
Development of necessary components for implementation of a NAMA on solid waste management in Thailand

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Thailand Greenhouse Gas Management Organization (Public Organization)

Thailand's Policies/ Plans on Climate Change

11th National Economic and Social Development Plan (NESDP) 2012-2016

Ministry of Natural Resources and Environment (MONRE)

Thailand Climate Change Master Plan
2013-2050

National Environment Quality
Management Plan 2012-2016

National Policies/Plans on
Climate Change and
Environment

Ministry of Energy

Energy Efficiency
Development Plan
2011-2030

Alternative Energy
Development Plan
2012-2021

Power Development Plan
(PDP2010 : Revision 3)
2012 – 2030

Ministry of Transport

National
transport
Master Plan
2011-2015

Ministry of Industry

National
Industrial
Development
Master Plan
2012-2031

Ministry of Agriculture and Cooperatives

National
Agricultural
Development
Plan
2012-2016

Strategic
Plan on
Climate
Change in
the
Agricultural
Sector

Specific Plans

Ministry of Natural Resources and Environment

Pollution Control Department

Vision

- Municipal waste will be properly disposed not less than 50 % in 2016
- The utilization of municipal recyclable waste will be increased not less than 30 % in 2016

Policy

- To encourage the waste reduction using reduce reuse recycle, particularly to reduce waste at the sources
- To promote the Best available technology for waste management, such as sanitary landfill, integrated technology, waste incinerator, technology for waste to energy
- To promote the Local Government and private sector on cooperation and participation for waste management
- To support the capacity building for the local organization administration (LOA) on waste management
- To enhance the Polluter pays principle (PPP) such as waste collection and disposal fee, contaminated area improvement responsibility

Project implemented by Pollution Control Department

Purpose

1. To achieve vision and policy
 - Municipal waste will be properly disposed not less than 50 % in 2016
 - The utilization of municipal recyclable waste will be increased not less than 30 % in 2016
2. To support in building up the capacity of local government for waste management
3. To promote the municipalities to develop their activities for the better environment

Project details

Project period: 4 years (2012 -2016)

Project areas: 76 provinces

Year 2012: 615 municipalities of 76 provinces

Year 2013-2016: 1,100 municipalities of 76 provinces per year



Activities under project

1. Reduce-Reuse-Recycle development
2. Effective green junk shops development
3. Promotion of Aluminium waste donation to produce the prosthetic legs
4. Hazardous waste management
5. Development of data inventory system and networks
6. Increasing efficiency of waste

Ministry of Energy

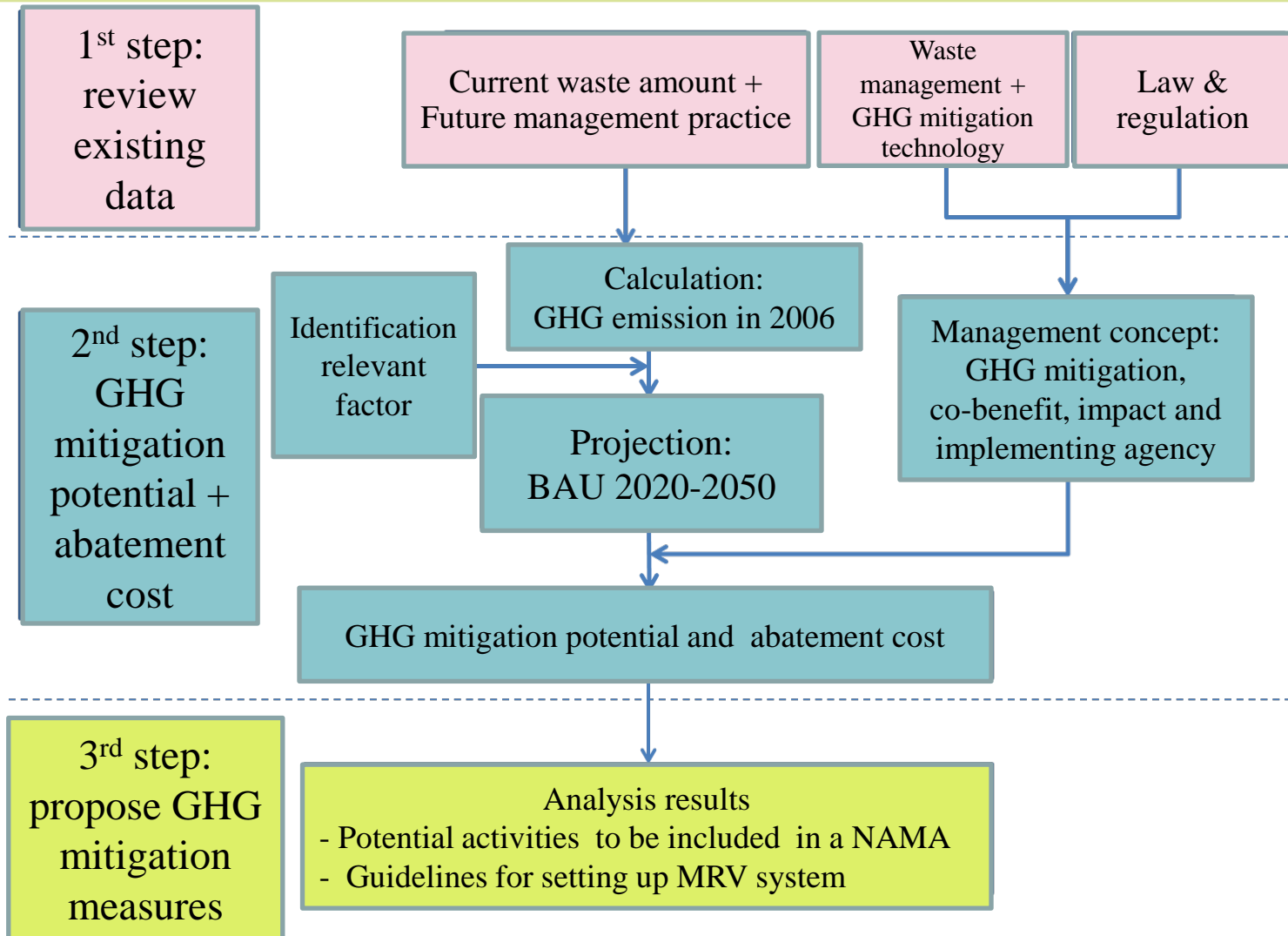
Alternative Energy Development Plan 2012-2021

- Waste to energy
 - present installed capacity 319 MW
 - Target according to the plan is changed from 160 → 400 MW
industrial wastewater > municipal solid waste

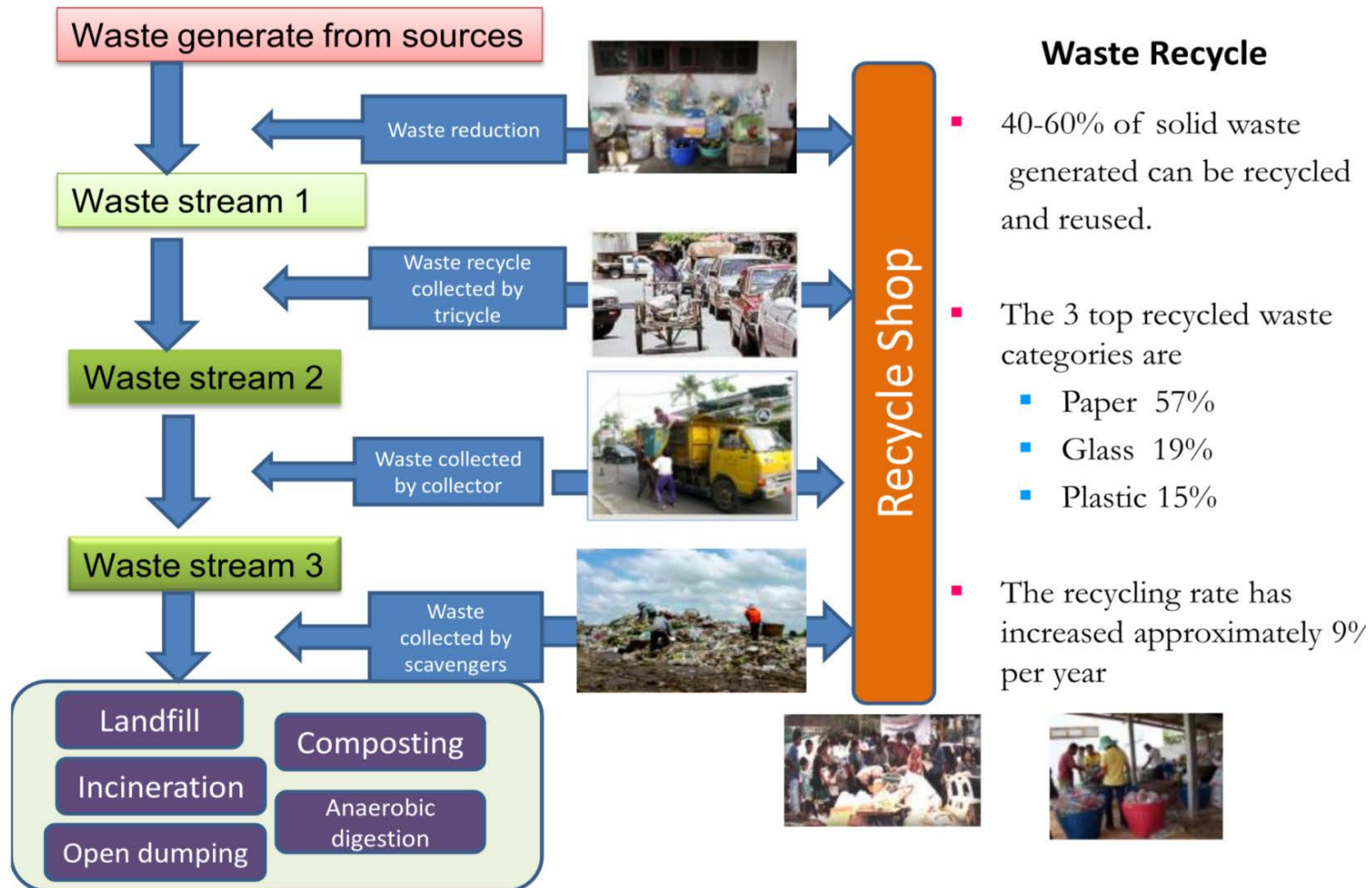
Source: Energy Regulatory Commission, May 2013

NAMAs	CO ₂ Counter measure	MAC (\$/t-CO ₂)	Potential of CO ₂ mitigation in 2020 (kt-CO ₂)
Internationally Supported NAMAs	Local Landfill	32.8	42.6
	Incinerator	140.6	6.3
	Biogas Digester	164.7	11.6
	Controlled Landfill	395.3	0.3
Total			60.8

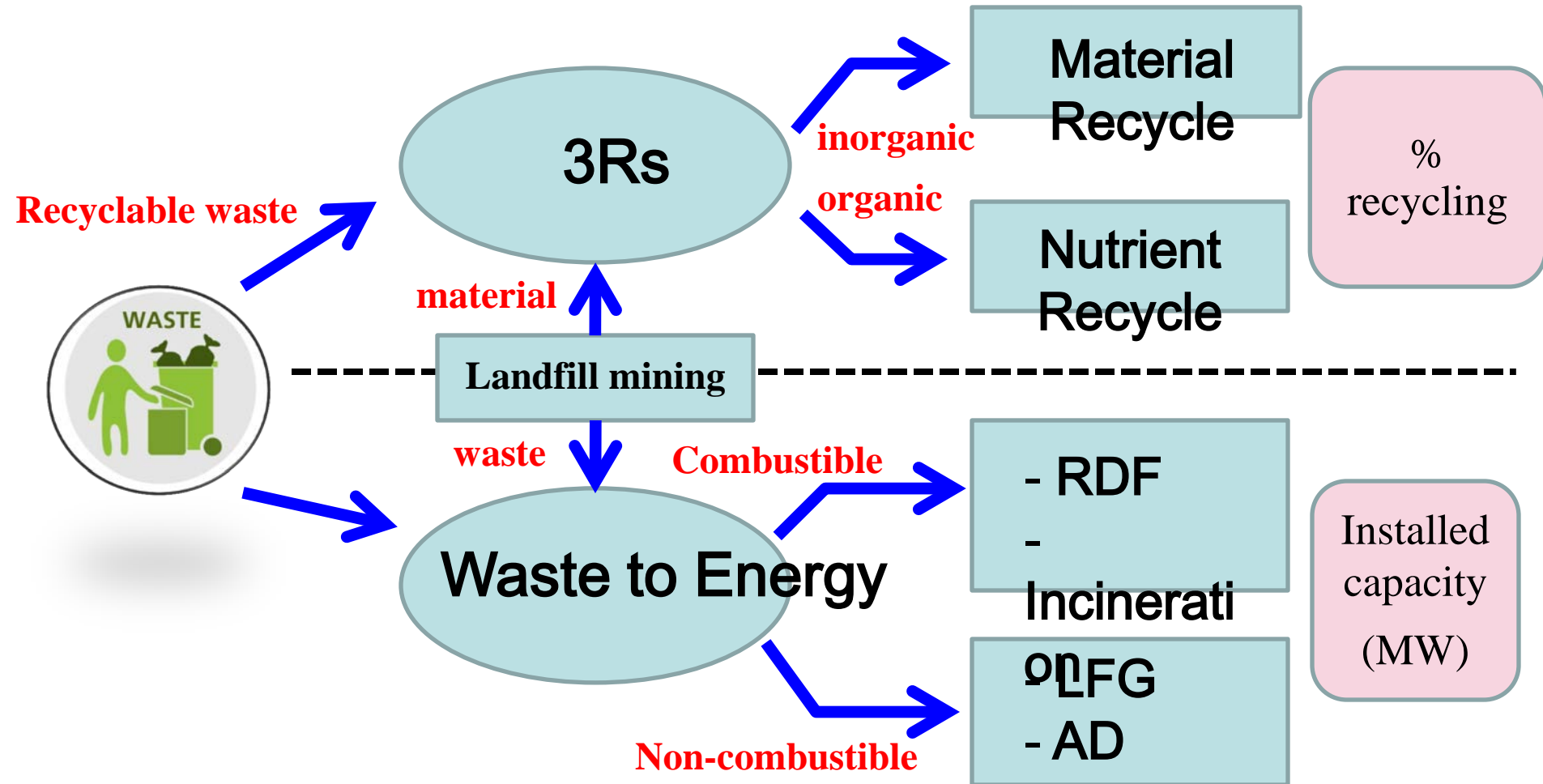
Study on GHG mitigation potential from municipal solid waste management



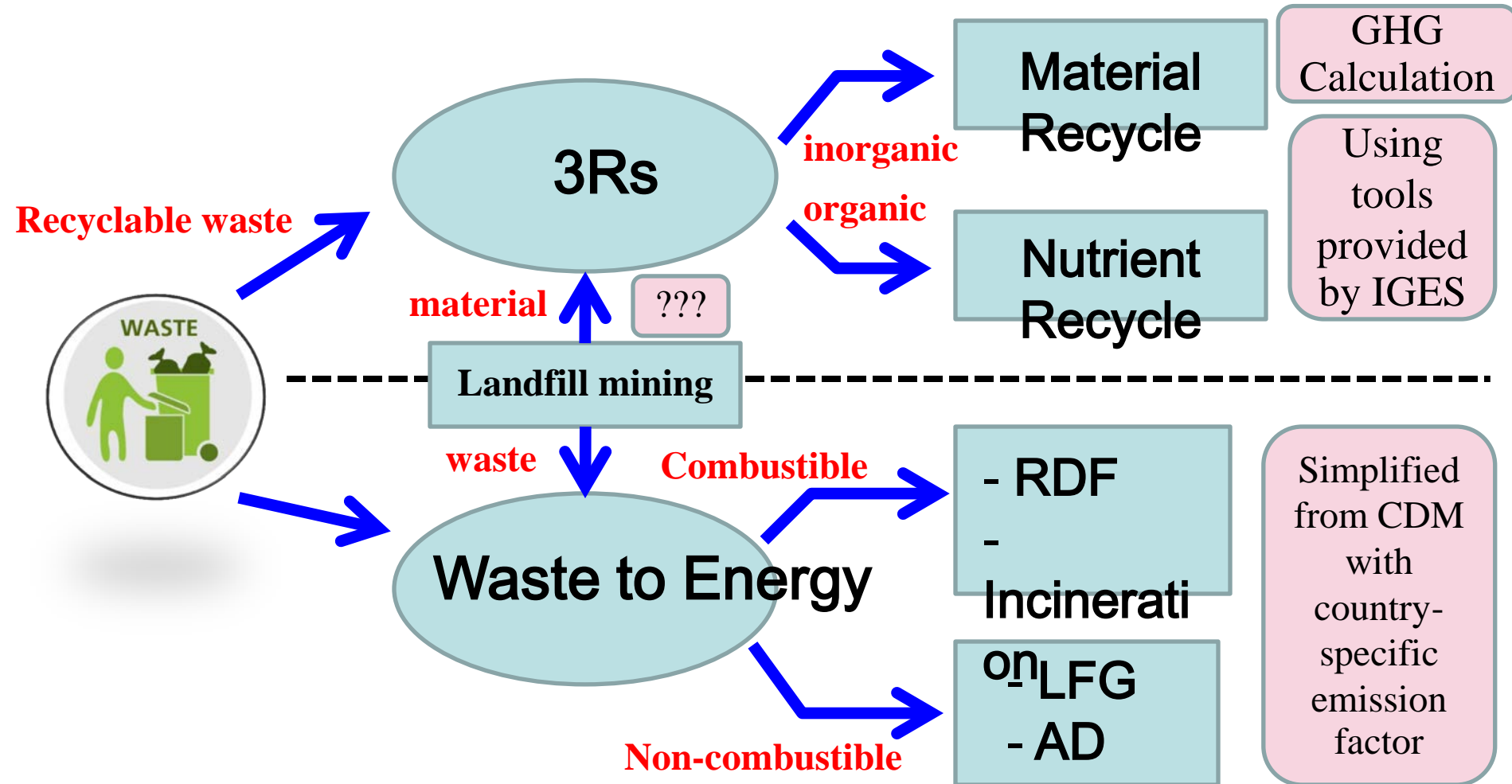
Current MSW Management



Proposed MSW management technologies & policy-level MRV



Proposed MSW management technologies & project-level MRV



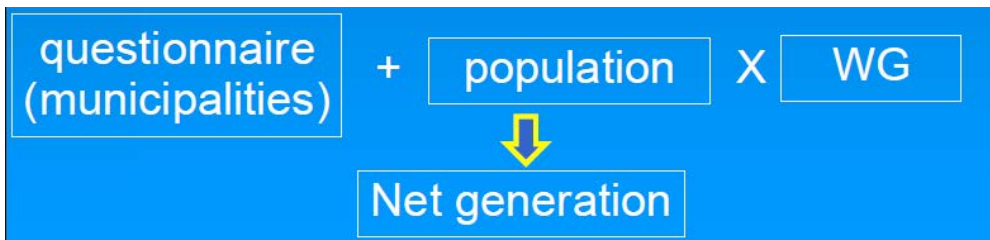
Data collection system

Previous method: calculated from waste generation rate (WG)



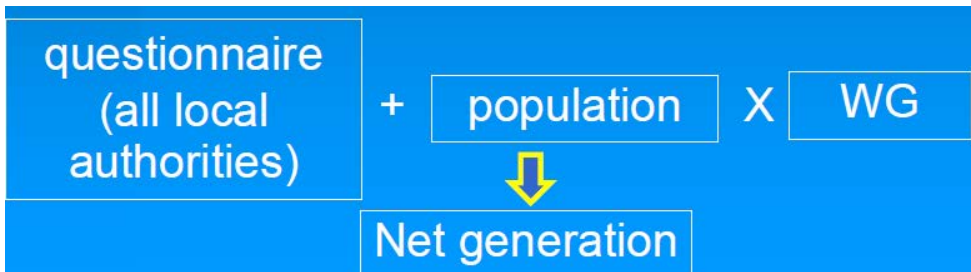
- Use of questionnaire or interview for waste disposal information (100 proper sites)
- Data collection
- Interpret data
- Random survey for cross check

Present method (from 2004 to present) : used data from questionnaire and calculated from waste generation rate (WG)



- Use of questionnaire or interview for waste disposal information (1xx proper sites)
- Data collection
- Interpret data
- Survey all of sites for cross check

Incoming method (from 2015) : used data from questionnaire only



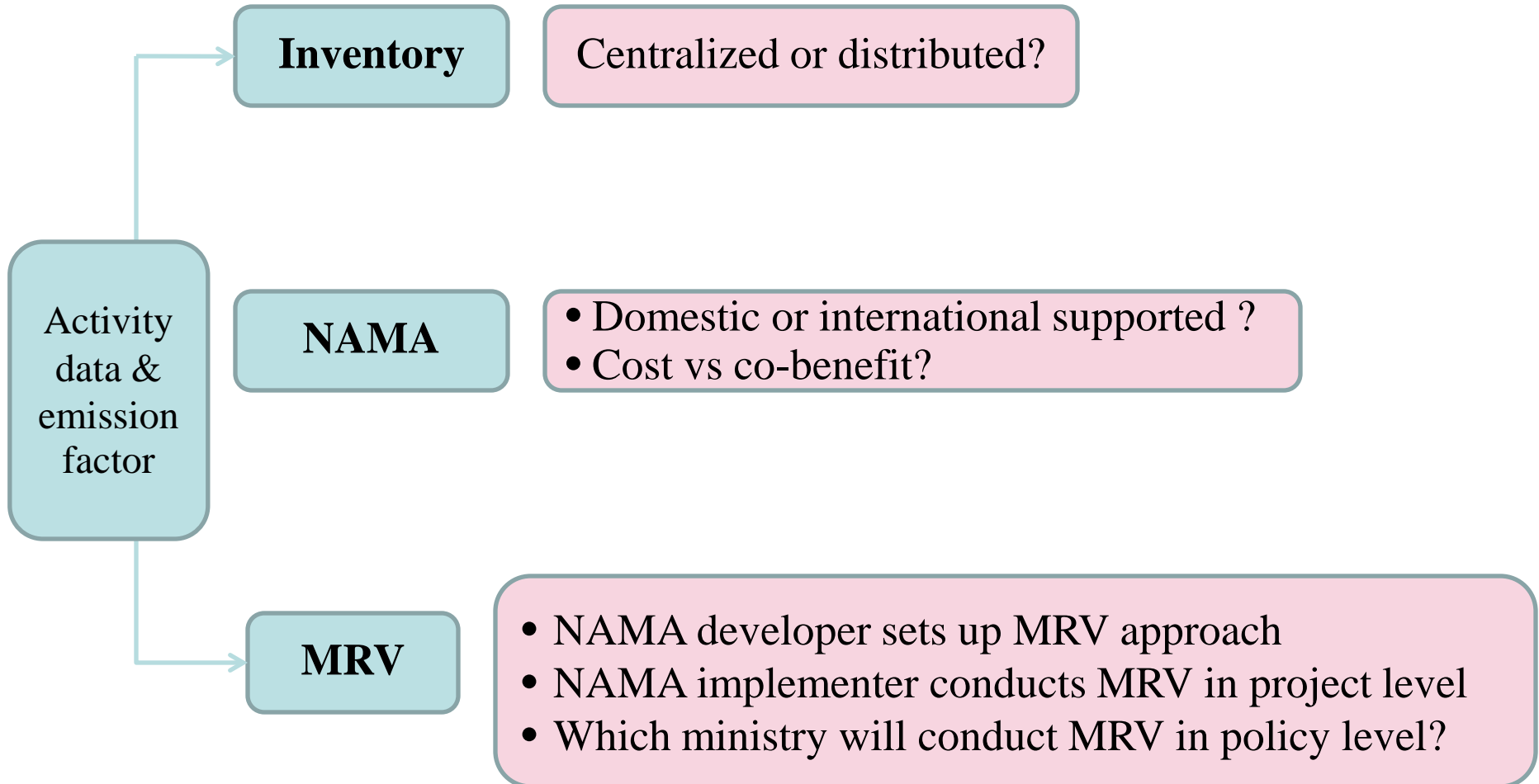
- Use of questionnaire and interview for waste disposal information (1xx proper sites)
- Data collection
- Interpret data
- Survey all of sites for cross check
- Use of survey data for improper sites

Reporting system



- 2,283 municipalities
- 5,492 subdistrict administrative organizations

Questions to answer before setting up institutional arrangement





Thank you



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