

### **Title of the research project**

“Research on the effective information management system for valuable and hazardous substances contained in products aiming sound international resource circulation”

### **Project members and their affiliation**

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### **Summary**

This research project examines applicability and effectiveness of informational instruments to promote sound international resource circulation in Asia. Especially, the project focuses on recyclable resources with hazards and utility; E-waste. It examined a framework for information sharing on embedded substances (including both hazardous chemicals and valuable metals), international trade of recyclable resources, and treatment facilities with proper management capacity. It tried to illustrate how proper information sharing can contribute to effective resource recovery and solution in environmental problems associated with improper management of recyclables.

The study proposed the following suggestions as well as the need to develop internationally harmonized system.

- a) For hazardous wastes, information sharing on the gap in Basel regulation in each country should be promoted.
- b) For recyclables, there are needs to develop the traceability system in each country and the system should be regionally cooperated, thereby being able to trace the international movement of recyclables as well as to ensure the sound treatment of recyclables.
- c) Producers' and importers' responsibility to disclose and obtain the information on products contents, especially hazardous materials, should be applied to second hand products.

### **Key words (5 words)**

Recycling information, Hazardous chemicals, Precious metals, Waste management, and Policy research