

Session 1: KOREA-ASEAN cooperation to solving plastic problems (Aug 4, Thur 10:00-12:00)

# Current efforts on plastic waste reduction and recycling in Thailand

2022 Jeju Plus International Environment Forum Theme: Plastics and Biodiversity



## Hello!

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- Background information
- Plastic waste management in Thailand
- Best Practices: public private partnership, awareness raising, behavior changes
- Challenges and Opportunities
- Next step forward

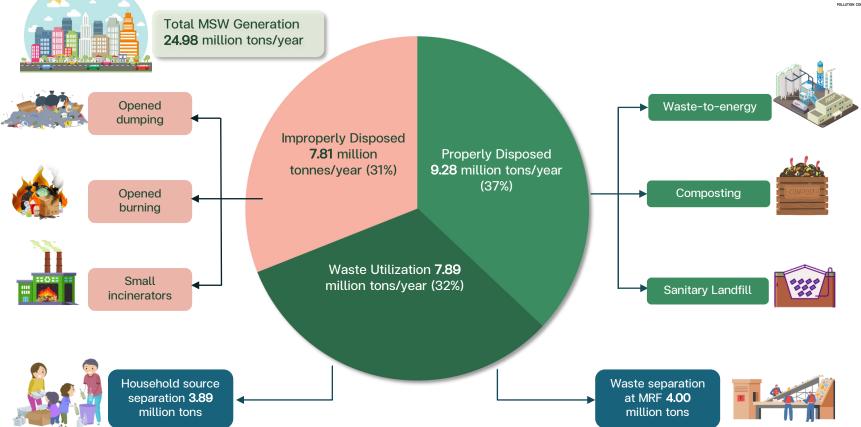


## Background Information

- MSW Management Status
- Waste Composition
- MSW Management Timeline

#### MSW Management Status in Thailand (2021)

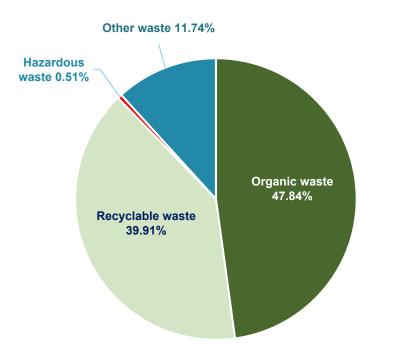




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#### Waste Composition





#### Organic waste

- food waste 38.76%
- yard waste 9.08%

#### **Recyclable waste**

- glass 3.95%
- paper 6.27%
- plastic 28.13%
- metal & aluminium 1.56%

#### Hazardous waste

- household hazardous waste 0.23%
- E-waste 0.28%

#### Other waste

- textile 3.04%
- diaper 3.66%
- wood 1.19%
- tyre & leather 1.32%

#### **MSW Management Timeline**









## Plastic Waste Management in Thailand

- Status of plastic waste in Thailand
- Policies and plans on plastic waste management (Roadmap, Action plan)

#### Status of plastic waste management in Thailand





Average plastic waste Recover
 0.5 million tons/year



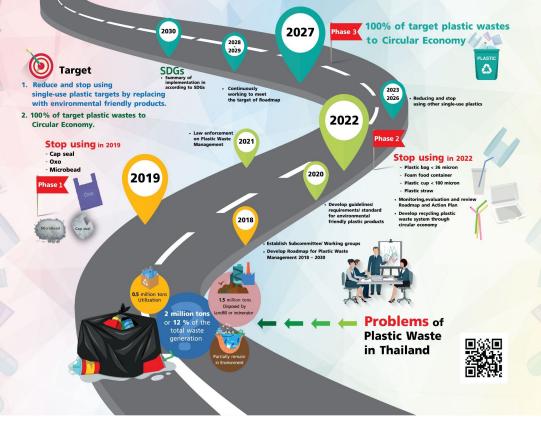


- The rest of plastic waste 1.5 million tons/year are mostly single-use plastics (SUP), such as plastic bags, plastic cup, plastic straws, plastic boxes, polystyrene foam foodcontainers
- disposed of by sannitary landfill or incinerator
- partially accumulate in dumped sites

## Thailand's Roadmap



#### on Plastic Waste Management 2018 – 2030



#### Roadmap on Plastic waste management



#### Principle of the Roadmap

- Life Cycle Approach
- 3R Principle (Reduce Reuse Recycle)
- Public Private Partnership
- Concept of Circular Economy
- Responsible consumption and production

#### Timeline of the roadmap divided into three phases

- The first phase in 2019 is stop using cap seal, Oxo-degradable plastics and micro beads
- The second phase in 2022 is stop using foam food containers, plastic straws, plastic bags thicker than 36 micron and plastic cup thicker less than 100 micron
- The third phase focus mainly on recycling targeted plastic wastes by 100% by the year 2027 to serve circular economy concept

#### Action Plan on Plastic waste management Phase I (2020 - 2022)

Vision: Moving Towards Sustainable Plastic Management by Circular Economy

#### กรมควบคุมมลพิษ ควมบาง control Department

#### Target of the Action Plan



#### **Measures:**

- 1. Reduction of plastic waste at sources
  - Reducing single-use plastics, Eco-Design of packaging, use alternatives to replace single-use plastics
- 2. Reduction the use of single-use plastic at consumption process
  - Cooperate among stakeholders to reduce single-use plastics, set rules /regulations /procedures in preventing marine littering
- 3. Post-consumption plastic waste management
  - Issued rules and regulations for waste separation according to the 3R principle by the local government, Capacity building informal sector and waste buyer, Develop and promote the Circular Economy

#### Driven mechanism:

National Environmental Board, Sub-committee on Plastic Waste Management, Working Group of Stakeholders, Public Private Partnership

#### (Draft) Action Plan on Plastic waste management Phase II (2023 - 2027)



#### Target of the Action Plan

- 1. Reduce plastic waste to Landfill
- 2. Recycling targeted plastic waste by 100% by the year 2027
- 3. Reduce the amount of plastic waste in the sea at least 50% by the year 2027
- 4. Plastic waste management tools are introduced in the Action Plan
  - EPR scheme
  - plastic product standards
  - plastic database
  - · standard and plastic scrap characteristics
  - post-consumer plastic pellet
  - digital platform of recycling
  - related guideline
  - etc.

#### Measures:

- 1. Producing Environmentally friendly Product
- grouping and identifying plastic product considered by collection and recyclability rate
- · compulsory standard for plastic products
- assign symbols for plastic products (recycling/ disposed of/ easier for people to sorting)
- use post-consumer recycled (PCR) as raw material
- promote incentives
- applied EPR scheme on packaging
- develop laws and regulations on Circular Economy
- 2. Reduction the use of single-use plastic at consumption process
- Extend the campaign "Everyday say No to plastic bag" in supermarkets, department stores, convenience stores and local markets
- Reduce plastic packaging in food delivery business
- Promote reuse, refill, to reduce plastic waste
- Promote Green Procurement
- 3. Post-consumption plastic waste management
- Issue local ordinances on source separation
- Determine waste types according to the final disposal (waste to energy, compostable, etc.)
- Develop recycling hub, logistic for recycling
- 4. Sea-based management
- Set collection system
- Develop marking gear system



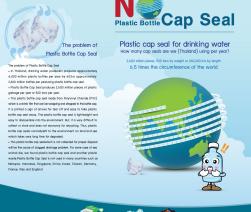


## Best practices: public private parnership, awareness raising, behavior changes

- Cooperation among stakeholders
- Reduction of single-use plastic in food delivery
- Awareness and education programs

#### **Cooperation among stakeholders**







- Cooperate with five major drinking water producers

to stop using plastic capseal for drinking water bottles

1 2551 After that we wan't probably see Plastic Bottle Cop Sea The next step, we will extend the No Plastic Bottle Cap Sec compariso to the other members of Disking Protuces Bur (small drinking water producers). It is expected to cover th

Time frame

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. The first step, five major water producerssuch asSingha, Cryste Chang, Elephants, Nestle Pure Life and Carabao started the No Plastic Rottle Cap Seal campaign. Then They will stop to produce





- Food and Drug Administration issue the Notification of the Ministry of Public Health to prescribing the characteristics of cosmetics that prohibit to manufacture or import cosmetics containing plastic microbeads since 1st January 2020



 Cooperate with departments, supermarkets, convenience stores, to stop using plastic bag since 1<sup>st</sup> January 2020

since 1<sup>st</sup> April 2018

#### **Reduction of single-use plastic in food delivery**







#### Cooperation among stakeholders

- Food delivery platform
- Comsumers
- Government (Central, local)





#### **Awareness raising and Education Programs**



#### Thailand National Parks ban single-use plastics

m 6 April, 2022, all single-use plastic and Styrofoam items; such as, plastic bags which are ess than 36 microns thick, plastic food containers, plastic glasses, plastic spoons and forks, and stic straws are not allowed in national parks







#### 2.53 million officers behavior changed

- Reduce plastic bags and polystyrene foam food containers in the governmental offices and also develop the KPI to reducing SUP for policy makers
- Campaign the reduction of plastic bags in local markets/ supermarkets
- Ban plastic bags and polystyrene ٠ foam containers in National Parks/ **Zoological Centers**





#### Plastic reduction in the governmental offices







## Challenges and Opportunities



#### Challenges

- **Government policy:** Strong framework of policy, strategy, regulartory to achieve ambition on plastic waste management.
- Management: Plastic waste mismanagement.
- Incentives: Economic incentives to promote positive behaviour.
  Disincentives to deter certain behaviour and includes practices such a charges for plastic bags or disposal taxes for certain items
- People behavior: Information and outreach need to educate people regarding the proper use of plastics and should be responsible to reduce and reuse plastic products, and to dispose of these properl.

#### **Opportunities**

- Circular Economy Concept: Shift country toward circular economy is opportunities for future investments to address plastic pollution and other related impacts.
- Public Private Partnership (PPP): Solution cannot be accessed in isolation. It must be considered in the context of whole plastic value chain.
- Informal sector: A vital role in waste management in Thailand.
  It should be integrate informal sector to the policy.
- **Global issues:** The new international legally binding instrument on plastic pollution.



## Next Step Forward





#### Next step forward:

- Study and draft the laws and regulations on packaging waste management (CE, EPR)
- Put in place the EPR scheme on packaging waste management (voluntary and mandatory)
- Determine waste types according to the final disposal (emphasis the household source separation of waste)
- Setting environmentally friendly product standards/ guidelines (high, low recycling/ compostable/ post-consumer recycled, and related matter)
- Driving the measures under the Action Plan on Plastic Waste Management phase I and II
- Establish policies and plans according to the new international legally binding instrument on plastic pollution





## Thank you very much for your attention !!

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