3Rs & Waste Management in Tokyo





Waste Management Division
Bureau of the Environment
Tokyo Metropolitan Government

Mr. Motoaki Sakakibara 12th November, 2012



- 1. CITY PROFILE
- 2. Waste/Recycling Related Laws
- 3. DVD

3Rs & WASTE MANAGEMENT IN TOKYO





TOKYO

神津島村 三宅村

(C)INCREMENT P CORP.

1. City Profile



Tama area

Area: 1160 km²

Population: 4,175,997

青ケ島村

No. of municipalities: 30

23-ward area

Area: 622 km²

Population: 8,846,996

No. of municipalities: 23



小笠原村

沖ノ島島

Izu/Ogasawara islands

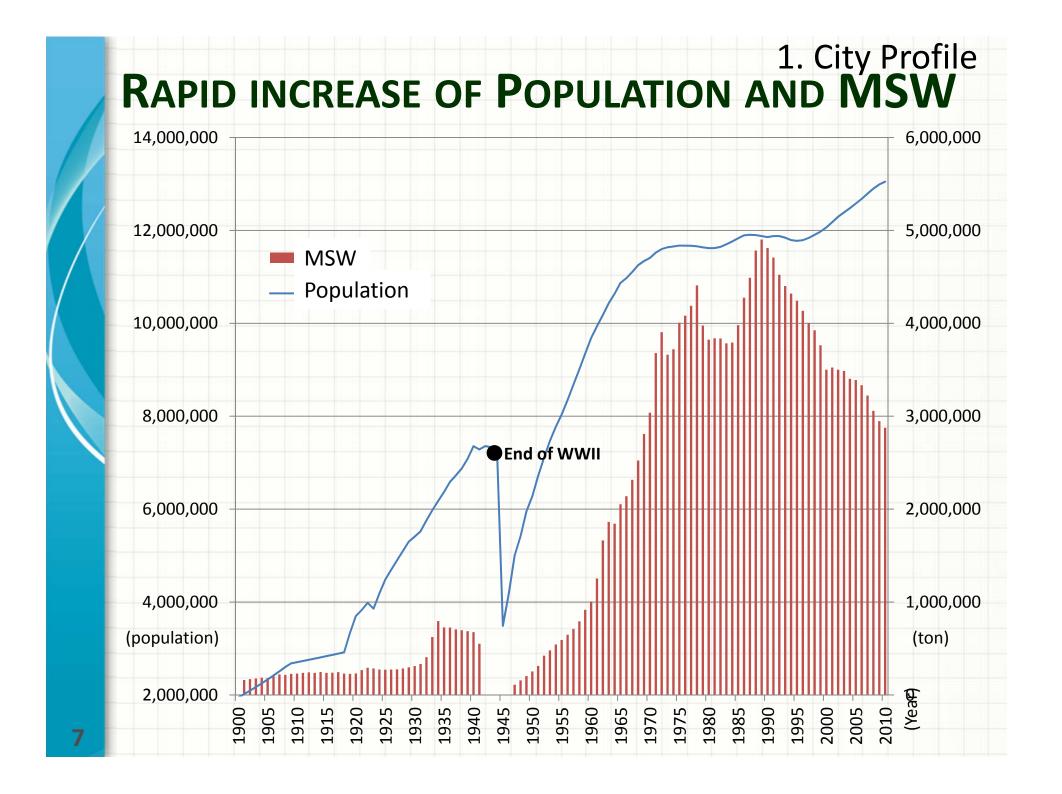
Area: 406 km²

Population: 27,461

No. of municipalities: 9



1. City Profile WASTE GENERATION IN TOKYO 76,500t/day MSW : 13,000t/d Industrial: 63,500t/d Municipal **Solid** Waste **17**% **Industrial** Waste 83% In 2009



1. City Profile [BIGGEST CHALLENGE] LACK OF LAND FOR FDS



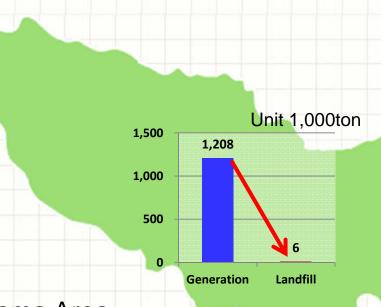
FDS IN TOKYO BAY



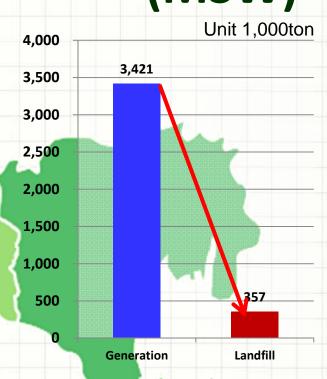
- 1927-1962
- 21957-1966
- 31965-1974
- 41973-1986
- **⑤**1977-
- 61984-1991
- 71998-



1. City Profile REDUCTION OF FINAL DISPOSAL AMOUNT (MSW)



Tama Area
1,160km²
4 million people



Central Area
622km²
9 million people

1. City Profile

13,000T/D

MSW IN TOKYO

Municipal
Waste
17%

Industrial Waste
83%



Waste generated by

- Households
- Small businesses

Managed and disposed by

Municipal Government

1. City Profile

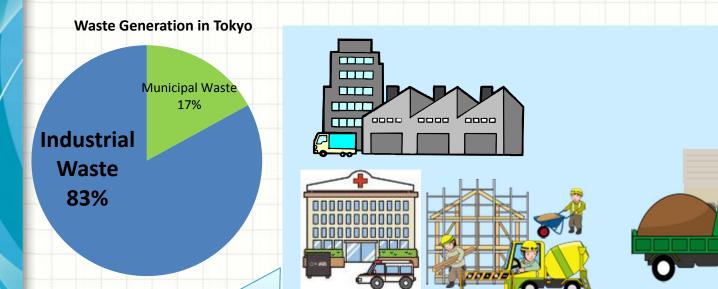
MSW MANAGEMENT

- Each municipal government has responsibility for MSW management
- Providing careful services to residents



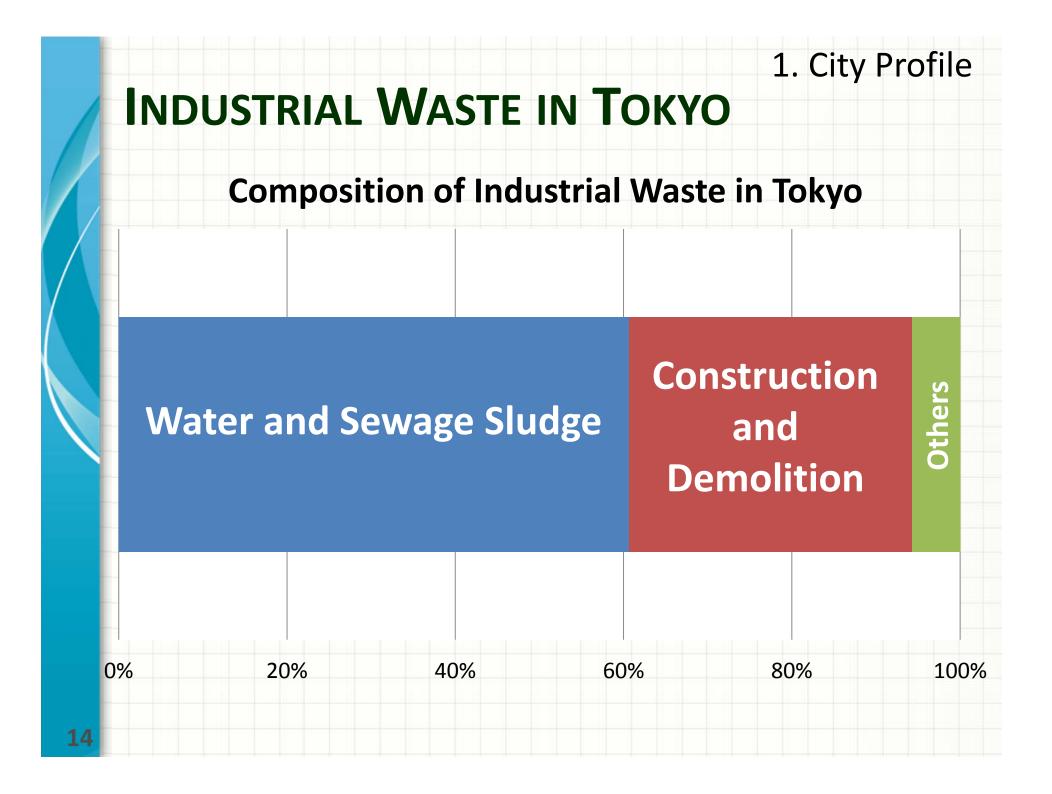
INDUSTRIAL WASTE IN TOKYO

City Profile
 63,500T/D



Generator has responsibility for proper disposal

Disposed by private sector licensed by Prefectural Government



2. WASTE/RECYCLING RELATED LAWS

WASTE/RECYCLING RELATED LAWS

Basic Law for Establishing the Recycling-Based Society

(Stipulating Basic Philosophy for Establishing the Recycling-Based Society)

Law for the Promotion of Effective Utilization of Resources

Waste Disposal and Public Cleansing Law

Containers and Packaging Recycling Law

Home Appliances Recycling Law

Food Recycling Law

Construction Materials Recycling Law

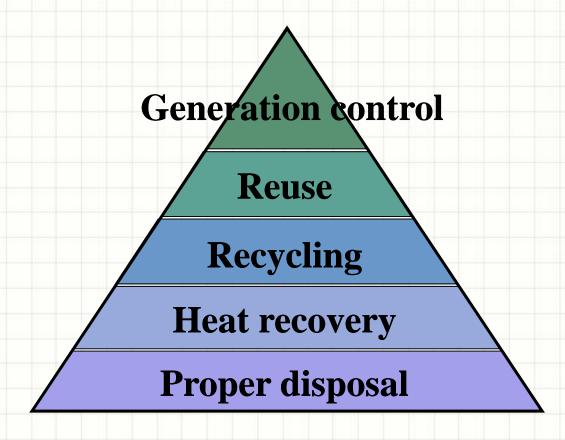
End-of-life Vehicle Recycling Law

Small Electric devices Recycling Promotion Law(2013.4-)

2. Laws

5 PRIORITY RANKS

Basic Law for Establishing the Recycling-Based Society



The hierarchy ranks waste management options according to their environmental benefits. These options should be taken, in this order, whenever environmentally beneficial and economically viable.

2. Laws WASTE DISPOSAL AND PUBLIC CLEANSING LAW

Definition of waste in the law

Waste

Municipal Solid Waste

Waste other than industrial waste (domestic waste, night soil, etc.)

Household Waste

Municipal Waste from Business Offices

Industrial Waste

20 items including sludge, waste plastic, waste oil, debris, etc.

Special Controlled Waste

Some waste items, such as PCB, asbestos, infectious waste, and explosives, are classified as general or industrial waste under special control. They are obliged to be kept under strict control.

2. Laws

WASTE DISPOSAL AND PUBLIC CLEANSING LAW

Duty of each body stated in the law

Nation level

- Establish basic policies,
- Formulate waste disposal standards,
- Provide support to prefectures/municipalities, etc.

Prefecture level

- Establish waste management plan,
- Provide control/guidance for appropriate disposal of industrial waste,
- Give licenses to industrial waste disposal contractors and approve construction of waste management facilities,
- Provide support to municipalities, etc.

Municipal level

- Establish general waste management plan,
- Treat general waste according to general waste management plan,
- Give licenses to general waste disposal contractors, etc.

2. Laws OBLIGATION OF MAKING A MSW DISPOSAL PLAN

In the Waste Disposal and Public Cleansing Law

Prefectural Plan

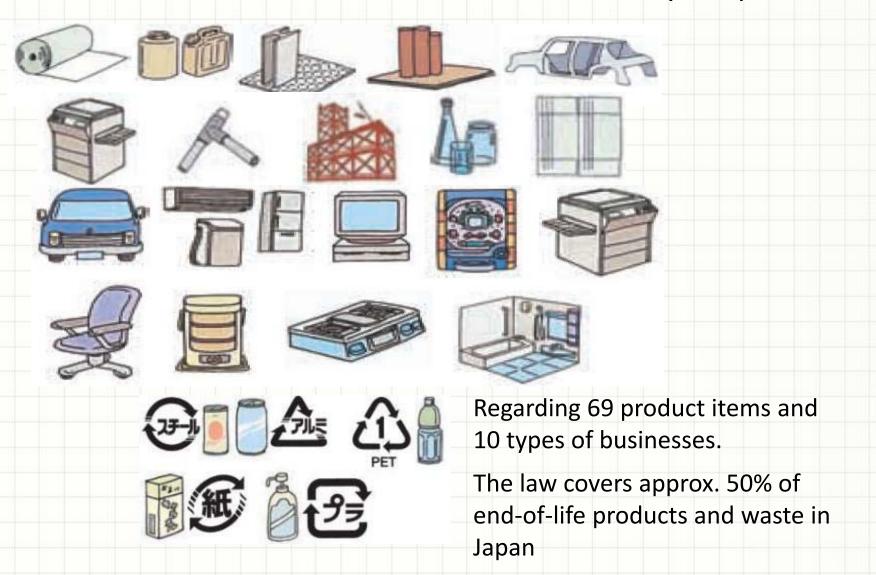
- Estimates amount of waste generation/treatment,
- Establishes basic policies related to reduction and treatment,
- Ensures proper management of general waste,
- Improves industrial waste management facilities, etc.

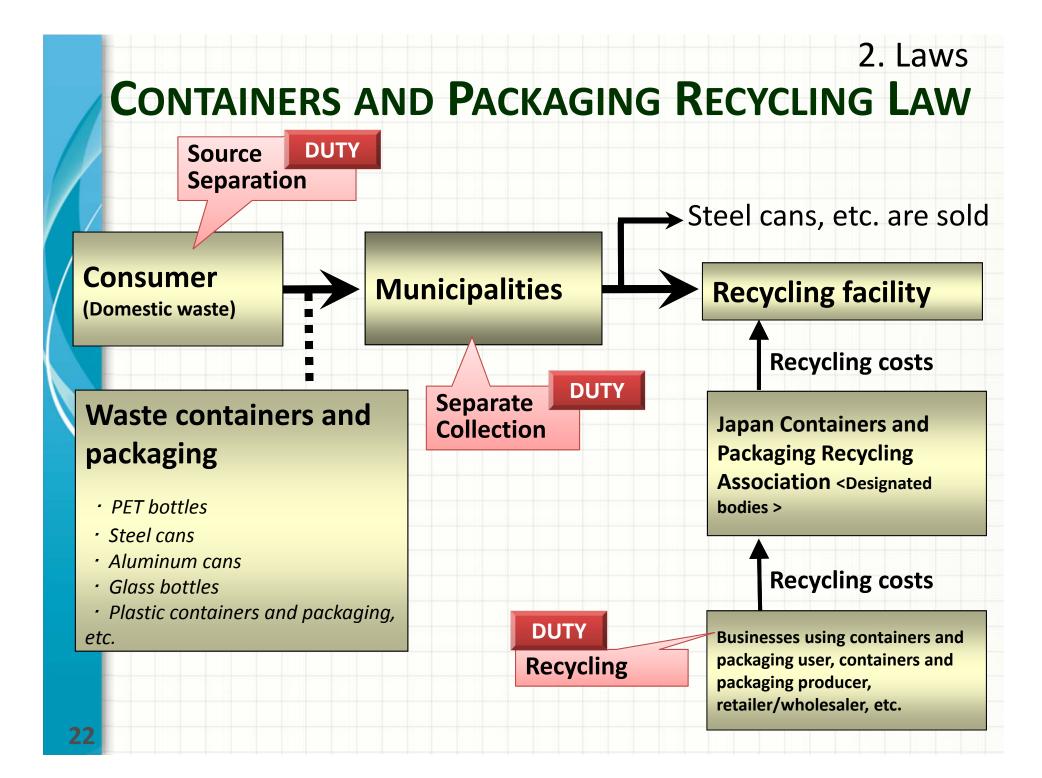
Municipal Plan

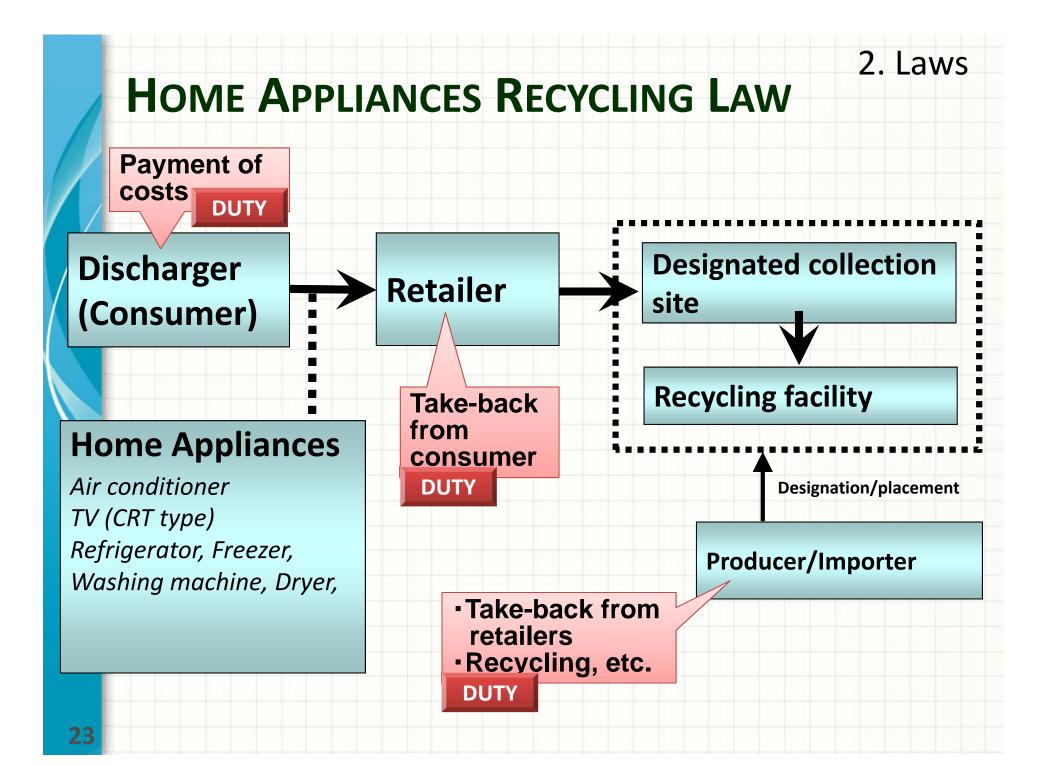
- Estimates amount of waste generation/treatment,
- Takes waste control measures,
- Classifies waste for sorting,
- Treats waste properly,
- Improves waste management facilities, etc.

LAW FOR 2. Laws THE PROMOTION OF EFFECTIVE UTILIZATION OF RESOURCES

It states the standards of 3R efforts to be made by the producers

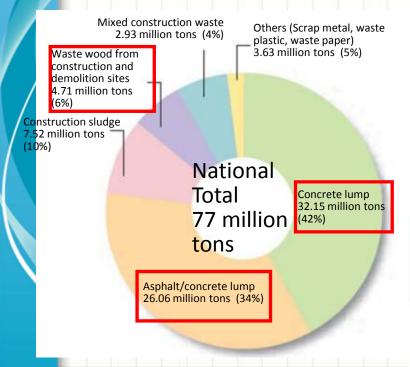






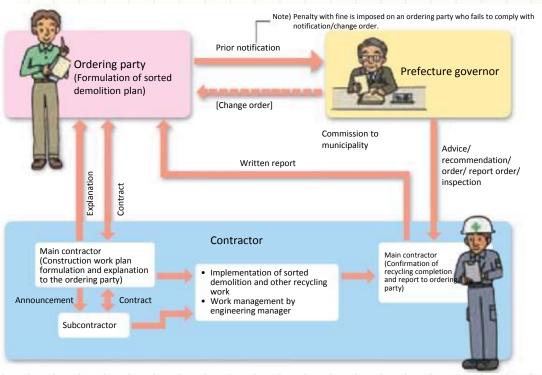
2. Laws

CONSTRUCTION MATERIALS RECYCLING LAW



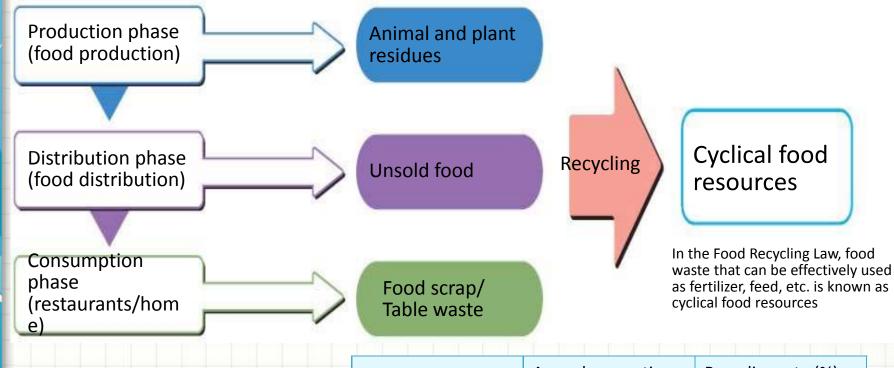
Items to be recycled

Order/implementation flow of sorted demolition/recycling



2. Laws

FOOD RECYCLING LAW



	Annual generation (10,000 tons)	Recycling rate (%)	
Food producer	493	81	
Food wholesaler	74	62	
Food retailer	263	35	
Restaurants	305	22	
Food industry total	1,134	54	

END-OF-LIFE VEHICLE RECYCLING LAW

2. Laws



Vehicle owner (Final owner)
Pay recycling fee; Deliver an end-of-life vehicle to the receiver registered with the municipality



■ Receiver

Receives ELVs from the final owner, and delivers them to fluorocarbon recovery operators or dismantlers.

- Fluorocarbon recovery operator
 Recovers fluorocarbons and delivers it to automobile manufacturers or importers.
- Dismantler
 Dismantles ELVs, recovers airbags, and delivers them to automobile manufacturers or importers.
 Recovers fluorocarbons and delivers them to automobile manufacturers or importers.
- Shredder operator
 Shreds dismantled ELVs, and delivers shredder dust to automobile manufacturers or importers.



■ Automobile manufacturer/importer

When vehicles they produced or imported are scrapped, they take over shredder dust, airbags, and fluorocarbons generated from the ELVs, and recycle them

It's NEW!

SMALL ELECTRONIC DEVICES RECYCLING PROMOTION LAW



From April 2013

Background

Limitation of Natural Resources

-Escalating price of resources

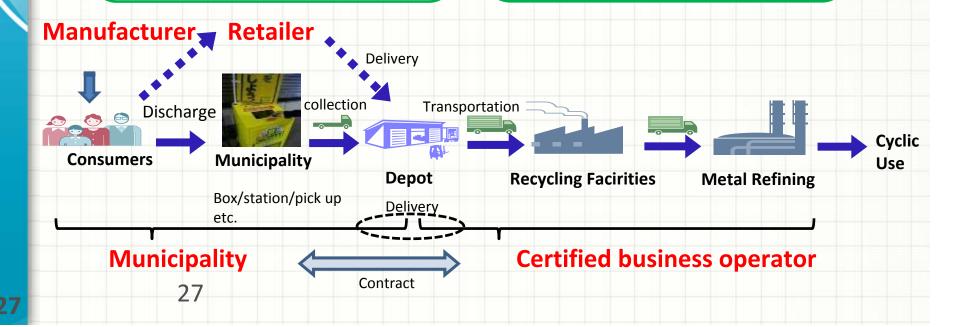
Limitation of Environment

- -Lack of land for final landfill site
- -Proper management of the environment

Concept

Non mandatory scheme

Provide guideline, set up necessary procedure for each sector In order to promote recycling of precious metals used in small electronic devices









Thank you for your attention!