



# Inviting Citizens to Waste Management in Phnom Penh

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# Background: About CCET

## Institute of Global Environmental Strategies (IGES)

- International policy research institute
- Sustainability Research
- Founded in 1998
- HQ: Hayama, Japan



## UN Environment International Environmental Technology Centre (IETC)

- Branch of UN Environment, under Economy Division
- Global Centre of Excellence for Waste Management
- Osaka, Japan



## IGES Centre Collaborating with UNEP on Environmental Technologies (CCET)

- Established in March 2015 as a unit within IGES
- Waste Management Strategy
- knowledge products on waste management topics
- Outreach



# CCET– Project Activities Supporting IETC



## Development of National and City level Waste Management Strategies

- Cambodia / Phnom Penh
- Myanmar / Mandalay
- Maldives – Region 6 & 7



## Strengthening the Knowledge Hub and Academic Curriculum

- Case Studies
- Policy Reports
- Webinars



## Outreach and Partnerships for UNEP-IETC in Japan

- Events
- Publications
- Website

# SDGs and Waste and Resource Management



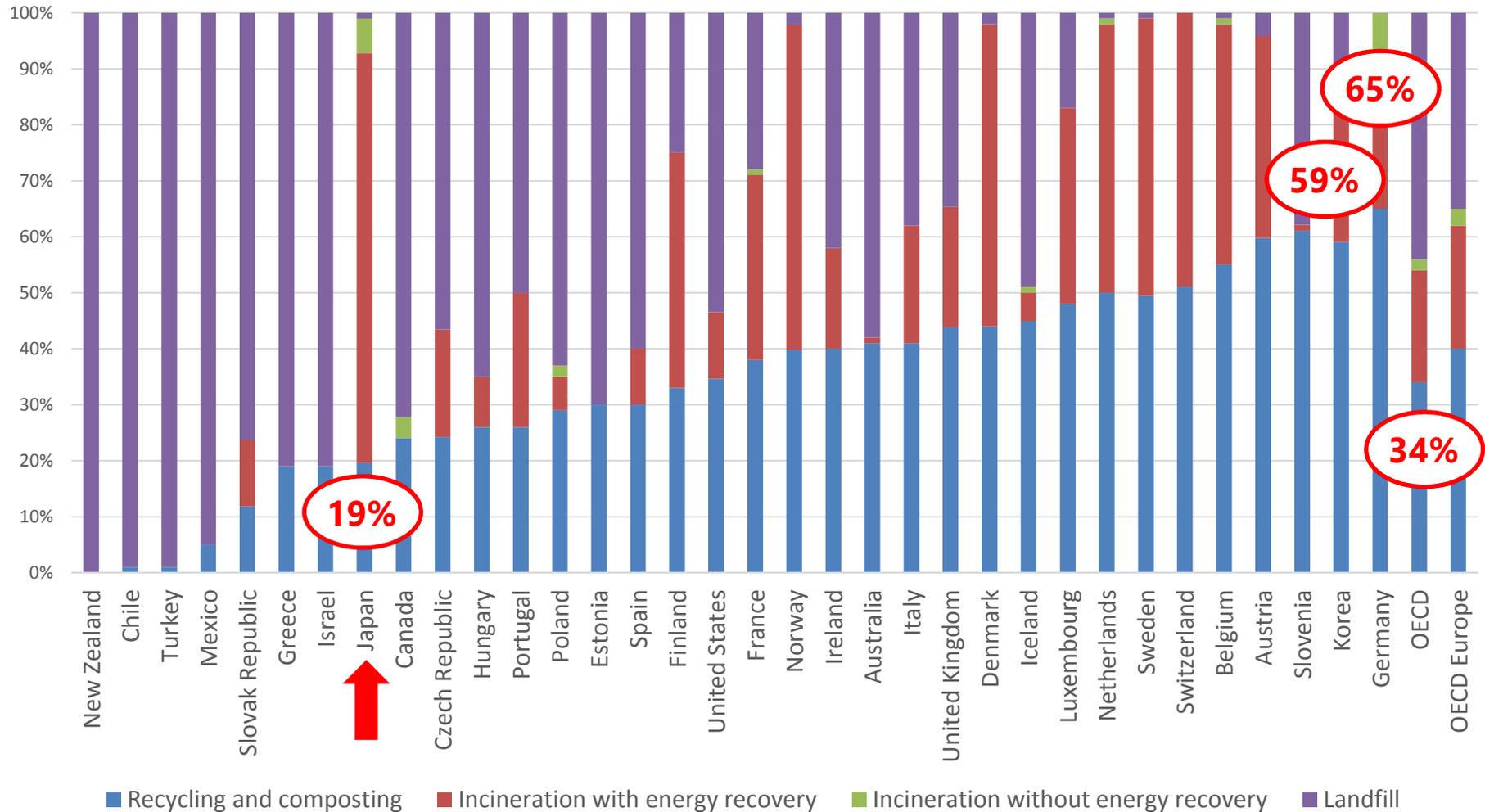
Source: United Nations Environment Programme (2017), "Asia Waste Management Outlook"

# SDGs and Waste and Resource Management



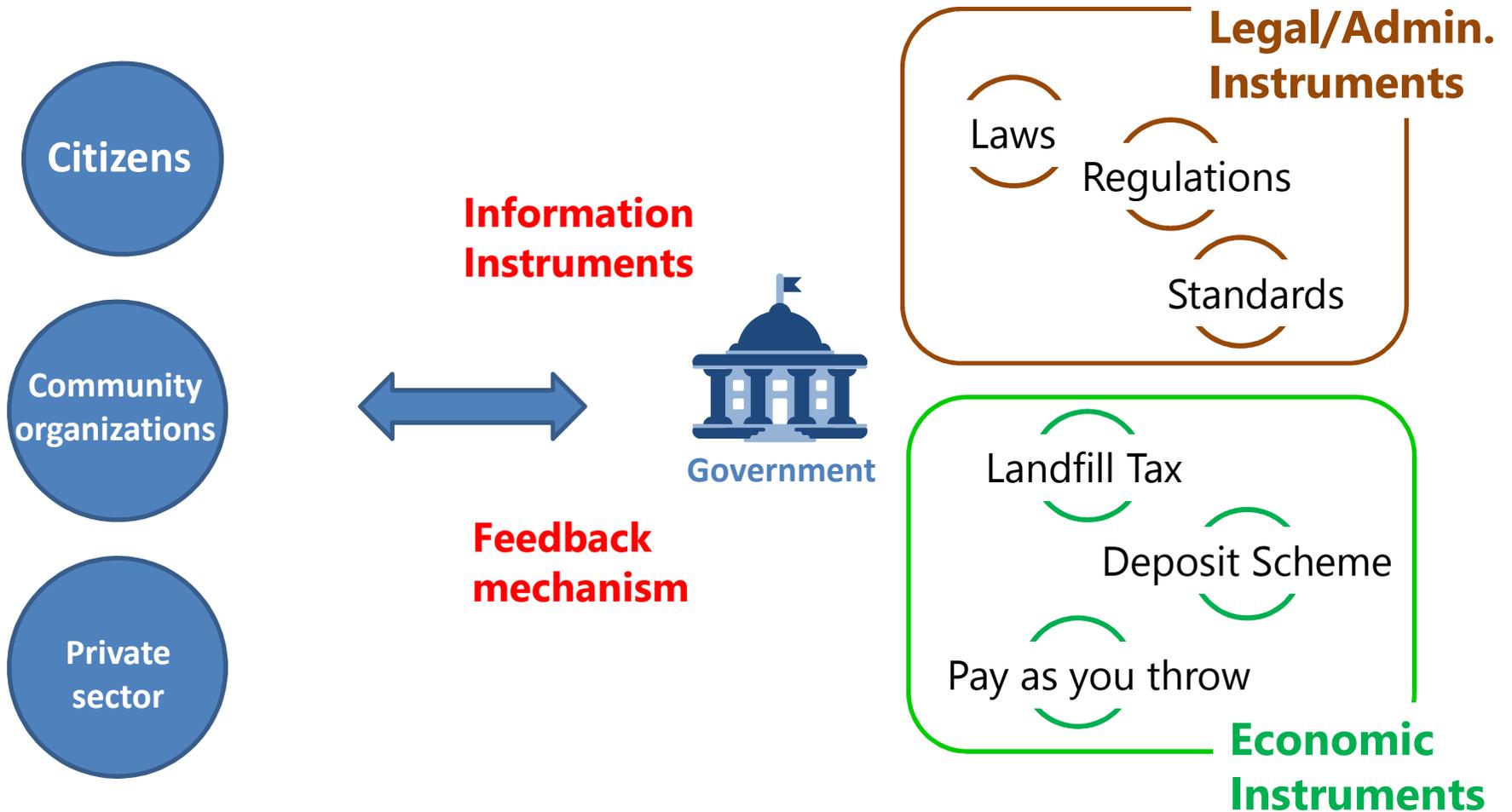
Source: United Nations Environment Programme (2017), "Asia Waste Management Outlook"

# All Countries need to Go One Step Further

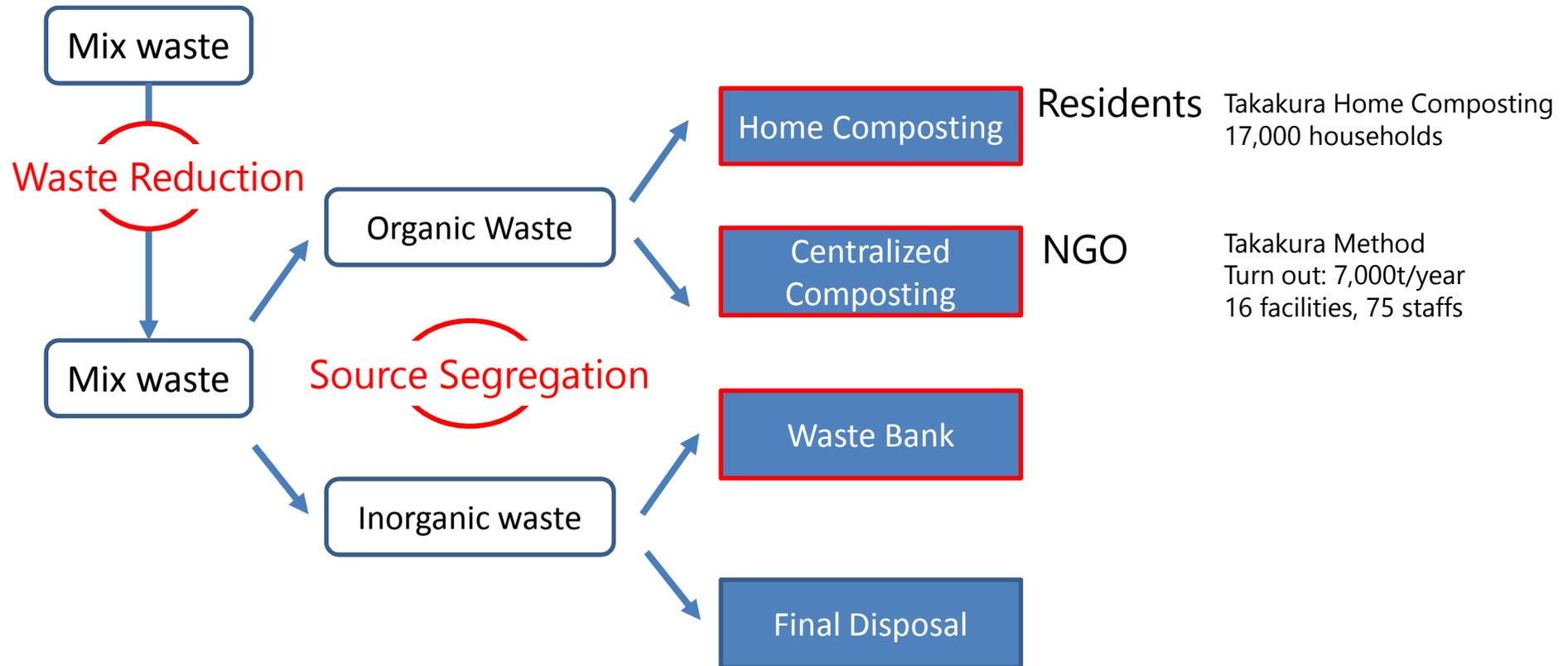


Source: OECD (2015), "Municipal Waste", OECD Environment Statistics (database)

# Policy Instruments for Sustainable Waste Management



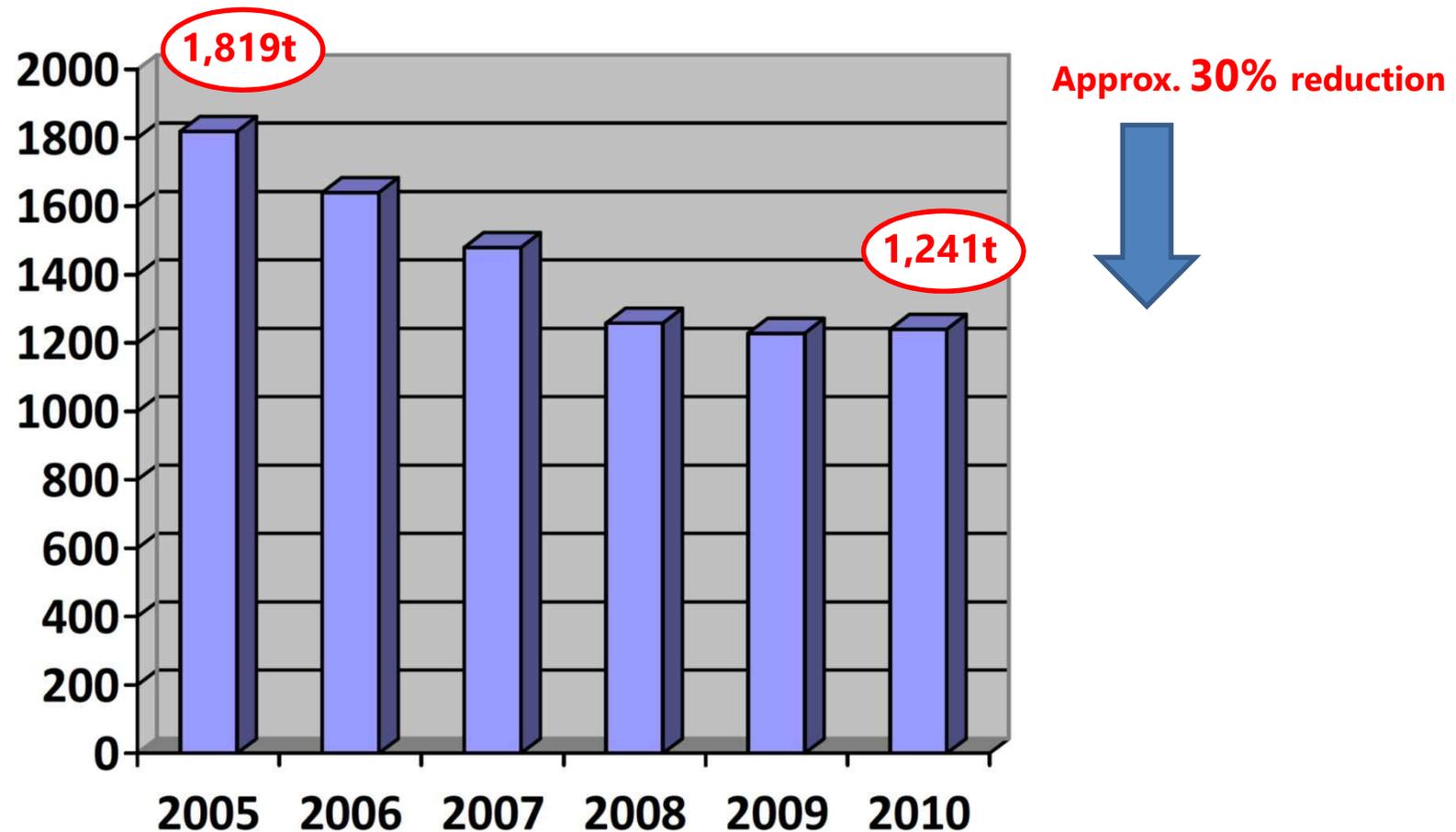
# Waste Initiative by Surabaya City, Indonesia



Source: Developed by author based on D.G.J. Premakumara (2013), "Kitakyushu City's International Cooperation for Organic Waste Management in Surabaya City, Indonesia and Its Replication in Asian Cities"

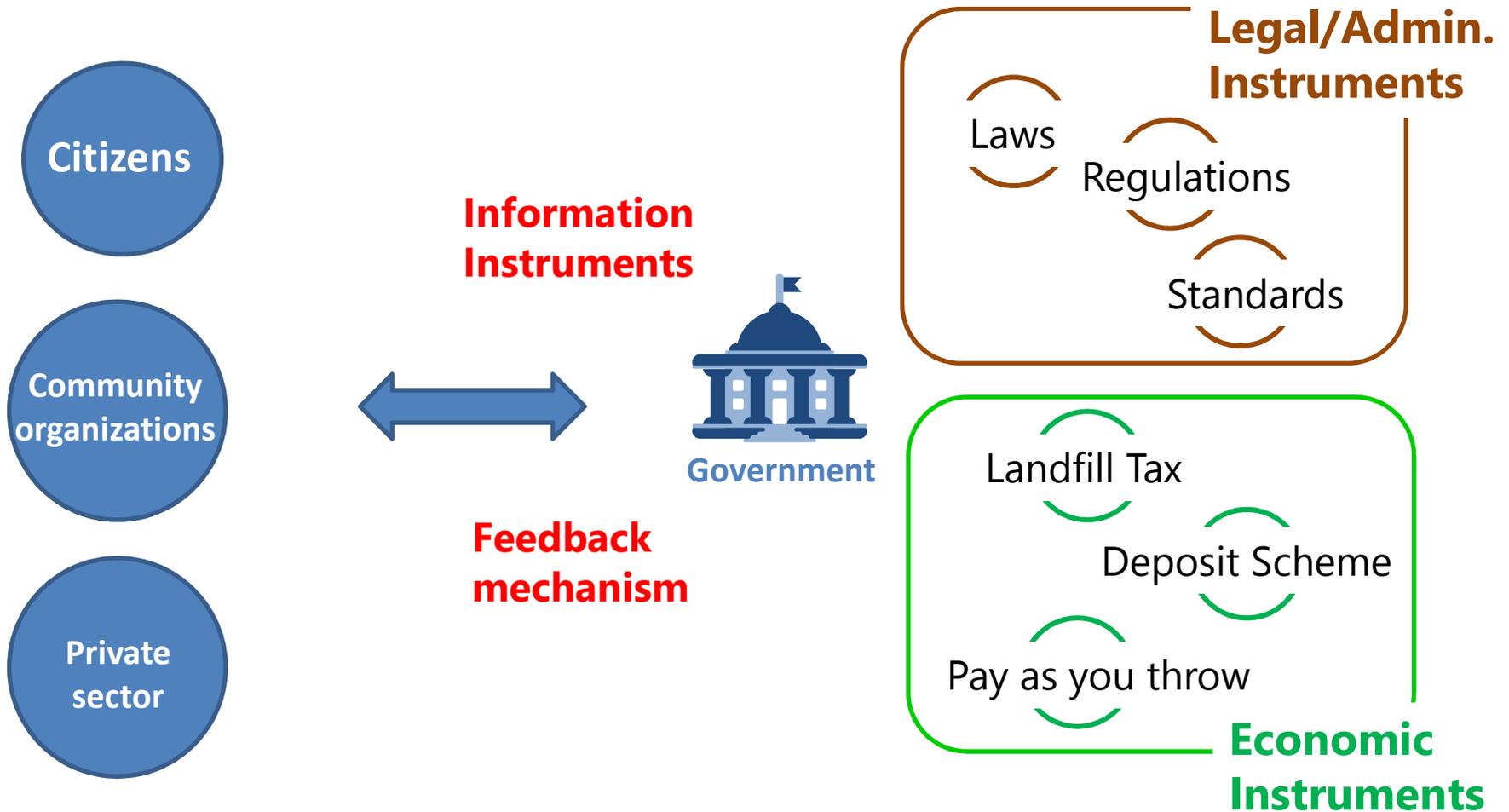
# Surabaya's Success in Waste Reduction

Transition of daily incoming waste amount at the final disposal site

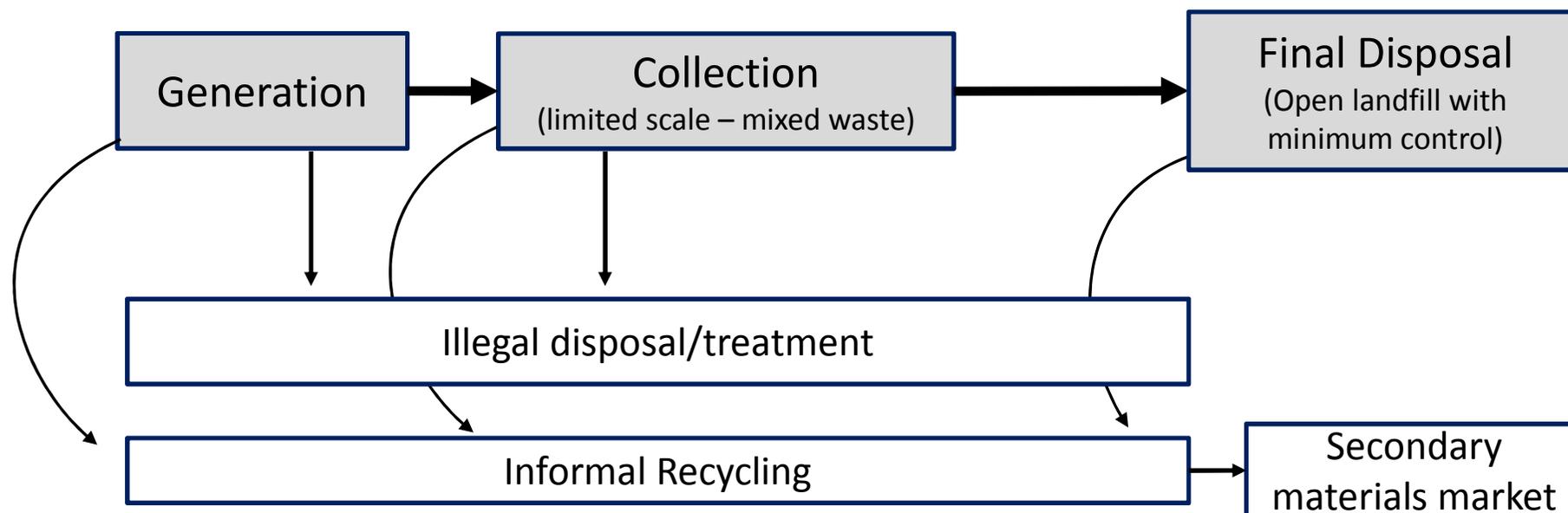


Source: D.G.J. Premakumara (2013), "Kitakyushu City's International Cooperation for Organic Waste Management in Surabaya City, Indonesia and Its Replication in Asian Cities"

# Policy Instruments for Sustainable Waste Management

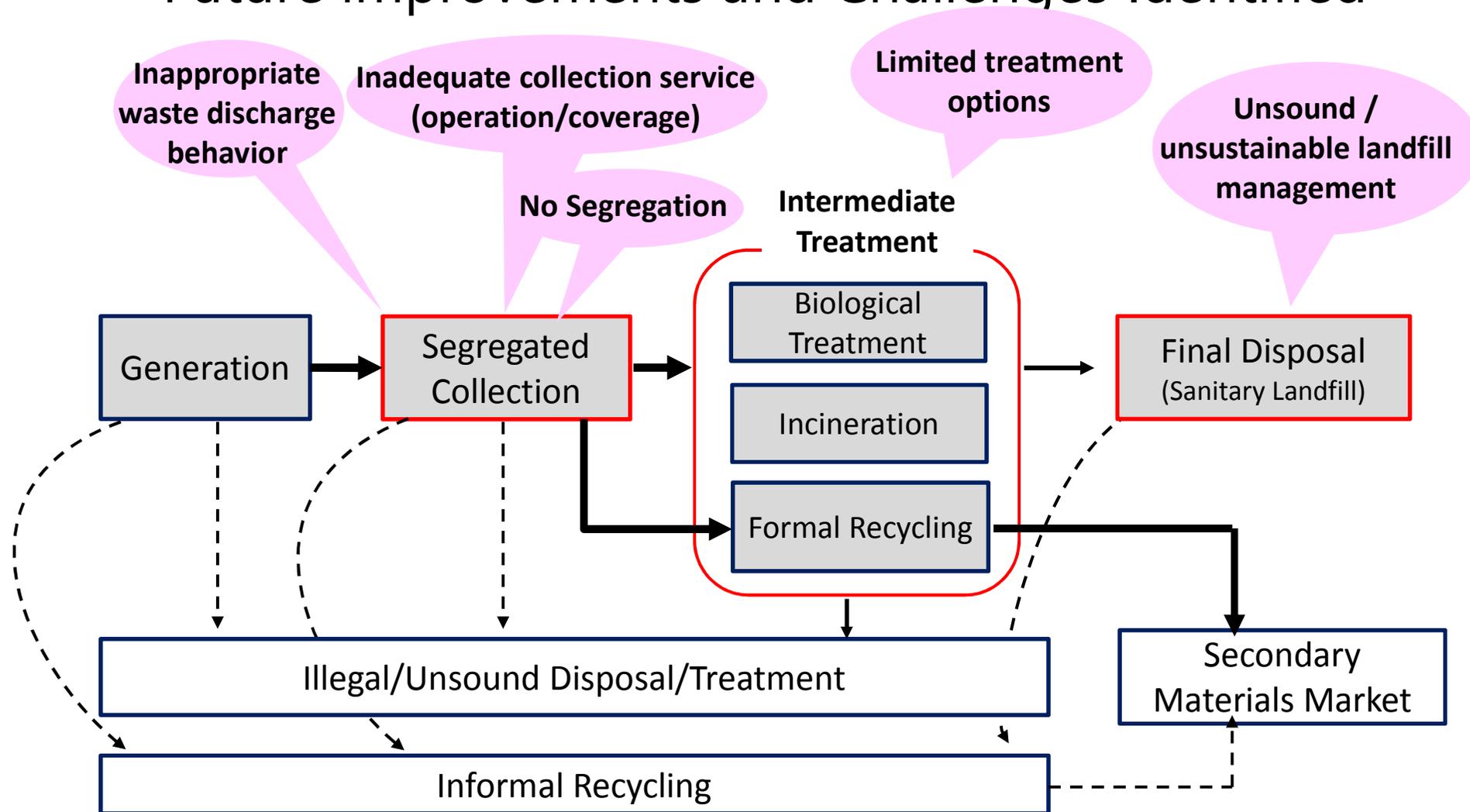


# State of Waste Management in Phnom Penh



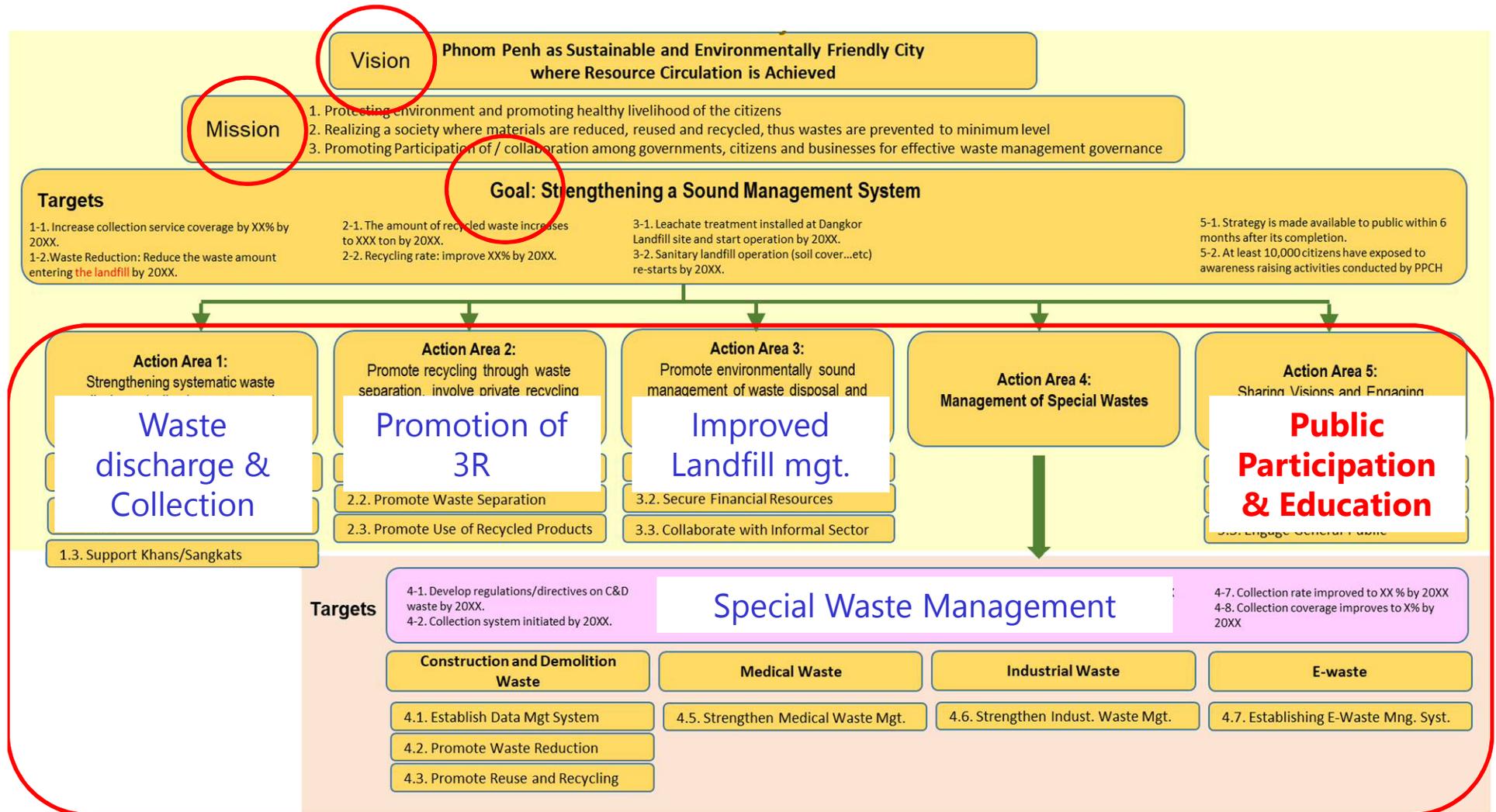
Source: Modified by author based on Yagasa, Hengesbaugh (2018), "Major Treatment and 3R-rRelated Technologies for MSW" in "State of the 3Rs in Asia and the Pacific – Experts' Assessment of Progress in Hanoi 3R Goals –"

# Future improvements and Challenges Identified



Source: Modified by author based on Yagasa, Hengesbaugh (2018), "Major Treatment and 3R-rRelated Technologies for MSW" in "State of the 3Rs in Asia and the Pacific – Experts' Assessment of Progress in Hanoi 3R Goals –"

# Five Pillars of Strategy for addressing Challenges





## *Action Area 5: Sharing Vision for Collective Action*

### Action 5.1.

Promote Citizen Participation in Waste Management Planning

### Action 5.2.

Engage the Youth through Environmental Education

### Action 5.3.

Engage and Develop Capacity of General Public and Private Sector

## Action 5.1.



# Promote Citizen Participation in Waste Management Planning

### a. Promotion of information disclosure

- Publish relevant administrative documents

What? legislations, budget, annual reports, strategy  
separation/discharging rules

How? online, hardcopy

### b. Establishing feedback mechanism

- Organize public hearings and/or conduct opinion surveys
- Recruit (open recruitment), assign, and invite representative(s) of residents to key meetings on waste management.

## Action 5.2.

### Engage the Youth through Environmental Education



#### a. Co-develop school curriculum for environmental education

How? Collaborate with experts (university), and relevant public agencies  
Set vision, mission, goals....etc → time allotted? What materials to be used?

#### b. Develop educational materials

What? Waste management as environmental issue, the relation to the individuals, how students can address such issues...etc.

How? Text books, case studies, mini-books, leaflets, videos...etc.

#### c. Develop guidelines on teaching methods

How? Seek collaboration from expert in pedagogy

#### d. City Environment Award

What? School competition for promoting 3R (reduce, reuse, recycle)

## Action 5.2. Engage the Youth through Environmental Education



### e. Provide internships to high-school students

What? Internship opportunities in public agencies (Ministries, Departments, City Halls)

### f. Attach billboards, posters and signs around schools

What message should we deliver?

## Action 5.3.



# Engage and Develop Capacity of General Public and Private Sector

### a. Awareness raising events targeting citizens and public sector

- Environmental fair for promoting community recycling
- Education campaigns (door-to-door, public events)
  - >>> right “media-mix” for right targets
- Waste management training targeting public officers
- Engage waste management companies in awareness raising activities

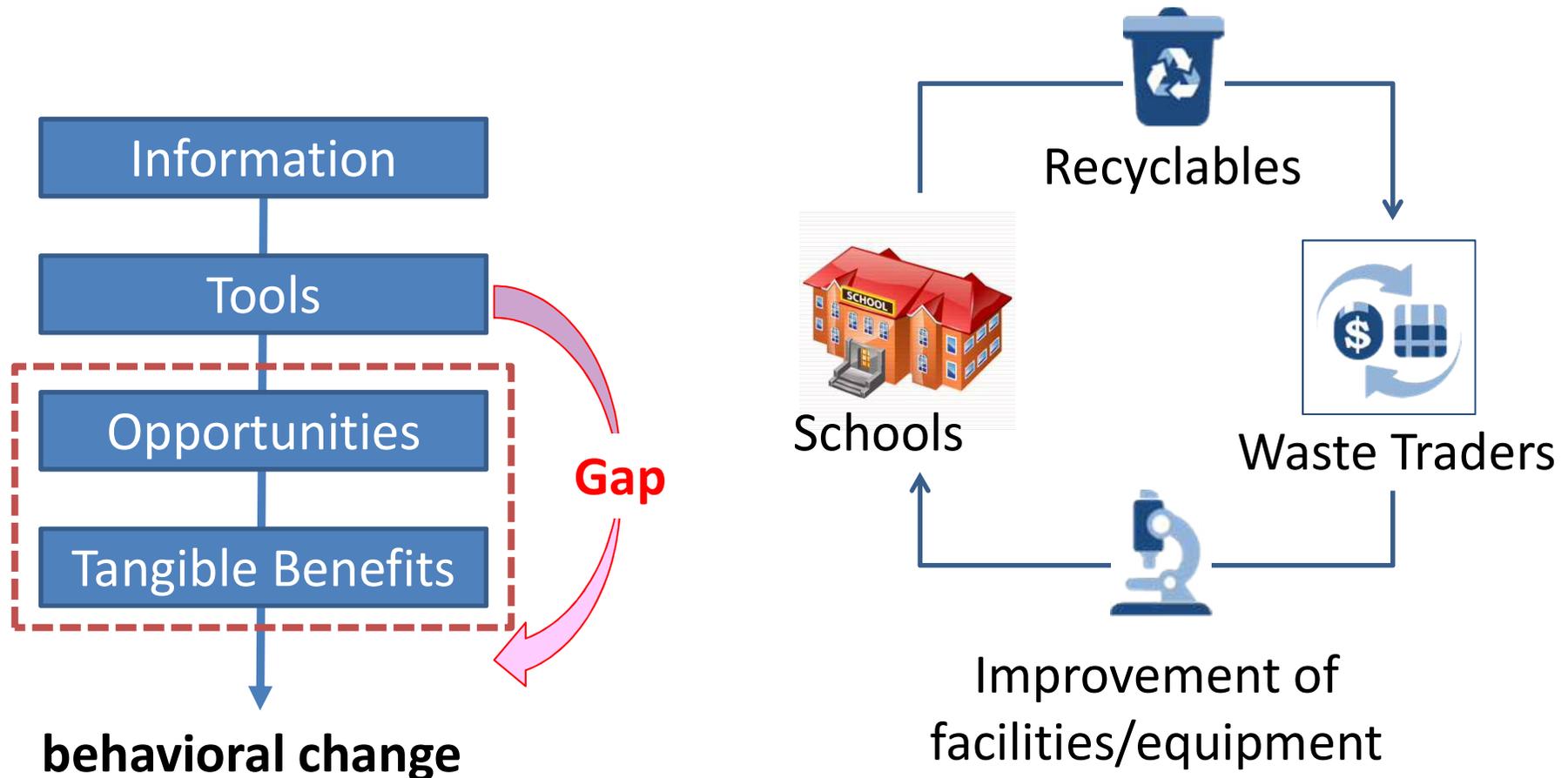
### b. Engage private sector by evaluating economic incentives and market strategies to encourage appropriate waste management behavior

### c. Clean Production Award

- Incentivizing promotion of clean production in different sector.
- Sector-specific award can be developed

# Draft Plan for Pilot Project in Phnom Penh

## Initiating Recycling Actions in Local Schools





## Key messages:

Promoting public participation through combination of different policy instruments is an effective strategy for addressing waste management challenges

Such ideas are embedded in the Draft Waste Management Strategy currently being developed by Phnom Penh City