

# WEEE Management Policy Update from Thailand

Taweechai (Chai) Jiaranaikhajorn

Pollution Control Department

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# Outline

- Introduction
- Overview of E-Waste Situation
- Status of Policy Implementation or Development
- Current Status of WEEE Management
- Lessons Learned and Future Goals
- Questions for Discussion

# Introduction

# Introduction (I)



## Pollution Control Department

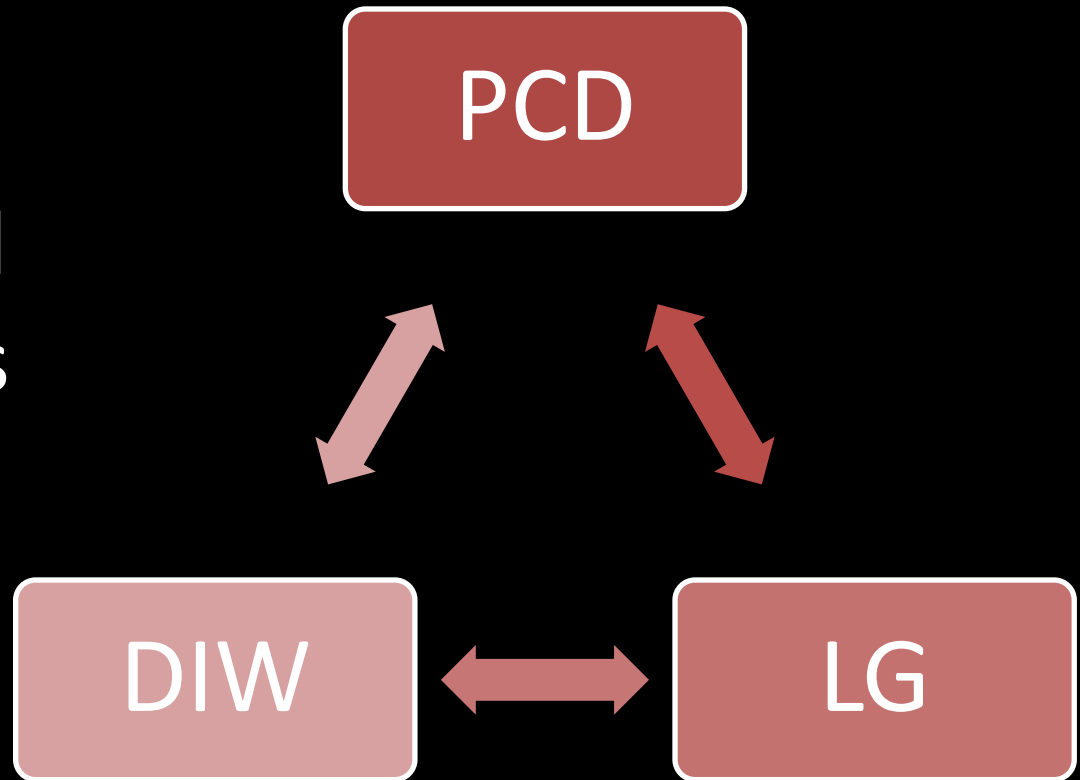
- Submit opinions for the formulation of national policy and plans;
- Develop environmental quality management plans and measures;
- Develop appropriate systems/ methodologies/technologies for waste management
- Provide assistance/advice on waste management

## Duties

<http://www.pcd.go.th/indexEng.cfm>

# Introduction (II)

Governmental  
Collaborations



PCD : Pollution Control Department  
DIW: Department of industrial Works  
LG: Local Governments

# Overview

# Current Situation (I)

- Sources:
  - Industries (Off-spec products/Scraps from manufacturing)
  - Household/Commercial/Services (Discarded/broken electrical and electronic appliance)
  - Import (Illegal import)

# Current Situation (II)

- Quantities

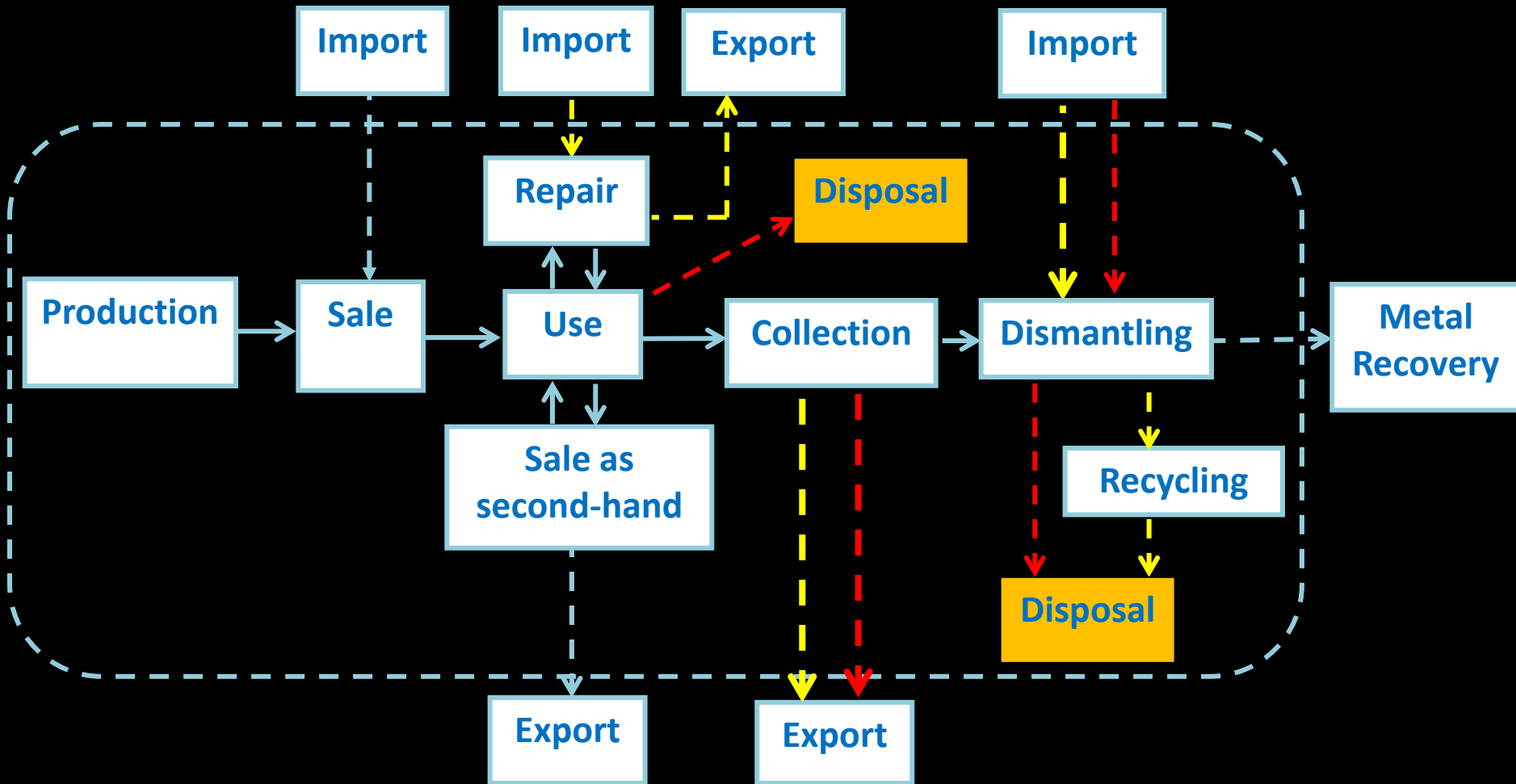
- ~ 342,000 tons or more than 15 million units of e-waste were expected in 2011 (PCD, 2011)
- ~ 41 formal e-waste recycling/dismantling facilities (PCD, 2011)
- ~ 9,000 junk shops in Thailand (PCD, 2010)
- No data available for informal waste collectors
- E-waste management
  - Formal
  - Informal



# E-waste inventory

| Product type        | Waste generation 1,000 units in year |       |        |        |        |
|---------------------|--------------------------------------|-------|--------|--------|--------|
|                     | 2014                                 | 2015  | 2016   | 2017   | 2018   |
| TV                  | 1,835                                | 2,034 | 2,218  | 2,375  | 2,499  |
| Digital camera      | 616                                  | 788   | 979    | 1,183  | 1,393  |
| VDO camcorder       | 120                                  | 131   | 144    | 158    | 172    |
| Media player        | 583                                  | 668   | 749    | 825    | 891    |
| printer             | 1,365                                | 1,504 | 1,633  | 1,748  | 1,849  |
| Mobile phone        | 8,405                                | 9,237 | 10,005 | 10,697 | 11,305 |
| Ref. PCD 2010<br>PC | 1,53                                 | 1,737 | 1,944  | 2,157  | 2,37   |

# Current Situation of WEEE Flow



— — ➤ Formal flow/regulated

- - ➤ Informal flow/environmental impacts

# General Data

- Recyclers
  - About 30 dismantlers
  - About 50 crusher
  - Limited metal recovery



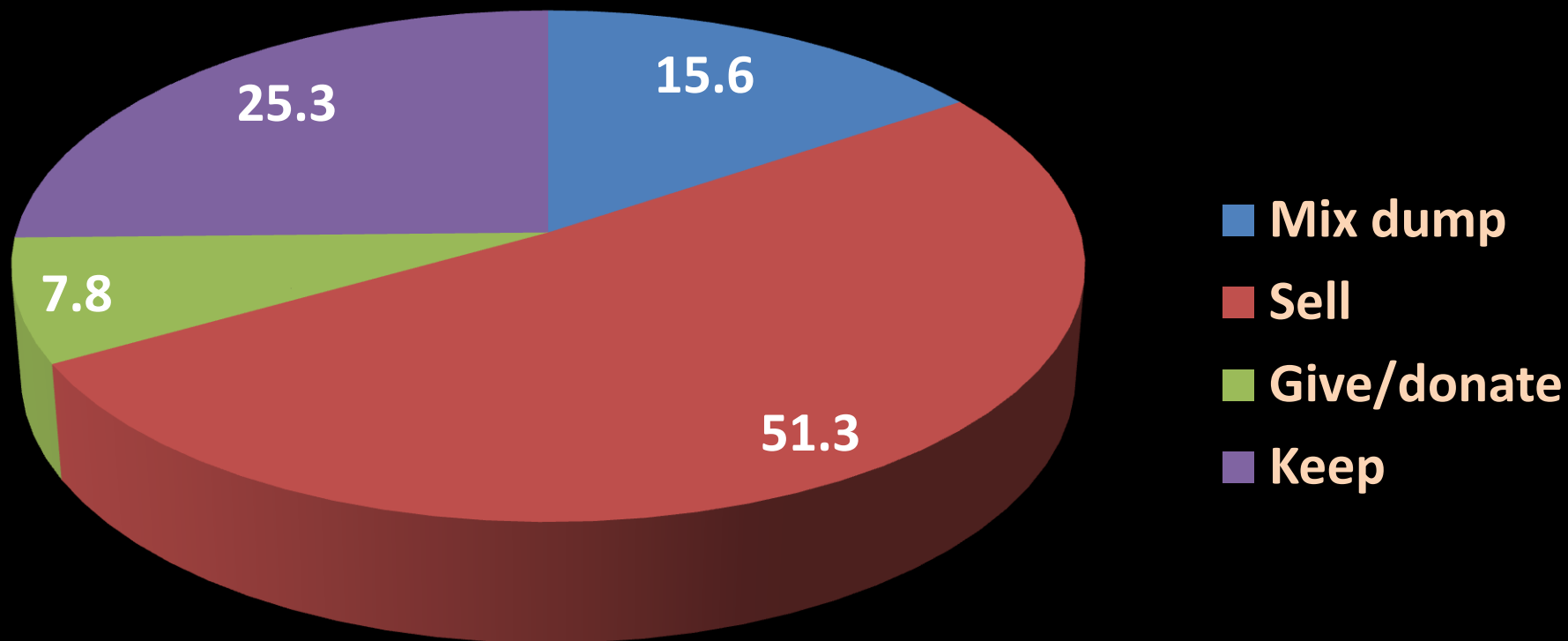
Wongpanit



Toshiba lighting



# Pathway of e-waste from household



# Mishandling of E-waste



# Impacts from End-of-Life phase

- Current practice



Photo by PCD



Greenpeace Thailand

Photo by Patarapol Tularak





# Impacts from End-of-Life phase



Photo by  
PCD



**What if these are your company's products?**





# Impacts from End-of-Life phase



Photo by CU

# Impacts from End-of-Life phase



Photo by CU



Collected from around the country





Transport to other province -> other country









**Reward for informal waste processor**

# WEEE Strategy



# (draft) National Integrated E-waste Management Strategy Phase II: 2012-2016

- Objectives:
  - To establish e-waste collection system;
  - To promote EcoDesign;
  - To promote environmentally sound dismantling and recycling facility;
  - To raise awareness among the public;
  - To protect the country from being a dump site.

# (draft) National Integrated WEEE Management Strategy Phase II: 2012-2016

## **Strategy 1:** Strengthening of import/export control

Key measure:

- Registration of e-product importer
- Promote import of standard-complied product
- Monitor impacts from FTA /AEC/MEA

## **Strategy 2:** Promotion of eco-friendly e-products with the focus on public procurement

Key measure:

- Promote testing and certification of eco-product
- Propose a policy on e-product rental

## **Strategy 3:** Development of E-waste database

Key measure:

- Develop data collection and reporting system

# (draft) National Integrated WEEE Management Strategy Phase II: 2012-2016

**Strategy 4:** Development of e-waste segregation, collection, storage and transport for local government

Key measure:

- Capacity building for local government
- Formulate laws on product fee and/or EPR

**Strategy 5:** Upgrade of dismantling and recycling facility

Key measure:

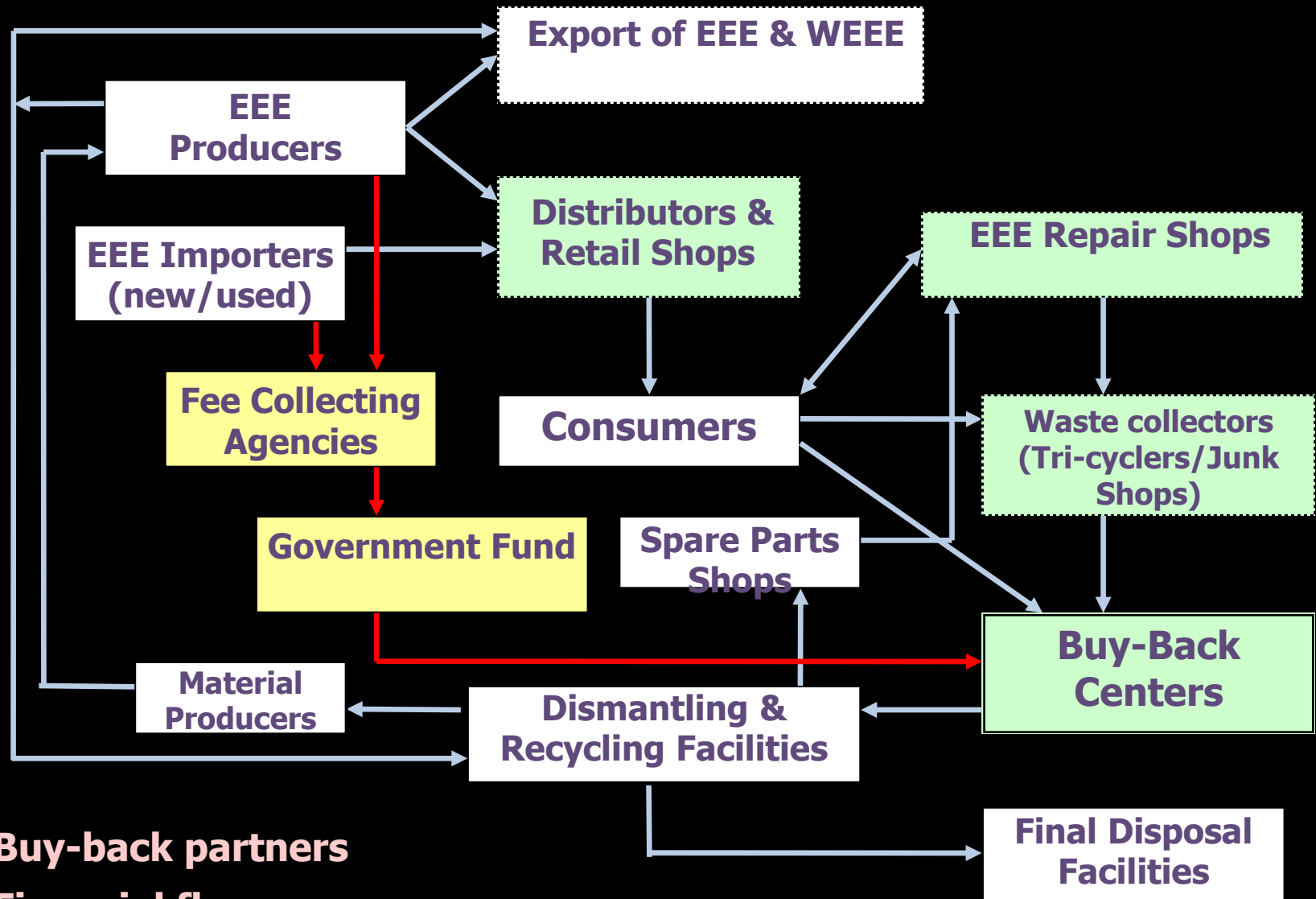
- Support R&D in recycling technology
- Support investment in environmentally sound recycling

**Strategy 6:** Promotion of public awareness on e-waste

Key measure:

- Disseminate e-waste knowledge through formal and informal education

# Proposed WEEE Management System





- **Draft Act on *Fiscal Measures for Environmental Management* [Fiscal Policy Office]**

- combine all the economic instruments including pollution tax, emission charge, product fee and insurance bond under one law

- Product fee is one of the tools proposed by FPO

- The Draft Act allows products to be charged a certain fee for the management of end-of-life products

- Details of the types of products to be regulated and the fee rates will be elaborated in a Royal Decree and Ministerial Notification (by PCD)

## 2 possible policy options under considerations

- Formulate a new law (Act) by MNRE (PCD)
  - keeping the idea of product fee
  - Establish a new fund to support buy-back, collection, transportation, recycling and disposal
- Formulate a new law similar to Extended Producers' Responsibility (EPR)
  - setting collection and recycling target for producers to comply with.
  - No government fund, private sectors manage their own collection and recycling system

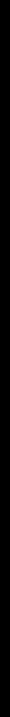
# Projects/Activities related to E-waste Management

# WEEE CAN DO Road show





# WEEE CAN DO Road show



# Projects/Activities to be done

- National Single Window
- Registration of e-products producer/importer
- Training on Transboundary Movement Control
- Expand the type of products to be included in the public procurement criteria
- Support green product – tax reduction, award, green purchasing awareness
- Product standard/certification

# Projects/Activities to be done

- Law on Product Fee or EPR
  - Data reporting
  - Requirement for take back, storage facility
  - Requirement for Environmentally Sound facility
- Capacity building for local governments
- Increase communication channels: product catalogue, instruction manual, pamphlet, social media, old media
- Pilot project with private and public sectors to collect, transport, dismantle, recycle and dispose



# Thank you

For questions

Email: [Taweechai.j@pcd.go.th](mailto:Taweechai.j@pcd.go.th)