

THAILAND

Round Table Discussion on Plastics Industry

Overview: Strategic Development and Solutions for Single-Use Plastics and Pollution Control

Asian Plastics Industry Sustainability Development Conference

31 October 2024 at JINLING RIVERSIDE HOTEL, NANJING, CHINA





Kongsak Dokbua

Executive Vice-President, Plastics
Institute of Thailand



Thailand's

Plastics Waste Management Policy and Collaboration

Action Plans

related to waste and plastic waste management

National Action Plan on Waste Management (2022 - 2027)

Measure 1 Waste Management at Source

- Eco Design
- Extended Producer Responsibility. (EPR)
- Behavior and lifestyle changed
- Encourages people to separate waste at sources

Measure 2 Increase efficiency on waste disposal system

- Promote and upgrade waste disposal sites
- Encourage the private sector to invest in waste management
- Strict control on waste disposal operations including industrial waste disposal operations
- Determine guidelines for new emerging waste management

Measure 3 Development of Waste Management tools

- Development of related laws promoting circular economy, especially EPR law.
- Driving legislation on management of electronic waste.
- Encourage all local governments to issue local ordinances for segregation at sources.
- R&D to support waste management

Action Plan on Plastic Waste Management phase II (2023 - 2027)

Measure 1 Production of environmentally friendly products

- Grouping and defining types of plastic products for properly recycling
- Setting up standards
- Supporting manufacturers
- R&D/Enact Law and Regulation

Measure 2 Reduction the use of single-use plastic at consumption process

- Shopping malls, convenience stores
- Restaurant and cafe
- Local market
- Government office
- Consumers

Measure 3 Post-consumption plastic waste management

- Establishing waste separation and collection system based on final treatment

Measure 4 Marine litter management

- Land-based and sea-based activities

Target 1

Reduce and stop using single - use plastic targets by replacing with environmental friendly products

Target 2

100% of target plastic waste to Circular Economy

- Adopted "Bangkok 3R Declaration towards Prevention of Plastic Waste Pollution through 3R and Circular Economy"
- Adopted "Bangkok 3R Declaration on Combating Marine Debris in Asean Region"
- Develop plastic waste recycling system through circular economy

Stop using in 2019

- Cap seal
- Oxo
- Microbead



Phase 1

2019

0.5 million tons utilization

2 million tons or 12 % of the total waste generation

1.5 million tons disposed by landfill or incinerator

Partially remain in Environment

SDGs

- Summary of implementation in according to SDGs
- Continuously working to meet the target of Roadmap
- Law enforcement on plastic waste management

2018

- Establish Subcommittee/Working groups
- Develop Roadmap for Plastic Waste Management 2018 – 2030



2020

- Develop guidelines/ requirements/ standard for environmental friendly plastic products

2022

Phase 2

Stop using in 2022

- Plastic bag < 36 micron
- Foam food container
- Plastic cup < 100 micron
- Plastic straw
- Monitoring, evaluation and review Roadmap and Action Plan
- Develop recycling plastic waste system through circular economy

2021

2027

Phase 3

100% of target plastic wastes will be recycled by applying Circular Economy Principle



2023
2026

- Reducing and stop using other single-use plastics

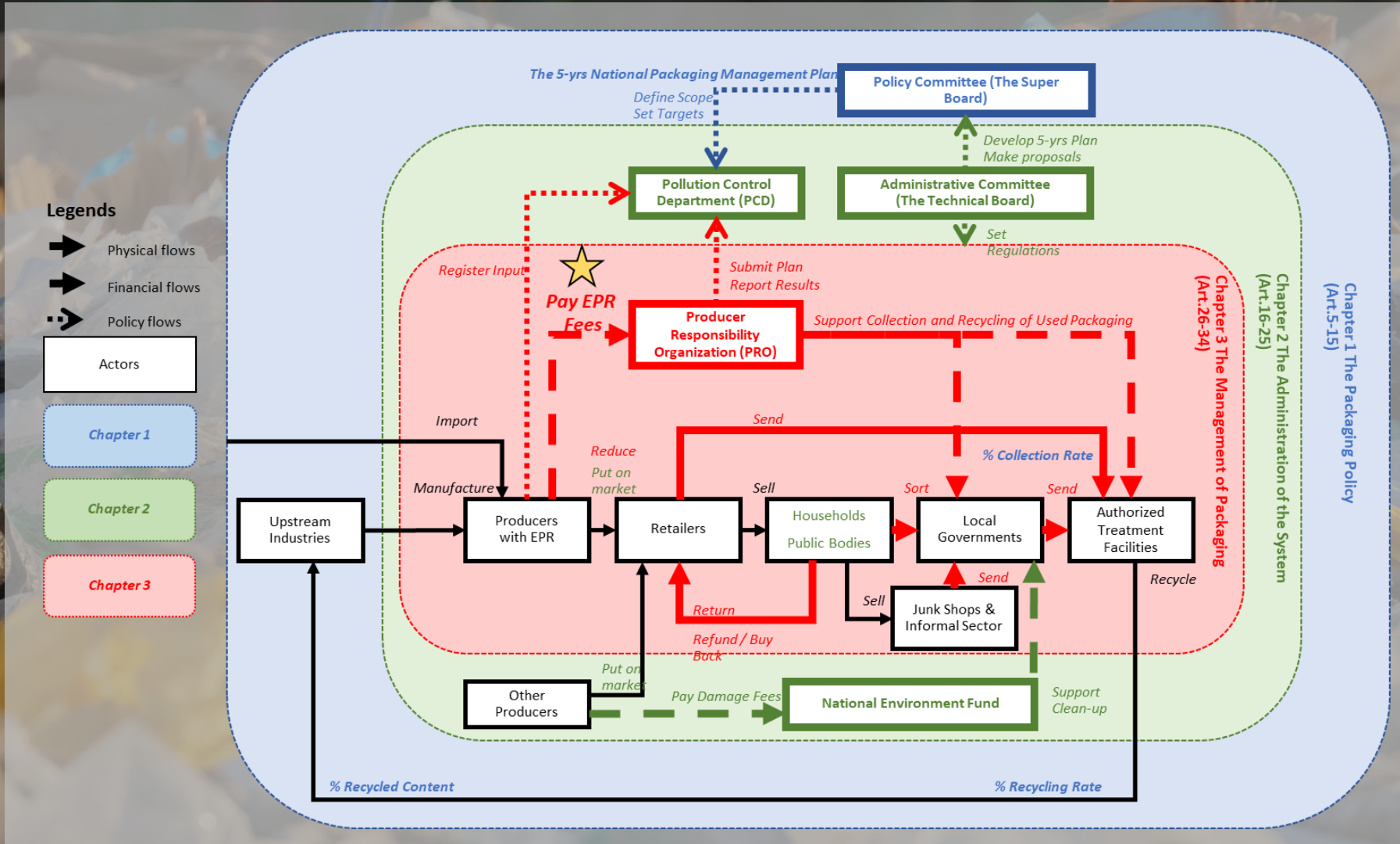
2030

2028
2029

Problems of Plastic Waste in Thailand



Flow Diagram of Packaging Management under Draft of Sustainable Packaging Management Act, B.E.



Obligation

- Data Structure
- Data Provider
- Informal Sector

PCR Standard



Certification of PCR resin in raw materials or products

Scope

- Raw Material: PCR Resin Pellet
- Plastics Products: PCR content
- Mechanical Recycle only not included chemical Recycle
- Exclude PIR

Overview of Building Plastic Circularity Ecosystems



6. Policy

Related policies

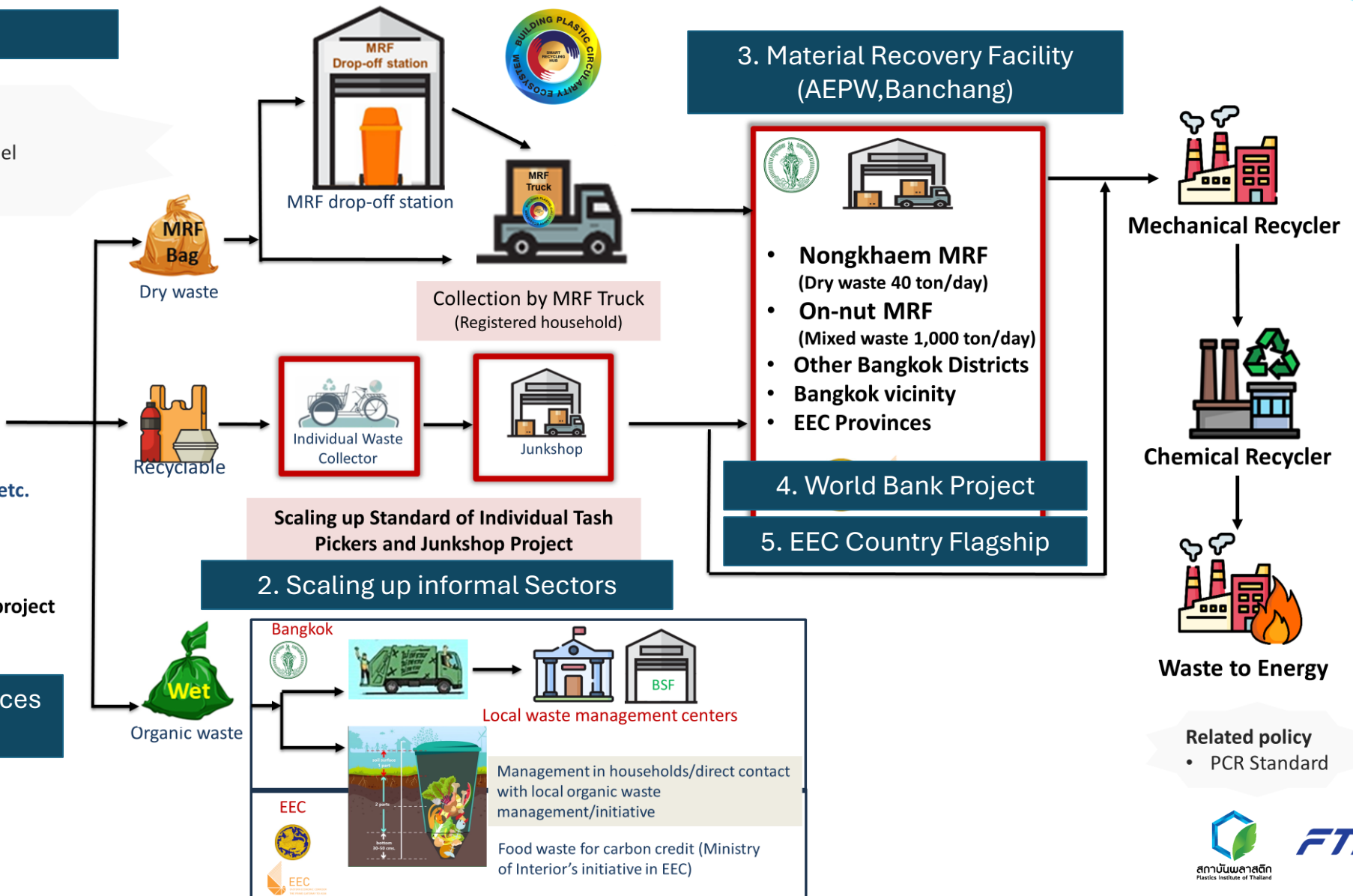
- Roadmap on Plastic Waste Management
- National Agenda on BCG Model (Circular Economy)
- EPR Policy
- Eco-design Policy



Household/building/mall/school, etc.

- Bangkok household waste segregation program
- Related waste segregation project by partners

1. Waste Segregation at the sources (PCD, BMA, MOI)





Private Sectors Collaboration

องค์กรภาคธุรกิจในฐานะองค์กรสมาชิก PPP Plastics และเครือข่าย
ร่วมกับ "Building Ecosystem for Plastic Circularity"



Waste Management Model

- Khlong Toei Model
- Rayong Model
- Pathumwan Model
- Magic hand project

Data and Information Support

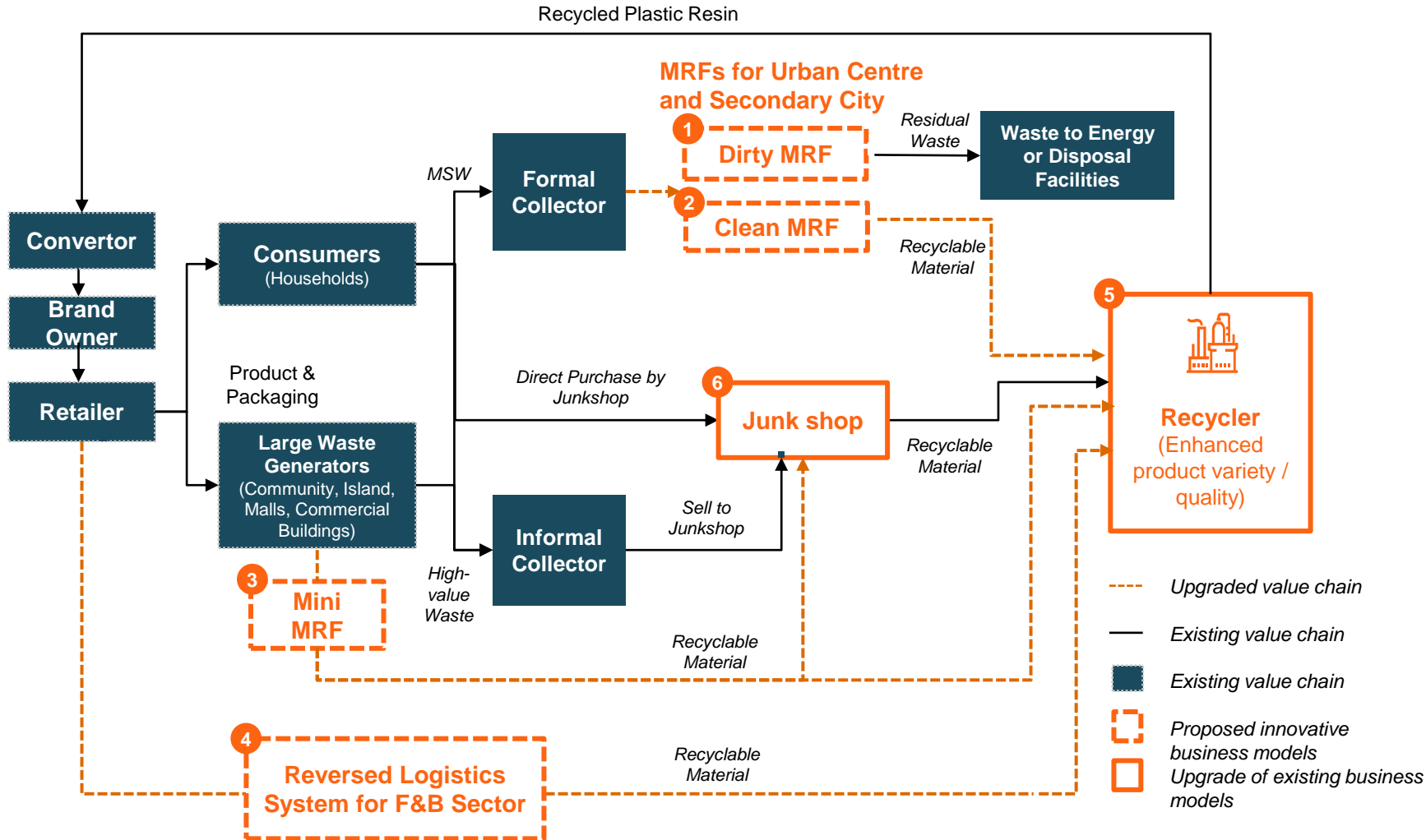
- Plastics Waste Database
- Circular Economy Curriculum
- Knowledge Sharing

Infrastructure

- BMA Waste Management
Plastics Road Project

Flagship Project: Thailand Smart Recycling Hub

To optimize plastic waste recovery and upgrade the recycled plastic value chain, the potentials for new innovative business models along the value chain have been identified



Potential Innovative Business Models in the Value Chain

- 1 Dirty MRFs for Urban Centre and Secondary City.** LAOs could establish MRFs to increase sorting rate after waste is collected to recover recyclable materials that are still mixed in MSW.
- 2 Clean MRFs for Urban Centre.** LAOs could implement dry waste sorting and establish MRFs for clean waste to recover materials efficiently.
- 3 Mini MRF at source.** Another business model is to establish Mini MRF at shopping mall or big area of waste generator to recover recyclable materials at source before collected by LAOs.
- 4 Reversed logistics for F&B sector.** A potential business model in the F&B industry involves implementing a reverse logistics system in cooperation with retailers to enhance sorting activities.
- 5 Upgraded recyclers.** it is necessary to upgrade the entire ecosystem of plastic recycling including recycler who produce recycled plastic resin.
- 6 Upgraded junk shops.** Junk shops could be upgraded to use proper systems that can connect the informal and formal sectors together.

THANK YOU

Plastics Institute of Thailand

Tel. +66 2391 5340 – 43

Email: info@thaiplastics.org



สถาบันพลาสติก
Plastics Institute of Thailand