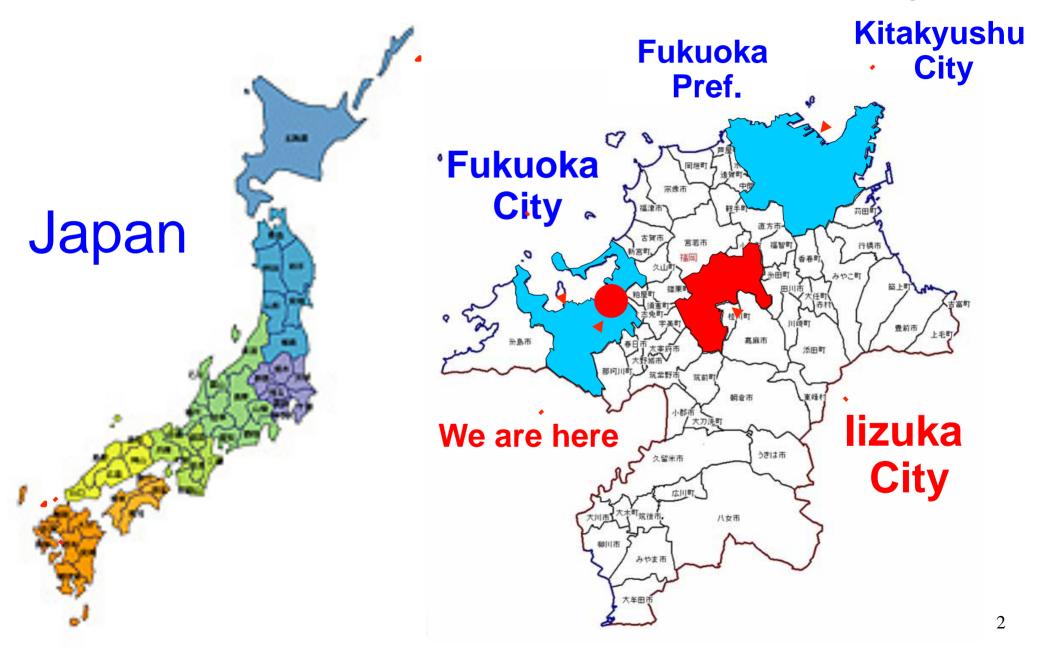
SewageTreatment in lizuka City

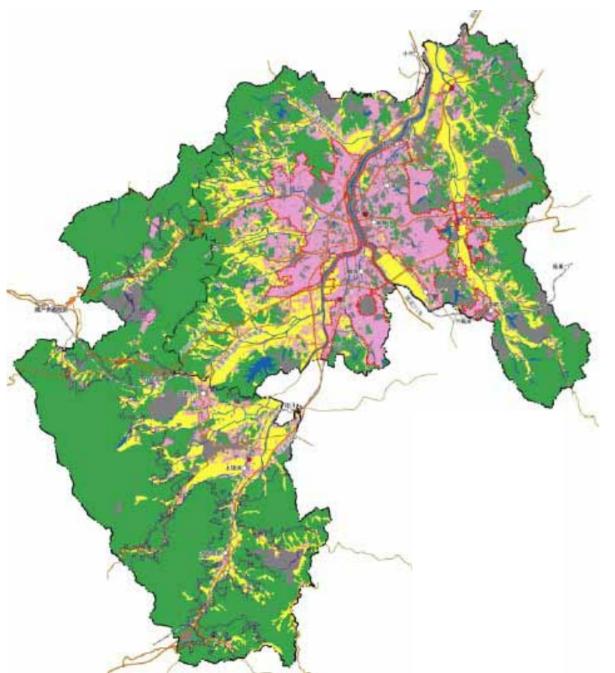


Yoshihiko Ota, Director Waterworks and Sewage Bureau, Iizuka City

The location of lizuka City



Overview of lizuka City



Population 132,000

Area: 214.13km²





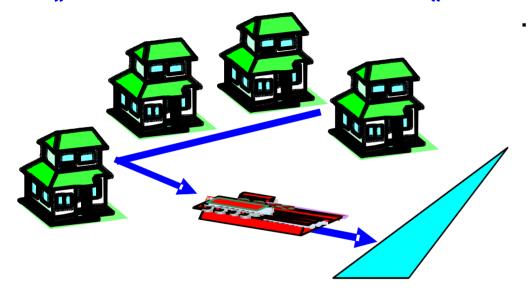
Sewage Management by Iizuka City

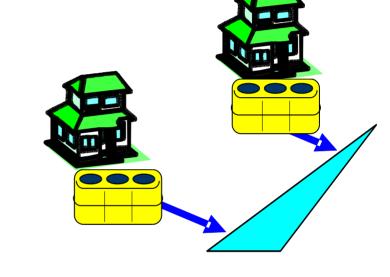


《Collective Treatment》

and

《Individual Treatment》



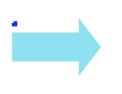


High density housing areas

Low density housing areas



Collective Treatment is more efficient



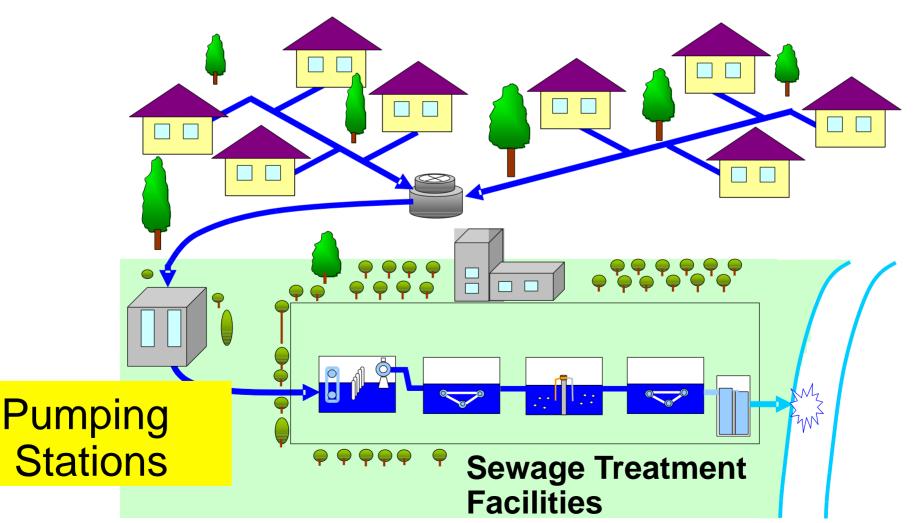
Individual
Treatment is more efficient



Collective Treatment∼

Public Sewage Farming village sewage

Community Plants





Public Sewage



oFor relatively large areas

Treatment started: 1974~

Coverage/population: 43.8% (planned for 69.5%)

<Overview>

1 treatment plant 7 pumping stations 58,000 people covered

Final Treatment Plant⇒ (Full view of the plant)





Public Sewage



Overview of lizuka Final Treatment Plant

Method: Standard Activated Sludge Method

Capacity: 30,000m³/day

↓ Sludge Processing Facility



Make compost from sludge







 Collective treatment method used in rural and farming areas far from the sewage systems.

Started in 2001
Coverage/population 0.3% (planned for 1.5%)

Uchino District Sewage Treatment Center⇒

Capacity 211m³/day





Community Plant



 A collective treatment method used in residential areas far from the sewer lines

Started in 1981

Coverage/population: 0.8% (planned for 0.8%)

Uguisudai Residential District Sewage Treatment Facility⇒

Treatment Capacity 750m³/day



Sewer



~Individual Treatment~

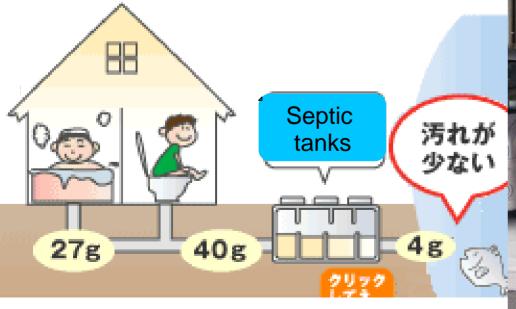


Individual SepticTanks

⇒Treated at household levels

Coverage/population: 27.3% (planned for 28.2%)

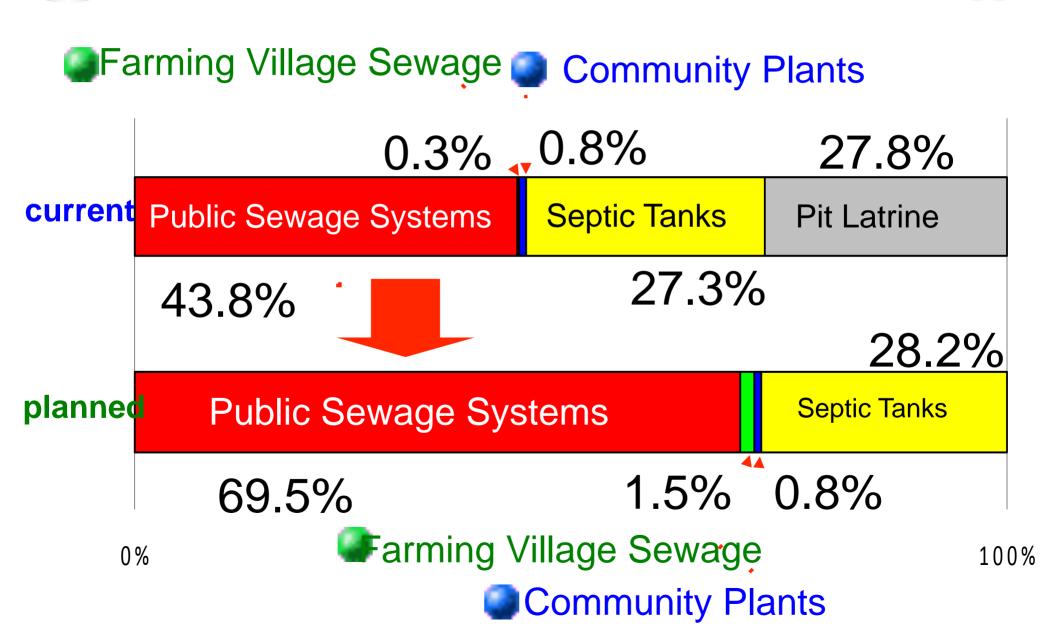
Example of a septic tank set in a garage⇒

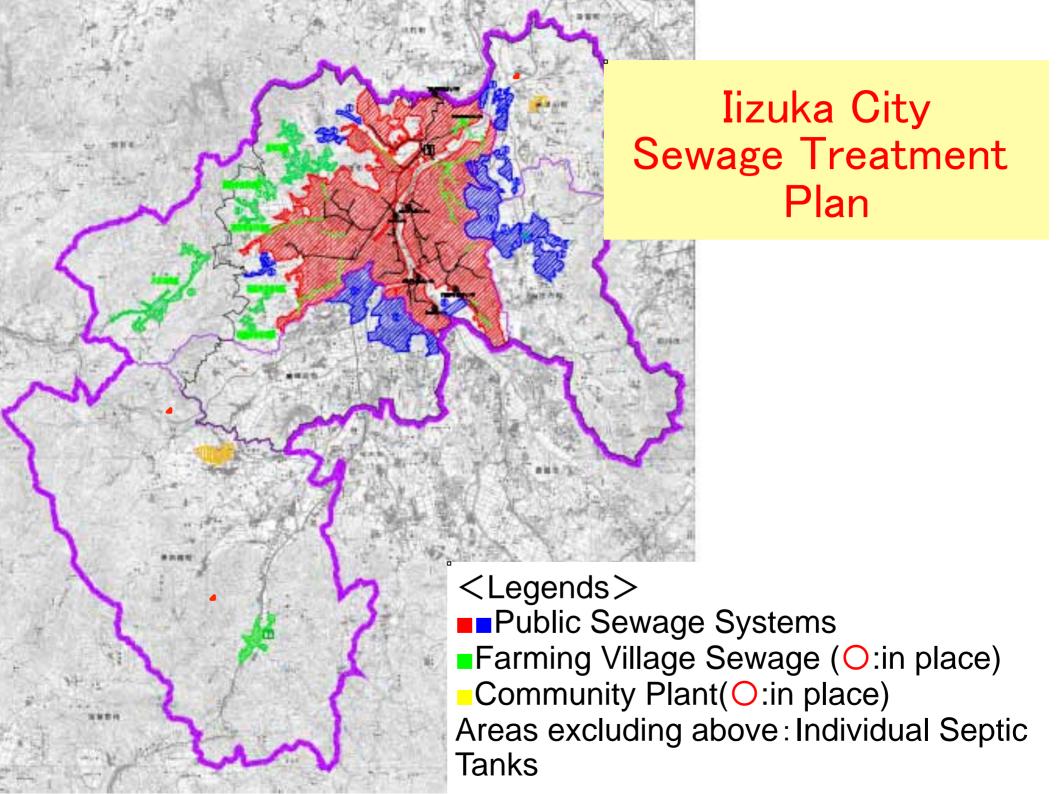


出典:環境省HP



Treatment Methods in lizuka City by ratio



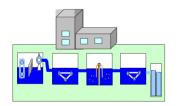








Compare Cost of A and B by both initial set up cost and maintenance cost. Collective treatment will be done in areas where the total cost is less than B.





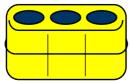
If A is cheaper,

A: Cost to occur on Treatment facility and pipes

B: Cost on Septic Tank

Collective Treatment

Individual Treatment



If B is cheaper,



Selection of Maintenance Methods



~The Case of Iizuka City~

☆公共下水道か?その他の事業か?

日本では様々な事業制度があるが、本市において、最も有利な事業を選定。

- <検討事項>
 - 〇事業要件
 - 〇事業費
 - 〇補助率
 - 〇補助対象範囲

公共下水道

農業集落排水

コミュニティプラント

を選定。



PR Activities~ Water Environment Learning Opportunities





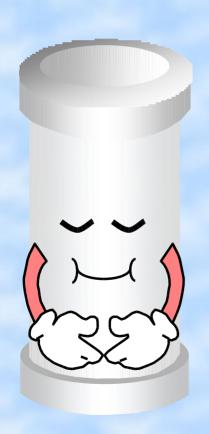


PR Activities~Delivery Classes





Thank you for your attention





lizuka City Waterworks and Sewage Bureau