Current Practice of recycling and treatment of hazardous waste from ESM perspective in Asia - ICT Manufacturers

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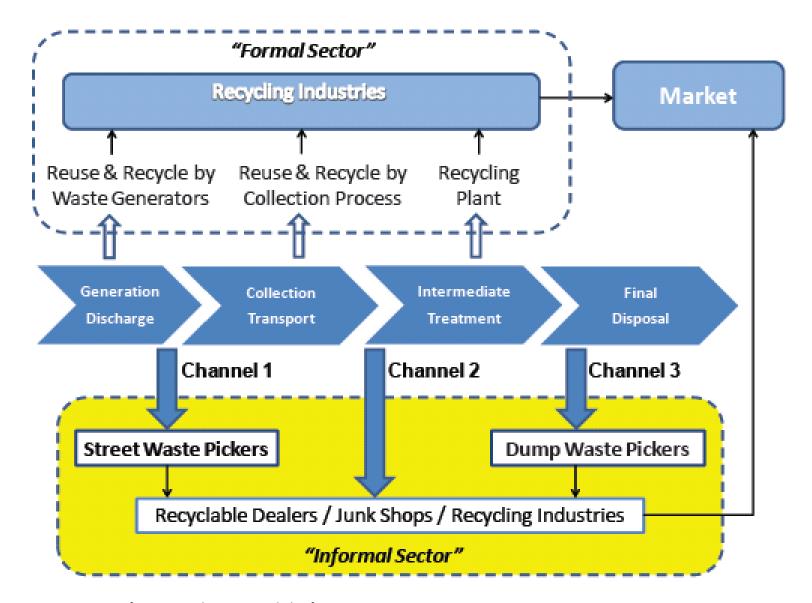
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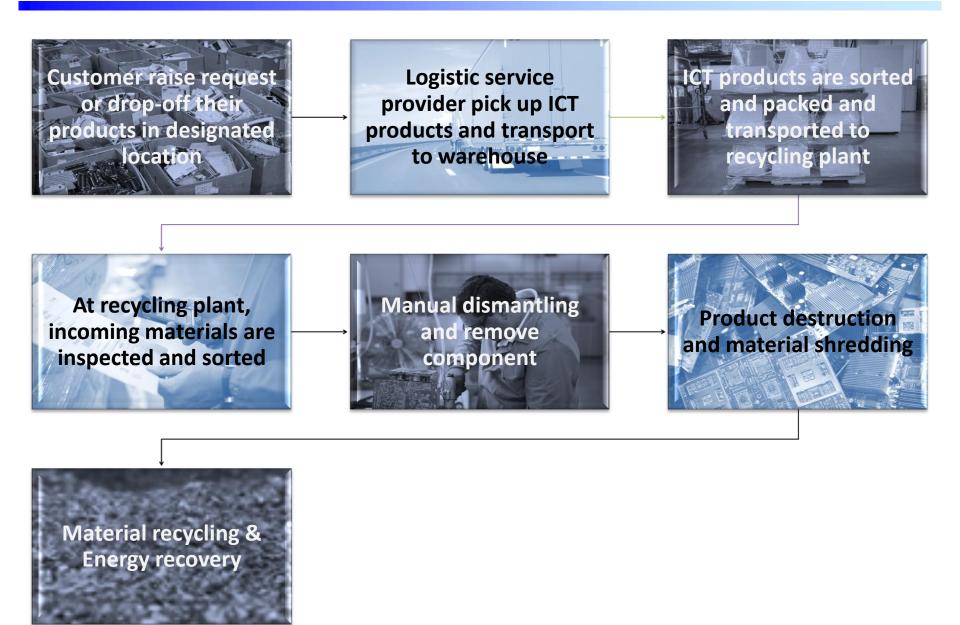
Background of ICT Group

- A group of Infocomm Technology (ICT) and Consumer Electronics (CE) companies formed in 2008 to discuss environmental topics
- At present, the group has 13 members from major global companies
- Voluntary participation
- Regional coverage
- Commonly on Southeast Asia with some company representatives covering other countries of Asia & Australasia

E-Waste Flow: Reality of Formal/Informal Flow

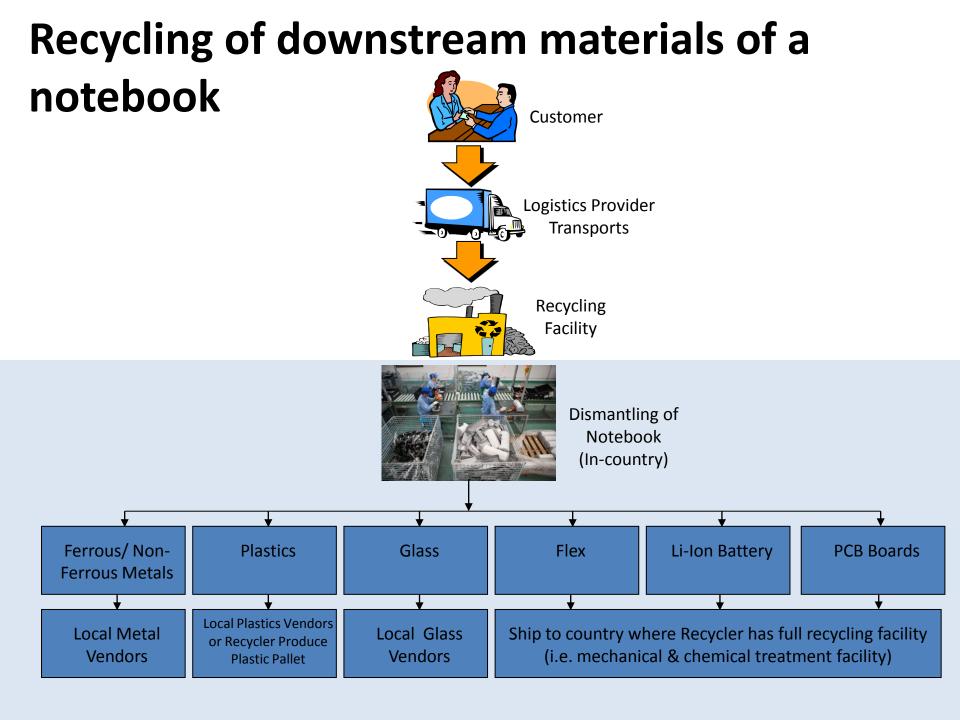


General Recycling Process of ICT products

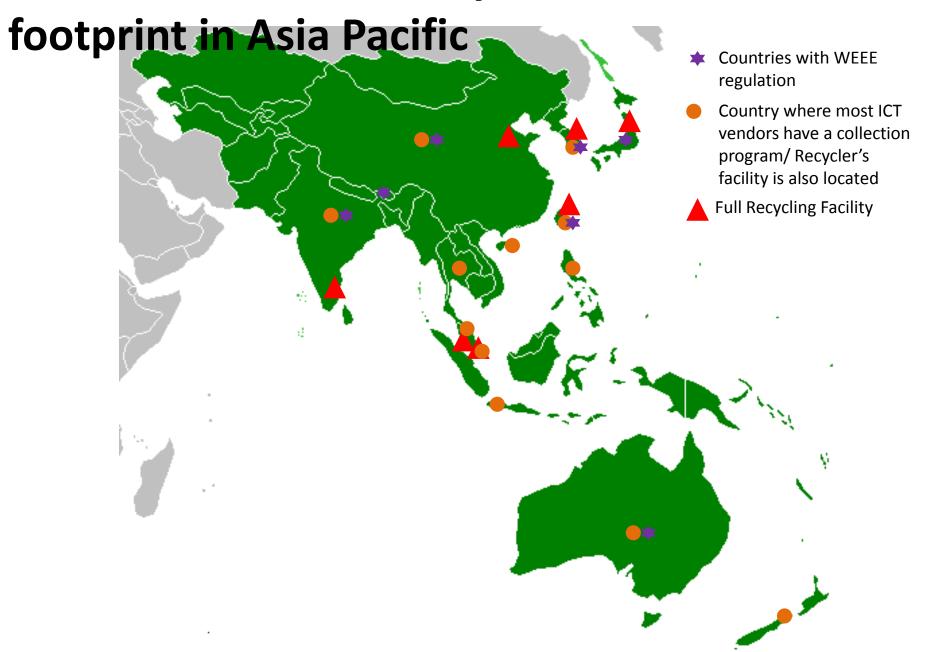


What's In Your Notebook?





Manufacturers and Recyclers collection



Recyclers Management Practice by Manufacturers (Page 1 of 2)

- Recycling Standards. This standard defines the requirements for vendors who recycle or dispose of e-waste or materials.
 Standards include:
 - Code of Conduct and Ethical Business Practices
 - Guidelines on reuse and recycling
 - Landfill avoidance
 - Insurance
 - Use of sub-vendors
 - Audit of vendors and documentation
 - Processing requirements
 - Product and materials tracking and accountability
 - Transboundary shipment
 - Information security
 - Site security
 - Approved dispositions

Recyclers Management Practice by Manufacturers (Page 1 of 2)

- 2. Yearly On-Site Audit of Vendors/Every 3 year period for subvendors
 - Facility Audit
 - Desk Audit
 - Materials Audit
 - Process Audit
 - Security Audit
- 3. Require ISO 9K, 14K and (preferred vendor with) R2 certification

ESM Practice of Recycler

- 1. Generally, for the classification of the e-waste, recycler will consult the exporting country's Competent Authority (CA). The other option for the classification of the e-waste is from the Basel Convention Website.
- 2. Follows detailed description of the control procedure of the Basel Convention on Transboundary Movement of Hazardous Wastes and their Disposal.
- Follows detailed requirement of country's regulation in transportation, storage and recycling of Hazardous Waste and their Disposal.
- 4. Develop new technologies to improve current recycling and treatment of materials.

In Summary

- 1. Manufacturers set standards, policies and guidelines on management of e-waste.
- 2. Manufacturers work with recyclers to build capacity and capability to recycle it's products in country.
- Manufacturers are supporting any means to restrict illegal exports/imports of e-waste. However, measures/controls established should not stop legitimate repair practices in centralized repair centers.

THANK YOU