

Efforts and international projects
for Bureau of Waterworks
Tokyo Metropolitan Government

Hiroki Kusano

Bureau of Waterworks
Tokyo Metropolitan Government

Outline

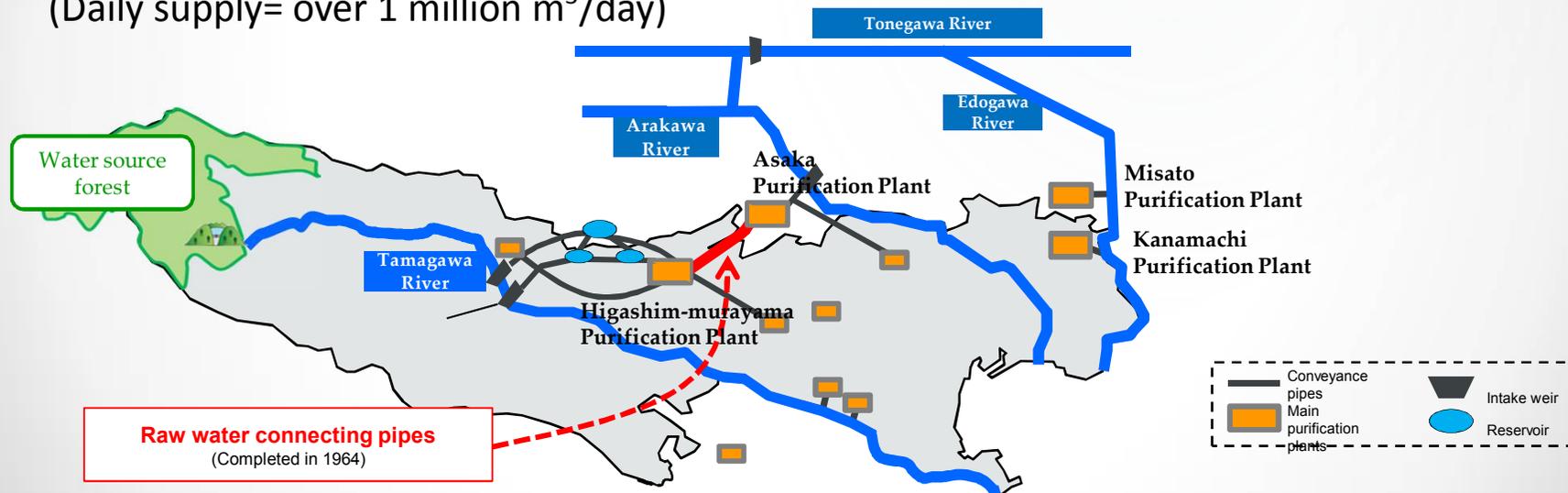
- 1 Business overview
- 2 International cooperation
and status of enterprise partnership
- 3 Contents overview of exhibition stand
in the Japan Pavilion

Business Overview

Scale

- Served population: 13.4 mil.
- Four large-scale purification plants adapting advanced water treatment
(Daily supply= over 1 million m³/day)

Index	Total
Service area	1,239.27km ²
Population served	13,401,324
Pervasion	100%
Total length of distribution pipes	27,126km
Total capacity of facilities	6,859,500m ³ /day



Business Overview

System

- Total waterworks management from managing water resource conservation forests to water supply
- Achieve 100% advanced treatment at all purification plants along the Tone River system



Business Overview

Skill

- Know-how on waterworks through our 120-year history (Leakage prevention, proper management of water conservation forest)
- Know-how on wide area supply

<Water Conservation Forest in Western Tokyo>



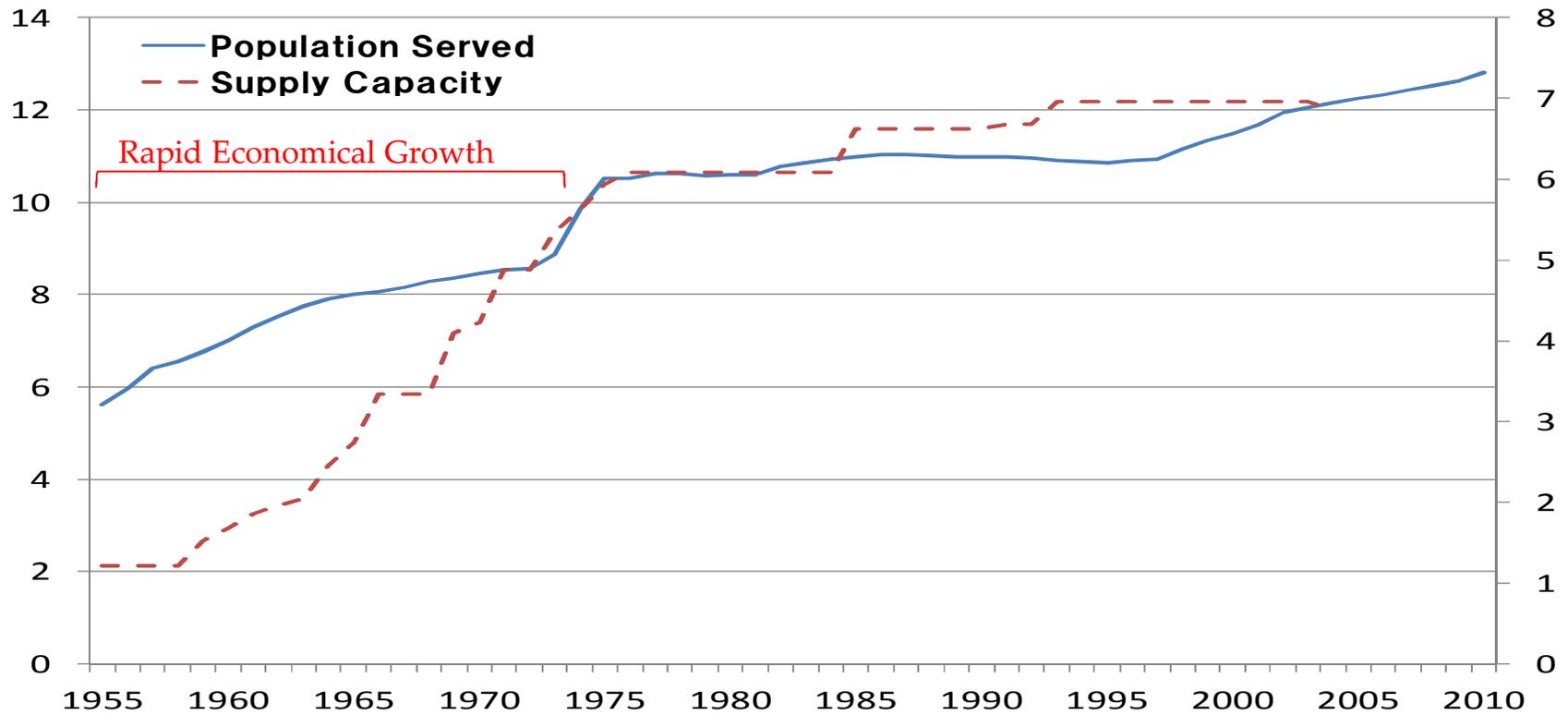
100 Years Ago



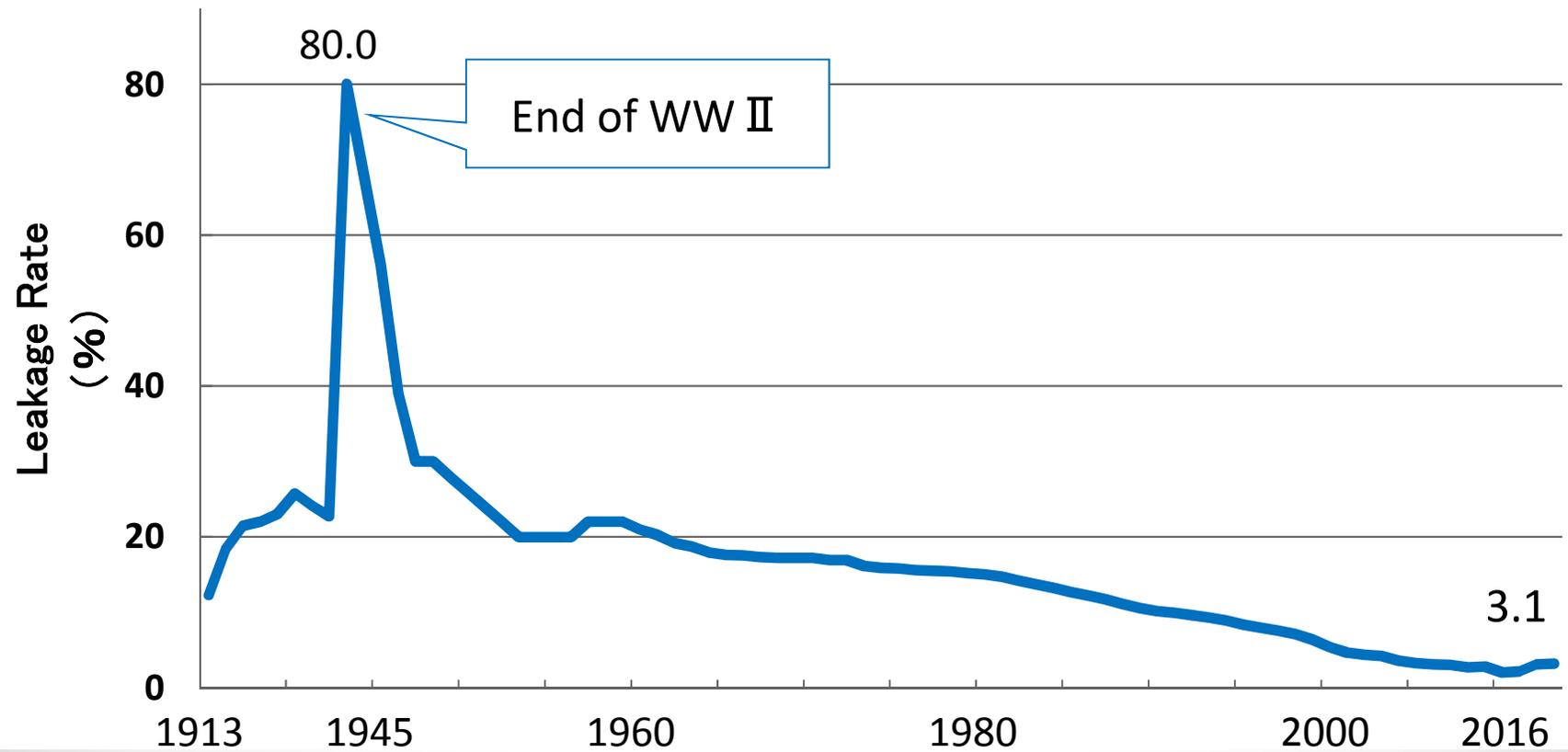
Present

Business Overview

Population (in Mill)



Transition of the Leakage Rate



Our Efforts

- Pursue safety and security:
For direct tap water consumption
- Stable everyday water supply:
24 hour-per-day control system
- Complete back-up functionality:
To maintain water supplies in disaster situations
- Top-tier leakage rate in the world
Strong technical capabilities based on experience
- Management based on long-term perspectives
Financial base that supports stable management

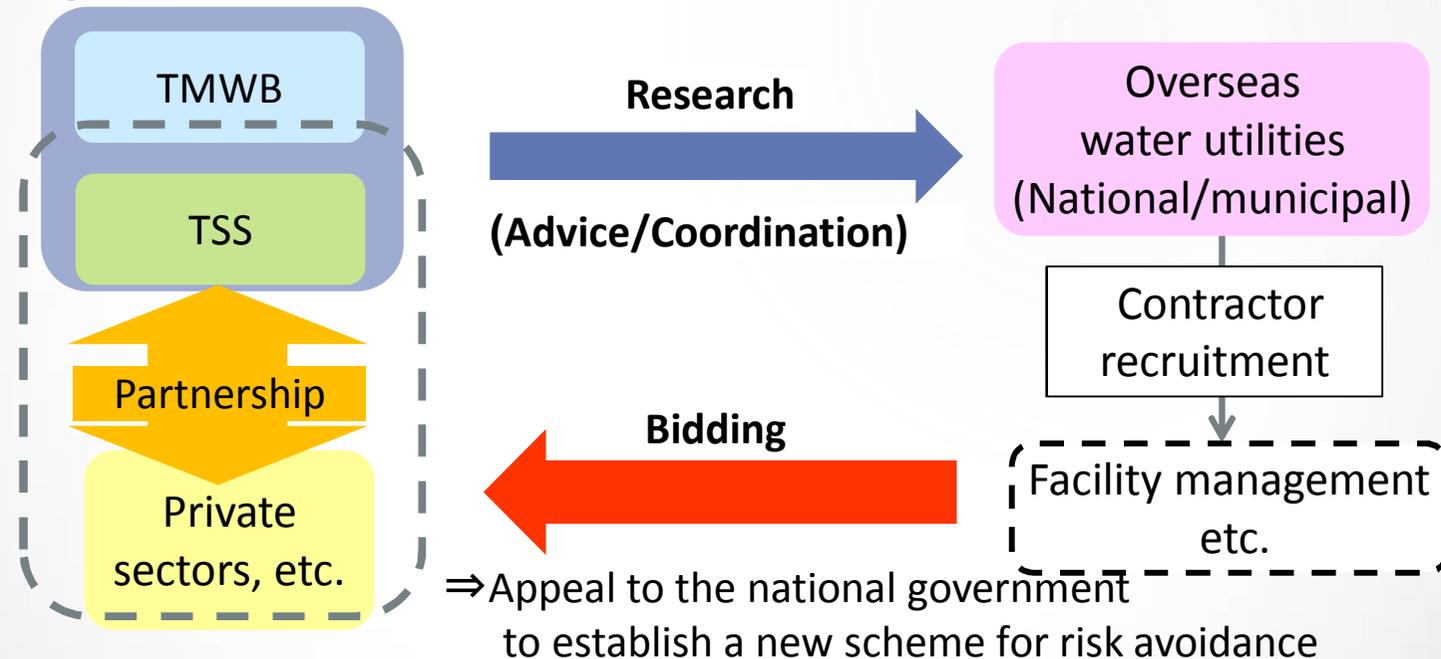


Utilize these strengths in implementing our system throughout the world

Tokyo Bureau of Waterworks: International implementation initiatives

In 2010, we began international implementation utilizing the Tokyo Waterworks Service (TSS), supervisory body.

<Scheme diagram>



Roles of TMWB, TSS, and private sectors

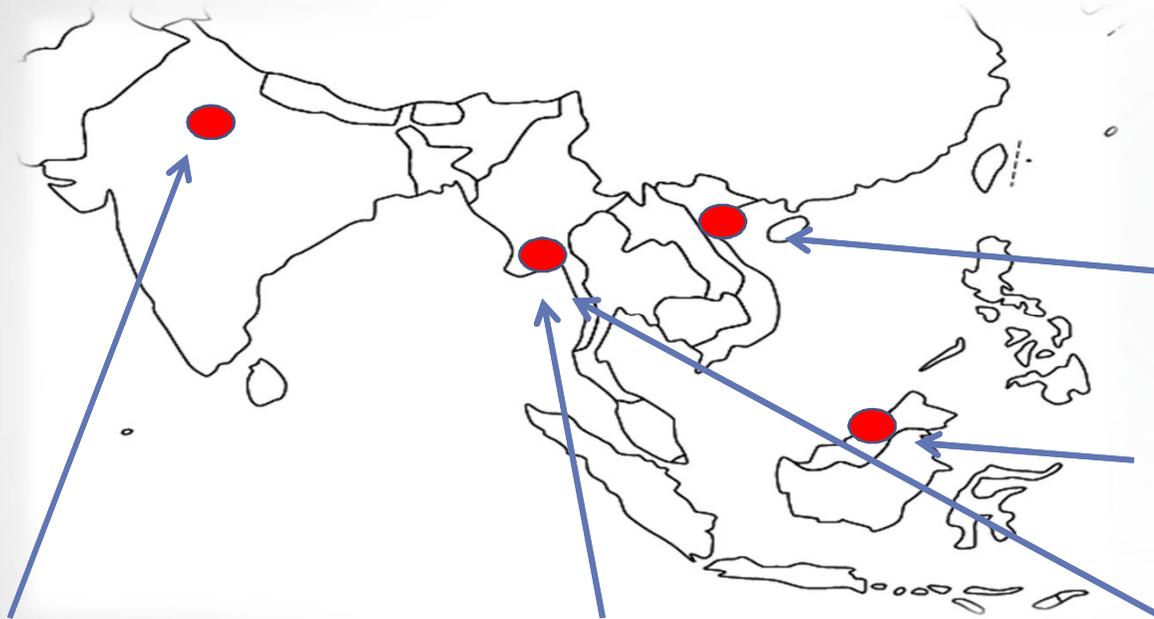
Collaboration that draws on the strengths of each

TMWB	<ul style="list-style-type: none">• Appeals to the public sector and strengthening of relationships
TSS	<ul style="list-style-type: none">• Local on-site activities that utilize know-how for waterworks services management.• Facility maintenance, etc.
Private Sector	<ul style="list-style-type: none">• Project planning that draws on company know-how• Project expansion that draws on the know-how of overseas waterworks services (International situation, contracting, etc.)• Collection of information on local situations (At local Offices)



Collaboration enables cooperative activities that would be difficult for the Tokyo Bureau of Waterworks alone

Where we cooperate



<p>Delhi, India (Technical Cooperation Project) • TEC International Co.,Ltd.</p>	<p>Yangon, Myanmar (NRW Reduction Project) • Toyo Engineering Corporation • Mitsui & Co.,Ltd</p>	<p>Hanoi, Vietnam (JICA Partnership Program)</p>
		<p>Labuan, Malaysia (JICA Partnership Program) • Yokogawa Solution Service Corporation</p>
		<p>Yangon, Myanmar (Technical Cooperation Project) • TEC International Co.,Ltd.</p>

Technical Cooperation Project

Project overview

Objective

To improve the city of Yangon's waterworks management and maintenance

Period

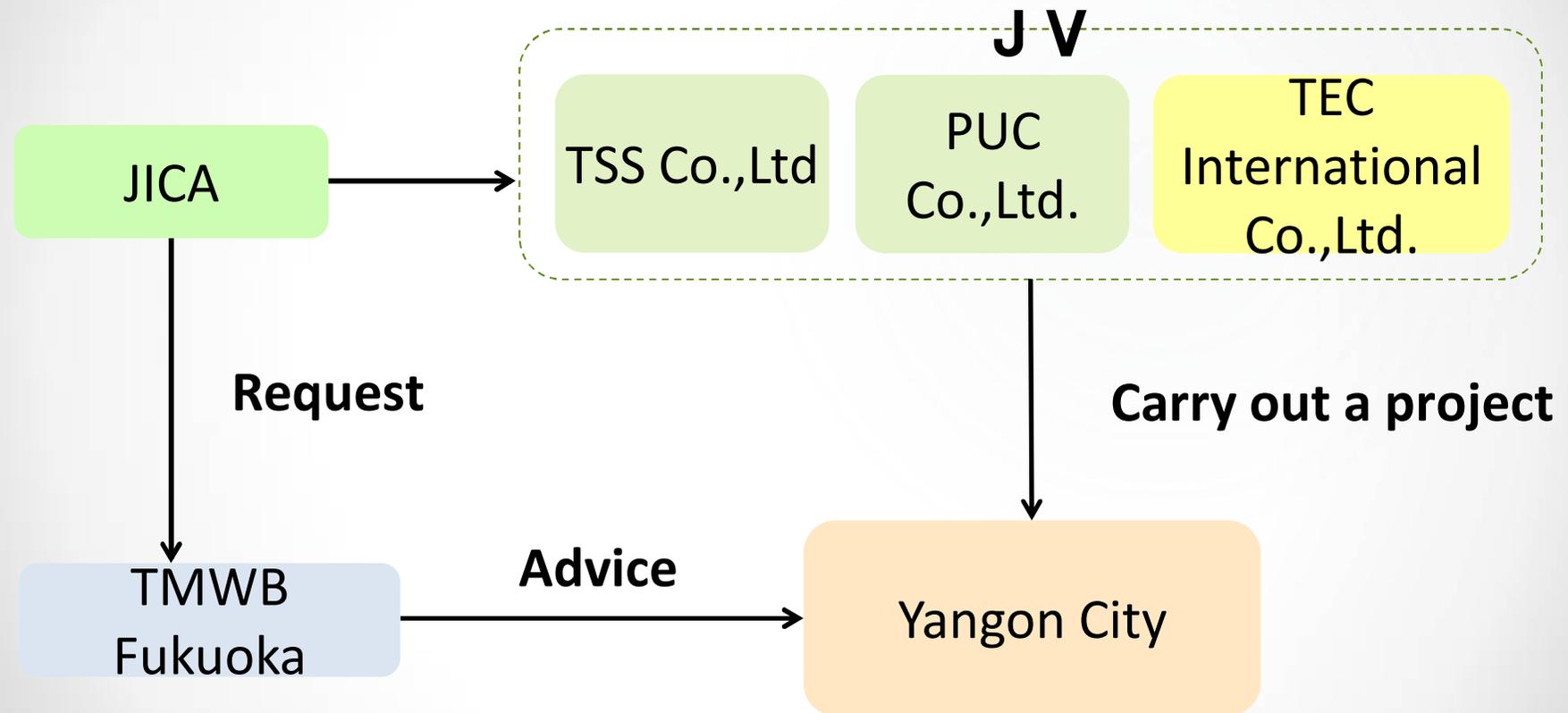
June 2015 to June 2020

Costs

1st term: 280 million JPY(≒ 2.5 million USD)

2nd term: 300 million JPY(≒ 2.7 million USD)

Scheme Diagram



Roles

TMWB Fukuoka	<ul style="list-style-type: none">• Provide advice based on experiences and knowledge as domestic supporting members• Dispatch personnel to local on-site seminars, and etc.
TSS PUC	<ul style="list-style-type: none">• Non-revenue water control, GIS, financial affairs / administration
TEC International	<ul style="list-style-type: none">• Overall management, operational coordination, water quality management, and etc.



NRW Reduction Project (Free financial aid for projects)

Overview of the infrastructure development project

Project description

Leak detection
replacement/repair of pipes,
replacement/installation of meters

Period

2016 to 2022 (scheduled)

Costs

Approx. 1.8 billion JPY
(≒ 16.2 million USD)



*Maintenance projects planned utilizing Yangon municipal funds, beginning with areas which completed infrastructure construction.

Roles

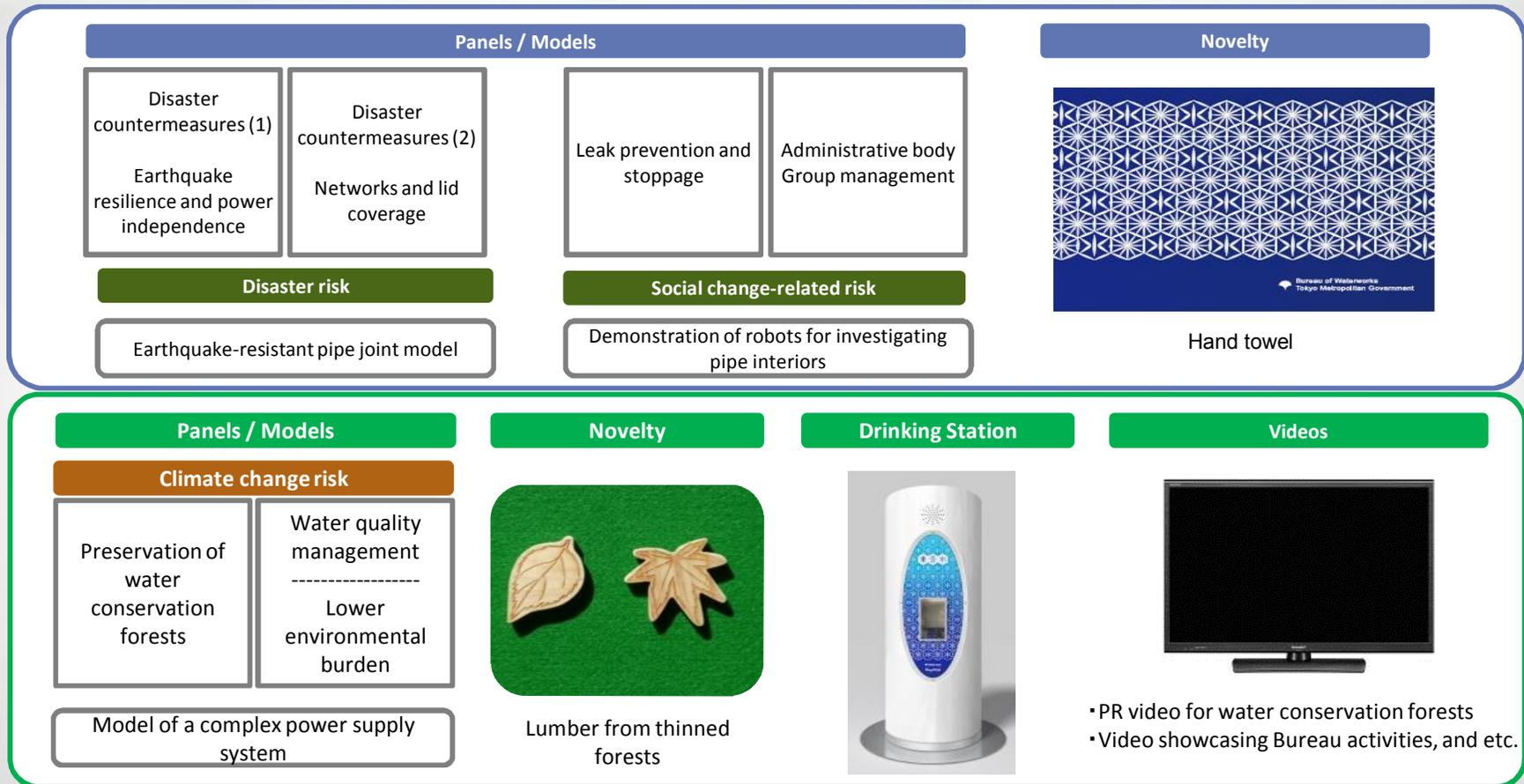
TMWB	Builds cooperative G-to-G relationships as well as proposing projects and appealing for aid to the national government (Ministry of Foreign Affairs, etc.)
TSS	Implements countermeasures to non-revenue water by transferring technology and know-how
Toyo Engineering Corporation	Overall project management, etc.
Mitsui & Co.,Ltd	Collects local on-site information, etc.



Conclusion

- Implement project
and improve local waterworks in the country
- Enhance the presence of Japan and Tokyo
- Support private companies
moving in on international business

Exhibition Stand



Thank you for your attention