



# GTZ' activities in the area of waste management in Asia – Routes for the future



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# Overview

- Important aspects for solid waste management in Asia
- Overview about projects in Asia
- GTZ approach to waste management
- Examples from GTZ solid waste management projects in Asia
- Outlook



## Context for Solid waste management in Asia

- Rapid urban growth
- Strong industrial development
- Increasing quantities of hazardous waste
- Vibrant recycling industry, but affected by economic downturn
- Important need for basic services for poor urban dwellers, especially in South Asia



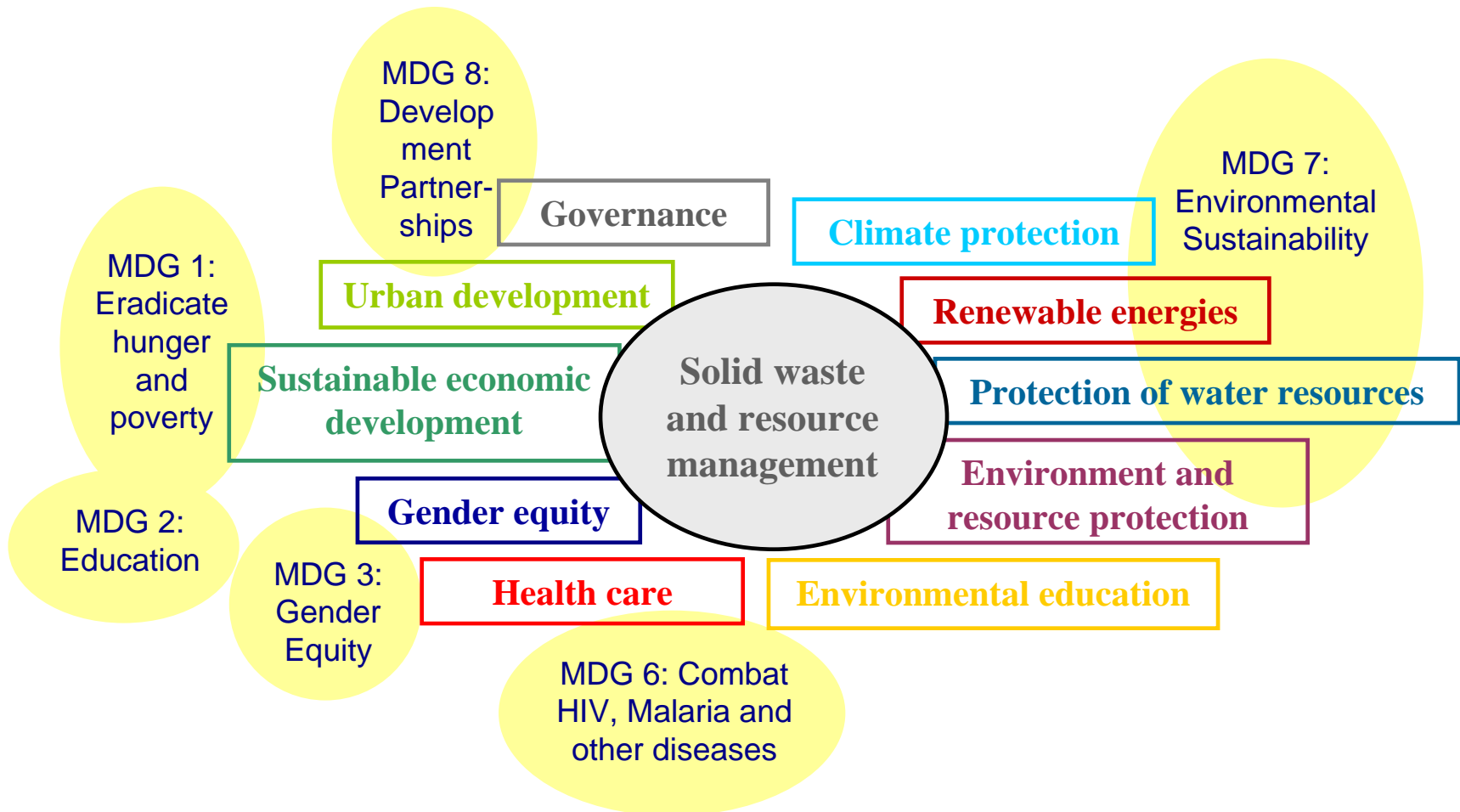


## Current GTZ solid waste management activities in Asia

- Philippines: Solid waste management in Local Government Units
- Vietnam: Management of waste water and solid waste in provincial cities
- Bangladesh: Good governance in urban areas
- India: Environment program
- Strategic Alliances with the private sector (regional):
  - Merck: Hazardous waste management
  - Holcim: Coprocessing of waste in the cement industry
  - Gerdau: Recycling of metals and other secondary raw materials

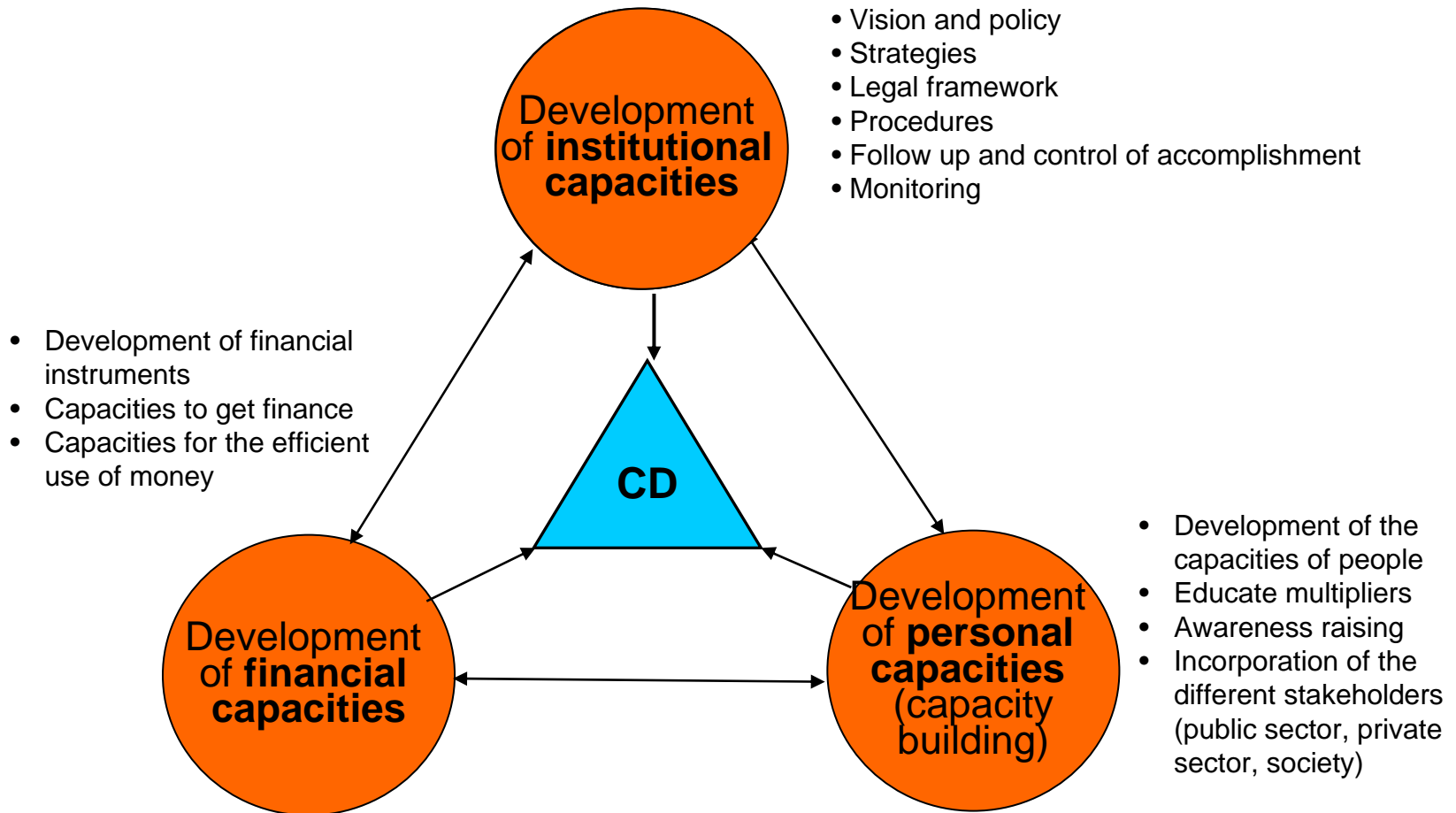


# GTZ approach to waste and resource management - Interrelations





# GTZ's Capacity Development Approach in SWM

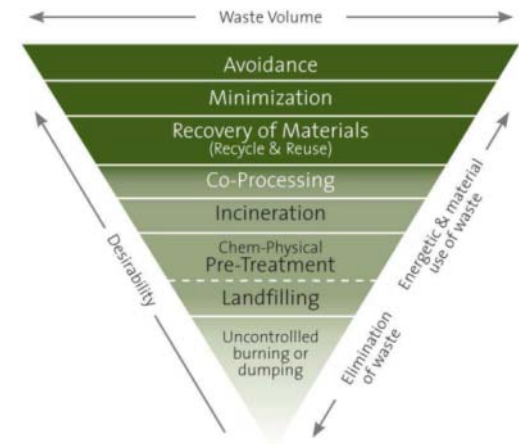






## How to implement the 3R concept in the development of Institutional Capacities?

- Establish waste hierarchy and 3R concept in national and local waste management plans
- Promote the concept of Extended Producer Responsibility (EPR) in legislation and policies with clear targets
- Include the informal recycling sector in waste management strategies
- Enforce the legislation and determine procedures for compliance mechanisms
- Monitoring





## How to implement the 3R concept in the development of Personal Capacities?

- Favour technology cooperation for resource efficient production and recycling
- Strategic alliances with the private sector for recycling and resource recovery (co-processing, energetic use)
- Capacity building for informal sector/waste pickers and recyclers with focus on organizational and technical aspects
- Introduce waste collection and transfer systems favourable to recovery
- Education and Awareness raising of industry and consumers for waste reduction and separate waste collection







## How to implement the 3R concept in the development of Financial Capacities?

- Strengthen capacities to get finance (including CDM certificates etc.)
- Favour formal and informal private sector participation to use market incentives for recycling
- Create financial incentives for 3R (taxes on packaging, waste collection fees related to produced quantity, subsidies for recycling activities)
- Establish regulations and provide training for the efficient use of financial resources
- Support production methods that reduce costs through use of secondary resources





## Solid Waste Management in the Philippines

- Assistance in the elaboration of national and local waste management plans
- Conception and monitoring of controlled landfills
- Elaboration of a sustainable financing system
- Support of a cooperative representing 220 waste pickers at Calahunan dumpsite
- PPP with private company HOLCIM and waste pickers on recovery of alternative fuel resources for cement production
- Advocacy for inclusion of the informal sector in national waste management plan



Segregation workers at the MRF Calahunan, Iloilo City





## India: Hazardous and municipal solid waste management

- Planning and realisation of Treatment and disposal station for hazardous waste
- Study on e-waste business and training of informal sector recyclers on recycling techniques and health and safety aspects
- Installation and support of formalized e-waste recycling business
- Municipal solid waste management planning
- Advice on formulating CDM proposals in waste management





## Outlook

- Continue providing tailor-made approaches according to local priorities: basic waste management services as well as resource and materials management
- Integrated approach: material flow management and integration into industrial environmental management
  - Networking between actors and coordinated management of material flows
- Consequent implementation of Extended Producer Responsibility Approaches
- New strategic alliances with the private sector for the productive use of waste: Merck (hazardous waste), Holcim (coprocessing in cement kilns), Gerdau (metals)



**Thank you for your attention!**

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