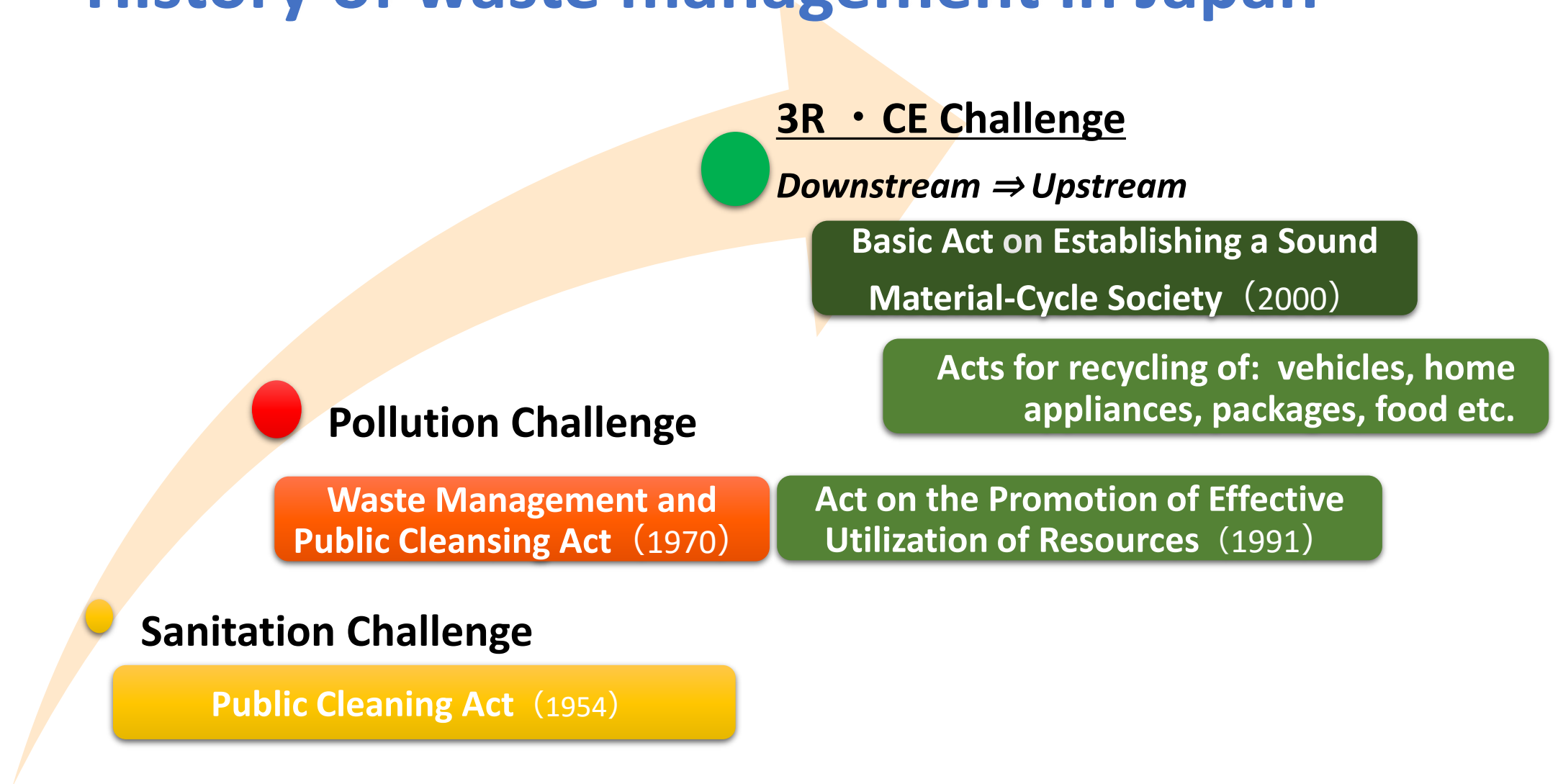


10th Regional 3R and Circular Economy
Forum In Asia and the Pacific

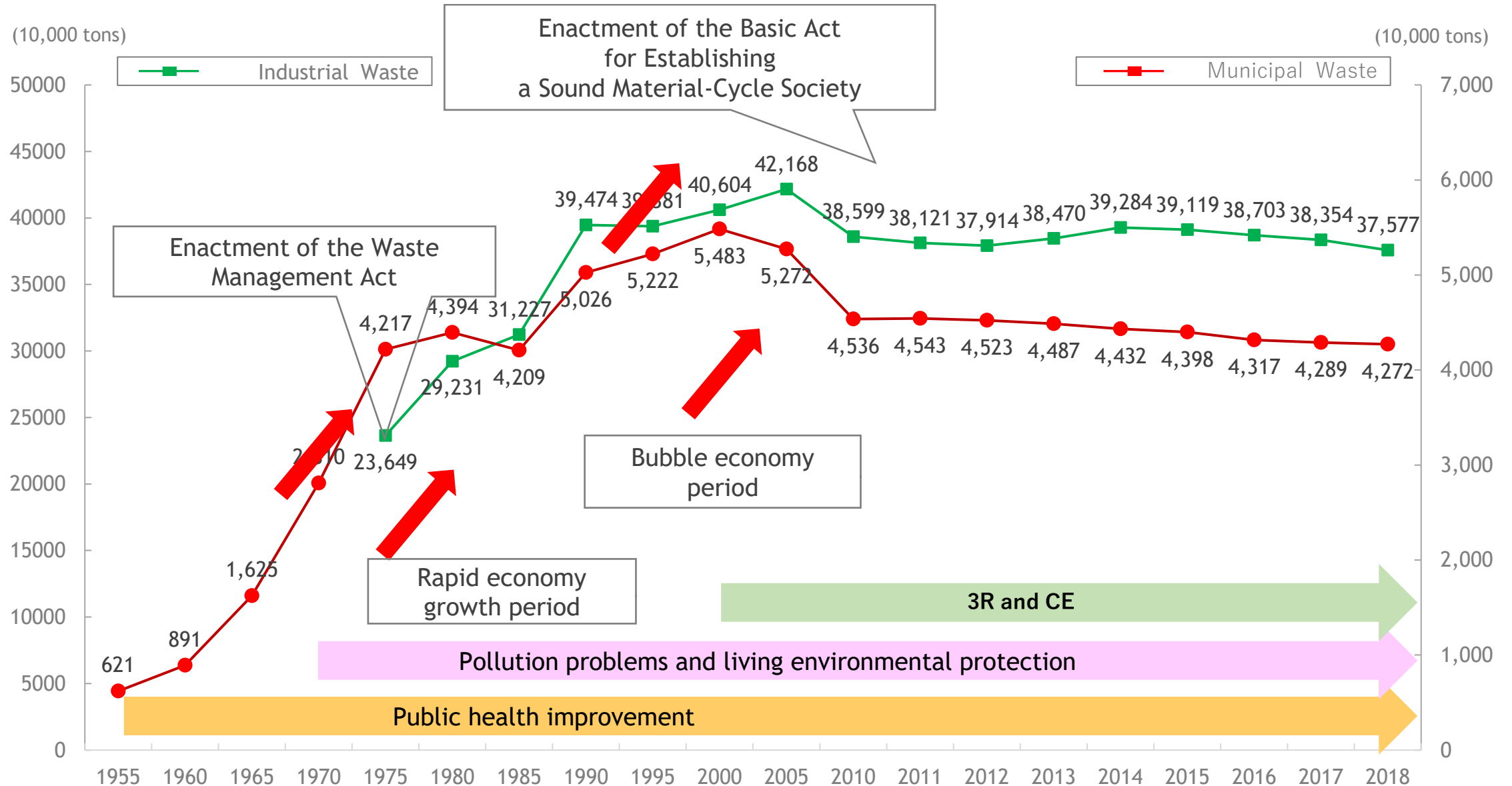
International Partnerships on 3R and Circular Economy in Asia and the Pacific

Shigemoto KAJIHARA
Japan Waste Research Foundation

History of waste management in Japan



Trends of Waste Generation & Policy Priority in Japan



Approaches & Actions for 3R & CE: Policy level

1. Clear/Ambitious/Long-term visions or targets setting
2. Common basis on which various stakeholders can discuss
 - ① Shared understanding of elements of CE concept (**language**)
 - ② Easy-understanding & simple yardsticks for actions
(**action-oriented criteria**)
 - ③ Information gathering and sharing based on their application
(**uniformed information**)
 - ④ Standardization/certification
3. Accumulation of **success stories = on-the-ground projects/businesses**
 - Ex: plastics, automobile, other specific product/waste
 - Ex: Matching, Sharing, Market research

Types of International Partnership on 3R ⇒ CE

◎National Government driven

◎Local Government driven



◎**Business driven**

◎Others



○Policy Development

○System Development

○Standardization



○**Project on the ground**

○**Information Sharing/Matching:
Success & Failure cases**

○Others

International Partnership

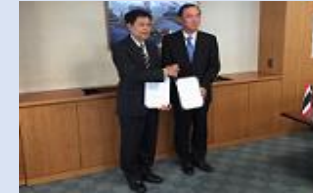
Government to Government: Japan's case

1 Bilateral Cooperation

Cooperation on waste management system

(Examples)

- Thailand: MOC on industrial waste with Thai Ministry of Industry
- Vietnam: Legislation on 3R and waste management
- Philippines: Guidelines for waste-to-energy etc.



2 Multilateral Cooperation

Regional 3R & CE Forum in Asia and the Pacific



African Clean Cities Platform(ACCP)

World Circular Economy Forum(WCEF)

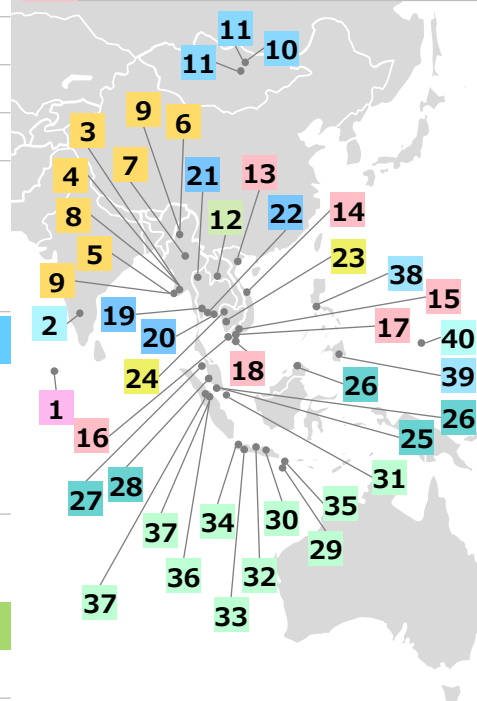
3 Technical and Project-based Cooperation

Joint Crediting Mechanism(JCM)

Participation by 13 countries 36 cities・regions Japan 14 local government

* Project in FY2020

Foreign city	Japanese city	Foreign city	Japanese city
Maldives			
1 Malé	Toyama		
India			
2 Bangalore	Yokohama		
Myanmar			
3 Yangon (region)	Kitakyushu		
4 Yangon(city)	Kawasaki		
5 Ayeyarwady	Fukushima		
6 Sagaing	Fukushima		
7 Mandalay	Kitakyushu		
8 Yangon City	Fukuoka		
9 Sagaing Region, Ayeyarwady Region	Fukushima		
Mongolia			
10 Ulaanbaatar	Sapporo・Hokkaido Government		
11 Ulaanbaatar city and Tuv	Sapporo		
Lao PDR			
12 Vieng chan	Kyoto		
Vietnam			
13 Hai Phong	Kitakyushu		
14 Da Nang	Yokohama		
15 Ho Chi Minh	Osaka		
16 Kiên Giang and others	Kobe		
17 Can Tho	Hiroshima		
18 Soc Trang Province	Hiroshima		



Foreign city	Japanese city	Foreign city	Japanese city
Thailand		Indonesia	
19 Bangkok (Bangkok Port・Laem Chabang Port)	Yokohama (Yokohama Port Pier)	29 Denpasar	Tokyo Union
20 Rayong	Kitakyushu	30 Surabaya	Kitakyushu
21 Chiang Mai	Kitakyushu	31 Batam	Yokohama
22 Eastern Thailand (EEC)	Osaka	32 Semarang※	Toyama
		33 Bandung	Kawasaki
Cambodia		34 Special Capital Territory of Jakarta	Kawasaki
23 Phnom Penh	Kitakyushu	35 Bali※	Toyama
24 Siem Reap	Kanagawa	36 Rokan Hulu, Riau	Kawasaki
Malaysia		37 Rokan Hulu Regency and Pekanbaru City	Kawasaki
25 Iskandar Development Area	Kitakyushu	※Joint project for Bali and	
26 Iskandar Development Area ・ Kota Kinabalu	Toyama	Philippines	
27 Penang and others	Kawasaki	38 Quezon	Osaka
28 Kuala Lumpur	Tokyo	39 Davao	Kitakyushu
		Palau	
		40 Koror	Kitakyushu
		Chile	
		41 Renca, Santiago	Toyama

International Partnership: Project-based/Business-driven

Example: FS supported by MOEJ 2018-2019

- | | | | |
|---|-------------------------------------|---|---|
| 1 | Vietnam (Methane fermentation) | 1 | Thailand (Municipal solid waste recycle) |
| 2 | India(WtE) | 2 | Indonesia(Tyre Recycle (Tharmal recycle)) |
| 3 | Vietnam(Hazardous sludge treatment) | 3 | Indonesia (WtE) |
| 4 | Lao (Rice husk fueling) | 4 | Oman(E-waste Recycle) |
| 5 | Vietnam (WtE) | 5 | Vietnam (WtE) |
| 6 | Myanmar (WtE) | | |
| 7 | Australia (WtE) | | |

