

## VillageWaters

# Pilot evaluation - Gennarby

## Village Waters

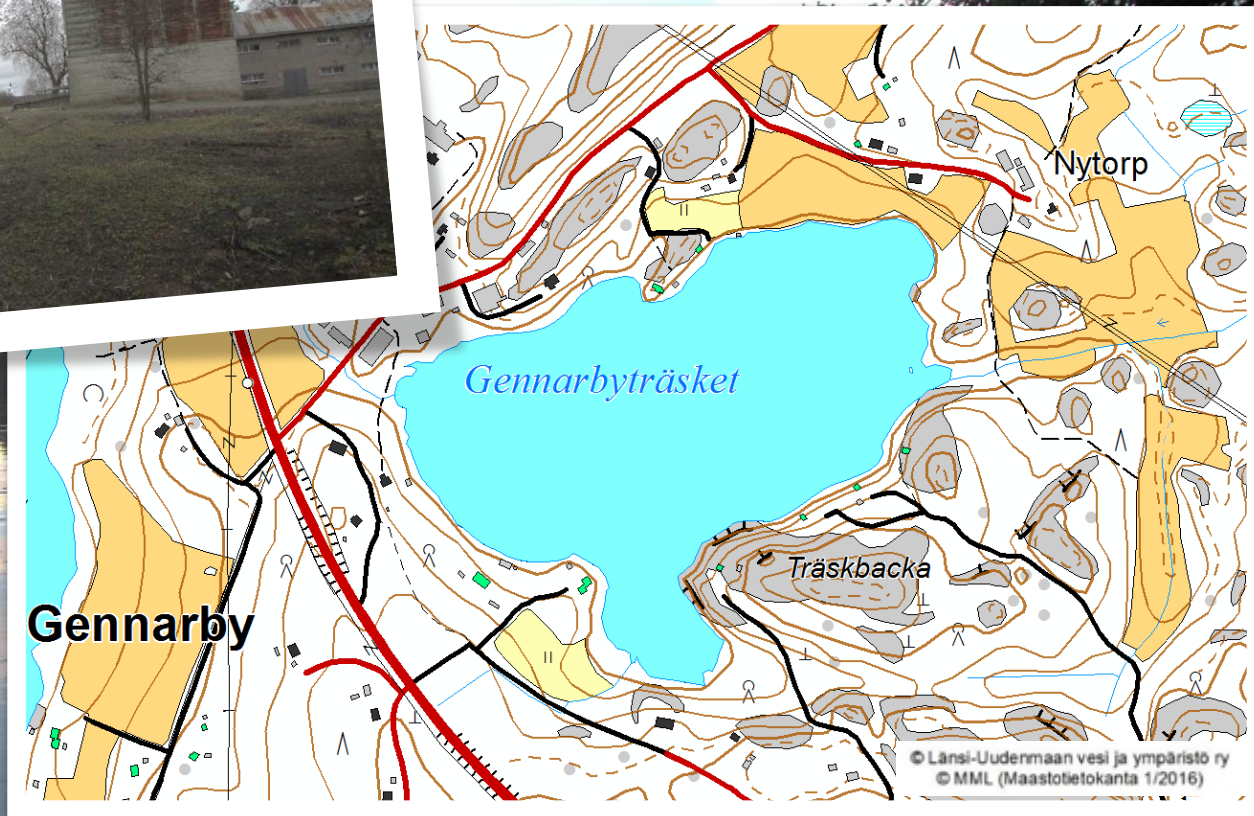
Vesa Arvonon, SYKLI  
Minttu Peuraniemi, LUVY

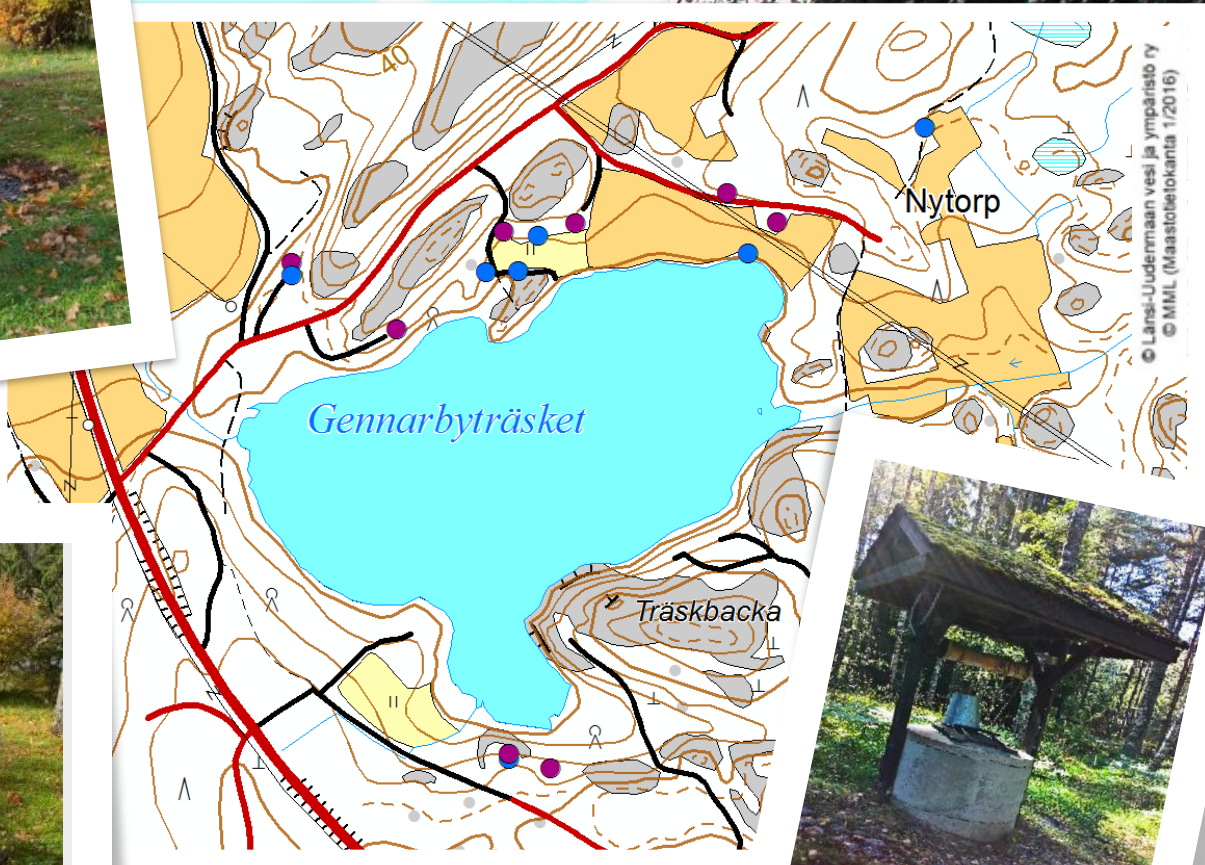
Benchmarking session between pilots  
Riga 14.3.2018







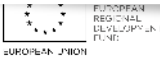




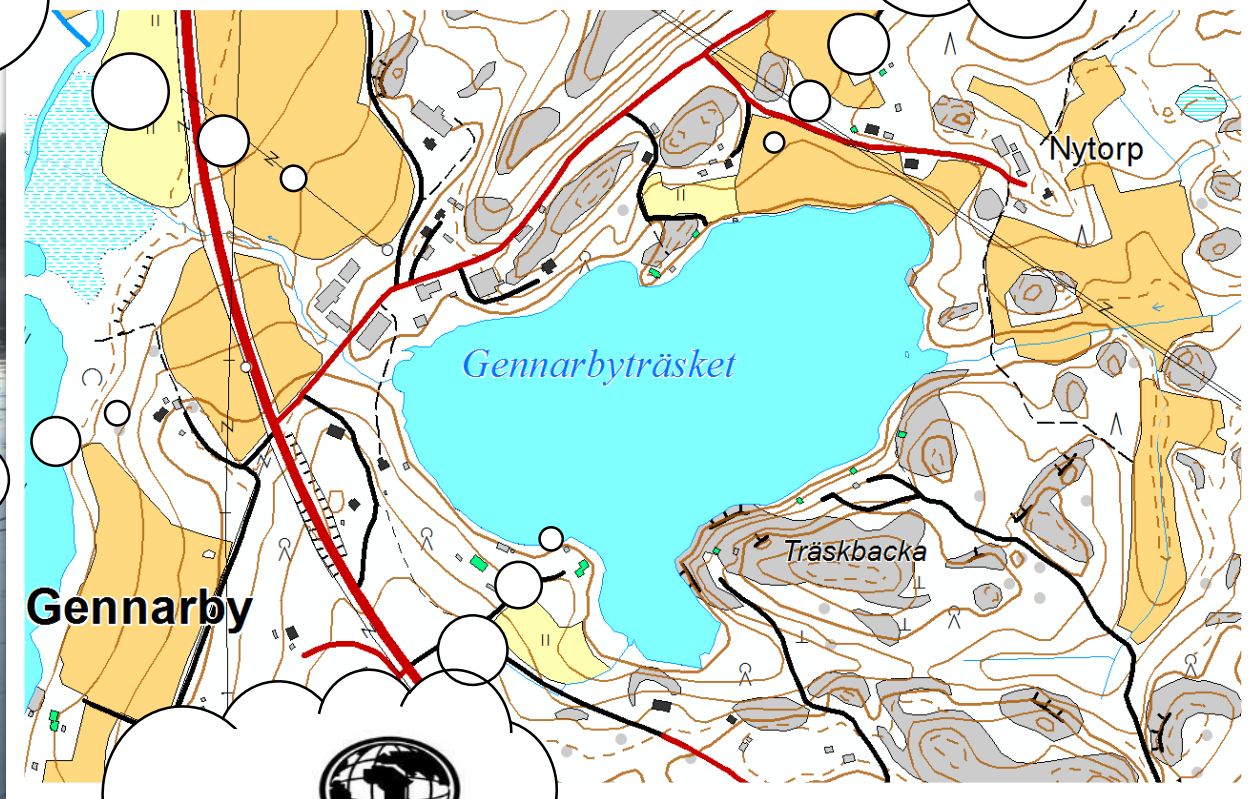
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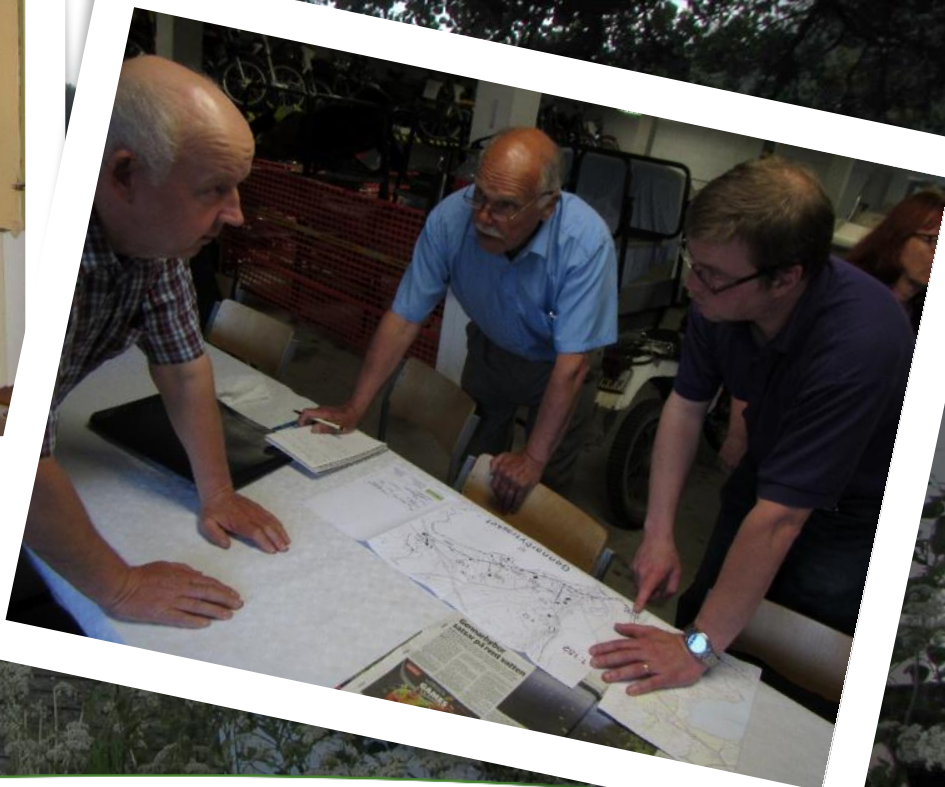


 **Interreg**  
Baltic Sea Region  
VillageWaters



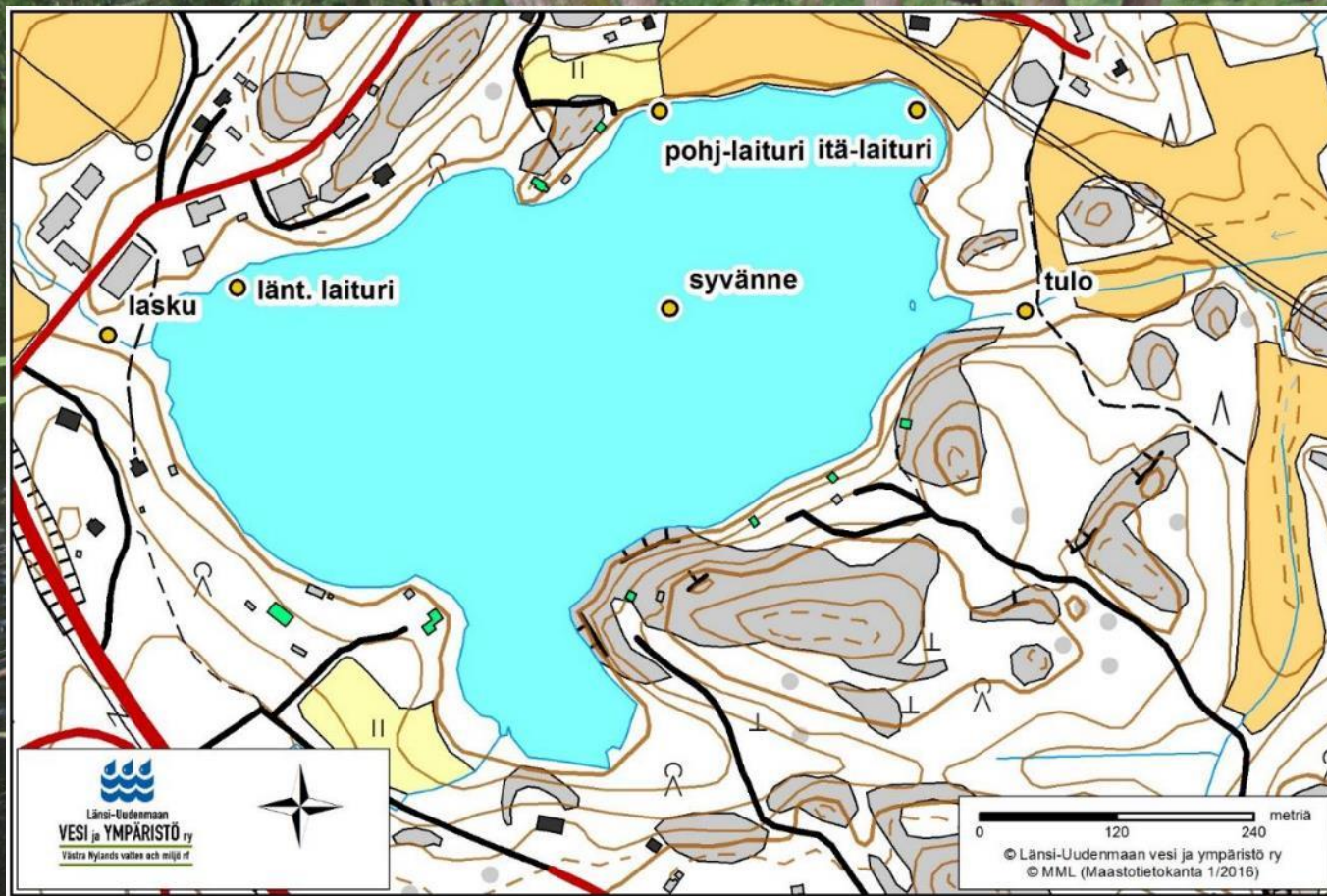
# Gennarby

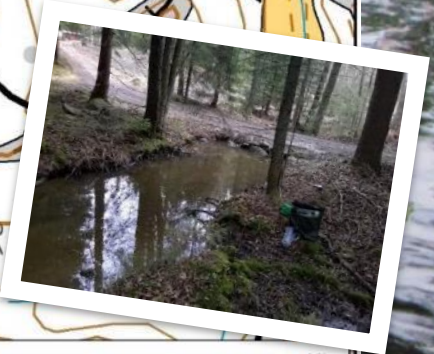




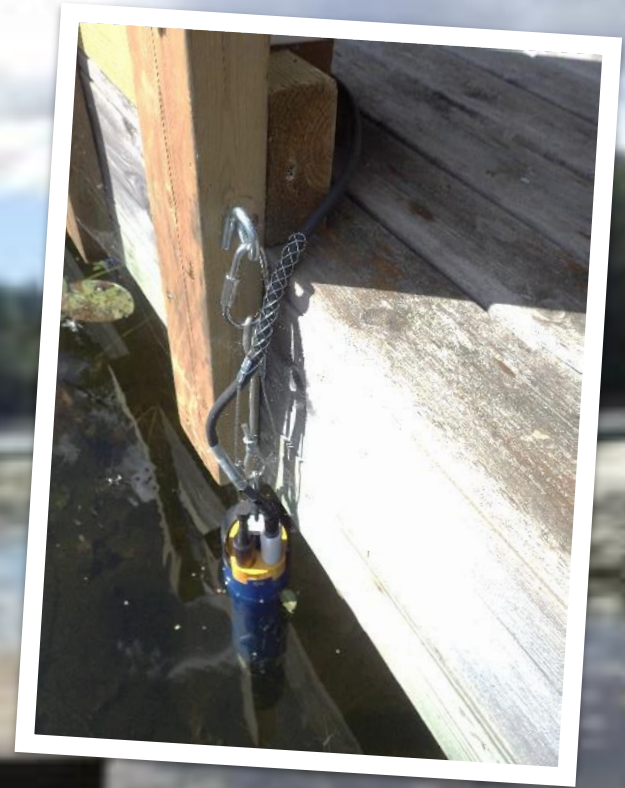
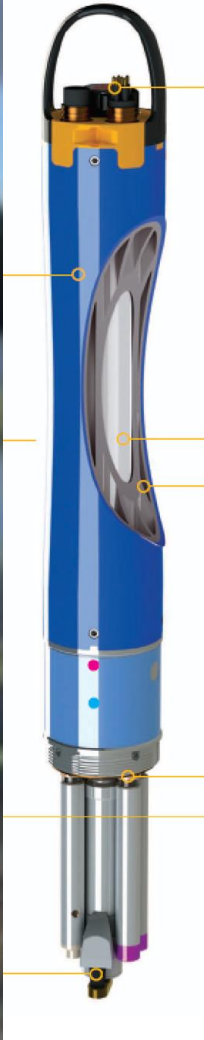


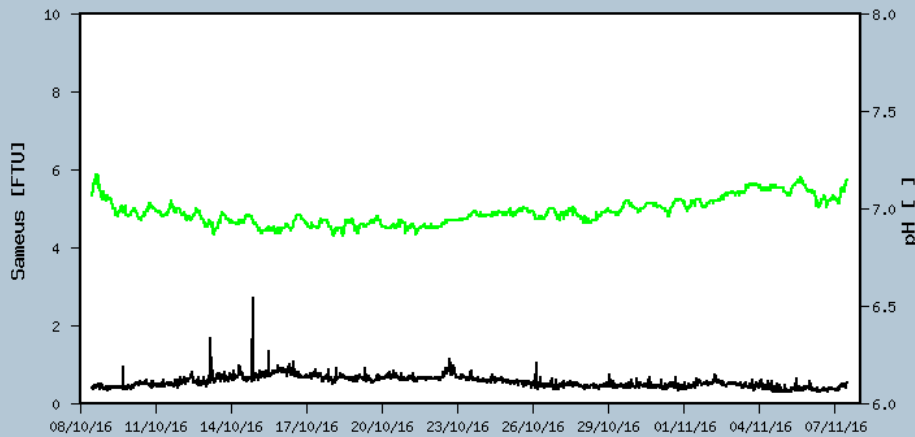
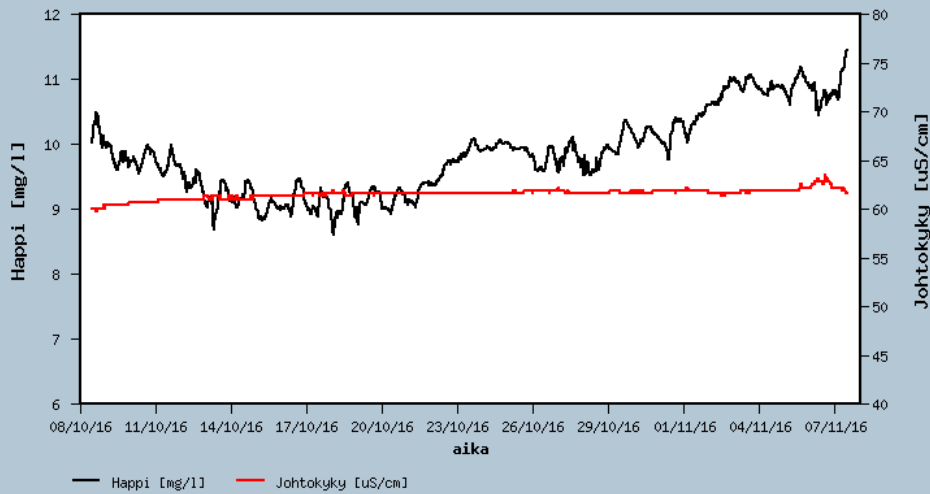




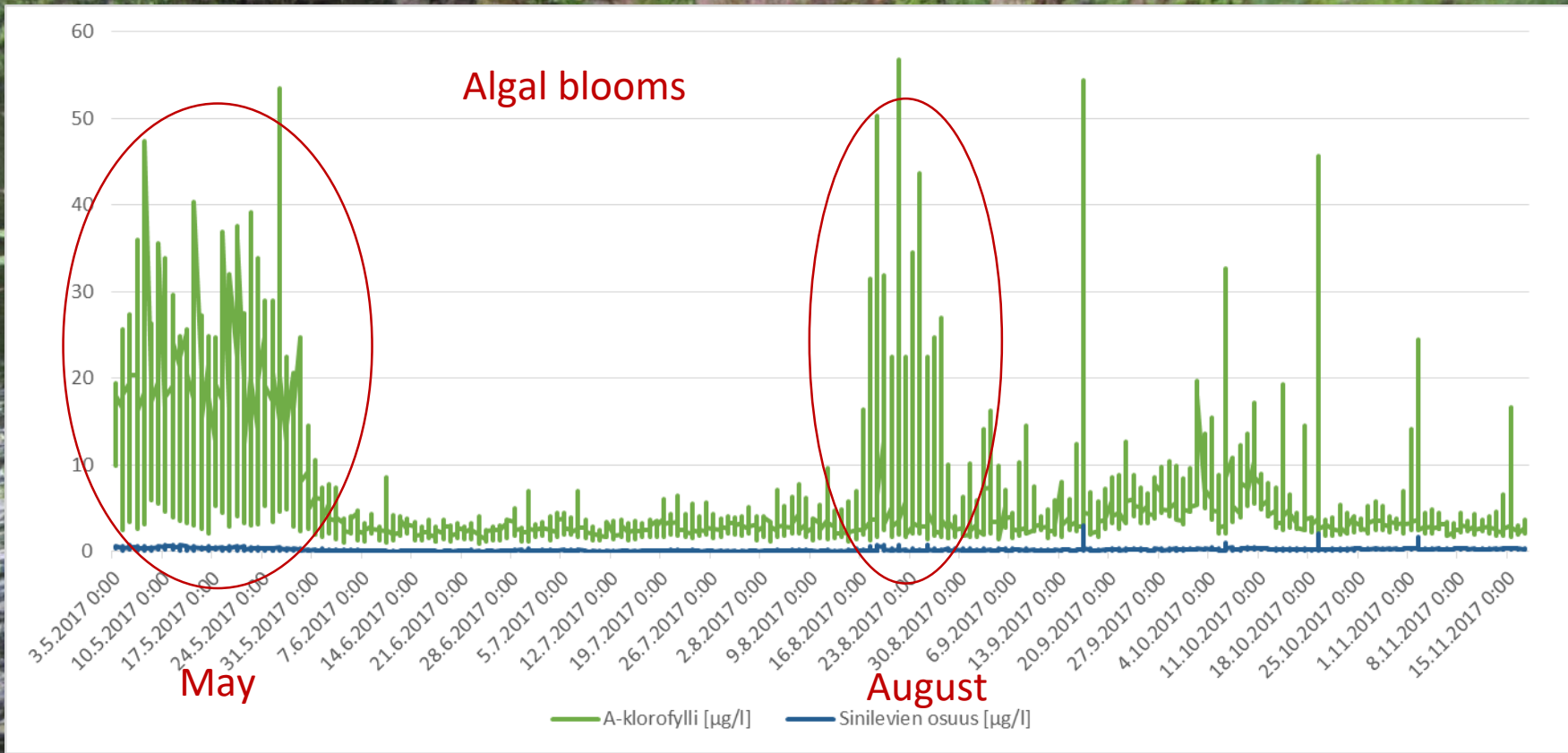


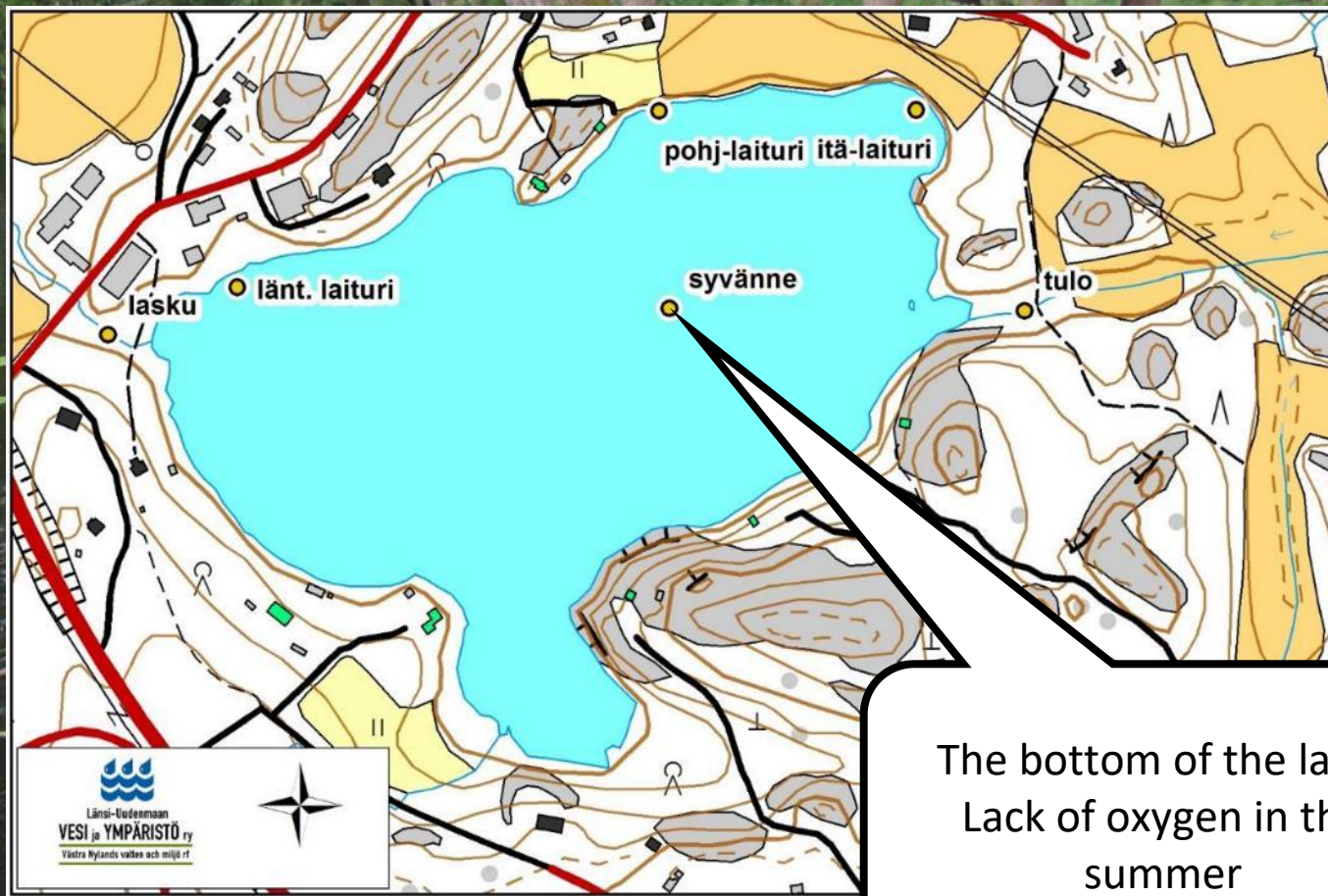
EXO2





- Conductivity
- pH
- Turbidity
- Oxygen
- A-chlorophyll
- Portion of cyanobacteria
- Results online!



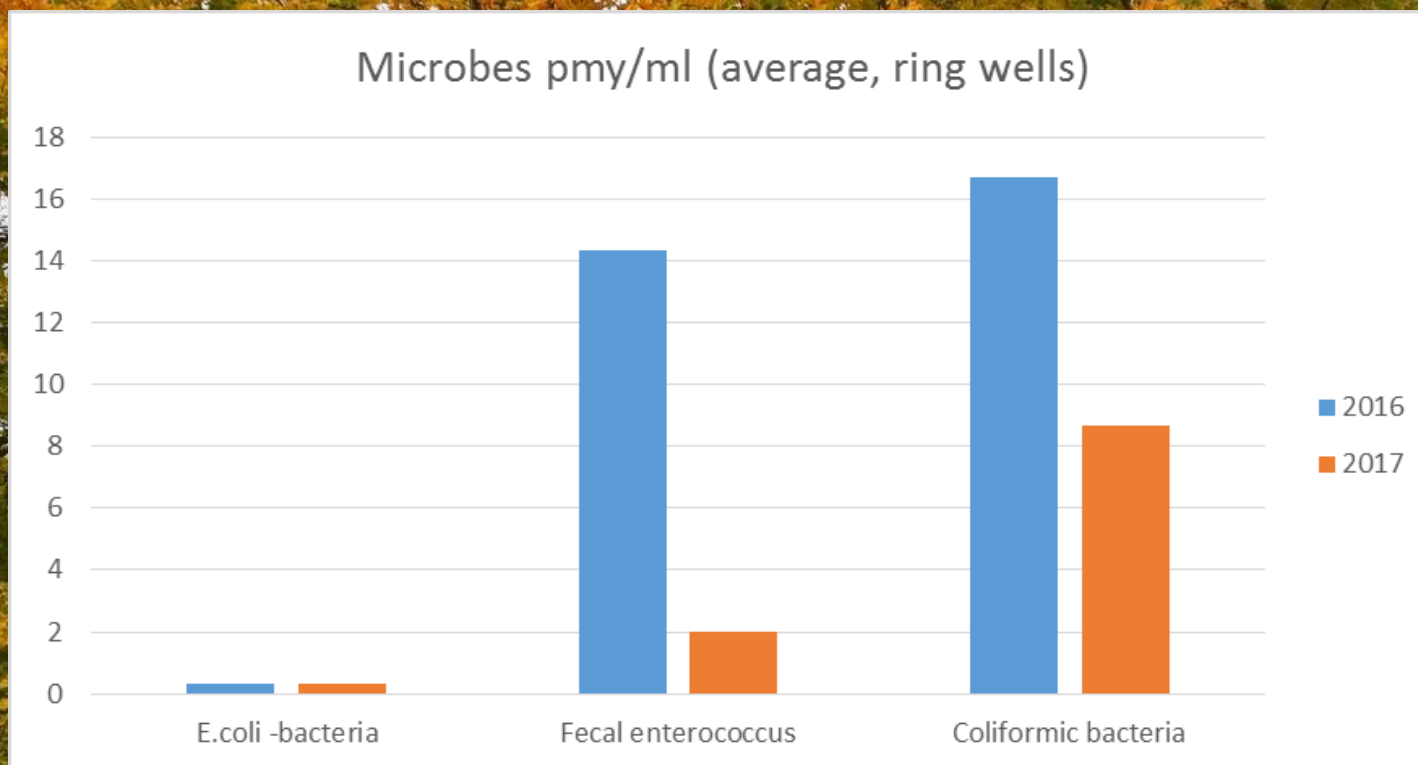


The bottom of the lake:  
Lack of oxygen in the  
summer



- 3 ring wells for sampling in the groundwater
- Soil samples taken (LUKE) between waste water treatments and the wells

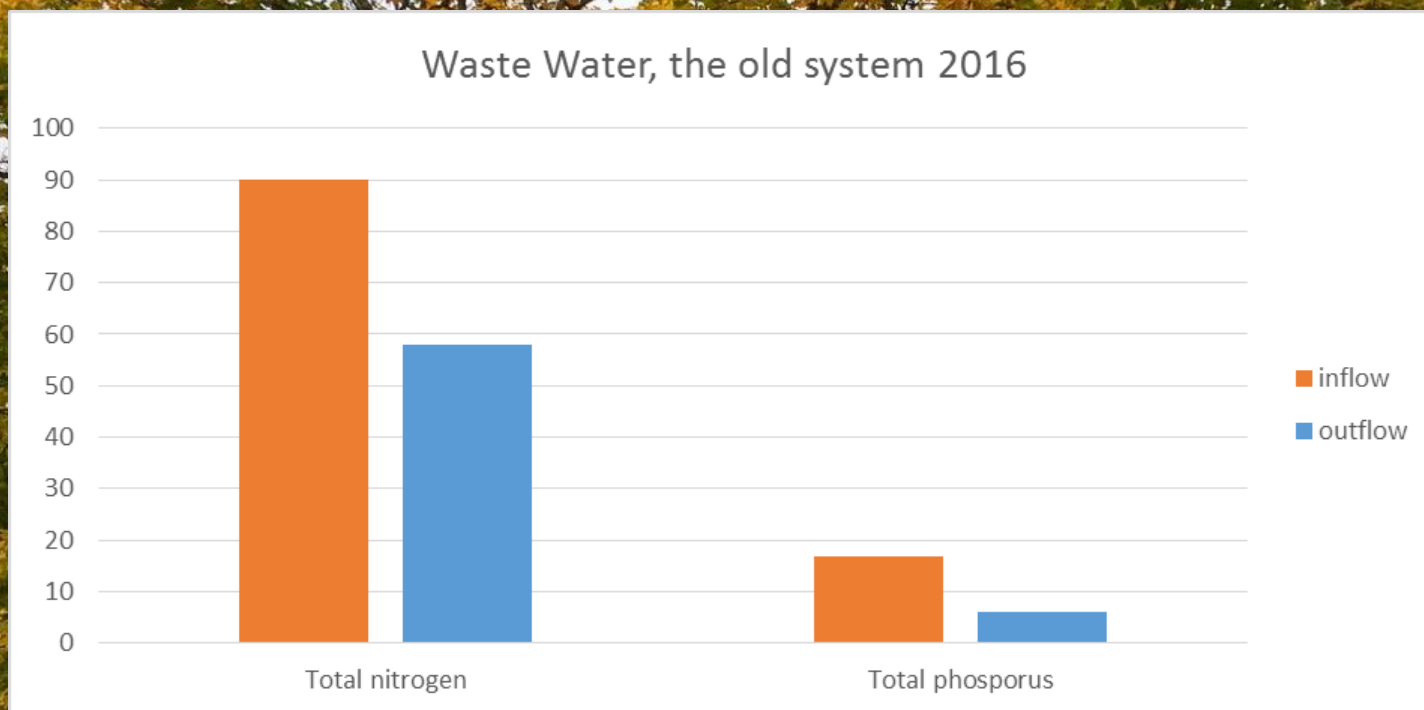


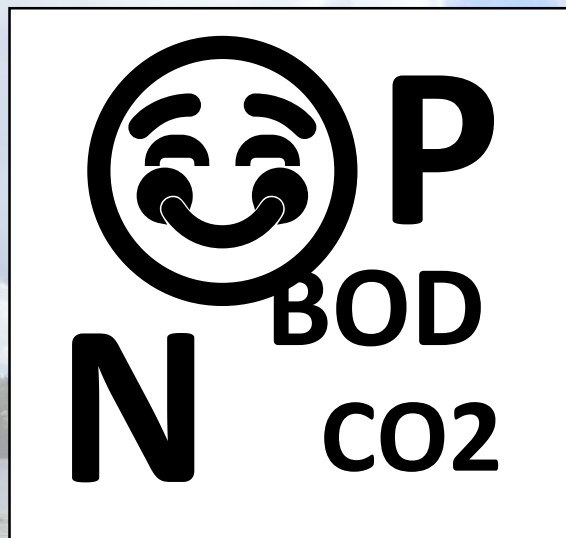






# Waste Water

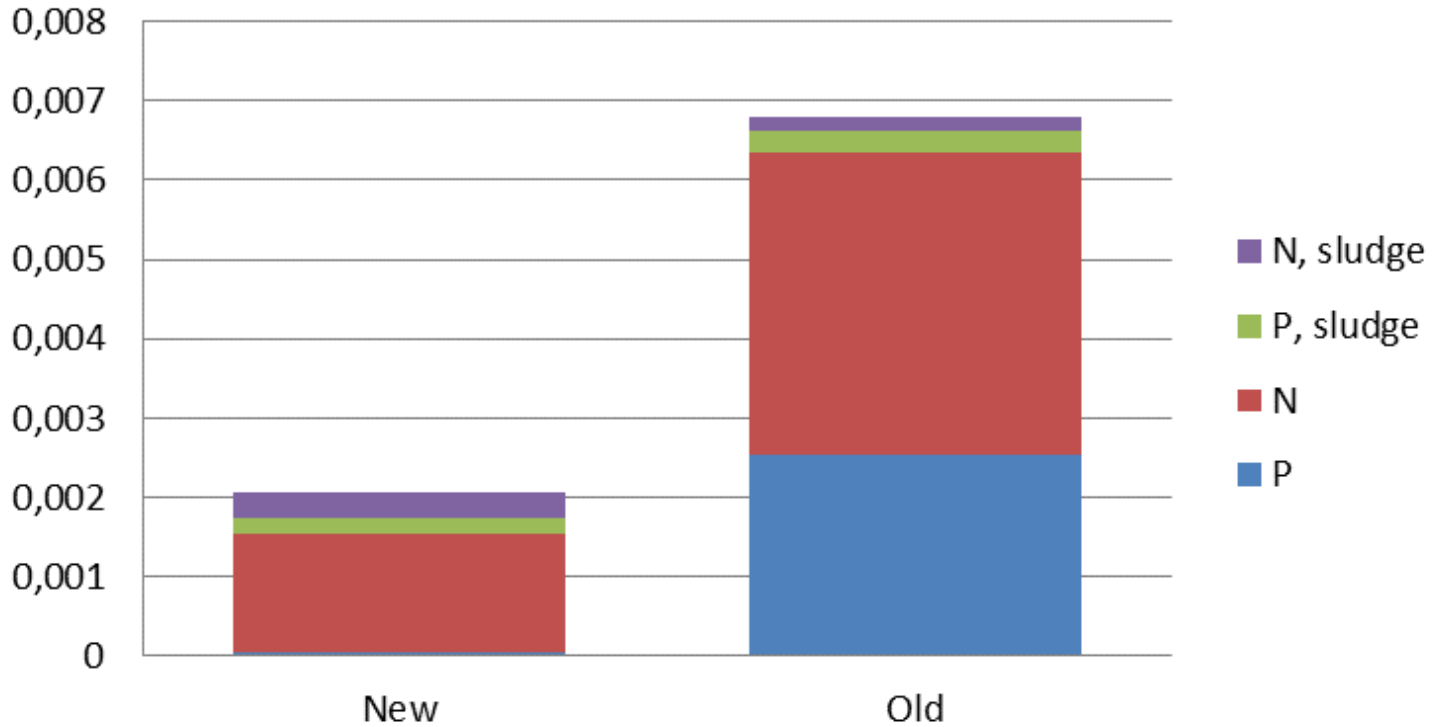


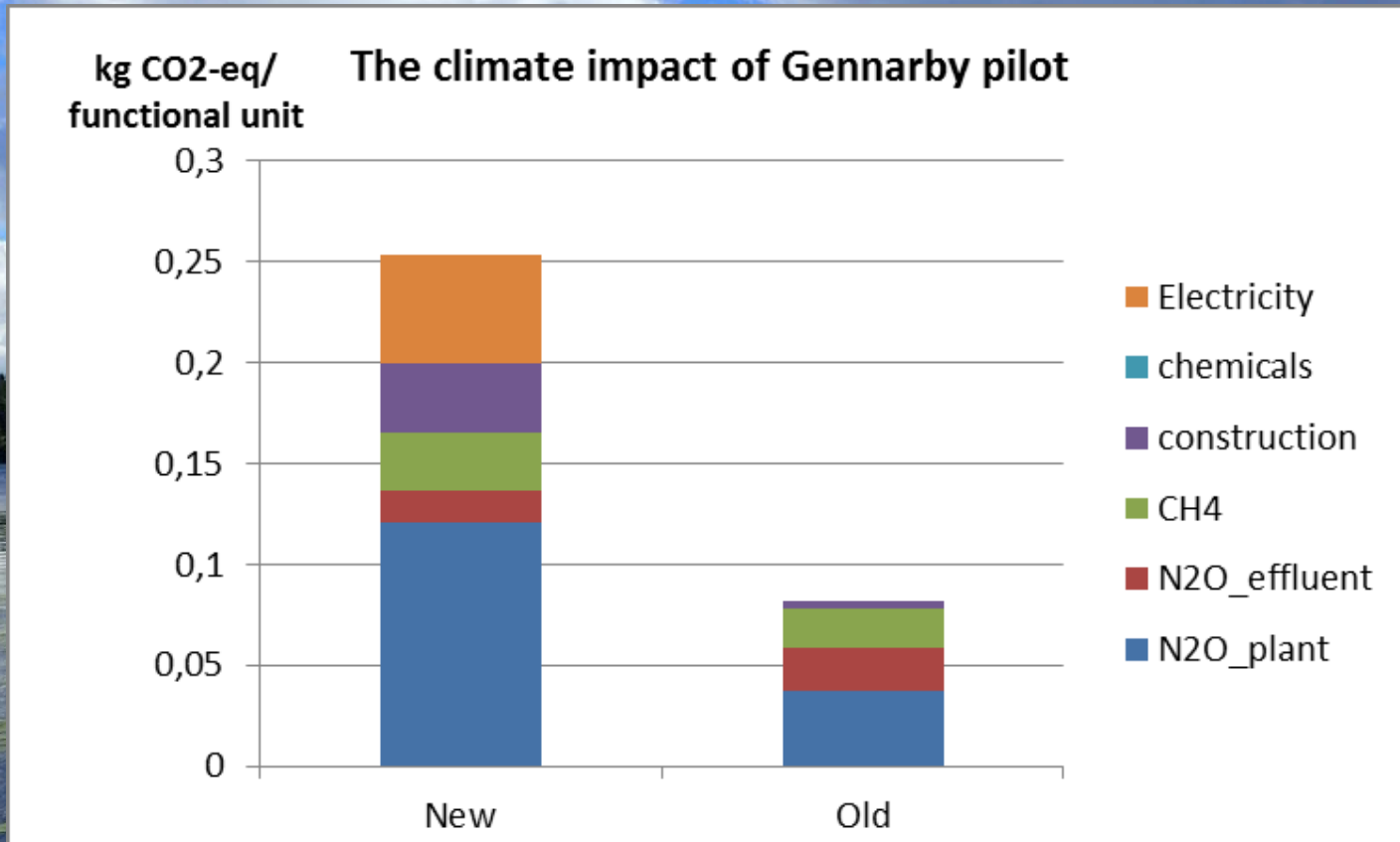


# LUKE: Life Cycle Assessment

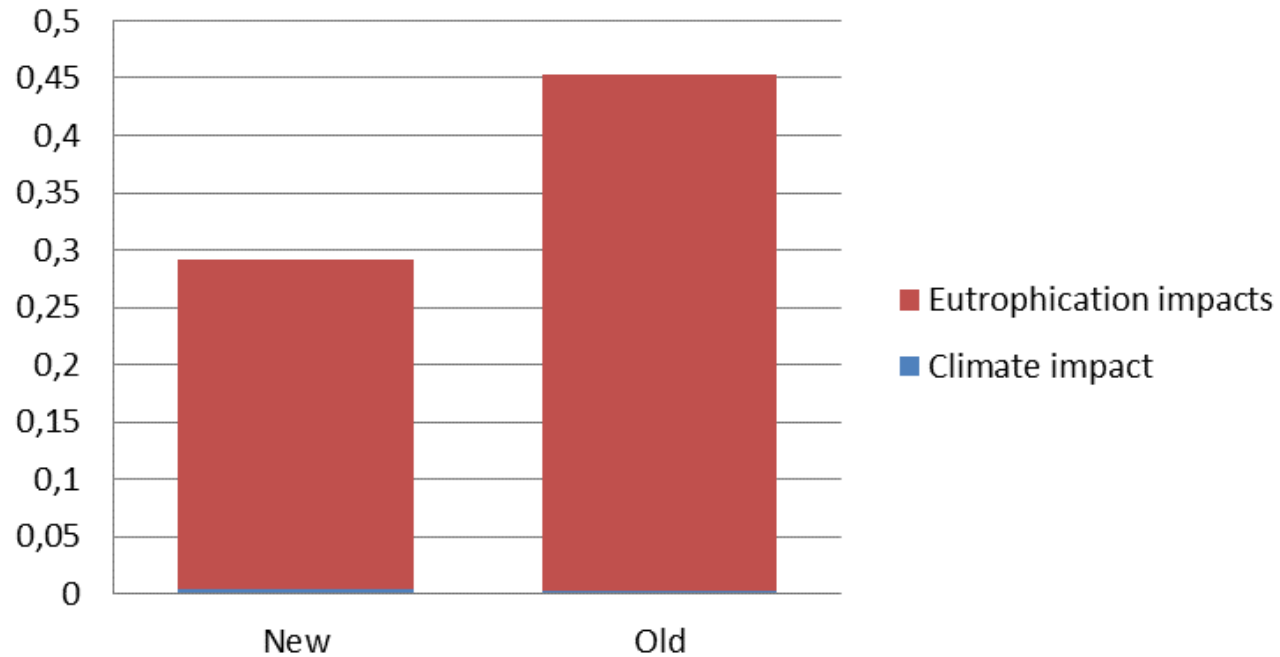
kg PO<sub>4</sub>-eq/  
functional unit

### The eutrophication impact of Gennarby pilot





### The normalised impact of Gennarby pilot



# Overall conclusions

## Gennarby - Finland

- Initiative from the inhabitants, strong participation, pleased customers
- The new technical solution is far more effective than the old ones in terms of eutrophication, but they have a bigger climate impact
- Too early to estimate the actual impact on the Lake Gennarby
- Interesting to see the cost-benefit-results

**Thank you!**



EUROPEAN UNION

EUROPEAN  
REGIONAL  
DEVELOPMENT  
FUND

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**VillageWaters**



Länsi-Uudenmaan  
**VESI ja YMPÄRISTÖ** ry  
Västra Nylands vatten och miljö rf