

Advanced on-site sewage treatment system

KUBOTA JOHKASOU



Who is Kubota?

- **Established in 1890**
- **Consolidated Sales 16.8 Billion US\$ in 2018**
- **Employee 40,202 Peoples (Dec.2018)**
- **Business Activity**
 - Agricultural Machinery, Engines, Pipes, Pumps, Valves, Environmental Engineering**

Kubota Group's overseas business sites



● Overseas offices ● Main overseas affiliates ● Production sites

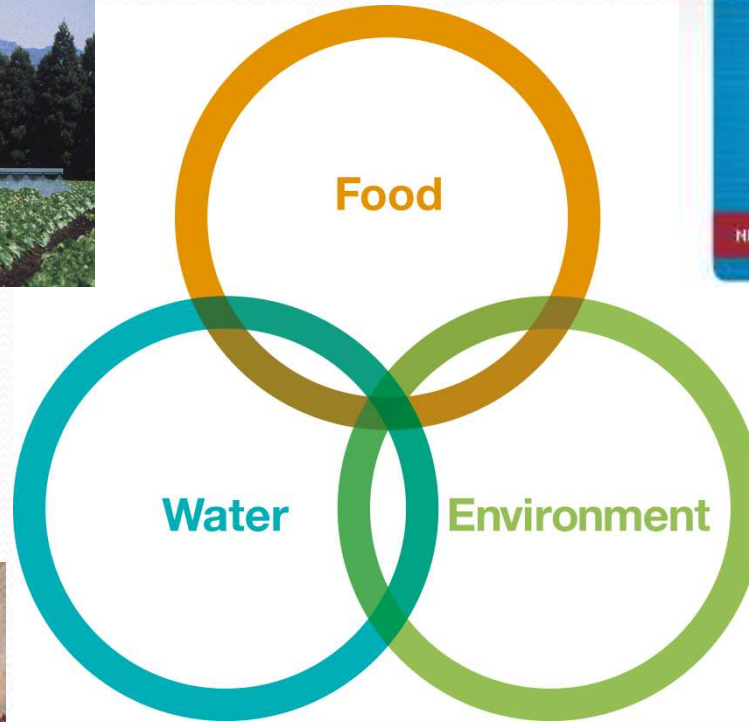
Kubota products



Tractor



Diesel Engines



Ductile Iron Pipe



Pumps



Johkasou

Kubota Johkasou in Overseas



- Sold to 18 countries outside Japan, mainly in China and Southeast Asia.
- Servicing many kinds of building (apartment, resident areas, hospital, etc.)

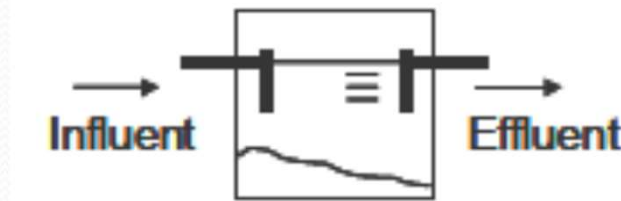
Experience in Vietnam



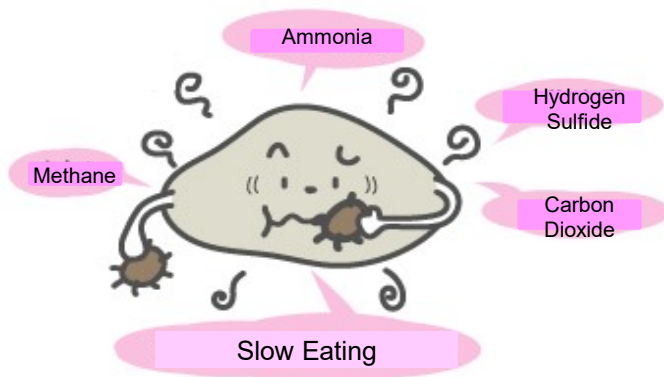
What is 「Johkasou」!

- 「Johkasou」 is not just septic tank but small wastewater treatment package tank.
- 「Johkasou」 can treat various wastewater. (kitchen, toilet, bath, laundry, etc.)

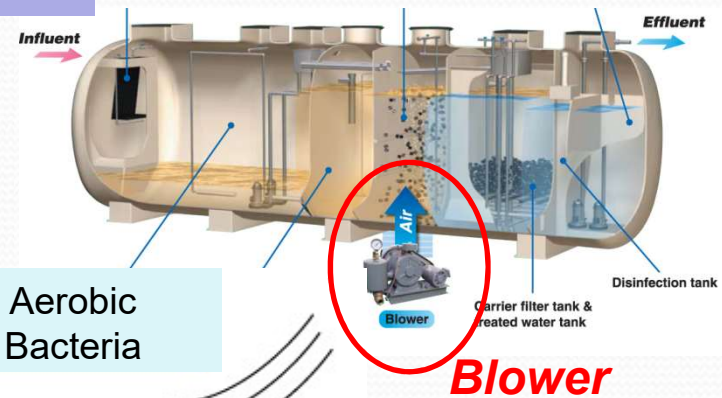
Septic Tank



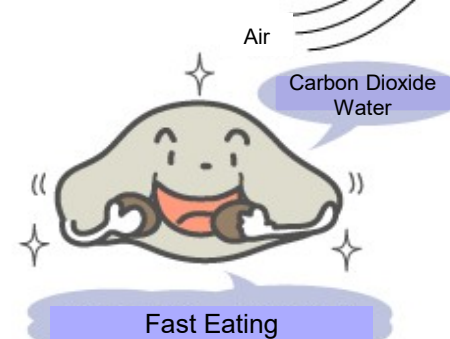
Anaerobic Bacteria



Johkasou



Aerobic Bacteria



Structure and Treatment Performance of Johkasou

Structure and function Approval of Johkasou type in Japan



Small Size



Large Size



Middle Size

Performance tests ✖ and approvals of the type (Minister of Land, infrastructure and Transport and Johkasou Law) are required for Johkasou.

✖ **by the authorized third party**

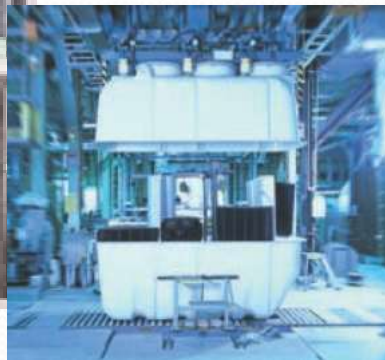
What is 「Johkasou」!

To be called “Johkasou” ...

- Its treatment performance must conform with the Japanese Johkasou law
- It is produced under strict production management based on Japanese industrial standards

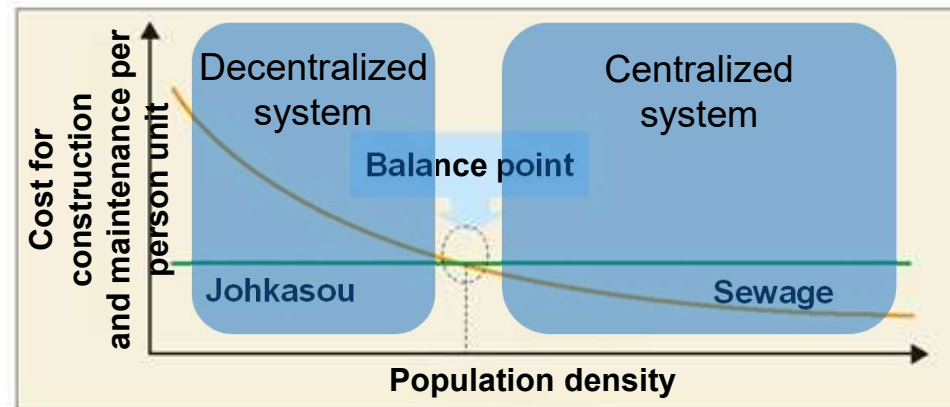


Measure for elimination of poor-quality products



Proposal for wastewater treatment system

Comparison of decentralized and centralized system costs

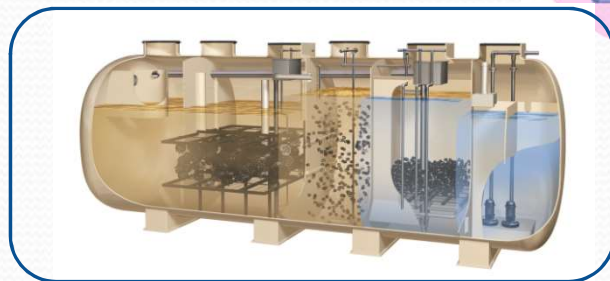
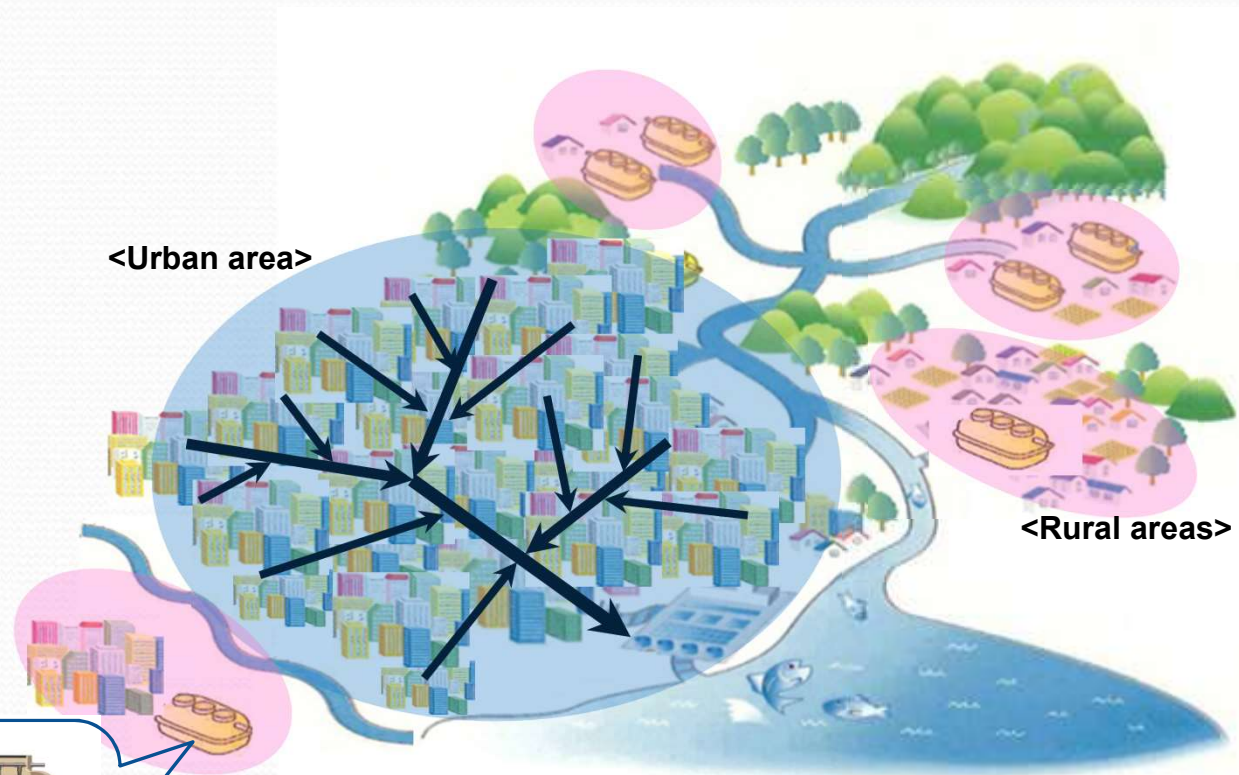
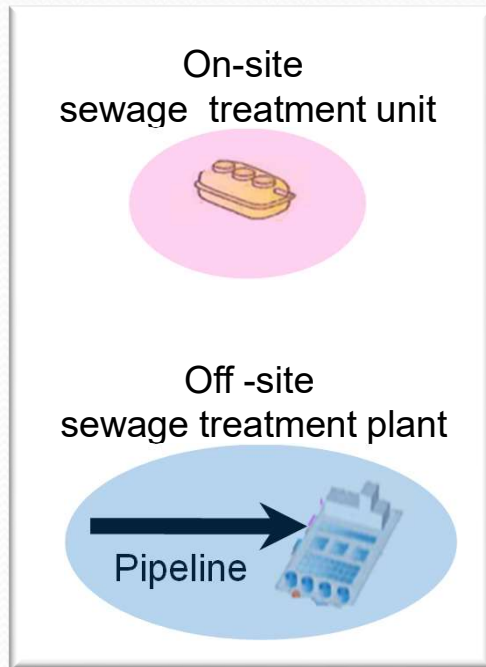


**On-site system
(Johkasou)
for less populated areas**



**Collective system
(Sewage)
for densely populated areas**

Installing Johkasou (In rural area)

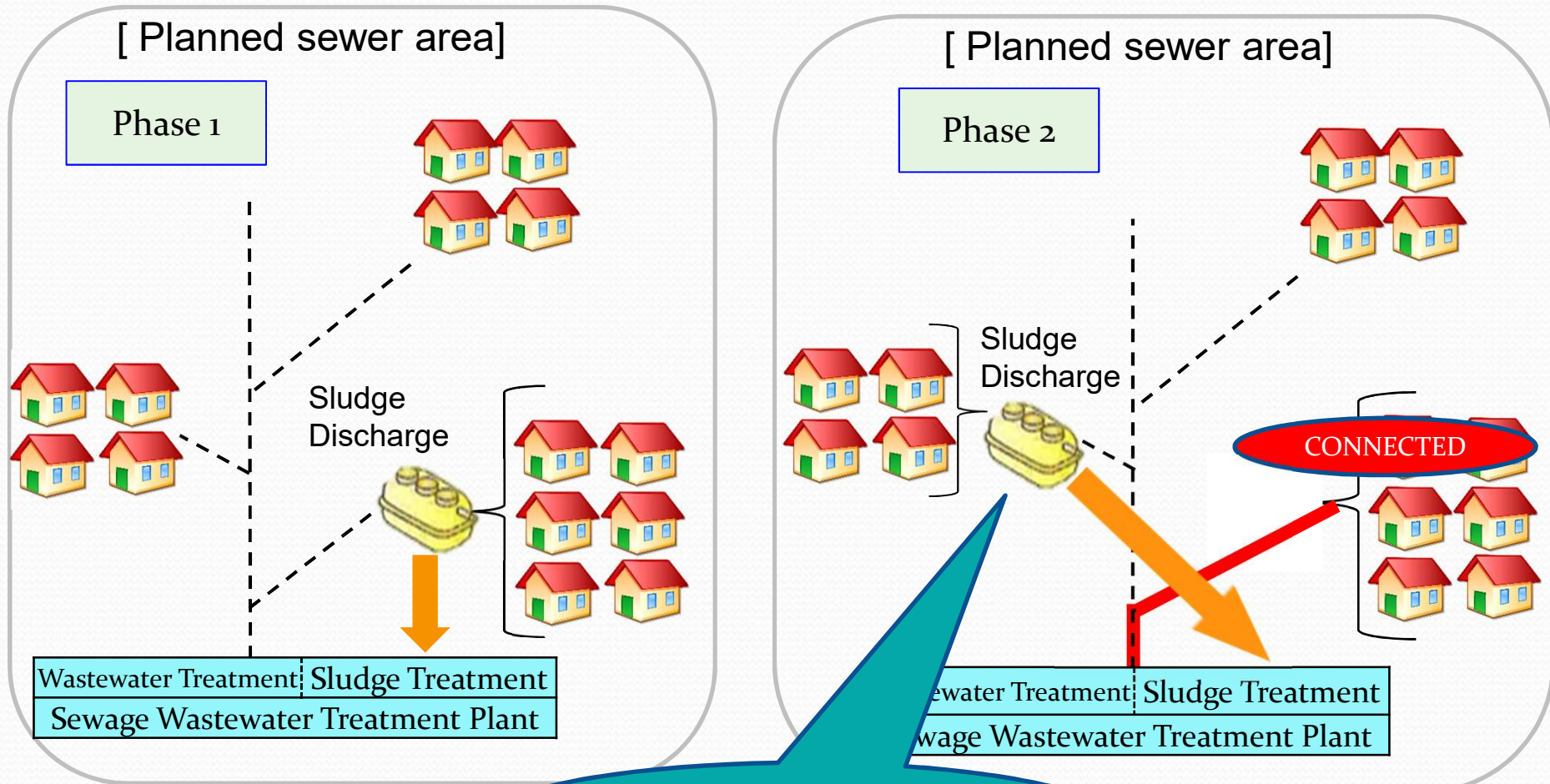


Treat well even in temperature 0°C!

By installing on-site Japanese standards Kubota Johkasou as shown in the picture, it is cheaper than centralized sewage system, with short installation time, and still have the same treatment performance.

Installing Johkasou (In urban area)

A scheme using both sewage treatment plant and Johkasou



RELOCATE!

Operation, Maintenance and Inspection of Johkasou

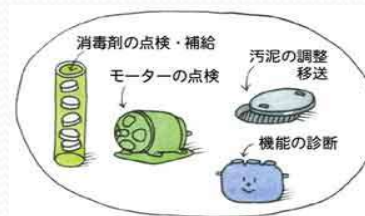
Technologies demanded for Johkasou

Product



Johkasou inspector

Maintenance



Johkasou operator



Desludging



Operation & Maintenance

Installation



Johkasou installation worker

Instructions and Directions for use



End user

Thank you for your attention.





For Earth, For Life

Kubota

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<http://www.kubota-global.net/index.html>