## 7. 添付資料

ワークショップにおける発表資料(抜粋)

7.1 Nikka Maintenance, Housetec

Promotion Project for Decentralized Domestic Wastewater (including black water) treatment in Hungary

7.2 Office for Promotion of Johkasou, Waste Management Division, Environmental Regeneration and Material Cycles Bureau, Ministry of the Environment of Japan Decentralized wastewater treatment system and its legal framework in Japan

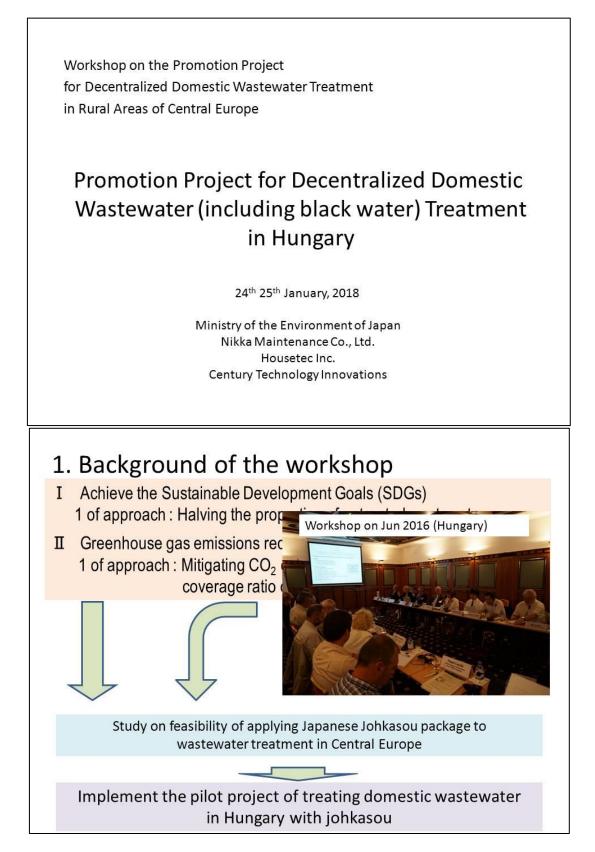
7.3 Center for Material Cycles and Waste Management Research, National Institute for Environmental Studies

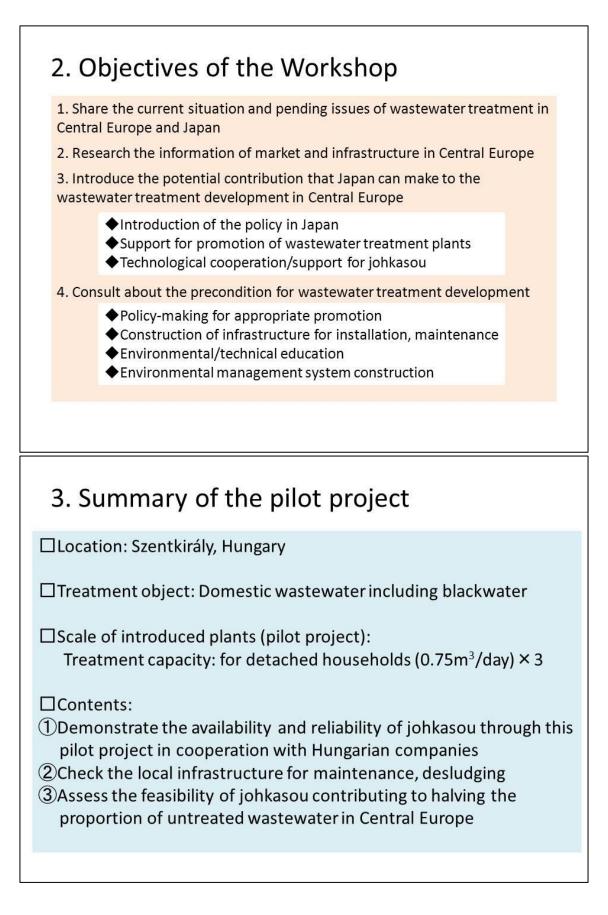
Certification of small-scale wastewater treatment plants –IntroduB 社 on of the Japanese testing method and challenges in Southeast Asia-

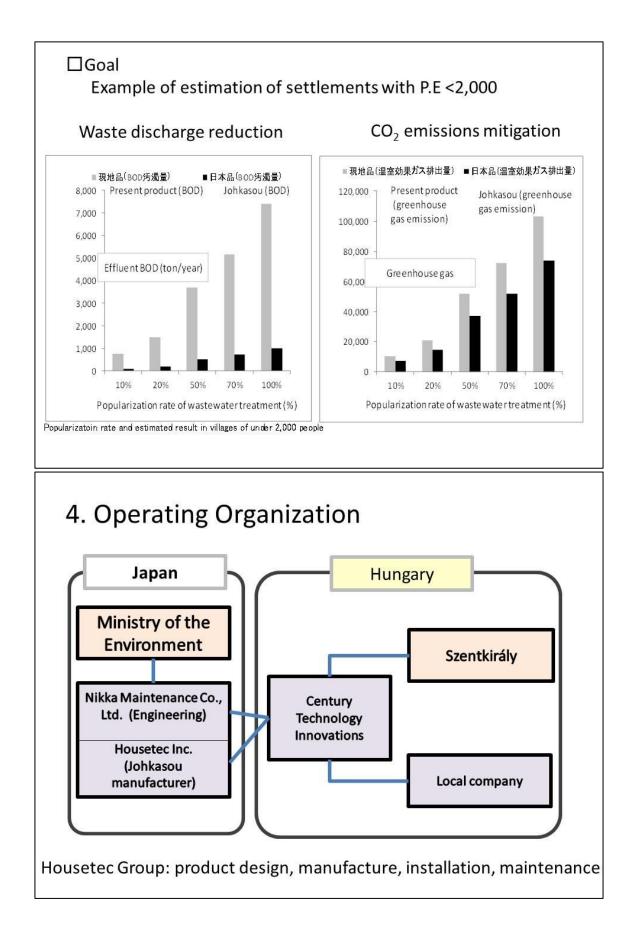
7.4 Civil & Environment Engineering, Toyo University

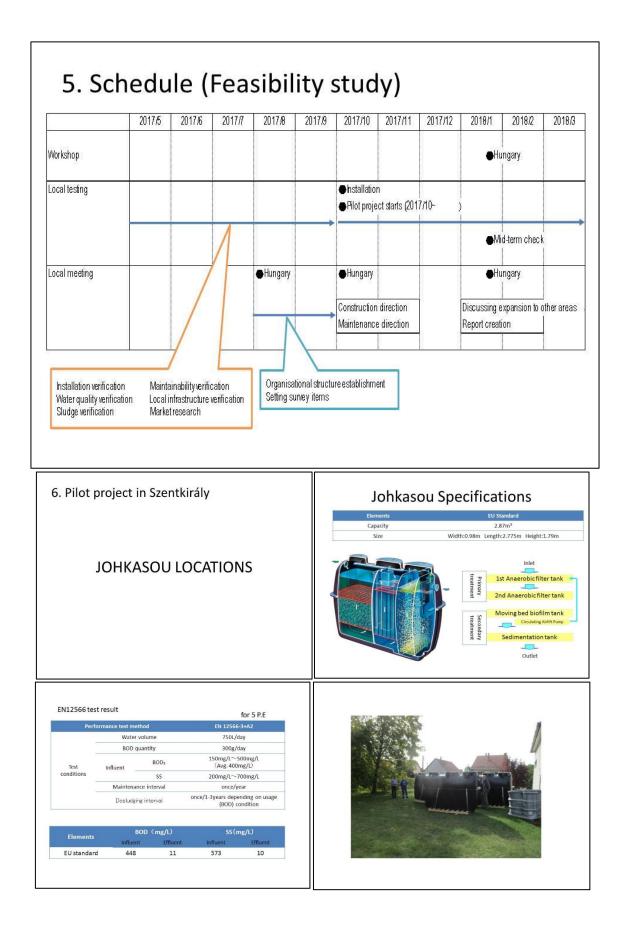
Greenhouse gas emission reduB 社 on by small-scale wastewater treatment plants

7.5 Johkasou Navigator Certification Organization Operational Management Scheme of Johkasou System 7.1 Nikka Maintenance, Housetec





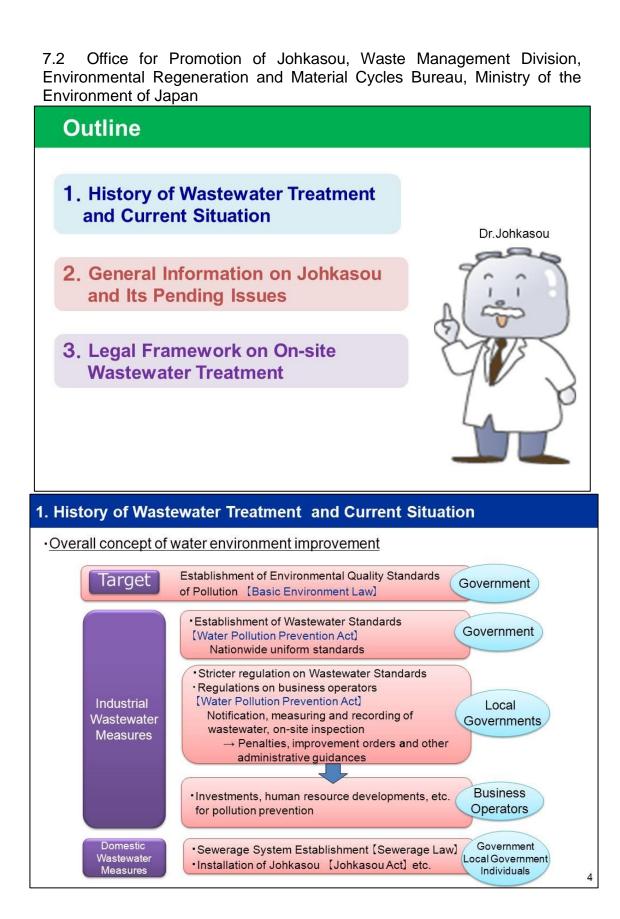


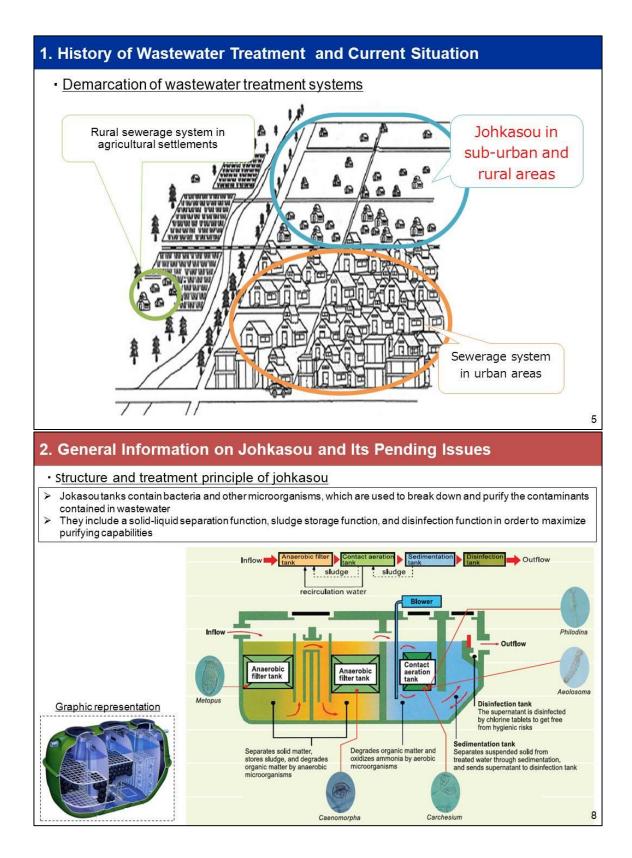


# 7. Progress and outcome of the pilot project

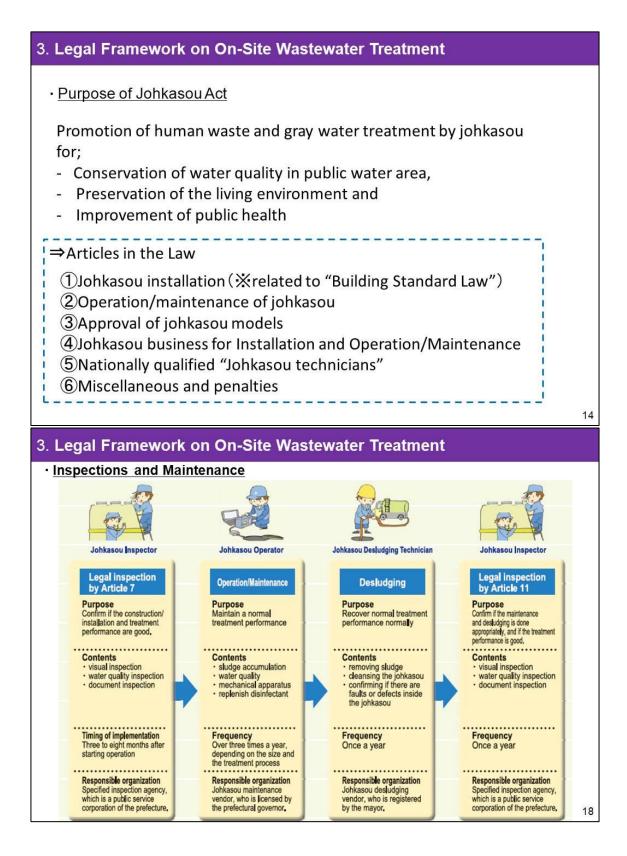
Research agenda	Progress	
1. Current situation of target area	In progress • to be concluded in February	
2. Characteristics, quality of domestic wastewater	Data collection in progress • to be concluded in February	
3. Establishment of cooperation with local governments • companies	Searching for local partners • Construction/maintenance companies that comply with EN standards • Companies available for local production, local sale of johkasou	
4. Feasibility assessment	Market research • Policies of Central European governments • Value chain for johkasou business	
Will be reported	to government of Japan and	

Vill be reported to government of Japan and governments of relevant countries





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## 3. Legal Framework on On-Site Wastewater Treatment

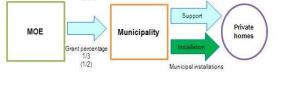
#### Subsidies for Johkasou Installation

- There are still some 1.3 million people who do not have wastewater treatment, particularly in Japan's hilly rural areas, which have a low population density. This issue requires urgent resolution.
   Three Japanese ministries (MLIT, MAFF, and MOE) are working together to require municipalities to revise their wastewater treatment facility development plans with the
- aim of rapidly setting up sustainable wastewater treatment facilities (generally within the next 10 years).
- Johkasou have several advantages, including (1) treatment capabilities on par with municipal sewage systems, (2) low-cost installation, and (3) seismic resistance. These features become even more important in sparsely populated areas
- There are still about 4.37 million tandoku-shori johkasou in operation, though new installations are now prohibited. There is an urgent need to convert them to gappeishori johkasou as soon as possible.
- > The goal in promoting johkasou infrastructure development is to conserve local water environments and build a society of independent, decentralized communities.

#### Project overview

- Johkasou Installation Project (private installations) Subsidizes municipalities supporting their residents (private citizens) with iohkasou installation
- Johkasou Municipal Installation Project (municipal installation) National subsidy program for municipalities taking the lead in installing johkasou systems. The municipality is responsible for operations and maintenance.

#### Johkasou Installation Project (private 0



Private installations

#### 0 Johkasou Municipal Installation Project (municipal installations)

Grant



### 3. Legal Framework on On-Site Wastewater Treatment

#### Human Resource Development

- Johkasou technicians should be equipped with extensive knowledge on not only wastewater treatment/johkasou, but also water environment conservation and public health.
- Curriculums for johkasou operator and johkasou installation worker are as shown below

Johkasou operator		Johkasou installation worker
<ul> <li>Fundamental of johkasou</li> </ul>	8 H	□ Fundamental of johkasou 8 H
> Laws and regulations related with johkasou	4 H	Laws and regulations related with johkasou 31
Structure and function of johkasou	22 H	Structure and function of johkasou 15 H
> Introduction to installation of johkasou	4 H	Management of johkasou installation 8 H
> Operation and maintenance of johkaso	u 30 H	□ Introduction to O&M and desludging of johkasou 3
> Water quality management of johkasou	10 H	
> Introduction to desludging of johkasou	2 H	Total 37 Ho
Total	80 Hours	

