

**Practices at a private company  
toward improving  
the environment in Asia  
~ proper waste management and recycling ~**

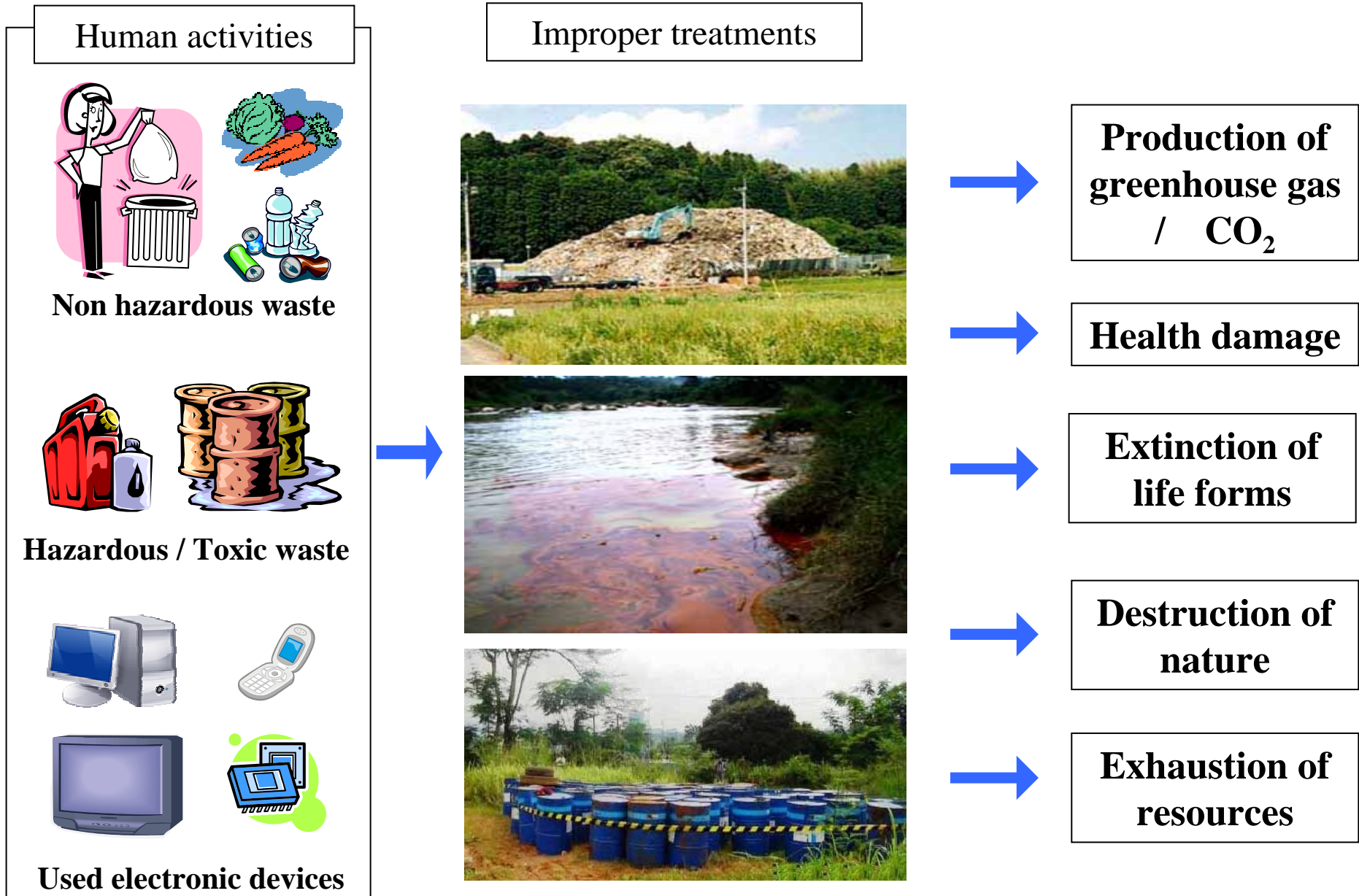
**March 18, 2010**

**Yoshito Koga**

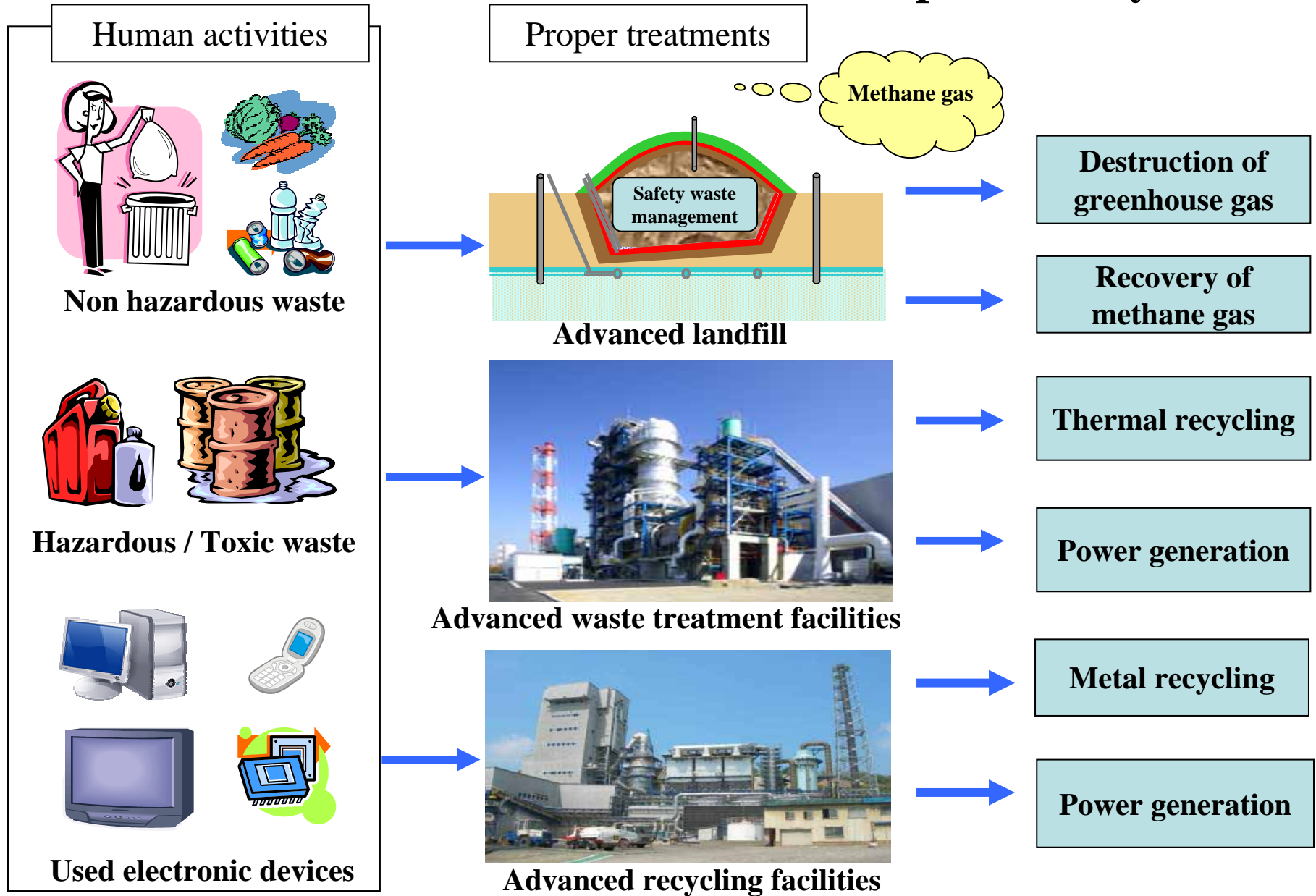
**President**

**DOWA ECO-SYSTEM CO., LTD.**

# Improper treatments of waste cause damage of nature / life forms



# A solution for destruction of nature / life forms provided by DOWA



**Returning the environment to the people of Asia**

# DOWA's Activities ~ Waste management : Landfill ~

## 1. Advanced landfill



Facility in Indonesia

## 2. Decreasing greenhouse gas by methane gas collection



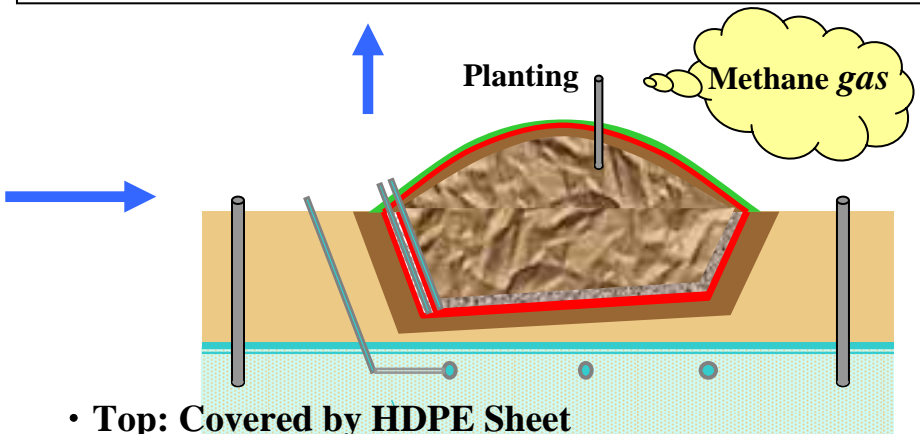
Pig Farm

Excrement

Methane gas

Swine Manure

Recovery and destruction of methane gas CDM



- Top: Covered by HDPE Sheet
- Bottom: Complete sealing by 3 layers of HDPE sheets & clay
- Groundwater control and monitoring
- Waste location system by GPS

# DOWA's Activities



## ~ Waste management : Waste to energy ~

Destruction of hazardous / toxic waste  
Power generation by steam recovery



The biggest waste incineration plant in Japan



Power generation



Metal recycling



Molten metal

Ash



Bottom ash recycling facility



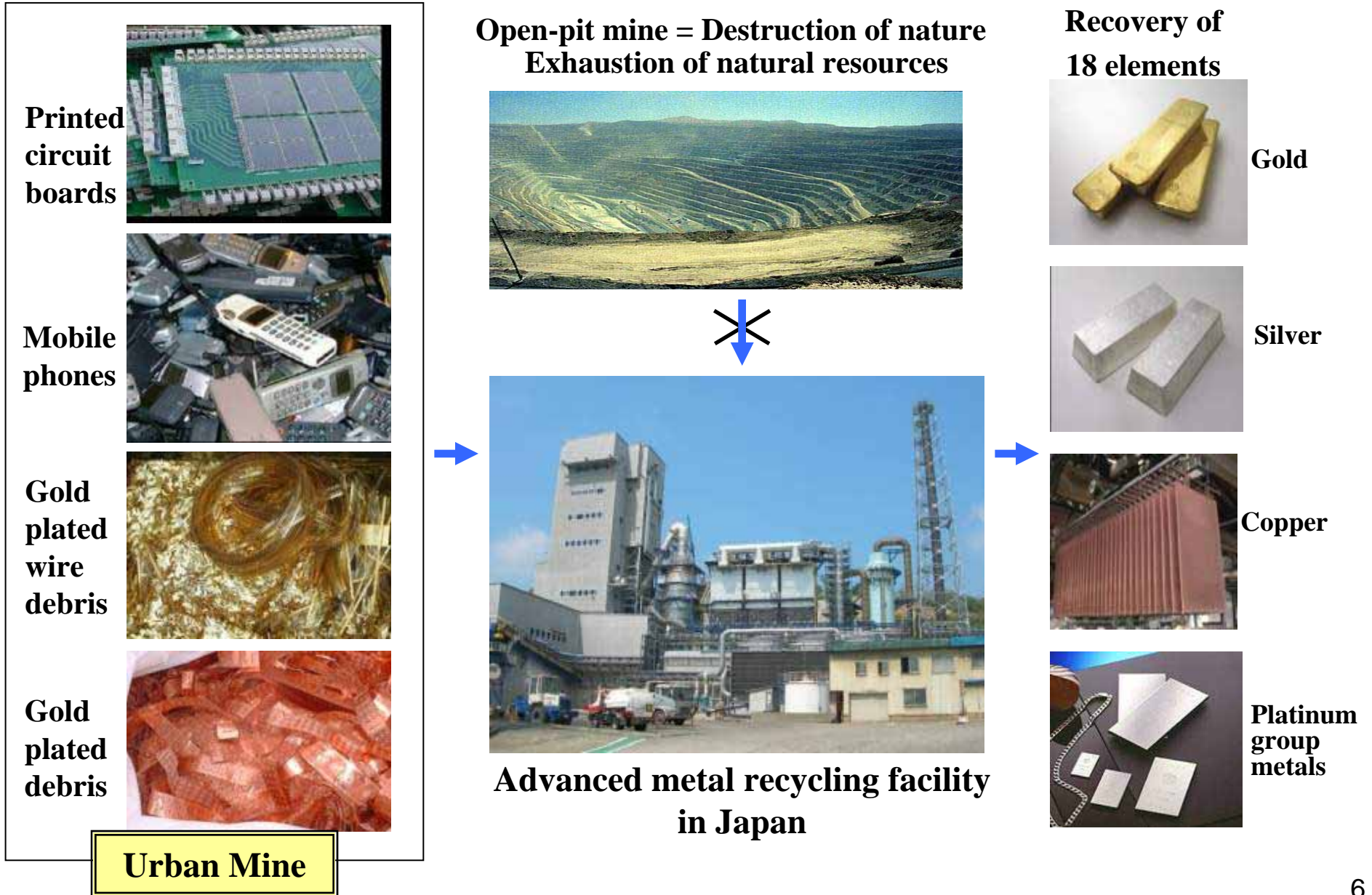
Artificial gravel



The biggest landfill facility in Japan



## ~ Shift from natural resources to "Urban Mine" ~

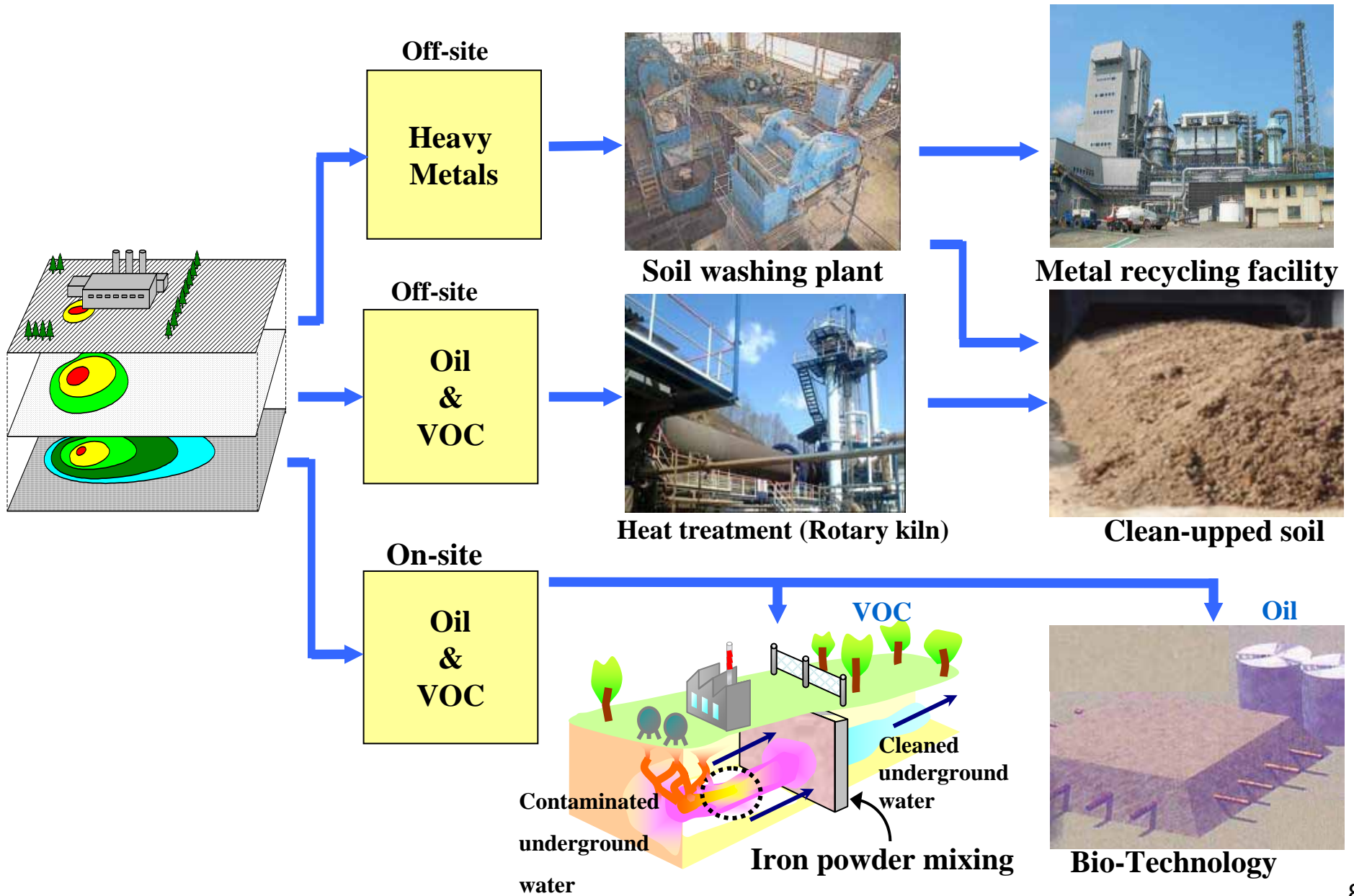


# DOWA's Activities ~ Advanced recycling technologies ~



# Dowa's Activities

## ~ Soil remediation technologies for clean-up ~

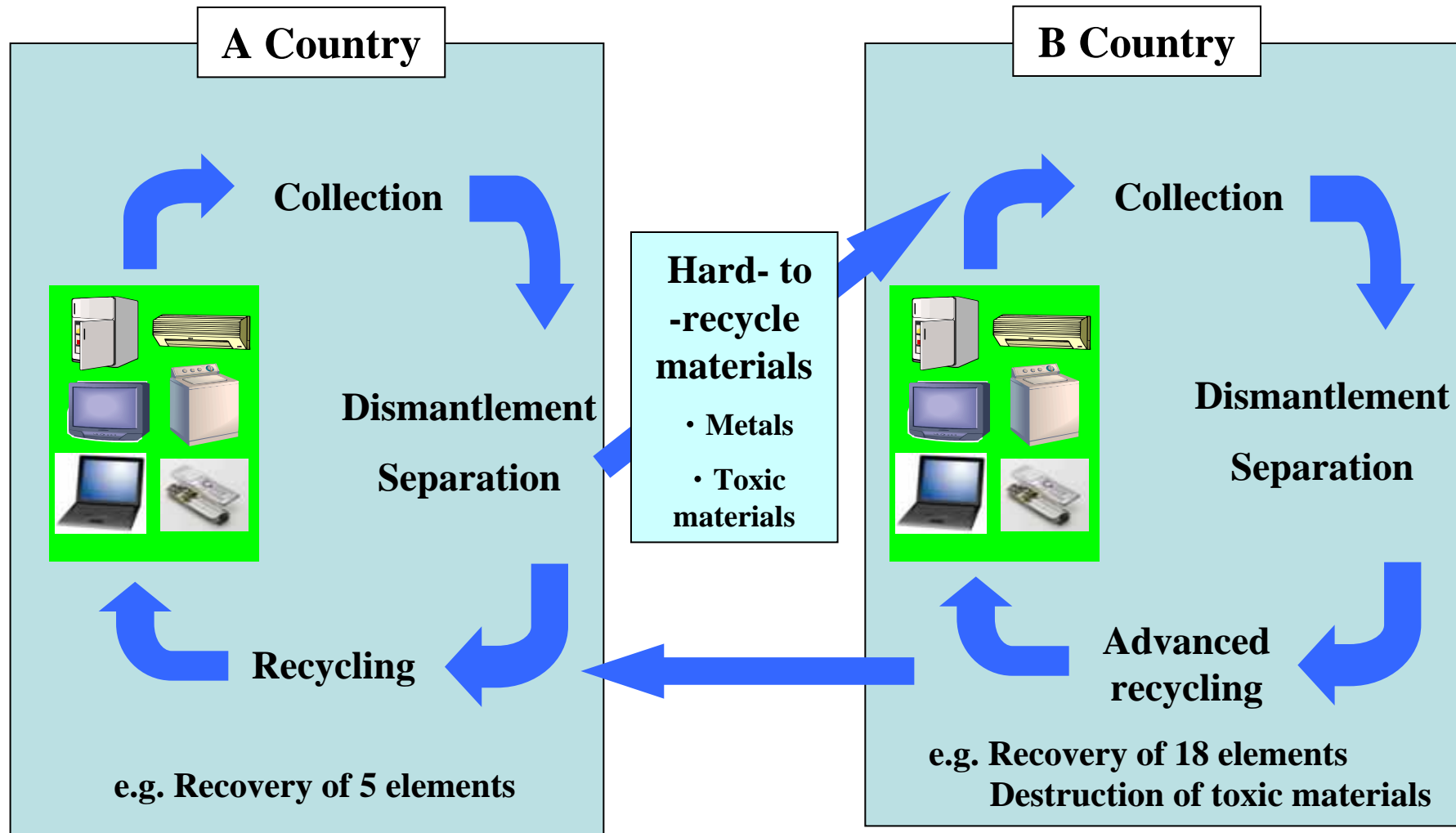




# **Proposal about environmental improvement in Asia**

- 1 . Establishment of proper waste treatment system in each country**
- 2 . Establishment of resource recycling system in each country (Promotion of 3R)**
- 3 . Establishment of resource recycling system among Asian countries**
- 4 . Promotion of environmental education**

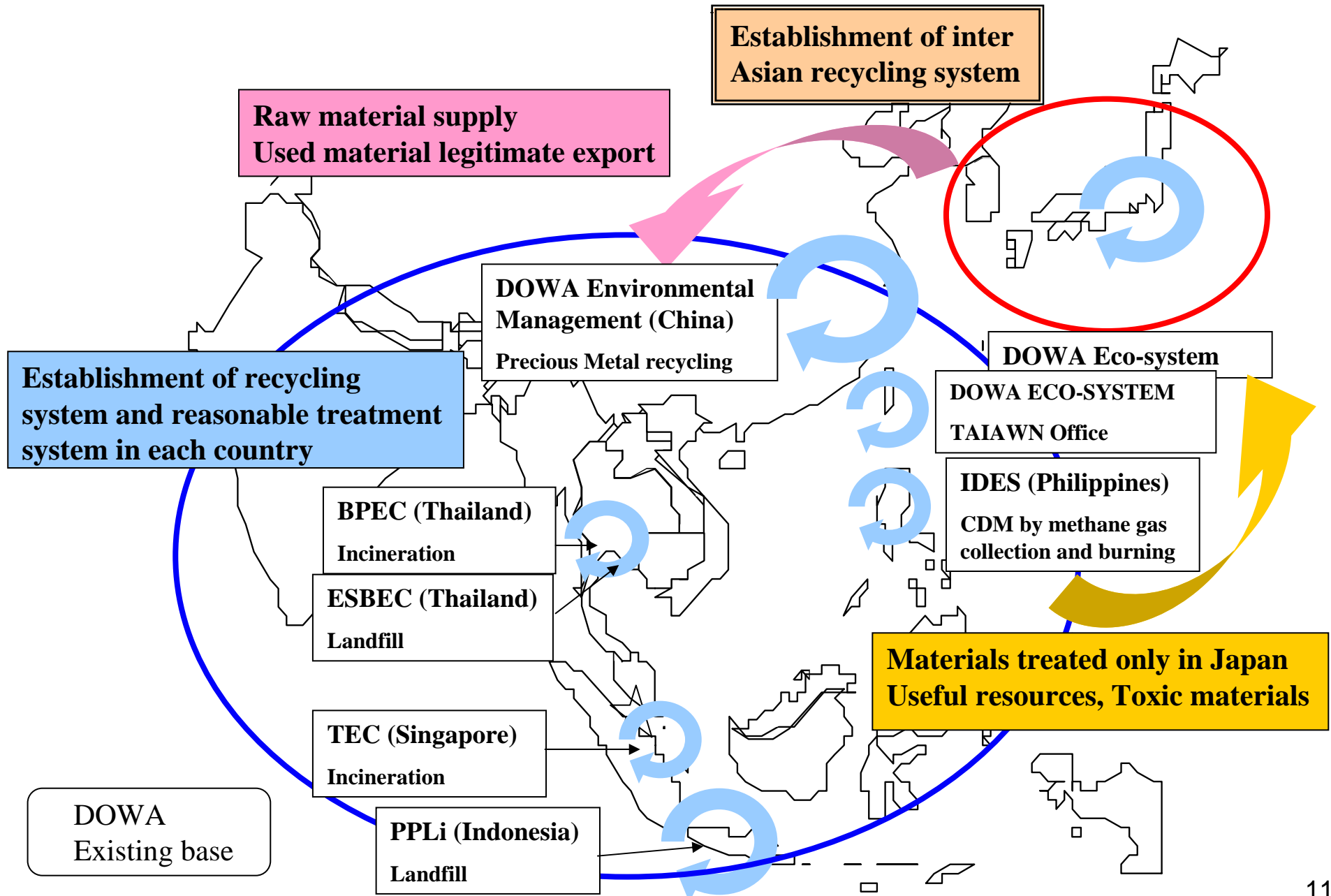
# An example of material recycling framework in Asia



1. Proper waste treatment system in each country
2. Resource recycling system in each country

3. Resource recycling system among Asian countries

# Material recycling framework in Asia





# Returning the environment to the people of Asia

