

# Toward a Comprehensive ELV Management System in Thailand

25 February, 2026



**JICA Clean City Initiative  
International Seminar**



**Department of Industrial Works  
Mr. Pattara Chammana**







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# 01 Current Situation

Since 2000, vehicle sales in Thailand have increased steadily in line with economic growth, with approximately 800,000 to nearly 1 million new vehicles sold annually in the 2020s. While reusable components from End-of-Life vehicle (ELV) are traded as second-hand parts, hazardous waste such as CFC, waste oil and lithium batteries that does not enter a formal system, potentially causing negative environmental impact. In addition, there is no comprehensive monitoring system covering the process from dismantling to final disposal, making it difficult to verify how vehicle are ultimately treated.

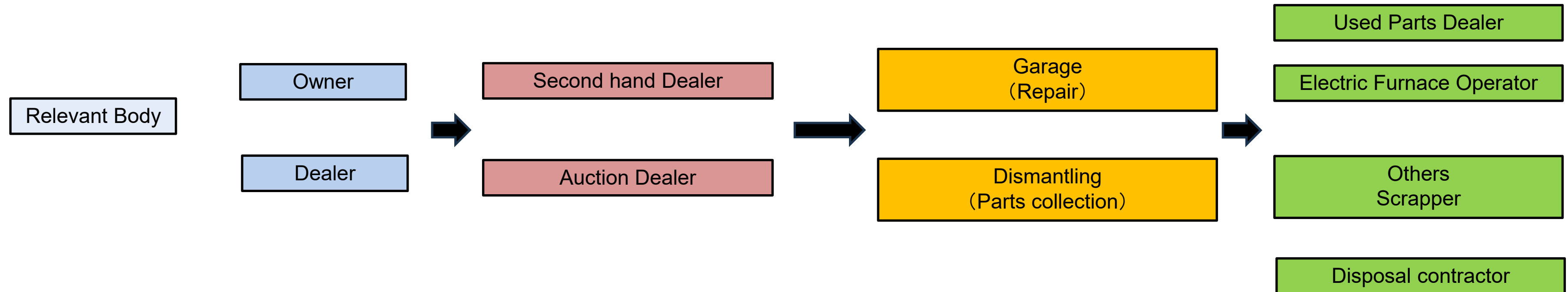


## What does Thailand lose if an ELV Management System is not implemented?





# 01 Current Situation



## Challenges

- Air pollution (PM2.5) and safety concern (inadequate vehicle registration and inspection systems, etc.) cased by the long-term use of old vehicles.
- Negative incentives for vehicle renewal due to regressive vehicle taxes.
- Limited incentives to purchase new vehicles.

- Lack of clarity in the definition of ELVs.
- Circulation of unroadworthy vehicles in the market due to inadequate registration procedures.
- Lack of a monitoring system for vendors and vehicle distribution.
- Lack of traceability of ELVs
- Lack of accurate data on ELV generation and collection.

- Environmental impacts cased by improper dismantling practices.
- Lack of a monitoring system for vendors and vehicle distribution.
- Lack of a financial mechanism to enable the recovery and utilization of low-value materials
- Lack of accurate data on recovery processes



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# 02 Scope of Policy Proposal



## Sub-Working Group with Department of Industrial Works

Discussion on systems and improvement measures after vehicle become ELVs (Dismantling, Recycling, Treatment, and Monitoring).



## Sub-Working Group with Department of Land Transport

Discussion on systems and improvement measures before vehicle become ELVs (Inspection, Registration/ Deregistration, Taxation, and Insurance).



## Sub-Working Group on Financial Mechanism

Discussion on the financial mechanism to promote appropriate ELV treatment and recycling.





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# 03 Goal, Objectives, and Outcomes

Project Purpose

Draft ELVs Management System and its implementation plan are formulated

Project Activities

Output 1: The project implementation structure is established with shared understanding on issues and the current status of ELVs Management.

Output 2: ELVs flow tracking mechanism is proposed

Output 3: ELVs collection mechanism is proposed

Output 4: ELVs recycling mechanism is proposed

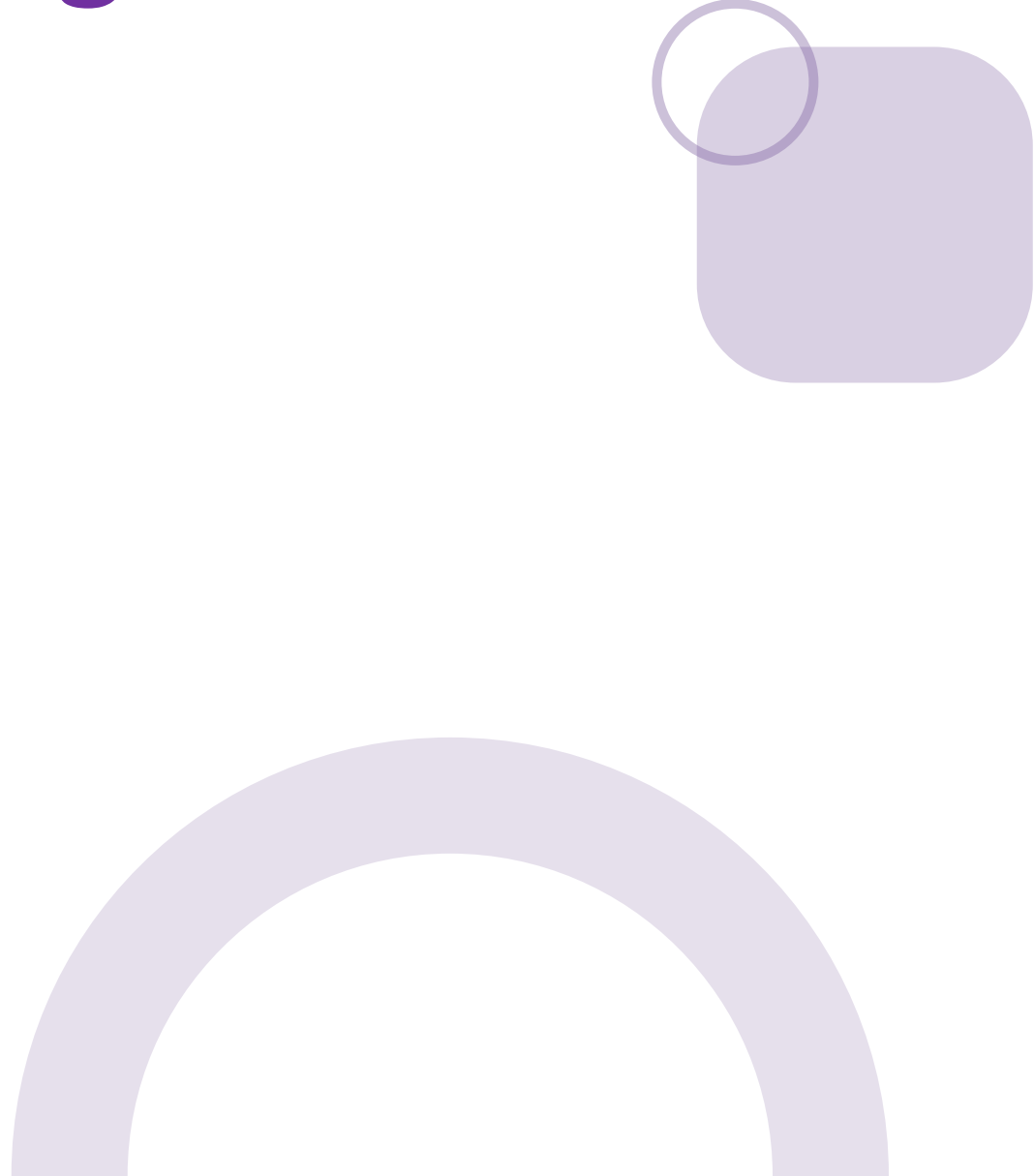
Output 5: ELVs Management System with its implementation plan is drafted

Output 6: ELVs Management System is verified through the implementation of pilot project

Output 5: ELVs Management System with its implementation plan is drafted



## 03 Goal, Objectives, and Outcomes

- 1 Guidelines for ELVs dismantling, recycling and treatment
  - 2 Guidelines for ELVs collecting/ receiving
  - 3 Reporting Guidelines
  - 4 Draft ELVs Management System
  - 5 Implementation Plan
- 





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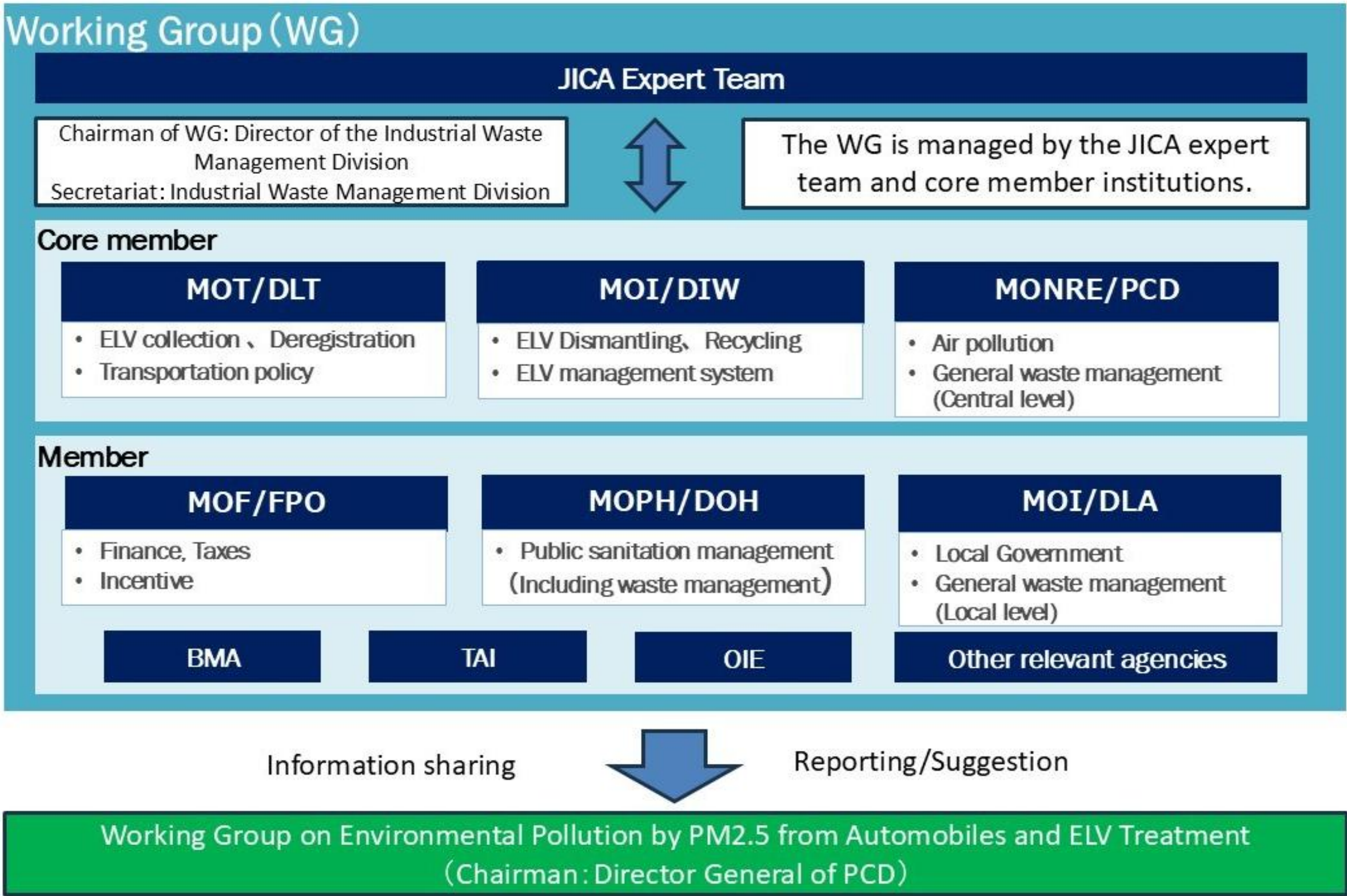


# 04 Stakeholders

- The WG shall be chaired by the Director, Industrial Waste Management Division, Department of Industrial Works.
- The secretariat shall be served by the Industrial Waste Management Division.
- Each of the participating ministries, will ensure assigning members of the assistant director level to regularly attend the WG meeting.
- As a general rule, WG meetings are held every other month
- JICA Expert Team explain a project progress in each WG meeting.
- The core members and member agencies on the Thai side shall immediately report to the decision makers of their respective government agencies on the matters discussed and proposed at the WG meetings to share information and hear opinions on the proposals.



## Working Group Structure







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# 05 Project Progress

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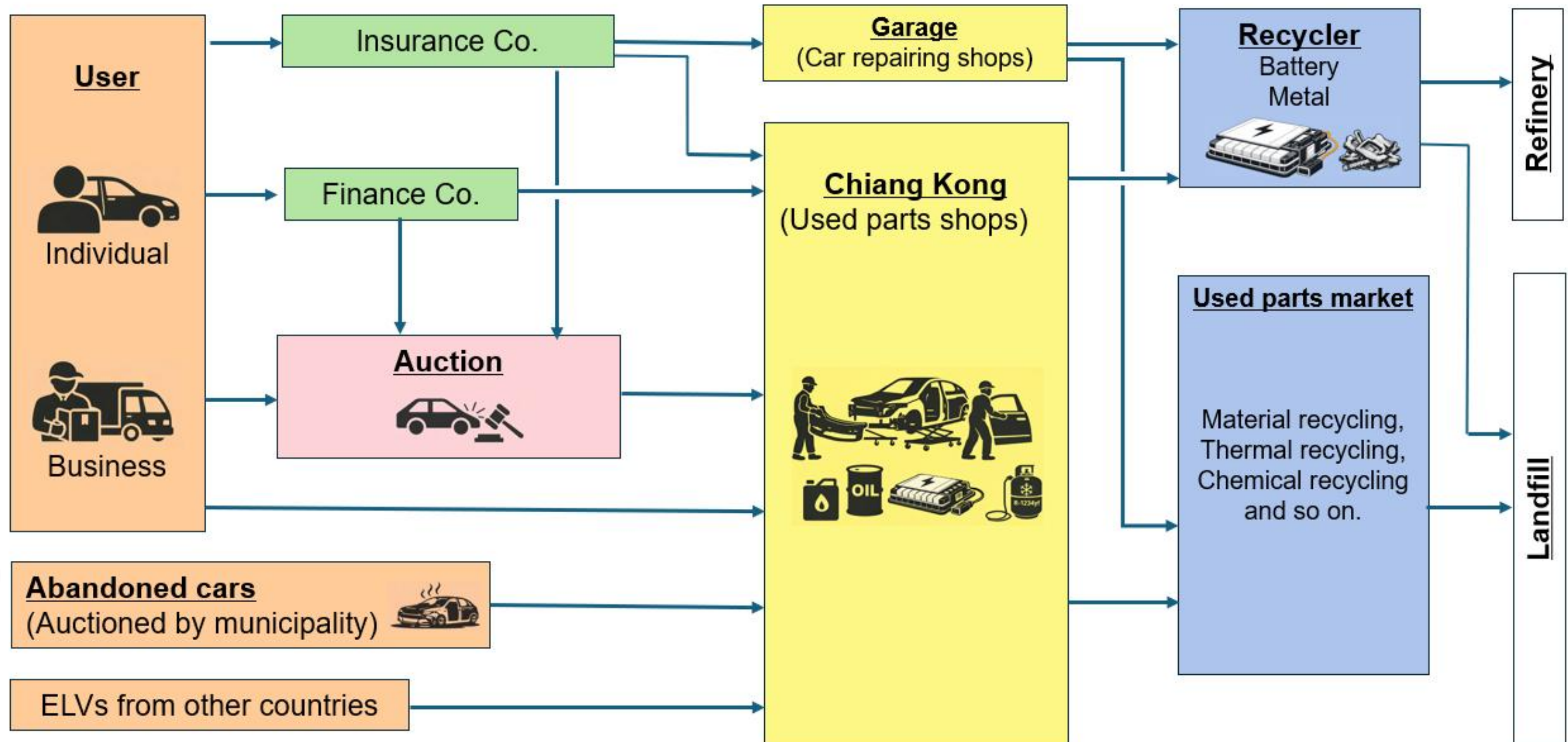
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# 05 Project Progress

## Current ELV Flow in Thailand







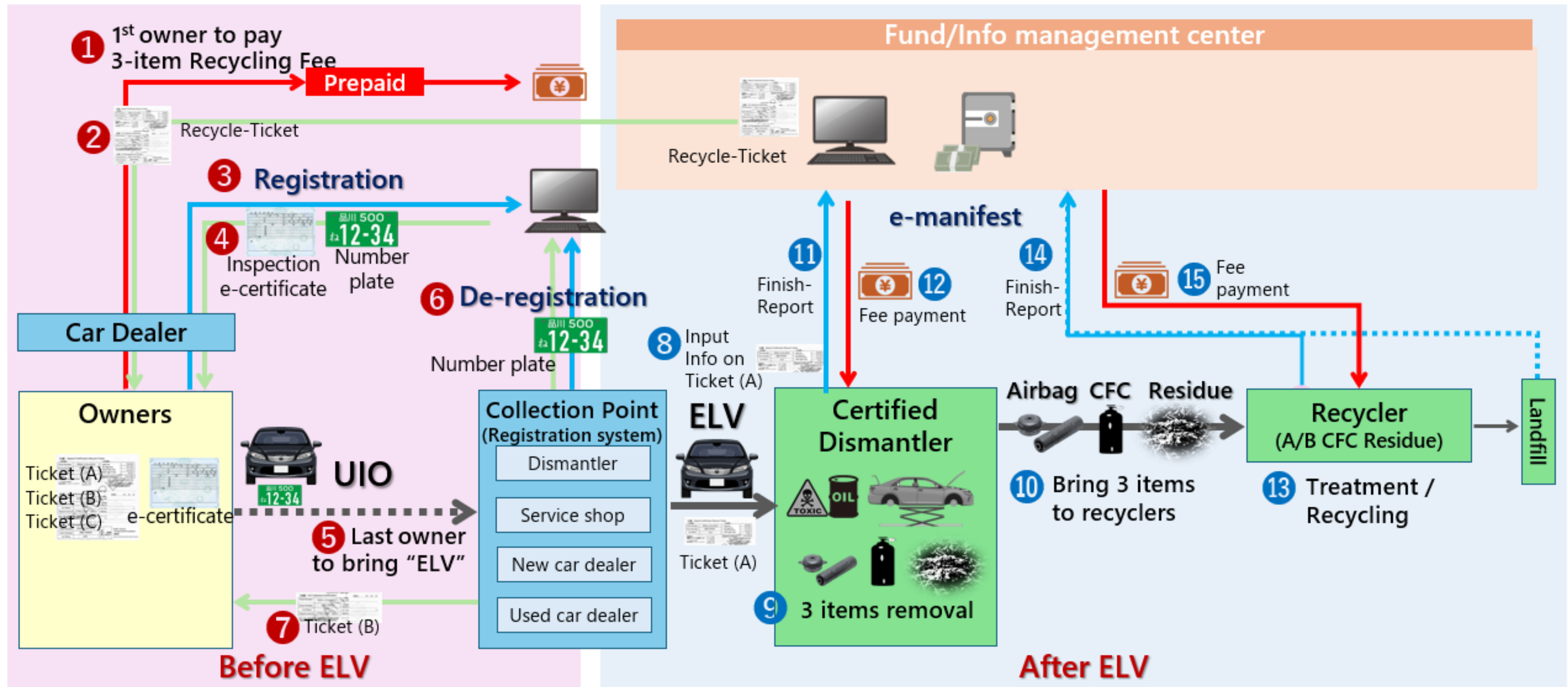
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# 06 Proposed Recycling System

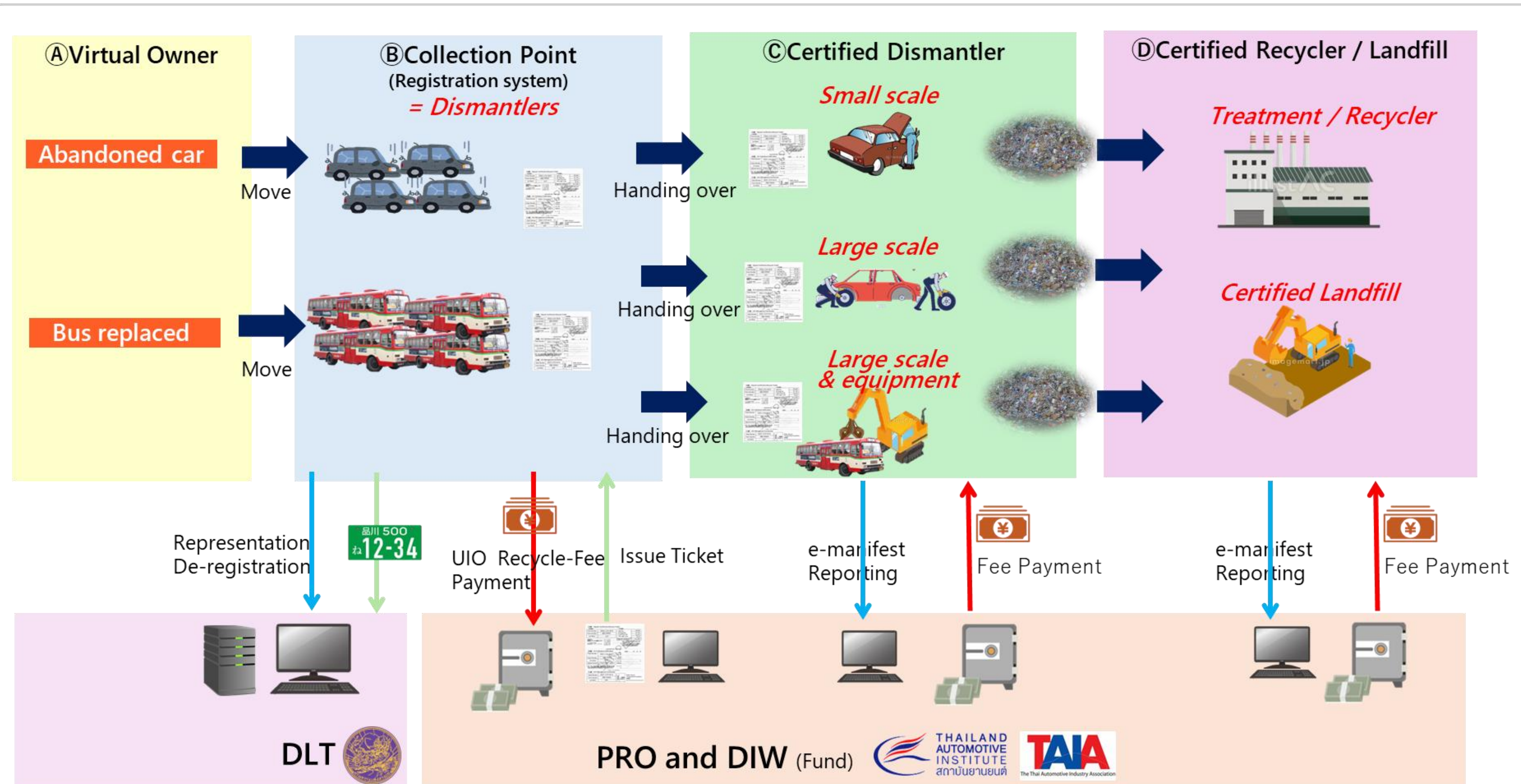
## Proposed ELV Management System under consideration





# 06 Proposed Recycling System

## Proposed Pilot Project under consideration







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