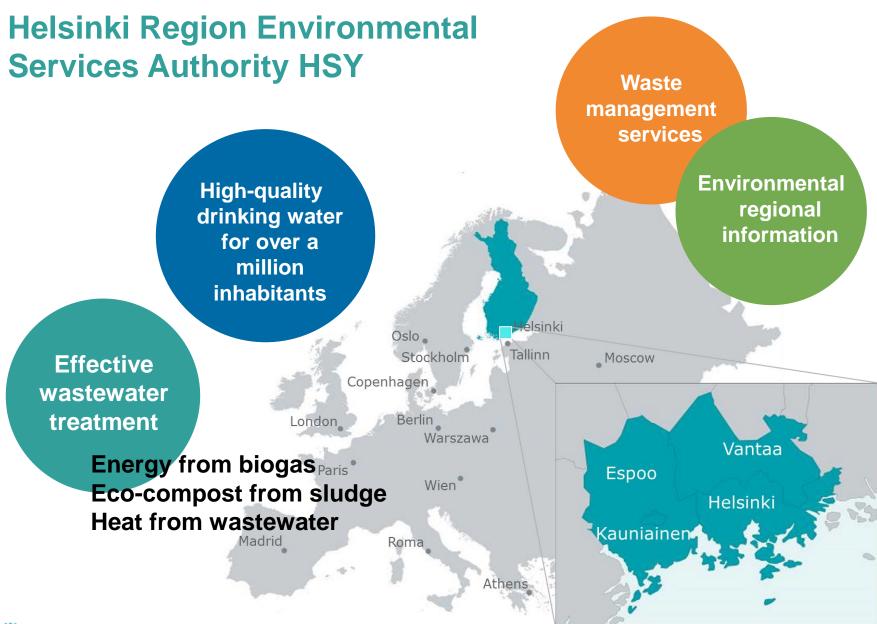


Sanitation Safety Planning in Helsinki Metropolitan Area

Johanna Castrén World Water Week, Stockholm, 27.8.2017





Wastewater services in HSY

 2 WWTPs: 136 Mm³ of treated wastewater in 2016

 2831 km of sewers (wastewater and combined)

2571 km of stormwater drains

SIUNTIO

530 wastewater pumping

stations



ESPOO

KIRKKONUMMI

MÄNTSÄLÄ

Viikinmäki wastewater treatment



plant

Suomenoja wastewater treatment plant



The Finnish SSP model

Environmental permit requirements for WWTPs include risk assessment and preparedness planning

International SSP models not intended for modern,
technical wastewater systems in municipality water utilities
need for a uniform risk management tool

 A web-based tool for health and environmental risk management was created in a national SSP project 2012-2015

The SSP concept aims at managing the whole wastewater cycle risks from wastewater collection to the receiving water bodies

Parallel piloting of the SSP model at HSY



Experiences from SSP implementation

- Creating and updating risk assessments and defining risk control measures are time-consuming tasks
 - → sufficient planning and resourcing
- Essential contents of the risk management plan comes from our employees
 - → motivation and involvement of the staff at different stages of the SSP process
- Critical risks are typically indentified in the network
- Control measures are numerous, some specific and some universal
- Action plan and its follow-up is crucial to implement control measures
- Implementation of the SSP has been a lesson to systematic quality thinking



