consumption reuse and recycling, and through the implementation of PermenLHK P.75 can encourage the application of **a circular economy** in ending plastic pollution through **sustainable design of products and materials, reuse, remanufacture or recycle** as mandated in the resolution.



**UNITED NATIONS**

**EP**

**UNEP/EA.5/Res.14**

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7 March 2022  
Original: English

**United Nations  
Environment Assembly of the  
United Nations Environment  
Programme**

United Nations Environment Assembly of the  
United Nations Environment Programme  
Fifth session  
Nairobi (hybrid), 22 and 23 February 2021  
and 28 February–2 March 2022

**Resolution adopted by the United Nations Environment  
Assembly on 2 March 2022**

**5/14. End plastic pollution: towards an international legally binding instrument**  
*The United Nations Environment Assembly.*

In response to the Global Treaty to End Plastic Pollution planning, Indonesia has prepared **mandatory regulations** to support this plan.

# Implementation of Circular Economy through

Producer Responsibility, Waste Reduction Policy by Local Government, Waste Bank, Less Waste Lifestyle



**Waste Bank as part of Waste Collector**

- Education Center for Waste Sorting
- Waste Collector (an-organic and organic waste)
- Product/Packaging Waste Collection point as part of EPR
- Refill store for home care product

Local Government stipulates The regulation about Waste Bank

Local Government stipulates The regulation about Waste Reduction at Source

**Producer (Manufacturer, Retailer, F&B Service)**

- Producers as users of recycled packaging
- Elimination/Phasing Out Single-Use Plastic
- Product/Packaging Re-design
- Unpackaged/refillable/reuse sales
- Packaging Waste Take Back (**Extended Producer Responsibility**)
- Implementing Reverse Logistics for the Take Back process







# Accelerating the Implementation of PermenLHK P.75/2019 Through Single-Use Plastic Restriction Policy in the Regions



1. DKI Jakarta Province
2. Bali Province

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3. Ambon City
4. Badung Regency
5. Balikpapan City
6. Banda Aceh City
7. Bandung City
8. Bangka Regency
9. Banjar Regency
10. Banjarbaru City
11. Banjarmasin City
12. Banyumas Regency
13. Barito Kuala Regency
14. Batu Bara Regency
15. Baubau City
16. Bekasi City
17. Bekasi Regency
18. Berau Regency
19. Biak Numfor Regency
20. Bitung City
21. Blitar City
22. Boalemo Regency
23. Bogor City
24. Bogor Regency
25. Bontang City
26. Brebes Regency
27. Bukittinggi City
28. Ciamis Regency
29. Denpasar City
30. Depok City
31. Hulu Sungai Utara Regency
32. Indramayu Regency
33. Jambi City
34. Kapuas Regency
35. Katingan Regency
36. Kendal Regency
37. Kudus Regency
38. Langsa City
39. Lebak Regency
40. Lumajang Regency
41. Makassar City
42. Merauke Regency
43. Muara Enim Regency
44. Musi Banyuasin Regency
45. Nunukan Regency
46. Padang City
47. Palembang City
48. Pamekasan Regency
49. Pesisir Selatan Regency
50. Polewali Mandar Regency
51. Pontianak City
52. Prabumulih City
53. Probolinggo City
54. Purwakarta Regency
55. Rokan Hilir Regency
56. Rokan Hulu Regency
57. Samarinda City
58. Semarang City
59. Siak Regency
60. Sidenreng Rappang Regency
61. Sigi Regency
62. Situbondo Regency
63. Solok City
64. Sukabumi Regency
65. Sukabumi City
66. Tanah Bumbu Regency
67. Tanah Laut Regency
68. Tanjung balai City
69. Tapin Regency
70. Tarakan City
71. Tebing Tinggi City
72. Tuban Regency
73. Wajo Regency
74. Wonogiri Regency
75. Asmat Regency
76. Surabaya City
77. Salatiga City
78. Wakatobi Regency
79. Tanah Datar Regency
80. Gresik Regency
81. Gianyar Regency
82. Tabalong Regency
83. Kepulauan Selayar Regency
84. Kutai Timur Regency
85. Tegal Regency
86. Batu City
87. Penajam Paser Utara Regency
88. Buru Selatan Regency
89. Lombok Timur Regency
90. Aceh Barat Regency
91. Bantaeng Regency
92. Pekalongan Regency
93. Madiun Regency
94. Kupang City Regency
95. Pare pare City
96. Pati Regency
97. Tanjung Pinang City
98. Katingan Regency
99. Jombang Regency
100. Tangerang Selatan City
101. Karang Asem Regency
102. Palangkaraya City
103. Mataram City

Source: KLHK, 2023



# Progress Report on Submission of Waste Reduction Planning Document



## Content of a Waste Reduction Planning Document by Producers:

1. Identity of Producer
2. Profile of Producer
3. Plan of Waste Reduction by Producer:
  - a. Person in Charge
  - b. Baseline of Waste Generation
  - c. Determination of Waste Reduction Methods
  - d. Determination of Target and Time of Achievement
  - e. Implementation Plan of Communication, Information & Education
  - f. Pilot Project Plan for Waste Reduction

No	Criteria	Manufacture	Retail	Food&Beverages Service	Number of Producer
1	Producers have COMPLETELY inputted Planning Documents through the Application	10	1	-	11
2	Producers Have submitted Planning Documents via electronic documents	23	8	-	31
3	Producers have an application account in the process of inputting planning documents	42	6	4	52
<b>Total</b>		<b>75</b>	<b>15</b>	<b>4</b>	<b>94</b>
4	Producers who have obtained an Application Account	122	124	68	314





# Implementation Progress Report MoEF Regulation P.75/2019

**42**

Producers Have Submitted  
Planning for Waste  
Reduction Documents

**120**

The producer is compiling  
a Waste Reduction  
Planning Document  
through the Application

**16**

Producers who are already  
at the Implementation and  
Trial stage of MoEF  
Regulation P.75/2019

1. PT. Ajinomoto Indonesia
2. PT. Bina Karya Prima
3. PT. Coca-Cola Bottling Indonesia
4. PT. Heinz ABC Indonesia
5. PT. Lion Superindo
6. PT. L'Oreal Indonesia
7. PT. Nestle Indonesia
8. PT. Nutrifood Indonesia
9. PT. Oasis Water Internasional
10. PT. Protec & Gamble Operation Indonesia
11. PT. Softex Indoensia
12. The Body Shop Indonesia
13. PT. Tirta Fresindo Jaya
14. PT. Tirta Investama
15. PT. Unilever Indonesia
16. PT. Yakult Indonesia Persada





# MoEF Regulation P.75/2019 as Legal Framework and Technical Framework for Implementing Circular Economy in Indonesia







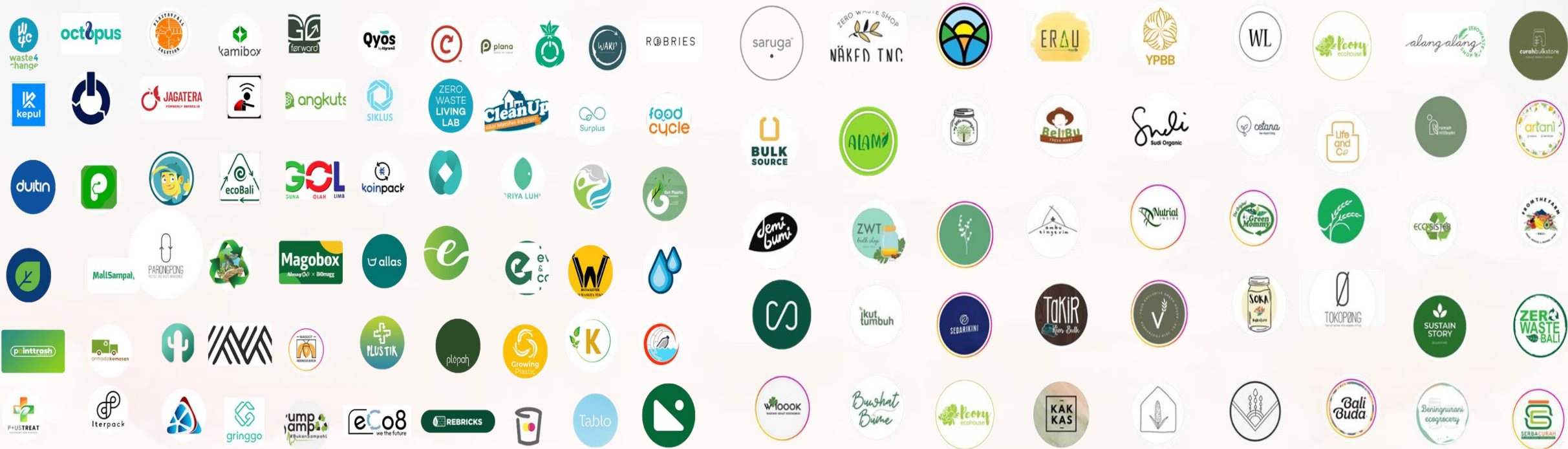
# Project Pilot from Several Producers Concerning the Implementation of MoEF regulation P.75/2019







# MoEF Regulation P.75/2019 & Business Opportunity SOCIO-ENTREPRENEUR in Solid Waste Management



- In the last three years of the implementation of MoEF Regulation P.75/2019, as of Mei 2023, there are around **209** Socioentrepreneurs engaged in waste reduction and handling in Indonesia in various business models that promote Zerowaste lifestyle, including the bulk store business, refill business, reuse business, waste collector, and upcycling business also businesses that focus on innovative alternative products to replace plastic.
- **This Socioentrepreneurs are strategic partners for Producers in the implementation of waste reduction.**





# Prioritized Criteria of Target Producers (2020 – 2029)



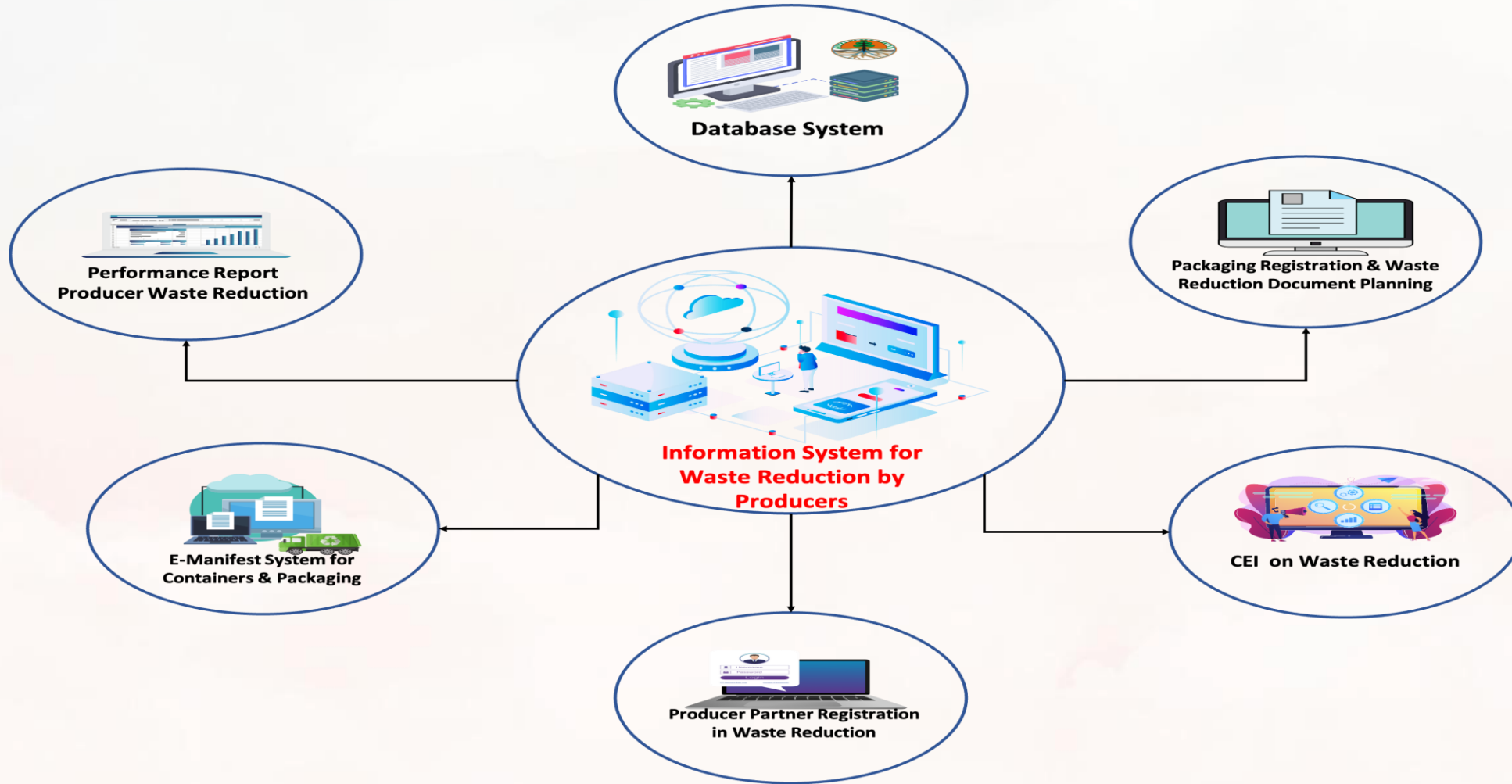
Manufactures Sector	Food & Beverages Sector			Retail Sector		
	Hotel	Restaurant & Cafe	Catering services	Modern Shop	Shopping Center	Traditional Market
<ul style="list-style-type: none"> <li>Multinational Company</li> <li>National Company</li> <li>Group Company</li> <li>Public Company</li> <li>Most Consumed Products</li> <li>Most Packaging Waste (Brand Audit)</li> </ul>	<ul style="list-style-type: none"> <li>International Chain Hotel</li> <li>National Chain Hotel</li> <li>PHRI Member</li> <li>5 Star Hotel</li> <li>4 Star Hotel</li> <li>CHSE certief hotel - Ministry of Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Multinational Company restaurant &amp; Cafe</li> <li>Multinational Company restaurant &amp; Cafe</li> <li>Group Company</li> <li>Most popular restaurants and cafes</li> <li>The most popular food and beverage products</li> <li>Most number of restaurant outlets</li> <li>Most number of franchises</li> </ul>	<ul style="list-style-type: none"> <li>Catering services that handle international MICE activities</li> <li>Catering services that handle national-scale MICE activities</li> </ul>	<ul style="list-style-type: none"> <li>Multinational Company</li> <li>National Company</li> <li>Group Company</li> <li>Public Company</li> <li>Modern Stores with the most number of outlets</li> <li>APRINDO Member</li> </ul>	<ul style="list-style-type: none"> <li>Multinational Company</li> <li>National Company</li> <li>Group Company</li> <li>Public Company</li> <li>APPBI Member</li> <li>Shopping Center</li> </ul>	<ul style="list-style-type: none"> <li>Local governments that have regulations on single-use plastic restrictions</li> <li>Markets that have or are conducting plastic bag reduction trials</li> <li>APPSI Member</li> </ul>







# DEVELOPMENT OF AN INFORMATION SYSTEM FOR WASTE REDUCTION BY PRODUCERS





**LEAD BY EXAMPLE!**

Less Waste, More (Fun)tastic  
START SMALL, START FROM YOURSELF, START FROM NOW ON



Thank You

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