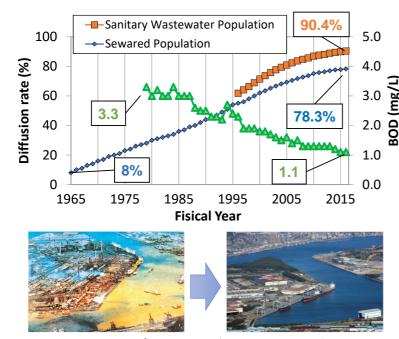
Efforts towards achievement of SDGs 6.3





Current Situation in Japan

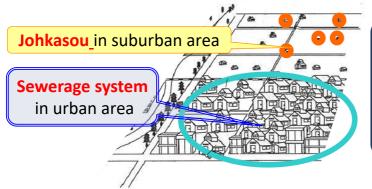
- Low population rate with wastewater treatment service about 50 years ago
- Made legal systems on environmental standards and water pollution control
- Goals set and a step-by-step approach taken to increase the coverage rate



Term		Goal	
1963-1966	16%	\rightarrow	27%
1967-1970	20%	\rightarrow	33%
1971-1975	23%	\rightarrow	38%
1976-1980	23%	\rightarrow	40%
1981-1985	30%	\rightarrow	44%
1986-1990	36%	\rightarrow	44%
1991-1995	44%	\rightarrow	54%
1996-2002	54%	\rightarrow	66%
2003-2007	65%	\rightarrow	72%
2008-2012	84%	\rightarrow	93%
2013-2017	87%	\rightarrow	95%

Coverage rate of wastewater treatment service

National Plans of wastewater management





Small size Johkasou for household

- Treat wastewater anaerobically and aerobically (using blower) to achieve higher performance (BOD 20mg/l or less) and to remove ammonia nitrogen.
- Quick installation (1 week for household size)

National Government

- Vision
- Law/Regulation
- Technology Standards
- National Subsidy

Sharing Responsibility

Local Government

- Sewerage Master plan
- Ordinance
- Construction, Operation and Management of sewerage facility
- Advice and guidance on Johkasou operation and maintenance

Issues and challenges

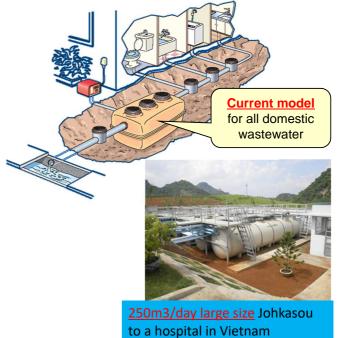


Pipeline generation method

Pipelines can be repaired while sewage is flowing.

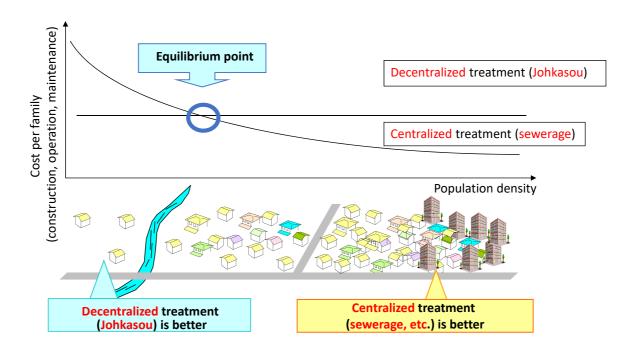
- Course pines can be repaired without digging up read
- Sewage pipes can be repaired without digging up roads.

 Renovation of old models (for black water only) to current models



For reference

Centralized treatment in urban or densely-populated area vs. Decentralized treatment In suburban or rural area considering initial & running cost efficiency



For reference

Program for Sewerage Construction

Term	Goal			Index	
1963-1966	16%	\rightarrow	27%	Coverage ratio of drainage area	
1967-1970	20%	\rightarrow	33%		
1971-1975	23%	\rightarrow	38%	Coverage ratio of wastewater treated area	
1976-1980	23%	\rightarrow	40%	sewerage coverage ratio	
1981-1985	30%	\rightarrow	44%		
1986-1990	36%	\rightarrow	44%		
1991-1995	44%	\rightarrow	54%		
1996-2002	54%	\rightarrow	66%		
2003-2007	65%	\rightarrow	72%		
2008-2012	84%	\rightarrow	93%	Ratio of people covered by domestic wastewater treatment system	
2013-2017	87%	\rightarrow	95%		