

THAILAND COUNTRY REPORT

20th Term ASEAN Federation of Plastic Industries & 33rd Asia Plastics Forum



Thailand's Plastics Industry Situation:

Plastics Industry Economic Contribution and Manufacturing Situation

Thailand Plastics Industry Profile 2021

- 2021 MANUFACTURERS PROFILE -

PLASTICS MANUFACTURER
3,262* COMPANIES

*SURVEY FROM PLASTICS INTELLIGENCE UNIT

88% are SMEs

80% LOCATED IN CENTRAL

65% are PLASTICS CONVERTOR
(2,255 FACTORIES)

Rank 1
52% are PACKAGING COMPANIES
(1,318 COMPANIES)

Rank 2
12% are HOUSEWARES COMPANIES
(314 COMPANIES)

Rank 3
9% are CONSTRUCTION COMPANIES
(222 COMPANIES)

27% is OTHER CONVERTOR
(691 FACTORIES)
(AUTO PART, E&E, MEDICAL, SPORT TOOLS, e.g.)

Source: PLASTICS INTELLIGENCE UNIT

- 2021 PRODUCTION & CONVERSION -

2.0 RESIN IMPORTATION
MILLION TONS

9.5 RESIN PRODUCTION
MILLION TONS

5.9 RESIN CONSUMPTION
MILLION TONS

83% COMMODITY REINS

17% SPECIALTY REINS

884 CONVERSION VALUE
BILLION BAHT

SOURCE: PETROLEUM INSTITUTE OF THAILAND

- 2022 TRADING STATUS -

Plastics Resin HS Code: 3901 -3915 | Plastics Product HS Code: 3916 -3926

RESIN

194 RESIN IMPORT
BILLION BAHT

368 RESIN EXPORT
BILLION BAHT

PRODUCT

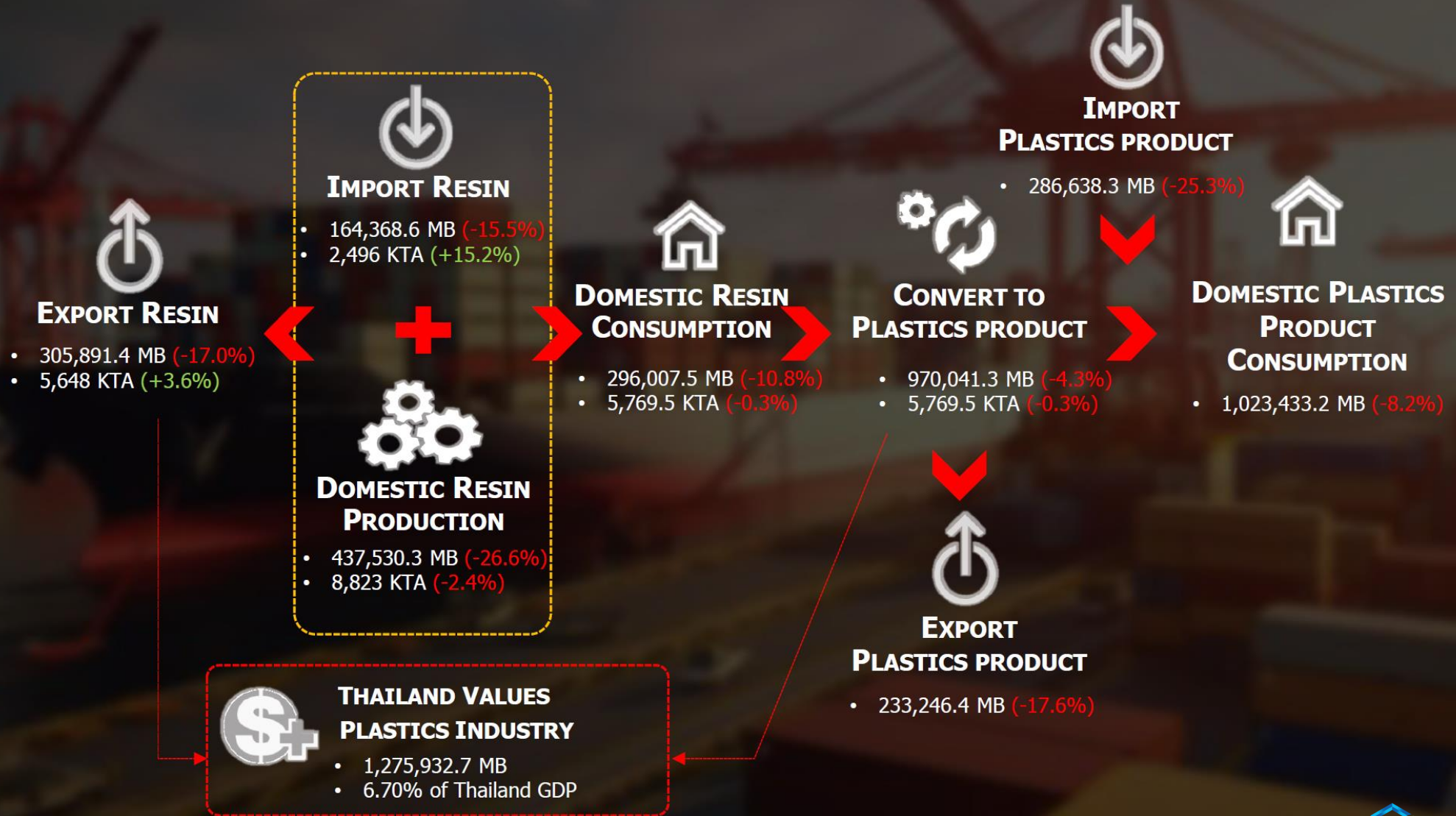
187 PRODUCT IMPORT
BILLION BAHT

158 PRODUCT EXPORT
BILLION BAHT

SOURCE: THAI CUSTOM

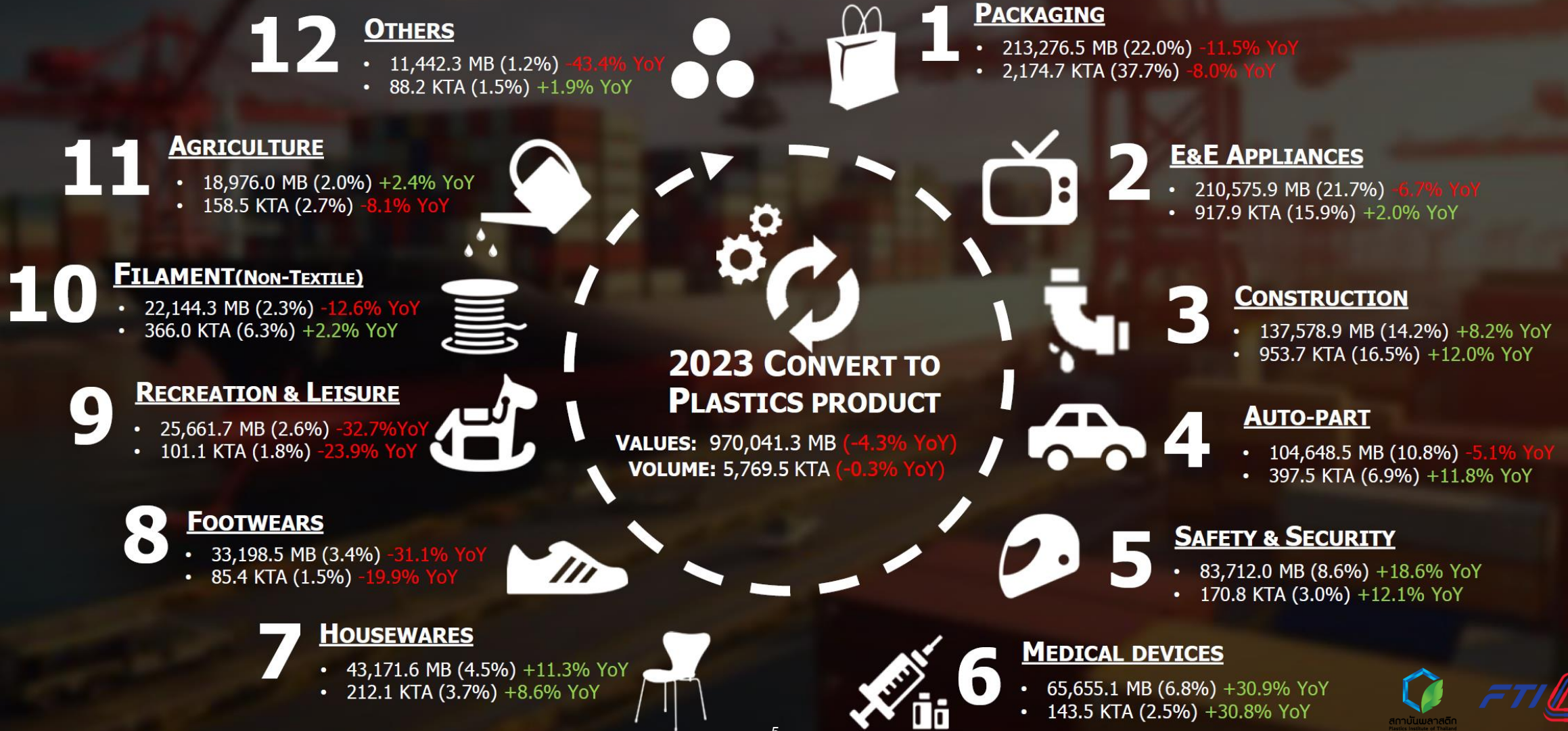
Value Shanking Along Value Chain

With Global Economic Decrease, Regional Demand Subdue that Limiting Thailand Plastics Export



Domestics Conversion Value also Decline

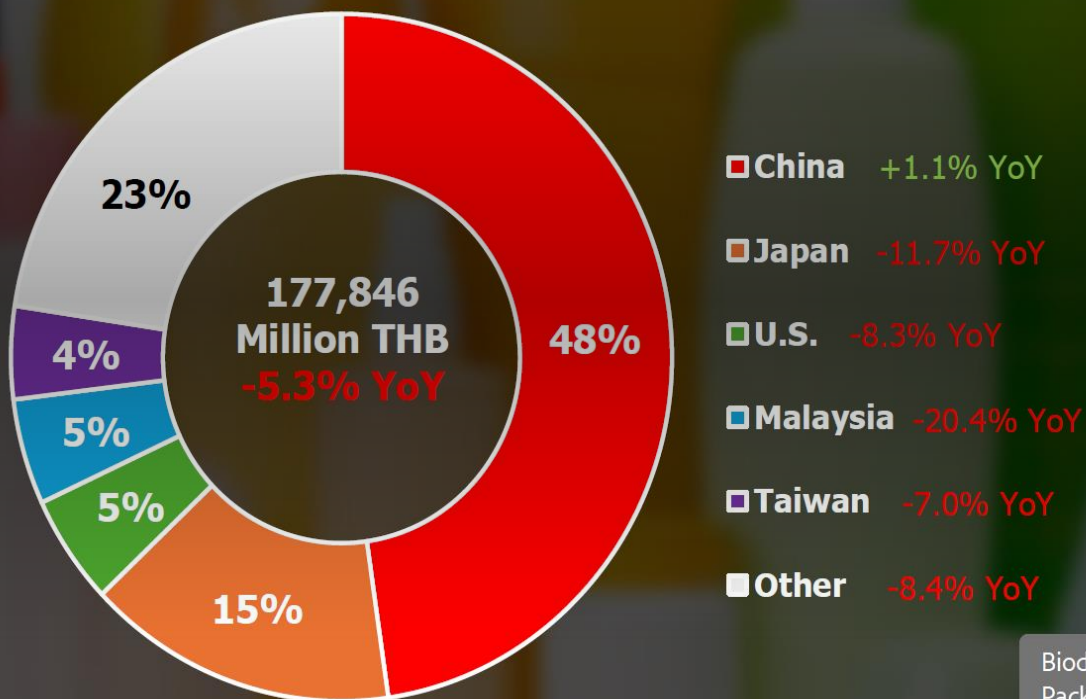
Sluggish of Consumer Demand to Drag Packaging Conversion Value as well as the Slowdown in Domestics Production of E&E Appliances and Automotive Sectors to Pressure Overall Conversion Value in 2023, Construction Sector still Growing with Private Investment



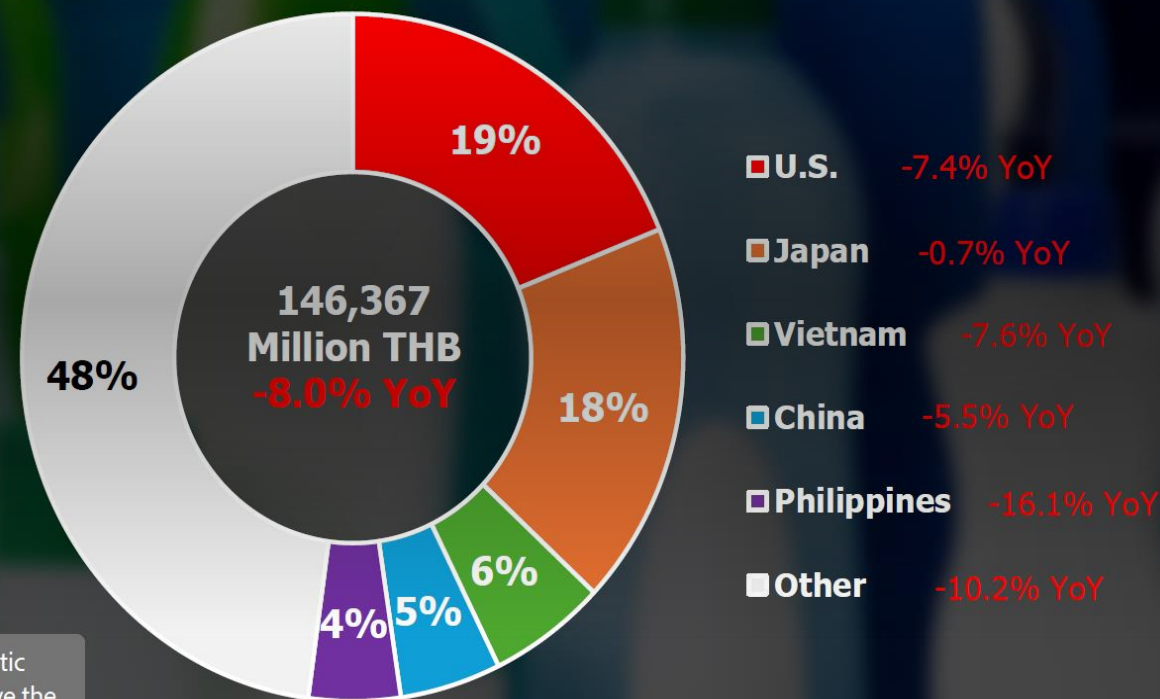
Import from China Growing Contrary to the Others

Mostly Shrinking in All Market Partner in Plastics Products due to Economic Circumstances but China Import Plastics Product still Growing by FDI in E&E and Automotive Sectors to Support EV Investment in Thailand

2023 Thailand's Plastic Product **Import**



2023 Thailand's Plastic Product **Export**



Biodegradable[®] Plastic Packaging Won't Save the Beauty Industry | Allure



—

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



SDGs

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

2030

2028
2029

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

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

2020

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

2021

2018

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



2019

0.5 million tons utilization

2 million tons or 12 % of the total waste generation

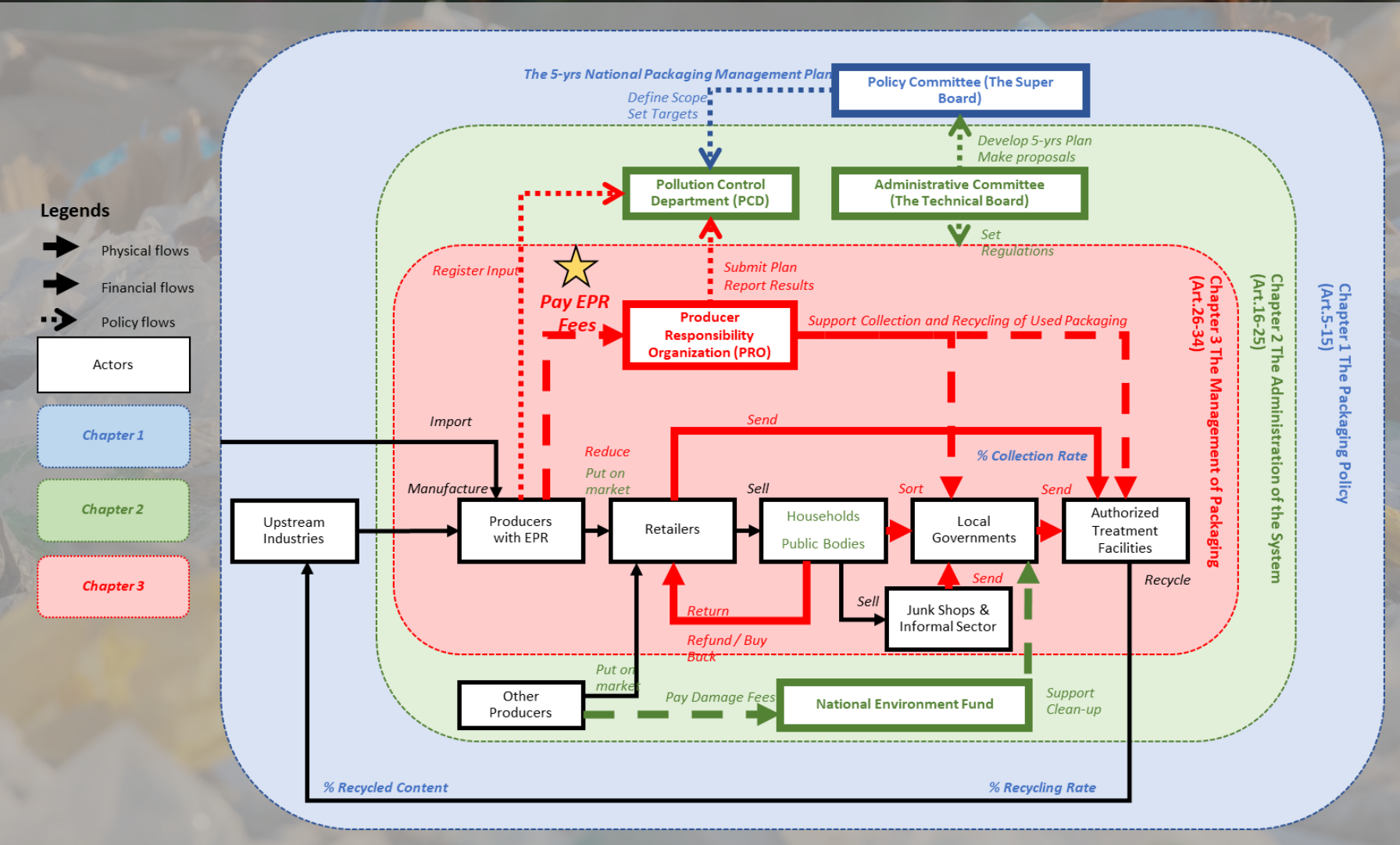
1.5 million tons disposed by landfill or incinerator

Partially remain in Environment

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



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

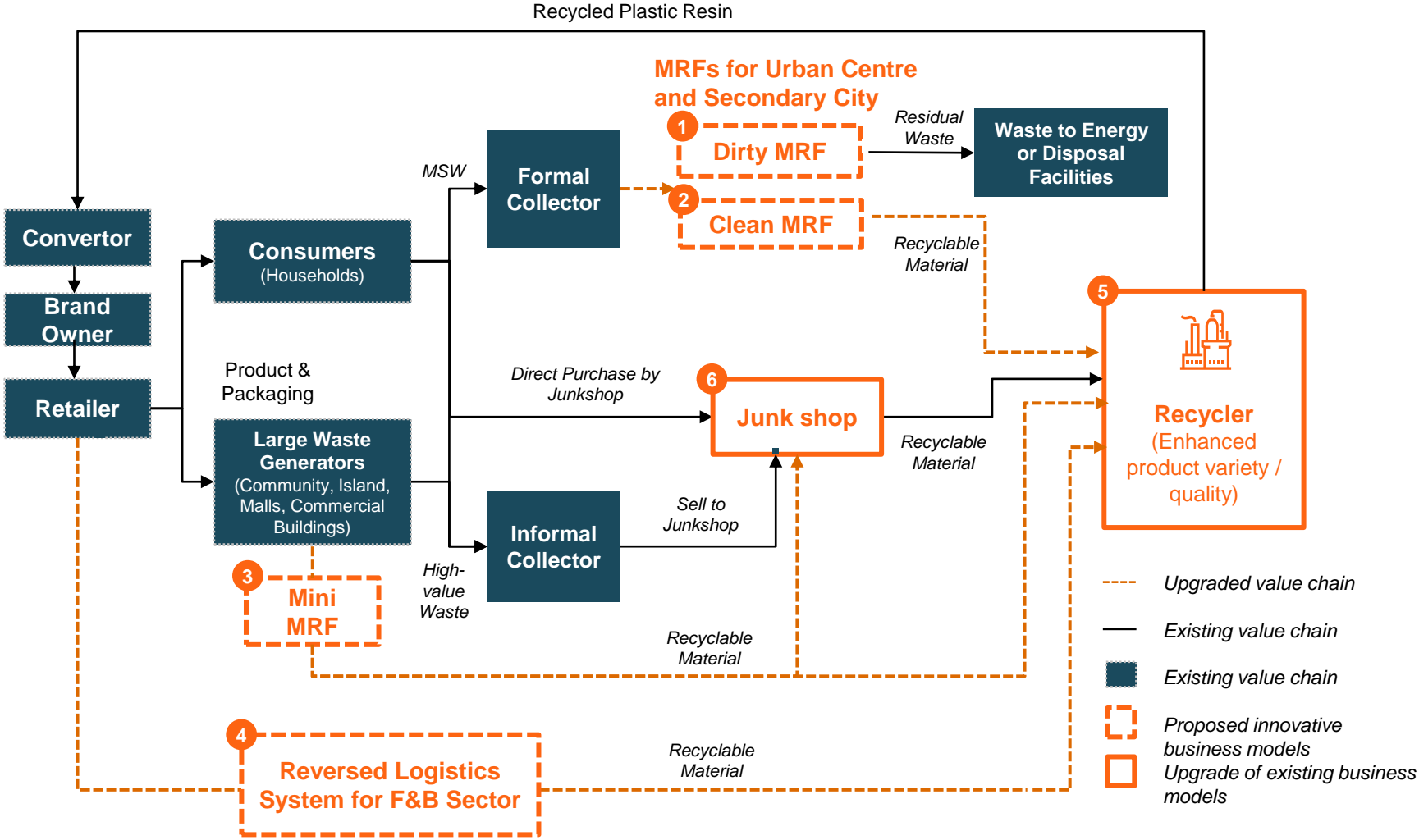
- Plastics Waste Database
- Circular Economy Curriculum
- Knowledge Sharing

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
- 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.
 - Clean MRFs for Urban Centre.** LAOs could implement dry waste sorting and establish MRFs for clean waste to recover materials efficiently.
 - 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.
 - 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.
 - Upgraded recyclers.** it is necessary to upgrade the entire ecosystem of plastic recycling including recycler who produce recycled plastic resin.
 - 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. 02 391 5340 – 43

Email: info@thaiplastics.org



สถาบันพลาสติก
Plastics Institute of Thailand