



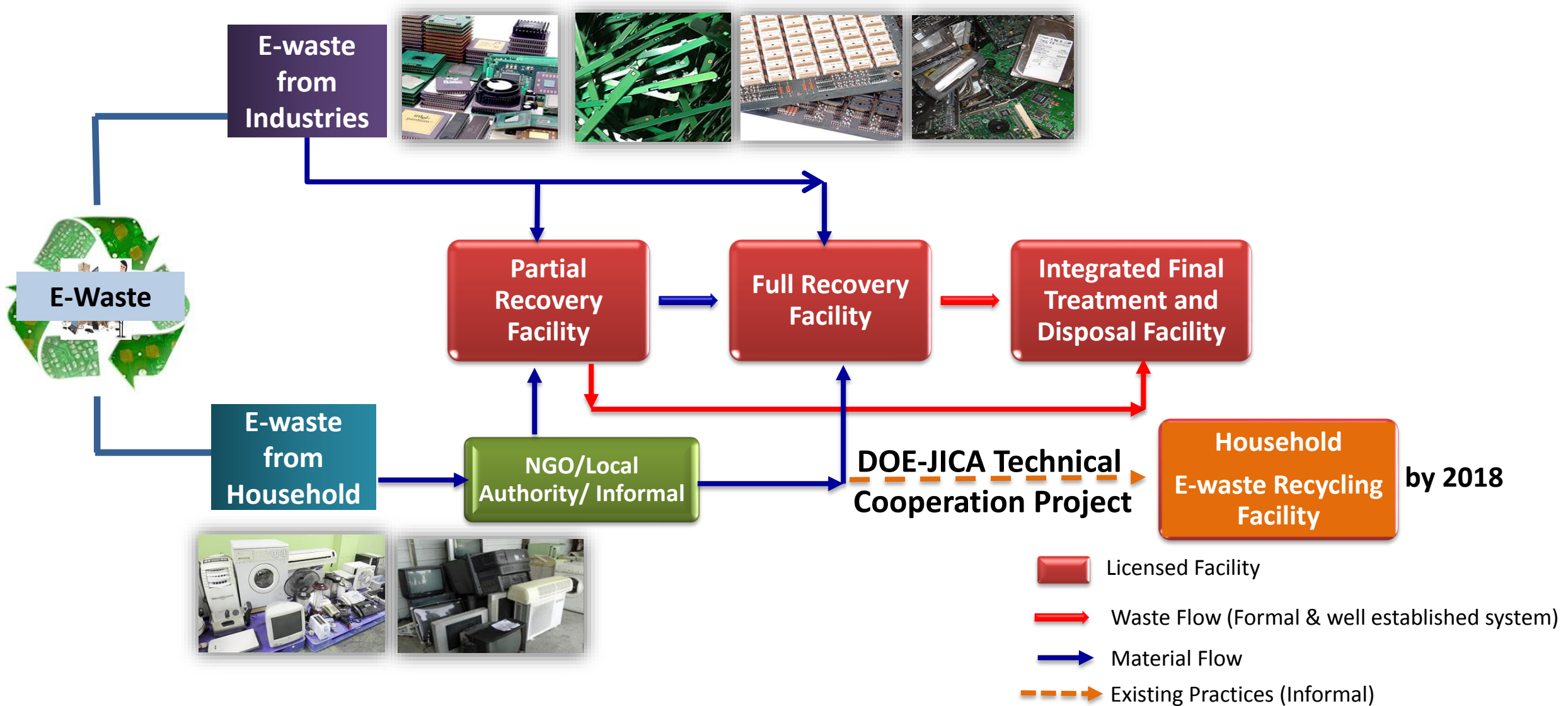
NEW MECHANISM OF HOUSEHOLD E-WASTE MANAGEMENT IN MALAYSIA



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NEW LIFE

Nor Azah Masrom
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OVERVIEW OF EXISTING E-WASTES MANAGEMENT IN MALAYSIA



THE DOE- JICA TECHNICAL COOPERATION :

The Project for Development of Mechanism for Household E-waste Management in Malaysia



Overall Goal

Sustainable collection and environmentally sound recycling of household E-waste is implemented.

Project Purpose

To prepare the mechanism such as legal structure, organization, system for sustainable collection and environmentally sound recycling of household E-waste.



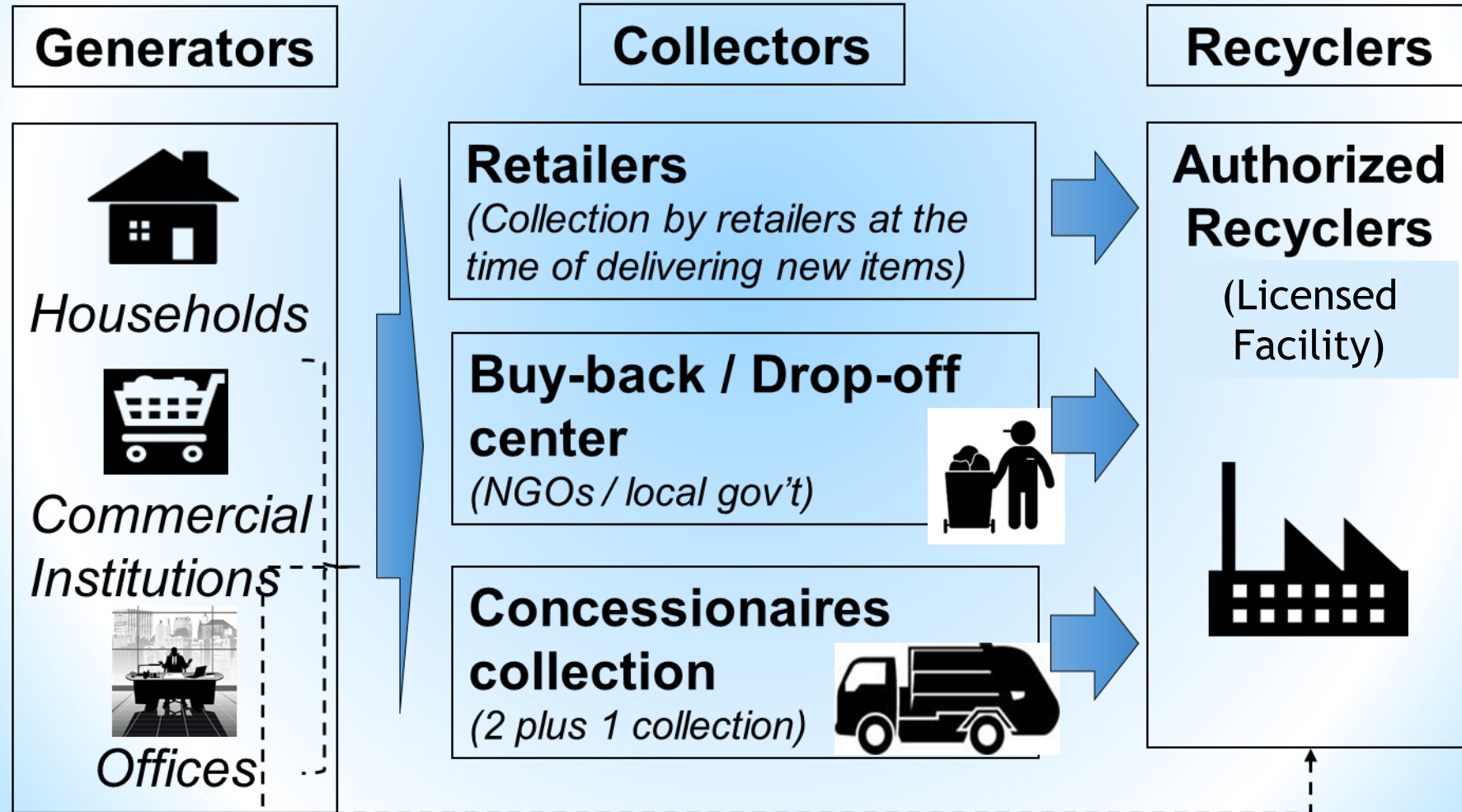
“Household E-waste” means electrical and electronic waste that comes from household, commercial, institutional and other sources which because of its nature is similar to that from households.

Targeted household
E-waste (6 items)



New Mechanism for Household E-waste Management

The Key Components



ENVIRONMENTAL QUALITY ACT 1974

1. The legal basis of charging the “recycling fee” to the E-appliance manufacturers and importers

Section 36D(b)

Fee can be charged under the name of “contribution” at a rate specified by the Minister.

2. Application of the Fund

Section 36E(a) and Section 36E(b)

The Fund needs to be utilized for specific purposes provided by the relevant regulation.



Fee Flow

**Manufacturers
and Importers**



- Local manufactured
- Imported

*Recycling Fee paid at the time of
introducing products put on the Malaysian market*



Fund Management Board
(Public-Private Initiative)

Management /
Administration



Subsidy for E-waste
Recycling



Awareness,
Education, R&D



Collection Services

STAKEHOLDERS RESPONSIBILITY

- E-waste Management Mechanism in Malaysia is designed with “**shared-responsibility**” concept.
- All the stakeholders of E-wastes management including manufacturers/importers, retailers, consumers, collectors, recyclers, have their own responsibility.
- Manufacturers/importers takes only economic responsibility regarding the collection and recycling.



RESPONSIBILITY OF DOE



- ❖ Establish the legal framework and mechanism for household E-waste management
- ❖ Evaluating and promulgating the lists of regulated items and setting the related administrative regulations.
- ❖ Registering the manufacturers/importers, authorize the collectors and licensing the recyclers.



HOUSEHOLD SCHEDULED WASTES REGULATIONS 201X

Manufacturers
and Importers



Responsibility:

- Be registered with Department of Environment (DOE)
- To pay **recycling fee** according to their **put-on-market** volume of their E-appliances.
- Provide information to the DOE on:
 - i) how to **dismantle** their products at the end of life
 - ii) the **location** of any hazardous substances or items within the products.



HOUSEHOLD SCHEDULED WASTES REGULATIONS 201X

Consumers



Responsibility:

- To ensure that E-wastes generated are channeled only to the authorized collection centre(s), collectors, retailers or licensed E-waste recycling facilities.

Authorized Retailers



Responsibility:

- Receive E-wastes from consumers when they are required.



HOUSEHOLD SCHEDULED WASTES REGULATIONS 201X



Authorized Collection
Centers / Collectors



Responsibility:

- To ensure that E-wastes collected are channeled only to the authorized transporters, collection centre(s) or licensed E-waste recycling facilities without dismantling or removing some parts.

Licensed Household E-waste
Recovery Facility



Responsibility:

- To recycle E-wastes in an environmentally sound manner (ESM) in accordance with the legal requirements.

DEVELOPING THE GUIDELINES

GUIDELINES	KEY CONTENTS
Collection Guidelines 1	<ul style="list-style-type: none">■ Roles and responsibilities of E-waste collectors and transporters■ Registration/license requirement and procedure■ E-waste handling/storage standards■ E-waste transportation/haulage standards
Recycling Guidelines 2	<ul style="list-style-type: none">■ Roles and responsibilities of recyclers■ Registration/license requirement and procedure■ Technical standards for E-waste recycling (by items)■ Facility/operation standards for E-waste recycling
Reporting Guidelines 3	<ul style="list-style-type: none">■ Reporting requirement of relevant stakeholders■ Contents of reporting by stakeholders■ E-waste manifest system■ Information disclosure to the general public



SCOPE OF PILOT PROJECTS

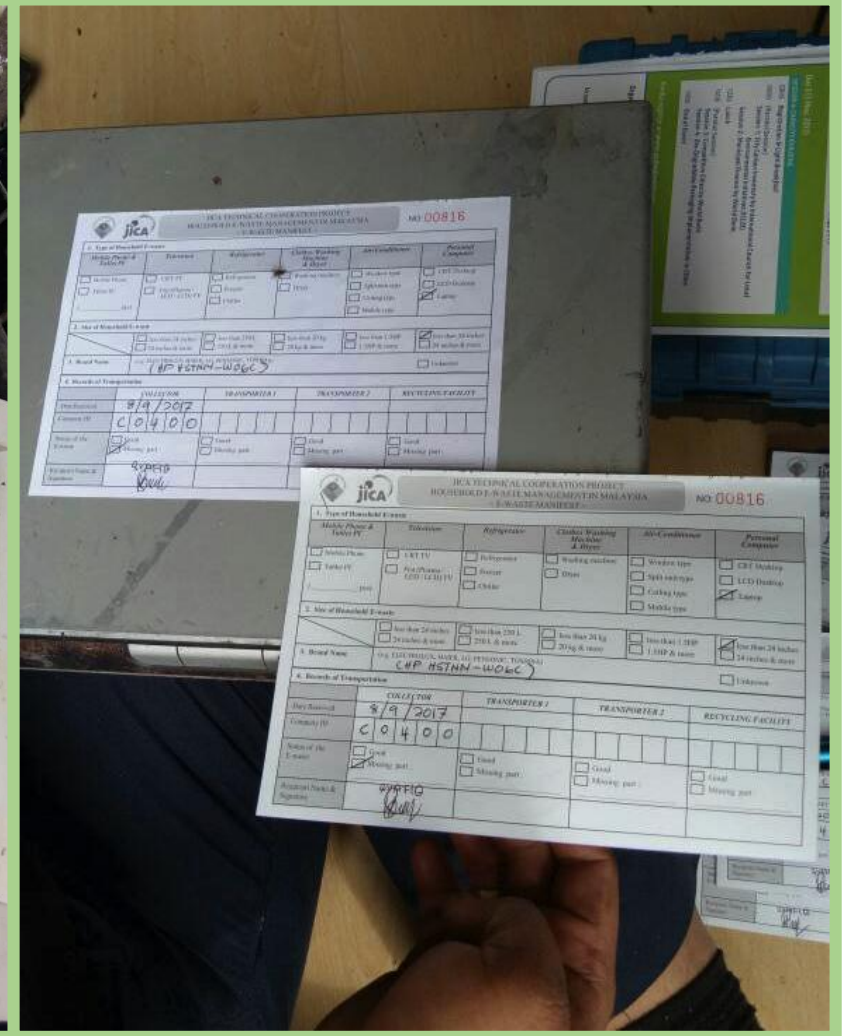
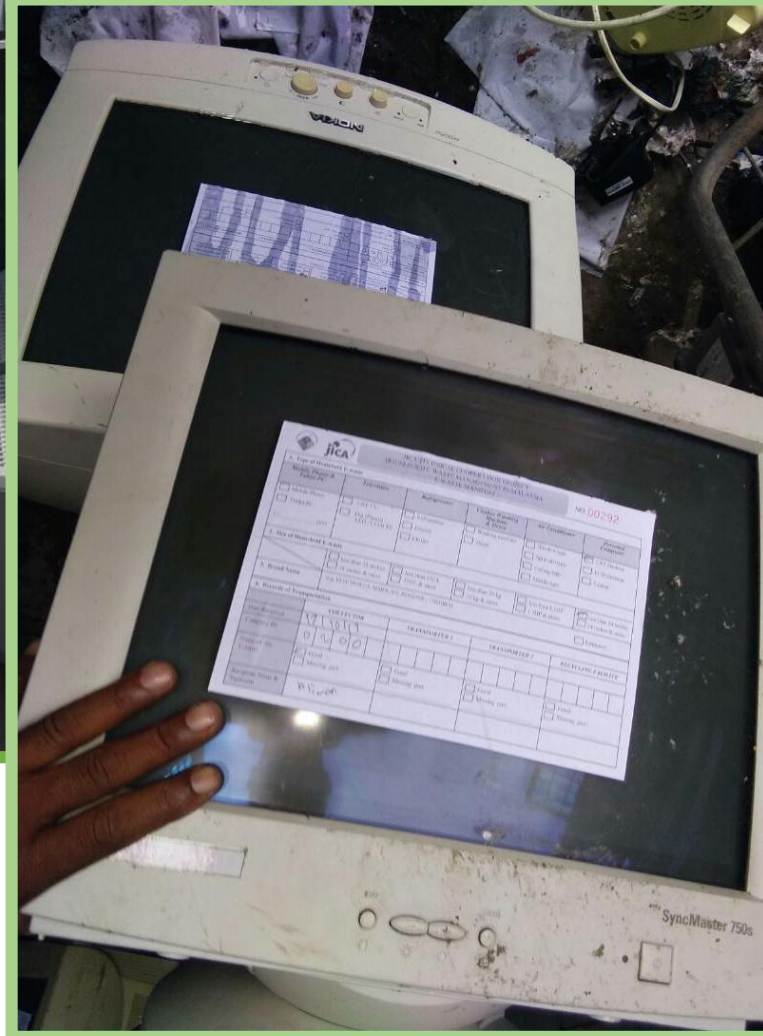
Pilot Project	Purposes
E-waste collection	<ul style="list-style-type: none">■ To test viability of collection guidelines<ul style="list-style-type: none">➤ No mixing of E-waste with other wastes➤ No dismantling of collected E-waste➤ Transfer of the E-waste to the designated recyclers➤ Reporting of the collection activities
E-waste reporting	<ul style="list-style-type: none">■ To test viability of reporting guidelines<ul style="list-style-type: none">➤ Pilot operation of E-waste manifest system➤ Pilot reporting by relevant stakeholders (collectors, transporters, recyclers)
E-waste recycling	<ul style="list-style-type: none">■ To conduct recycling test at the selected recycling premises<ul style="list-style-type: none">➤ To determine the handling rules of hazardous (focused) materials in E-waste➤ To determine the recycling rate targets by each E-waste item➤ To estimate the net recycling cost by each E-waste

PILOT PROJECT COLLECTION & REPORTING

Car Sticker & Banner on Transport Vehicles

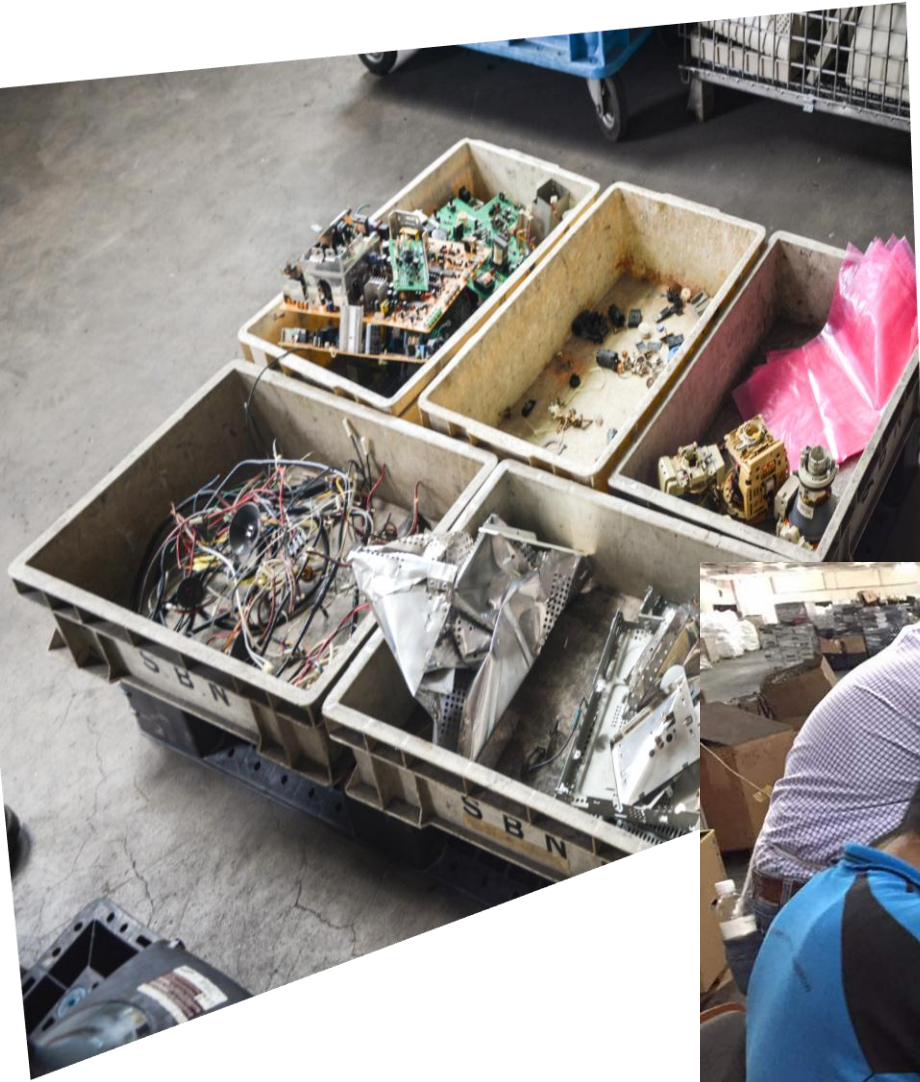


PILOT PROJECT COLLECTION & REPORTING



6-ply manifest system

PILOT PROJECT RECYCLING



JICA ADVISORY BOARD MEMBERS MISSION



Freon Gas Recovery



THE REGIONAL WORKSHOP ON HOUSEHOLD E-WASTE MANAGEMENT



APPRECIATION TO THE PILOT PROJECT PARTICIPANTS



WAY FORWARD

Establishment of household E-waste system in Malaysia by 2018

Environmental Sound Management of recycling for household E-waste to be established

The nation-wide awareness raising activities on household E-waste recycling

TerimaKasih.



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