

# **MOEJ's Actions for Putting Co-benefits Forward**

Office for International Cooperation,  
Environmental Management Bureau,  
Ministry of the Environment, Japan

# Outline

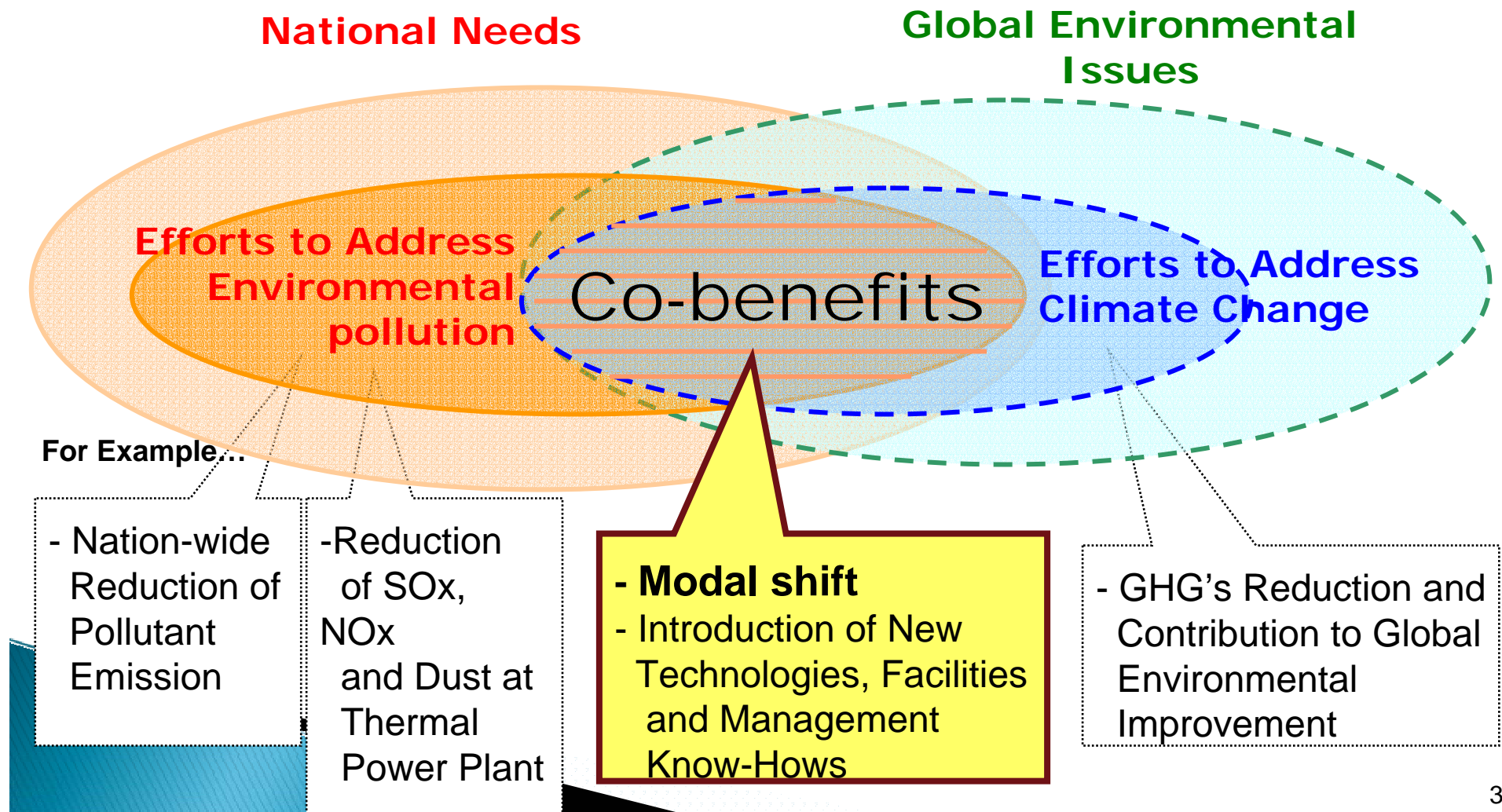
- ▶ **Concept**
- ▶ **Possible Target Area of Co-benefits**
- ▶ **MOEJ's Actions** (MOEJ: Ministry of the Environment, Japan)
- ▶ **Further Development**

<Ref.>

- **Promotion of Co-benefits Approach**
- **Japan's Initiative**

# Concept of Co-benefits Approach

- ▶ **Developing Country Needs = Promotion of Environment Improvement**  
→ *Great Potential to contribute to efforts to address climate change*



# Possible Target Area of Co-benefits

- ▶ Co-benefits projects can help developing countries meet economic and social developing needs.

➔ A new project-based approach to improve the local environment

Target Area	Activity	Benefit (Other Environmental Burden)	Benefit (GHG's)
Air Pollution	Improvement of Combustion	Reduction of Pollutants (SO <sub>x</sub> , NO <sub>x</sub> , Soot and Dust)	Reduction of CO <sub>2</sub>
	Fuel Change		
	Better Transport		
Water Pollution	Methane Reduction from Sludge	Improvement of Water Quality	Reduction of Methane
Waste	Environmentally Sound Landfill	Environmentally Sound Waste Management	Reduction of Methane
	Effective Use of Waste Biomass	Reduction of Waste	

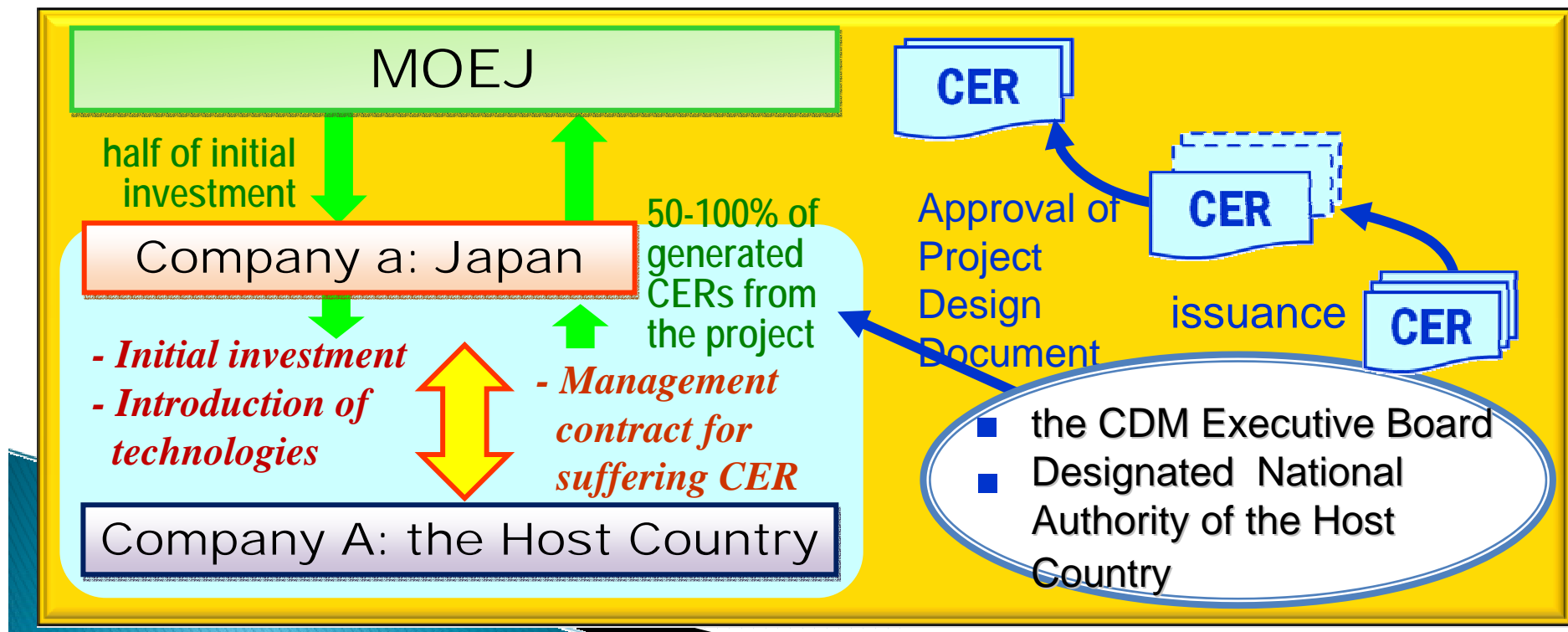
A solution for EST: public health, cleaner fuel, social equity, etc

# MOEJ's Program for Co-benefits CDM

(MOEJ: Ministry of the Environment, Japan)

## MOEJ started the new support program for co-benefits CDM model projects in 2008

- ▶ MOEJ financially supports half of initial investment of potential co-benefits CDM model projects, under the condition that the support recipients will transfer 50-100% of generated Certified Emission Reductions(CERs) to Japan's national registry without any charge.



# MOEJ's Actions 1

## Demonstrating Tangible Co-benefits from Model Projects in CDM

- ▶ Model Projects in Malaysia and Thailand are in progress financially supported by MOEJ's schemes

### [ Malaysia ]

Reduction of Methane Gas Emission and Early Environmental Improvement at Pulau Burung Landfill Site



#### Local Benefits

- Improvement of water quality
- Reduction of explosion risk
- Early safe closure of landfill site

#### Climate Benefits

Estimated GHG's emission reductions  
199,421tCO<sub>2</sub>e  
/9years  
(Year2010-2018)

### [ Thailand ]

Biogas from Ethanol Wastewater for Electricity Generation



#### Local Benefits

- Improvement of water quality
- Reduction of cost for fossil fuel

#### Climate Benefits

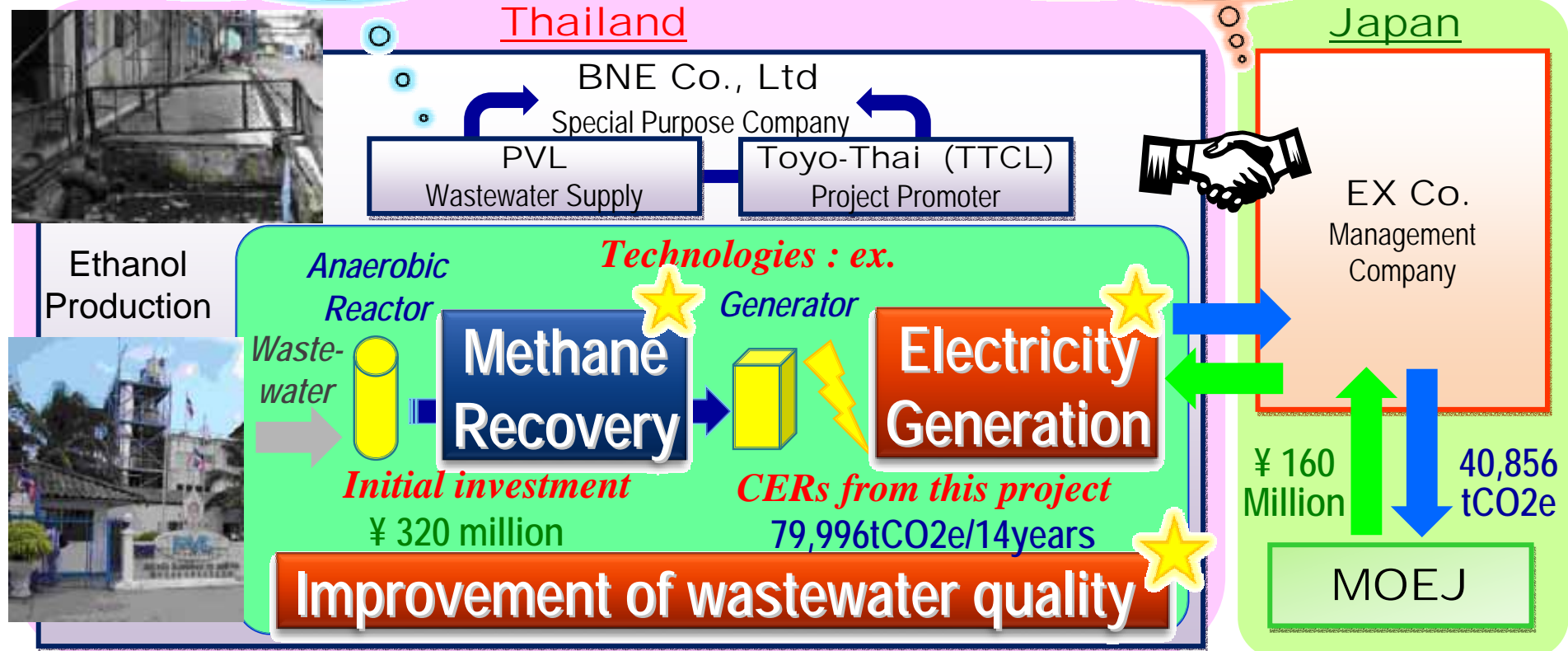
Estimated GHG's emission reductions  
79,996tCO<sub>2</sub>e  
/14years  
(Year2010-2024)



# MOEJ's Actions 2

wastewater

environmental cooperation



## Local Benefits

- Improvement of water quality
- Reduction of cost for fossil fuel
- Prevention of odor

## Climate Benefits

Estimated GHG's emission reductions 79,996tCO<sub>2</sub>e/14years (Year2010-2024)

**Co-benefits!**


# Further Development 1

## Accelerating efforts to implement projects

- ▶ Country, Evaluation Methodology, Sector (transport) and Others

Actual status: only two transport related projects have been authorized as CDM projects from transport sector having the rapid increase of GHG's emissions

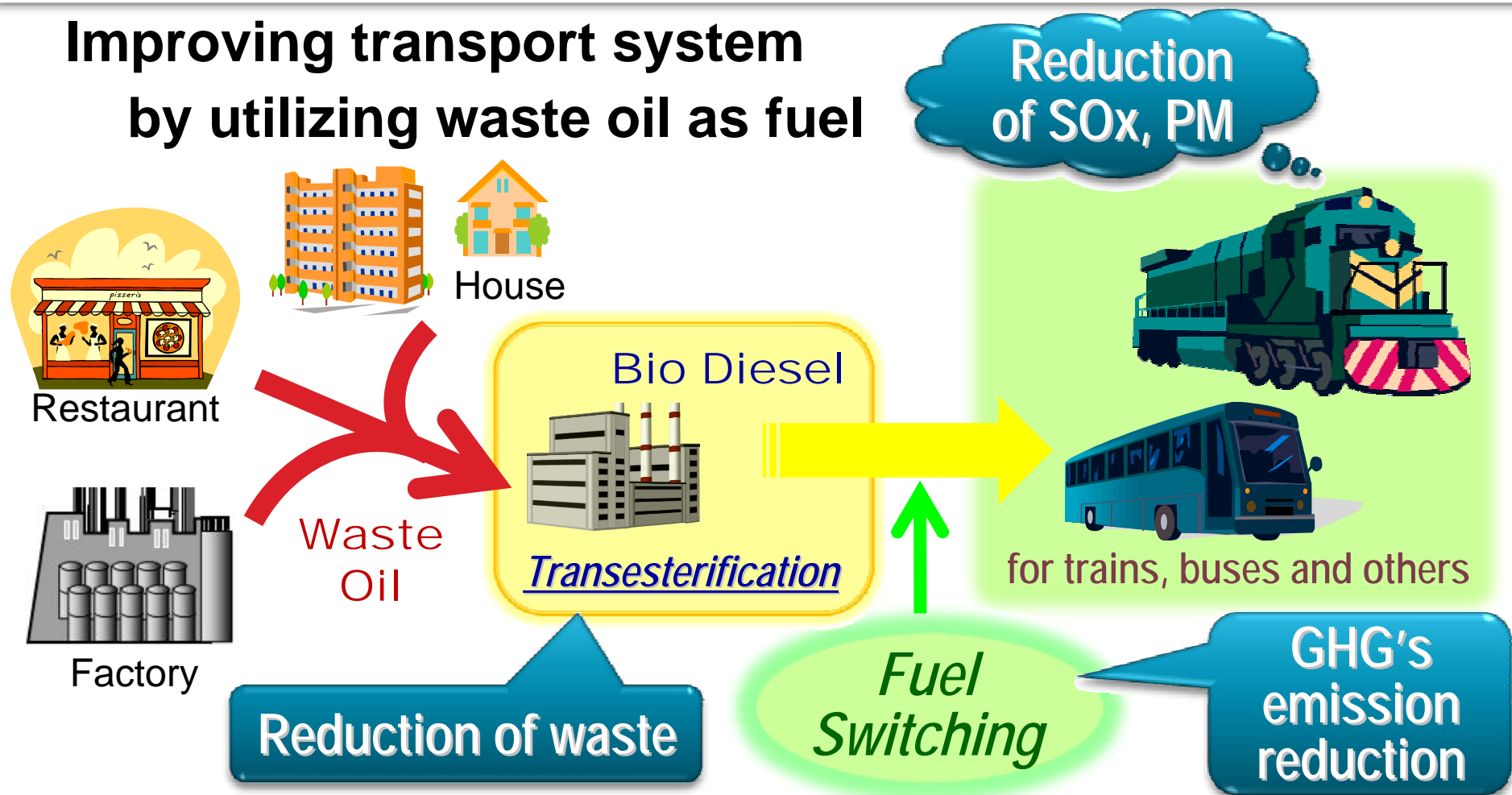
Causes: the difficulty of setting "baselines" as well as getting certification of "additionality" for applying CDM

- 
- ▶ ***Promoting development and implementation of co-benefits CDM projects contributing to Environmentally Sustainable Transport ( ex. Bus rapid transit, Biodiesel fuel, Methane recovery, etc. )***
  - ▶ ***Increasing the number of co-benefits projects in different schemes addressing national development needs (ex. Pollution control) and global needs (ex. Mitigation of GHG's emission)***
  - ▶ ***Developing Quantitative and Qualitative Evaluation Methods in a Measurable, Reportable and Verifiable(MRV) manner for a better assessment***



# Further Development 2 : Example

Improving transport system  
by utilizing waste oil as fuel



## Local Benefits

- Improvement of air pollution (SOx, PM)
- Reduction of waste

## Climate Benefits

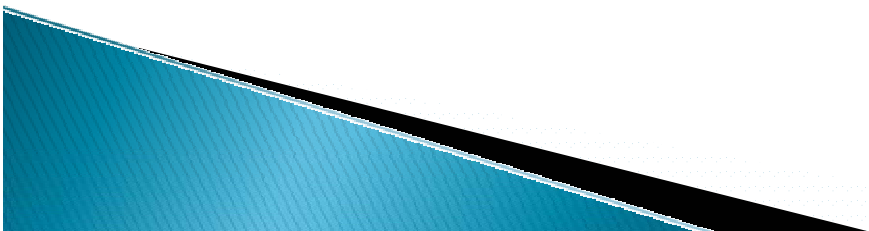
- GHG's emission reductions

**Co-benefits!**



**Thank you very much  
for your attention !**

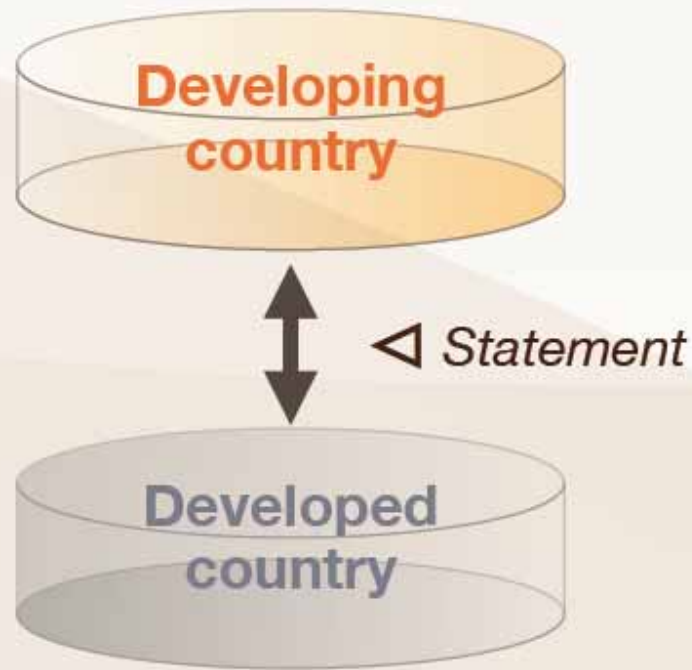
*Let's join our Co-benefits  
Approach!*



# Ref. Promotion of Co-Benefits Approach 1

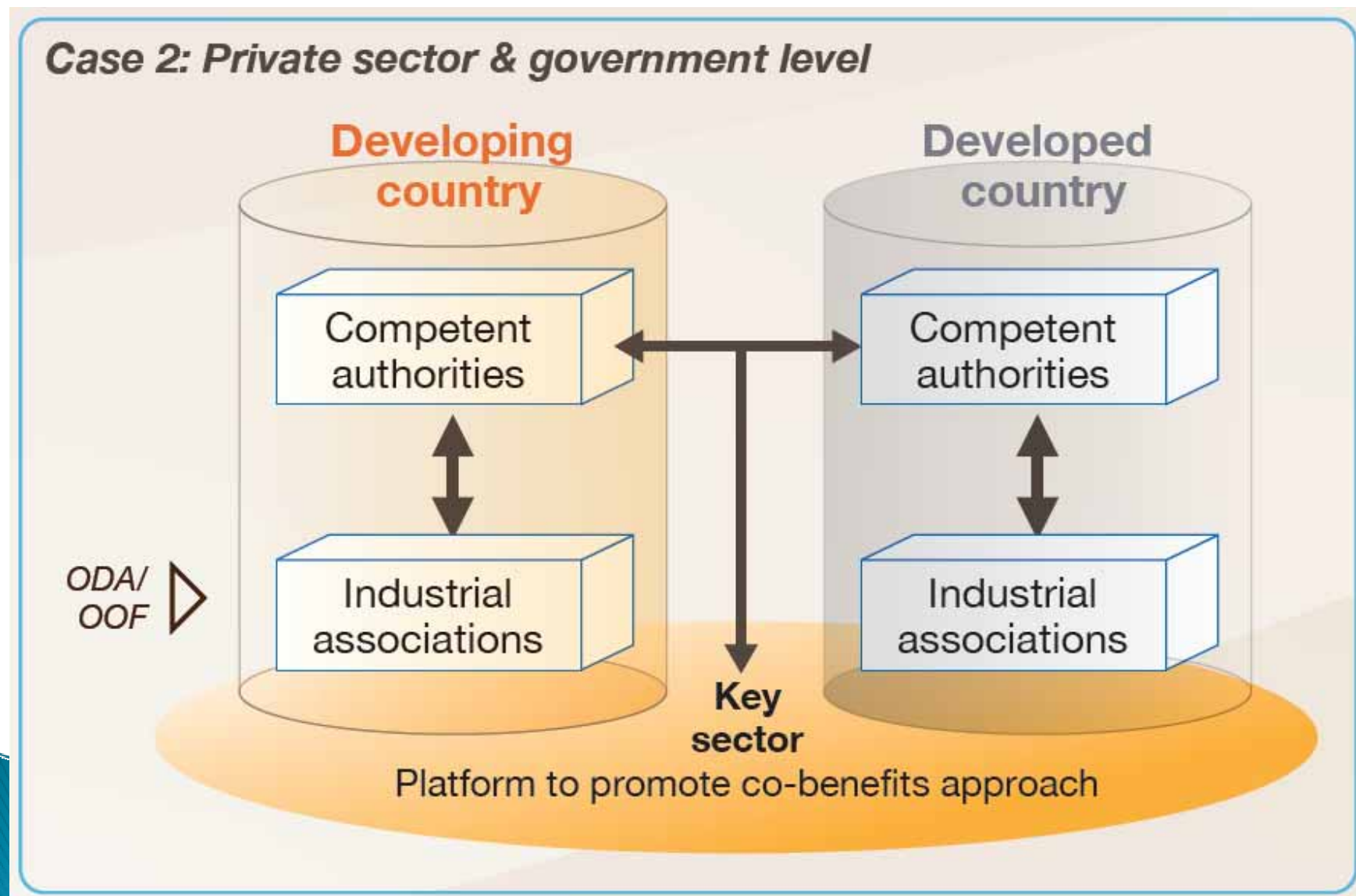
- ▶ **Country level activities include conclusion of a joint statement on the promotion of co-benefits projects, which might cover the following.**
  - **Targets:** High-priority sectors, emission reduction amounts, number of projects, amount of energy consumption reduced, duration of activities, etc.
  - **Priorities:** Regions, sectors, project types, etc.

## Case 1: Country level



# Ref. Promotion of Co-Benefits Approach 2

- ▶ Cooperation between the competent authorities and industry

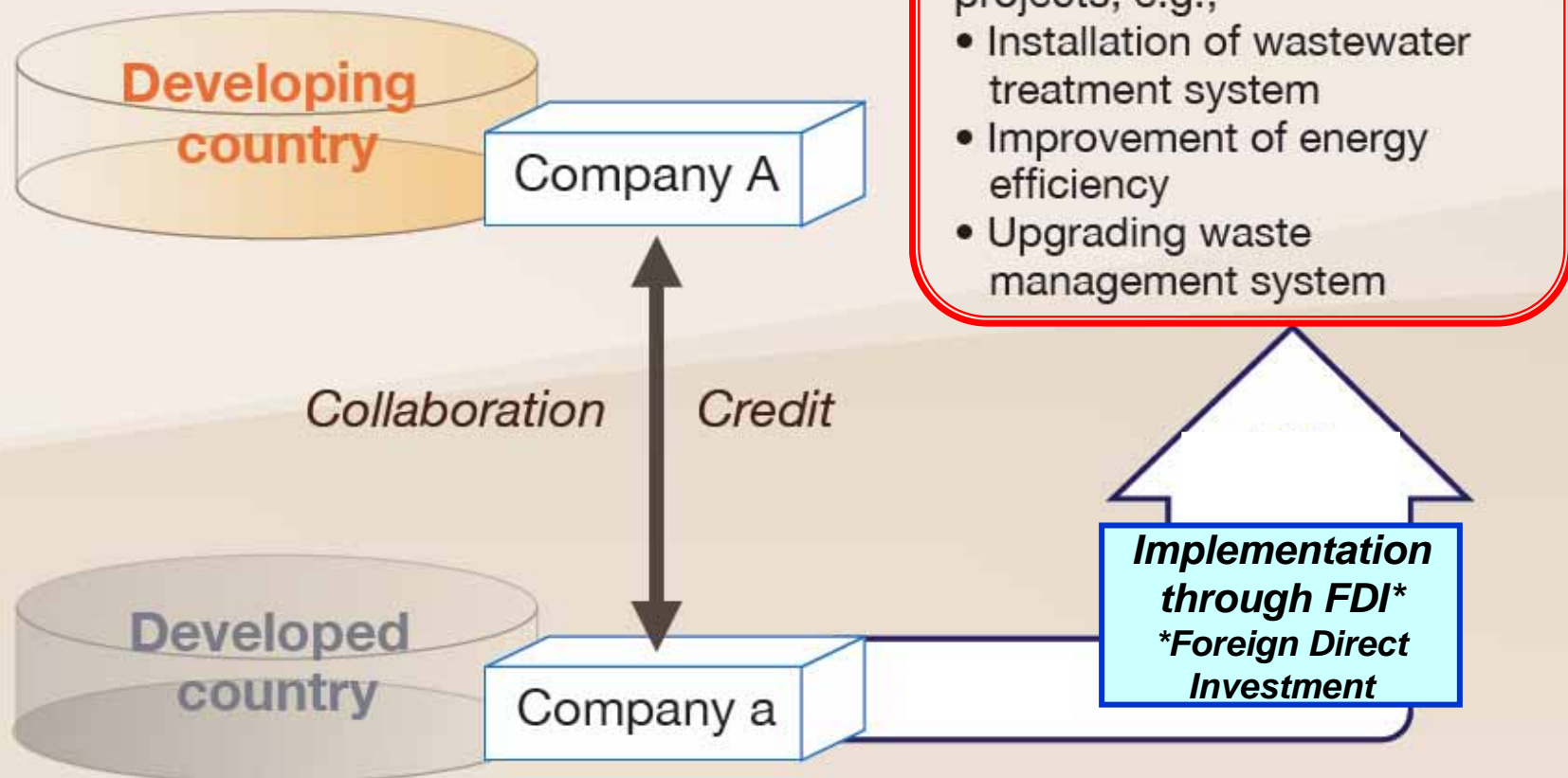


# Ref. Promotion of Co-Benefits Approach 3

- ▶ Several financial sources from the public sector support private companies for the implementation of co-benefits projects.

# The target projects are not limited to CDM projects, but may also include other GHG's emission reduction projects.

## Case 3: Company level



# Ref. Japan's Initiative

## Advancing and Expanding Co-benefits Cooperation with its partners

- ▶ Bilateral Cooperation with China and Indonesia (2007.12)
  - Implementing feasibility studies to develop co-benefits projects
  - Cooperation activities in place in China, Indonesia
  - Activities involves application of quantitative calculation methods

