

# **INTRODUCTION ON E-WASTE MANAGEMENT IN VIETNAM**

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# Legal framework

- Vietnam does not have specific regulations and definitions on e-waste
- E-waste are listed under specific names in the hazardous waste list of Decision 23/2006/QD-BTN&MT
- National Technical Regulation for hazardous waste thresholds QCVN 07: 2009/BTNMT is to identify waste hazardous or not including e-waste, in the HW list

# Legal framework (cont.)

- Circular 12/2006/QD-BTNMT of Ministry of Natural Resources and Environment (MONRE) requires:
  - HW generators register with provincial Department of Natural Resources and Environment (DONRE)
  - HW transporters and disposers (including recyclers) must apply for professional license
    - Within one province: license issued by DONRE
    - Inter-provinces: license issued by MONRE

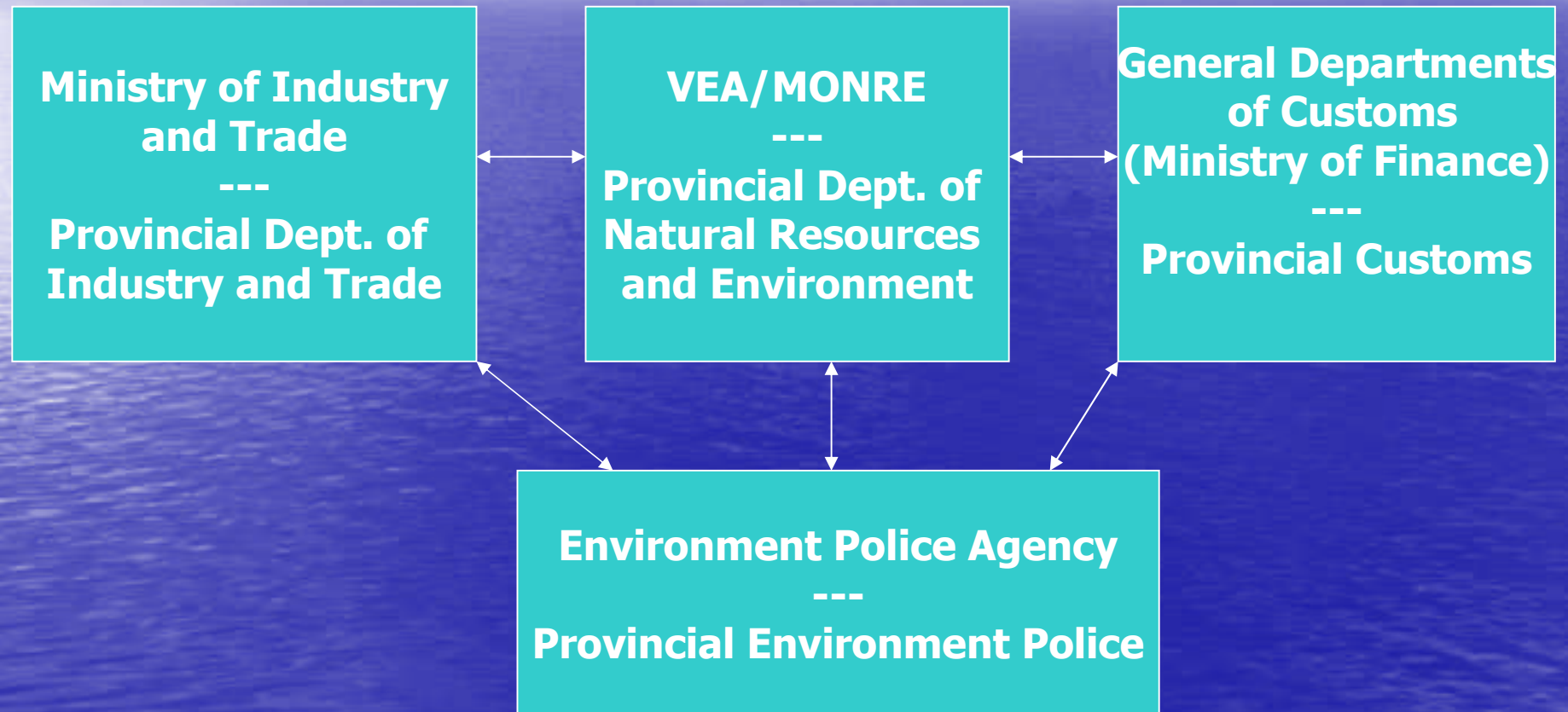
# Legal framework (cont.)

- Article 67 of Law on Environment Protection 2005 requires the taking-back of discarded electronic & electric products and batteries
- The Government is developing the Decree for detailing this policy

## Legal framework (cont.)

- Waste import is prohibited under the Law on Environment Protection (2005)
- Vietnam allows import of certain categories of scrap materials for use (or recovery) as secondary materials for industrial production as listed in Decision No. 12/2006/QĐ-BTNMT, but not of them is e-waste.

# Institutional framework in control of transboundary movement of waste



# E-WASTE GENERATION

Could be forecasted on the estimation on domestic production and importation (in 2006 and 2010)?

Item	2006 (set)	2010 (set)
TV	3,607,419	7,269,021
PC	594,586	1,072,623
Mobile phone	3,230,788	3,361,971
Refrigerators	985,374	1,790,936
Air conditioner	64,818	640,960
Washing machine	931,313	1,711,971

# Current E-waste Management

- Until now, low rate of e-waste because electrical and electronic equipment (EEE) are mostly in reuse
- EEE in Vietnam is mostly discarded by selling to the collectors for dismantlement
- Different collecting systems for e-waste in Vietnam operated by collectors/transporters (licensed or not licensed)
- The recyclable materials will go to the recyclers and reusable parts will go to repair and refurbishment shop. Residues from these activities is sometimes disposed as municipal waste without properly treatment
- There is no large-scale automatic systematic recycling/dismantling technology for e-waste but small-scale manual ones
- Some private entities are illegally operated with simple treatment technologies
- Only some licensed collectors, transporters, and disposers/recyclers comply with regulations

# Measures taken so far

- Registration of hazardous waste generators
- Licensing system for hazardous waste collection, transport and disposal/recycling
- Development of e-manifest system for hazardous wastes for more effective management
- Frequently exchange of information among customs, environment, industry and trade authorities as well as inspection mission to ports, provinces and facilities for control of illegal import or handling

# Challenges and difficulties

- Low rate of e-waste will bloom up very fast soon will be big problem if there is not good preparation for management capacity
- Household and small generators do not registered with authority agencies
- Limited budget and human resources
- Lack of appropriate treatment technology for e-waste
- Low awareness of risk posed by e-waste: people consider e-waste as a valuable resources, not a pollution sources
- Low enforcement capacity

An aerial photograph of a mountainous landscape featuring terraced rice fields. The terraces are arranged in curved, concentric patterns on the slopes, showing a mix of green and golden-yellow colors. The background shows more forested hills under a clear sky.

Thank you for your attention!  
Arigato!

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