Policy of sewerage development in Japan and international technical cooperation

Sewerage and Wastewater Management Department

Ministry of Land, Infrastructure, Transport and Tourism (MLIT)

Today's Topics

- Sewerage development history in Japan
- International technical cooperation on sewerage

Riverside in Tokyo today

Photo Credit : Tokyo Metropolitan Government

Water Pollution of Tokyo in 1970's

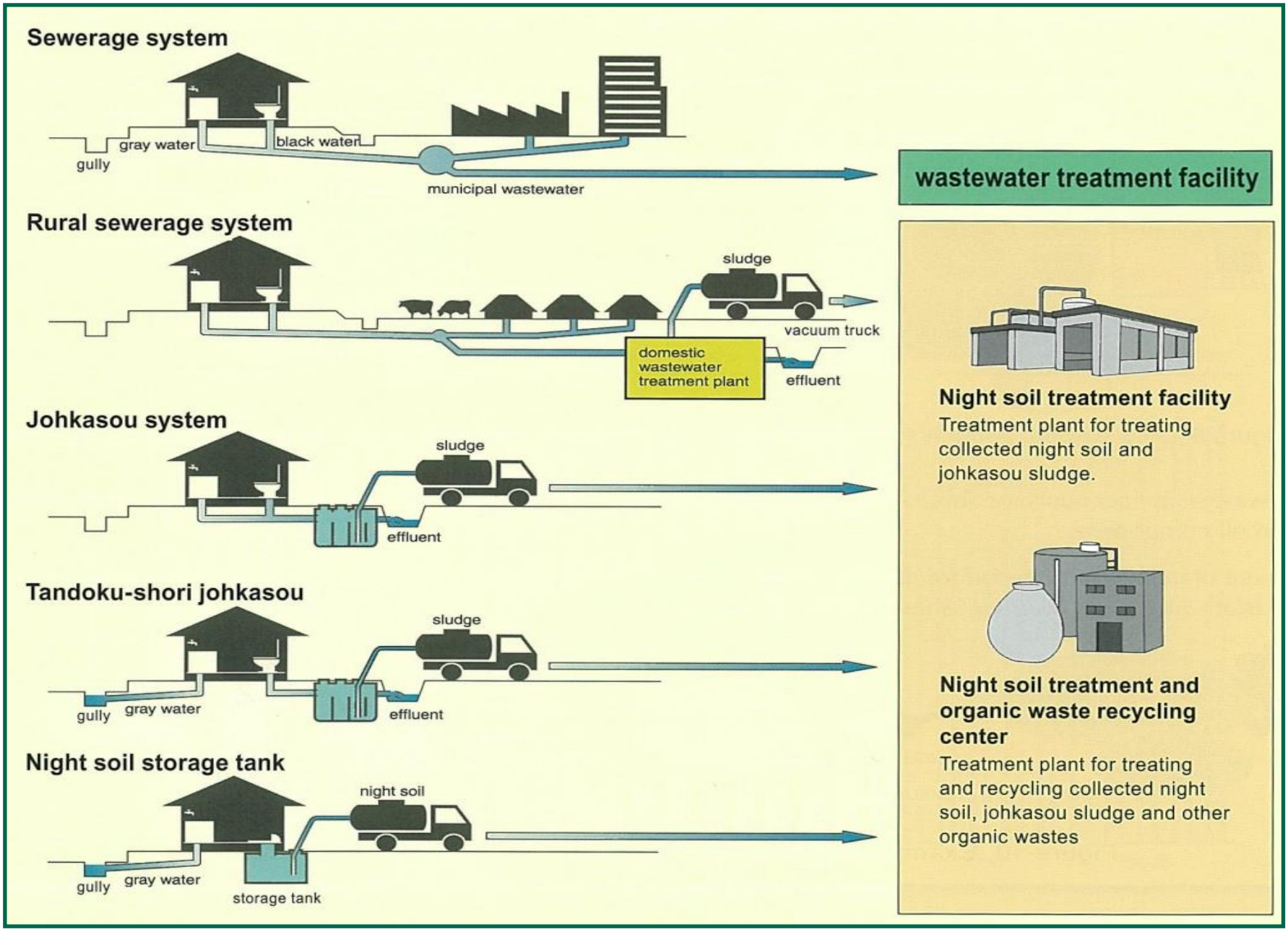
Tokyo Bay

A river in Tokyo

The Kanda River (Tokyo)

Photo Credit : Environmental Bureau of the Tokyo Metropolitan Government

Sewerage and Wastewater Treatment Systems in Japan



Master Plan of wastewater treatment facilities

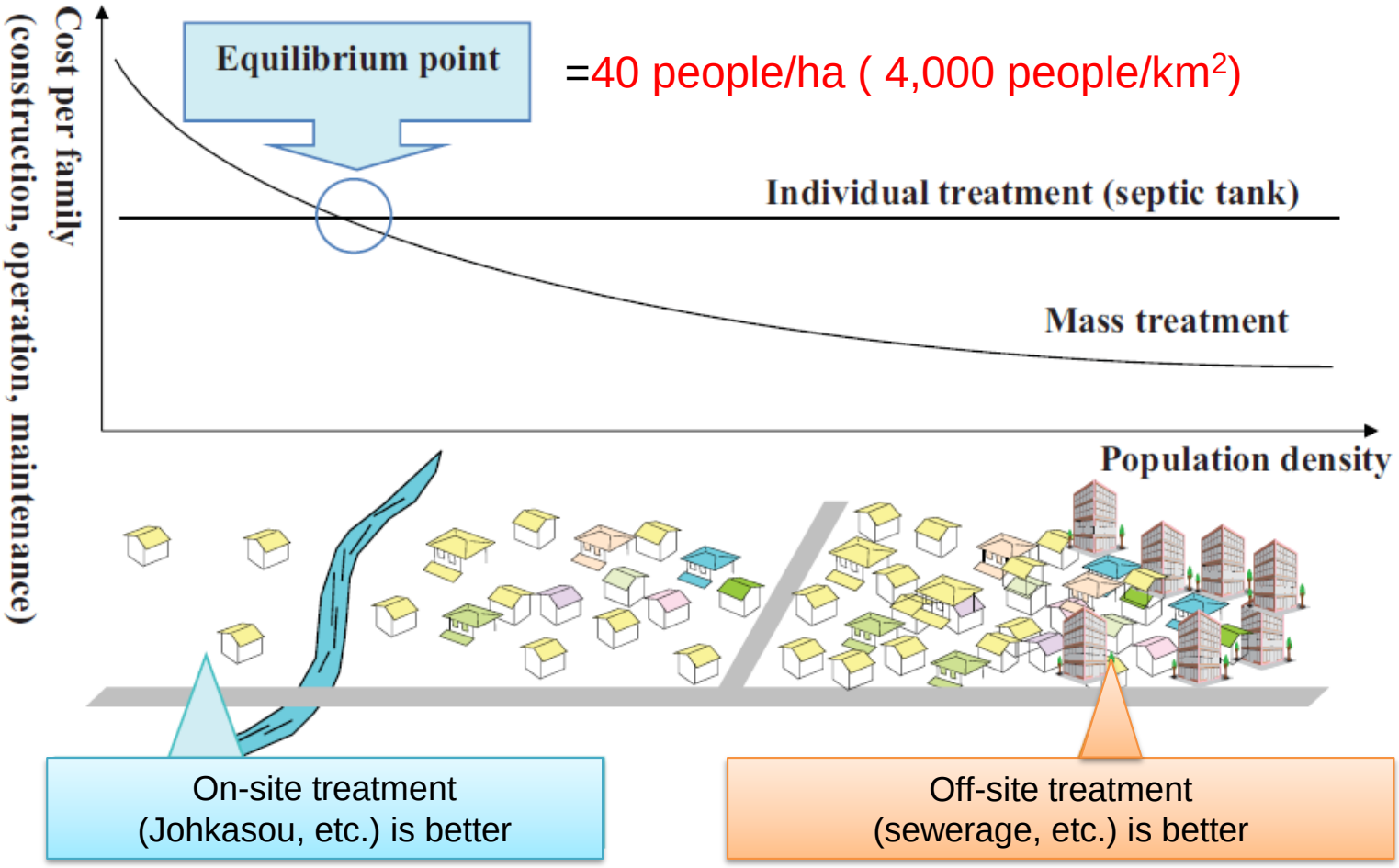
Rural sewerage system is wastewater treatment facility in rural area.

Johkasou system is wastewater treatment facility in an area of low population density.

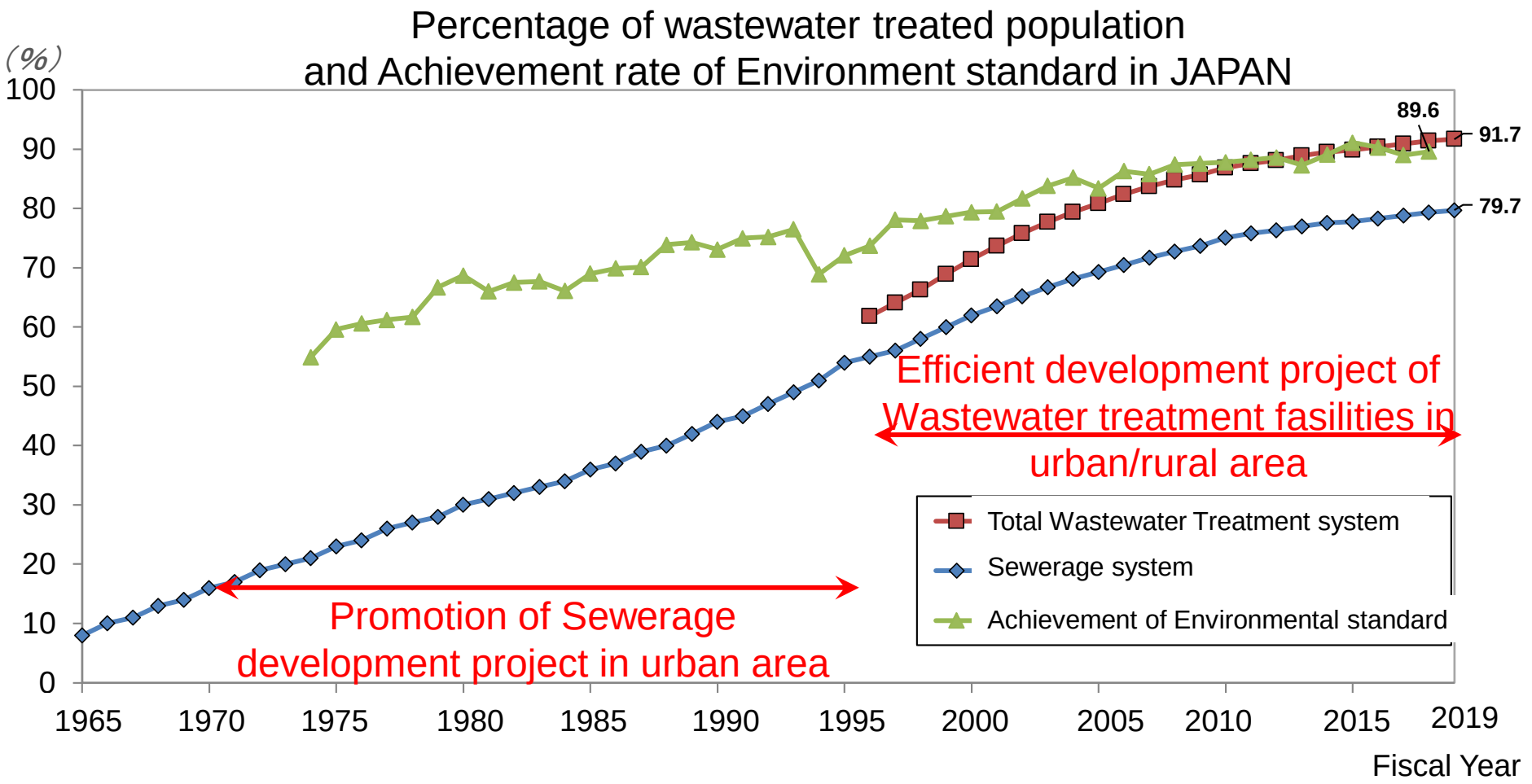
Sewerage system is wastewater treatment facility in urban area.

Plan of Prefectural Governments

For efficient construction of wastewater treatment facilities in each region, a construction plan for wastewater treatment facilities has been formulated based on comparison of economic efficiency, etc., considering the characteristics of each wastewater treatment facility.



Process of wastewater treatment growth



Wastewater treated populatin by city scale

Percentage of wastewater treated population in JAPAN

(2019.3.31)

City scale (thousand people)	over 1,000	500 to 1,000	300 to 500	100 to 300	50 to 100	under 50	total
total population (thousand people)	29,935.2	11,173.3	17,508.1	30,906.2	17,457.2	19.9	126.8
sewered population (thousand people)	29,826.0	10,598.4	16,422.1	28,296.4	15,109.5	16.1	116.4
municipal number	12	16	45	193	251	1,199	1,716
Percentage of wastewater teated population							
Sewerage system	99.3%	88.5%	85.7%	79.3%	66.3%	52.5%	79.7%
Johkasou (domestic wastewater treatment tank)	0.3%	5.8%	7.1%	9.7%	15.6%	20.4%	9.3%
Rural sewerage system	0.1%	0.6%	1.0%	2.5%	4.6%	8.2%	2.8%

Bilateral meeting

Contribution to SDGs6 in the field of sewerage and wastewater treatment

Goal

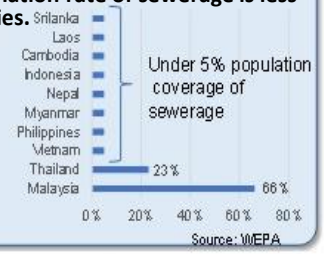
SUSTAINABLE DEVELOPMENT GOALS

Comprehensive 17 goals due in 2030
Target 6.3
"Halving the ratio of untreated sanitary wastewater"

Current Status

The pollution loads have increased due to urbanization and industrialization in Asian countries, and the current dissemination rate of sewerage is less than 5% in many countries.

Increasing pollution load due to rapid urbanization and industrialization



There is a large GAP between the goals and the status quo, and achieving the goals by 2030 will require common problem-solving among Asian countries.

Challenges

- Sanitary wastewater management has a low priority.
- The current status of the water environment is not fully understood.
- Infrastructure funding and adaptable technologies are lacking.

◆ To contribute to the achievement of the SDGs, AWaP was established in July 2018 with the aim of mainstreaming sanitary wastewater management in Asia.

Purpose of the Asia Wastewater Management Partnership (AWaP)

1 Raising consciousness for sanitary wastewater management

Disseminate "wastewater management" and raise its political priority in the international community and at each level of each country.
Continuously contribute to the improvement of the water environment and the local economy.
Diffuse the "sustainable sanitary wastewater management".

2 Monitoring sanitary wastewater management

Sharing information necessary for the dissemination of the water environment and wastewater management in each country

3 Solving Common Issues

Develop and share models and guidelines to solve common national challenges

Partner Countries

Cambodia | Indonesia | Myanmar | Philippines | Vietnam | Japan

Secretariat (Ministry of Land, Infrastructure, Transport and Tourism (MLIT) / Ministry of the Environment (MOE))

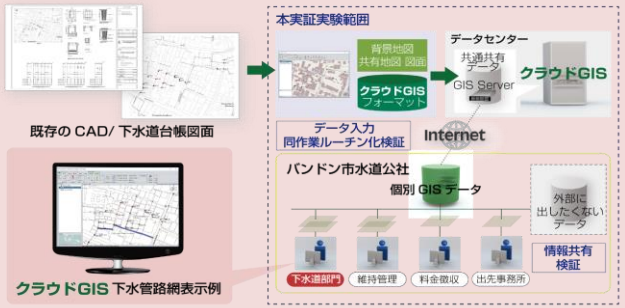
Organizational structure of the AWaP

A scene of the first general meeting in July 2018 (Kitakyushu City)

Sewerage Technology Demonstrarion Project

(WOW TO JAPAN Project)

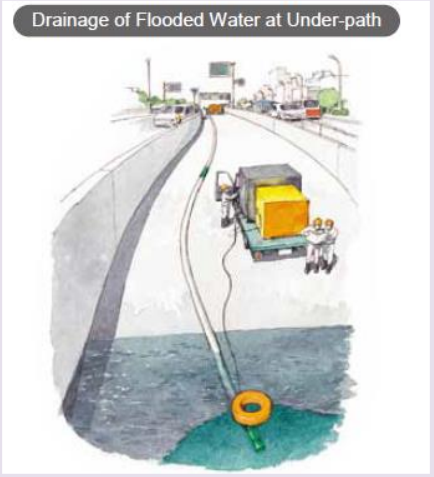
2019FY in Indonesia



Database for Sewerage Information using GeoCloud

2019FY in Myanmar

Drainage Flooded water by using Handy Mobile Pump Package



2020-2021FY

- **Full Speed at Any Water Level Type Horizontal Submersible Pump for Pump Gates** in Viet Nam
- **Corrosion-Resistant Concrete Manholes through Local Manufacturing** in Viet Nam
- **High-Efficiency, High-Output Aeration Blowers using Magnetic Bearing** in U.S.