

## Overview of the pilot status

# Utilisation of stormwater with the aid of “multi-dams”

Västervik Municipality

30 April 2025





VÄSTERVIKS  
KOMMUN

# WaterMan

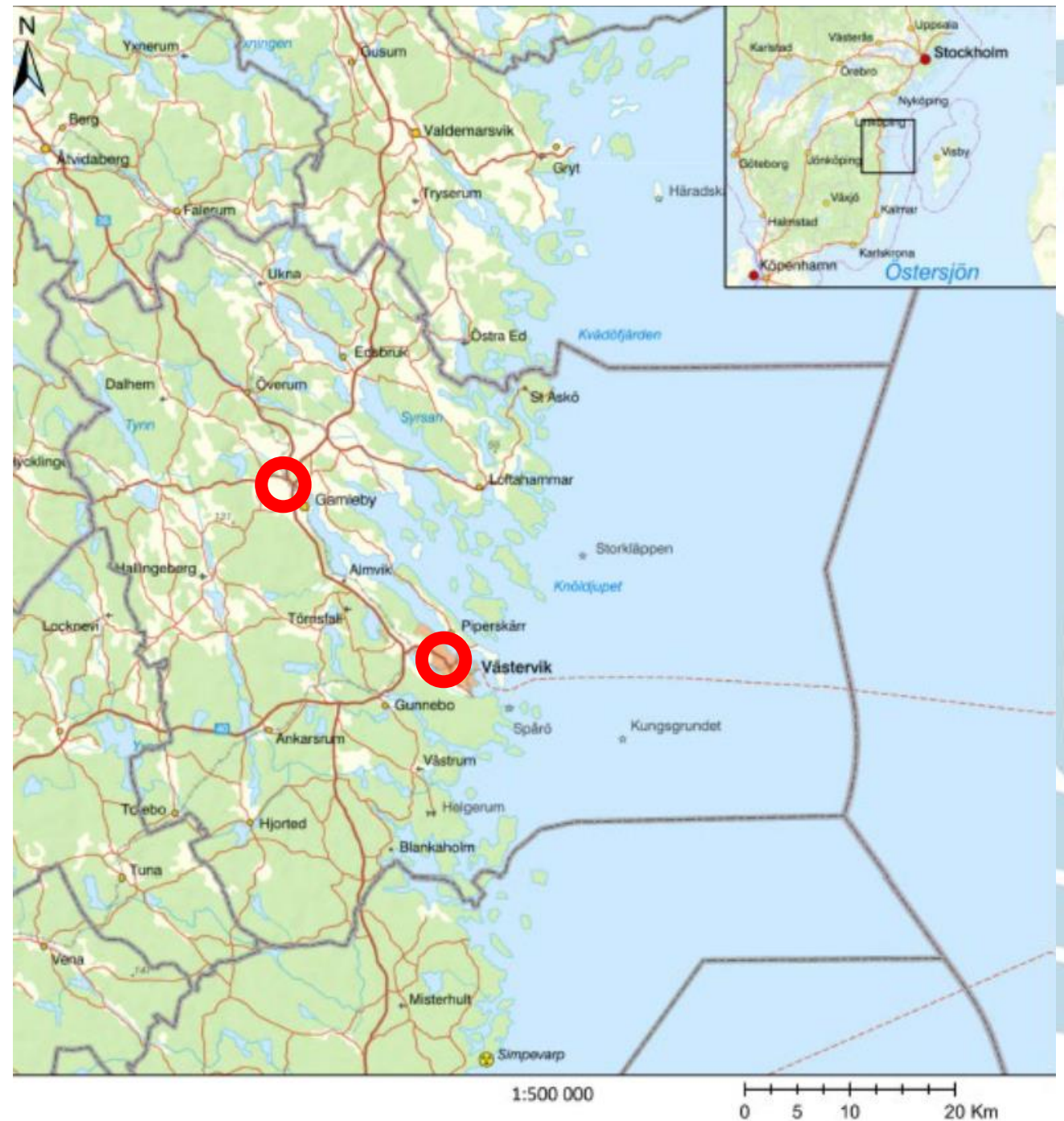
## Västervik Municipality

*Livskvalitet varje dag*

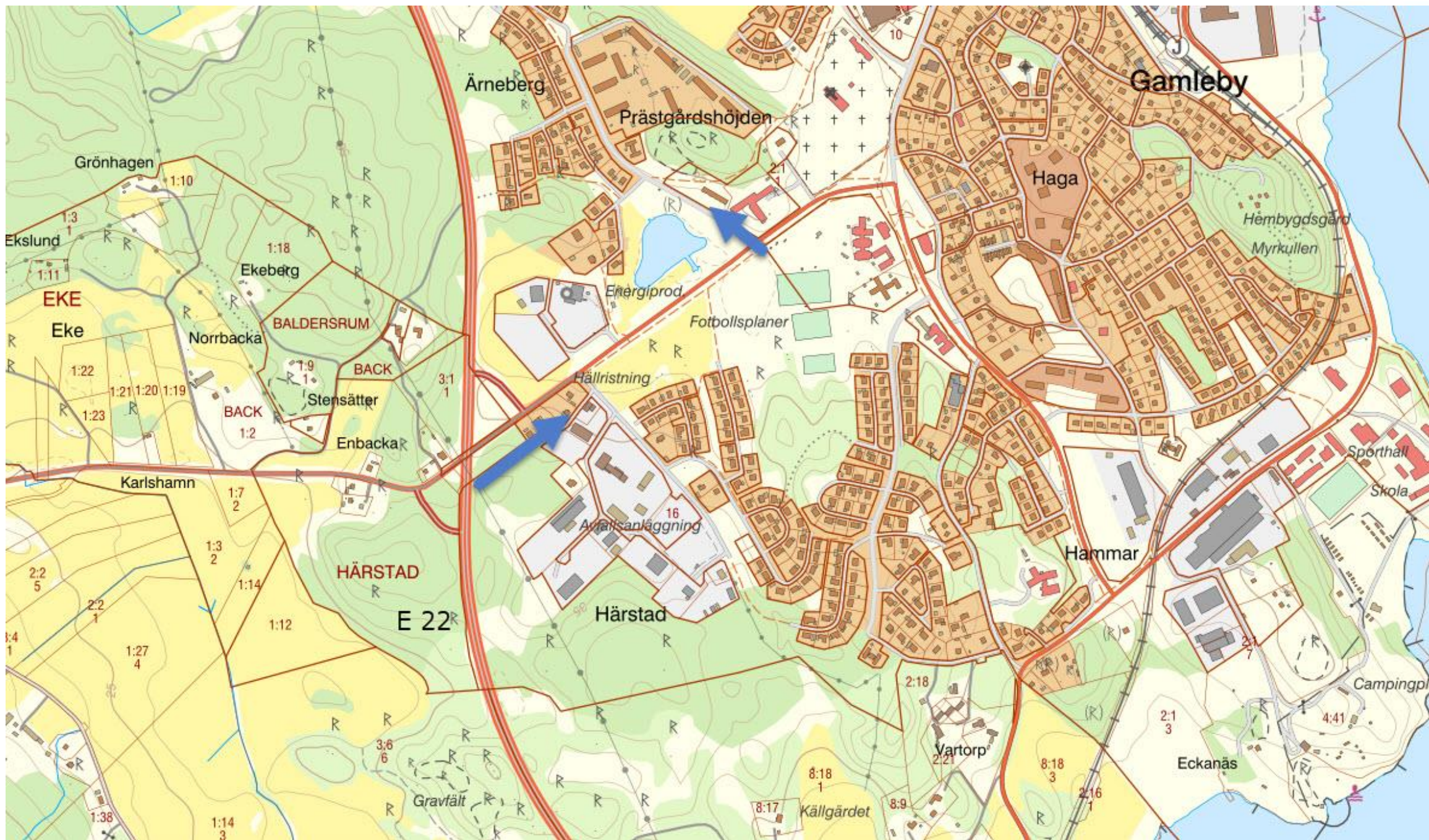




# Pilot area(s)











Visit Dam Cemetary

Vassbäck

Hotel  
Slottsholmen



# Challenges in the pilot area

## *Climate changes*

>>>>>> Floods and droughts

- Nutrient leakage
- Sensitive archipelago environment
- Quality and quantity of drinking water

## *Solutions*

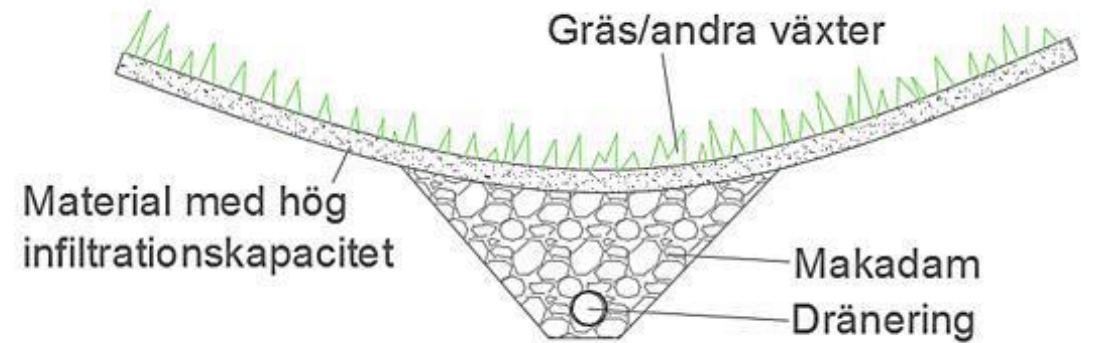
>>> Climate Change Adaptations

Win- Win



# Need for pretreatment

Open stormwater treatment  
Ditches, vegetation, filter





# Biochar

Biochar filters, pretreatment

- water purification,
- carbon storage
- Water delaying

Installation of biochar filter ditches and use of in parks (tree planting) and recreation areas.





# The multi-dam in Gamleby

Since 2020

- For water retention
- Reduces Stormwater problems
- For reducing nutrients
- Recirculation in football fields,  
For artificial snow
- Recreation for citizens
- No further treatment





# Actions planned in Gamleby

Complementary measures to develop the multi-dam in Gamleby for water recirculation

- Use for irrigation in a wider area
- Use in cemetery
- Station for technical water





# Actions 2023-2024 in Gamleby

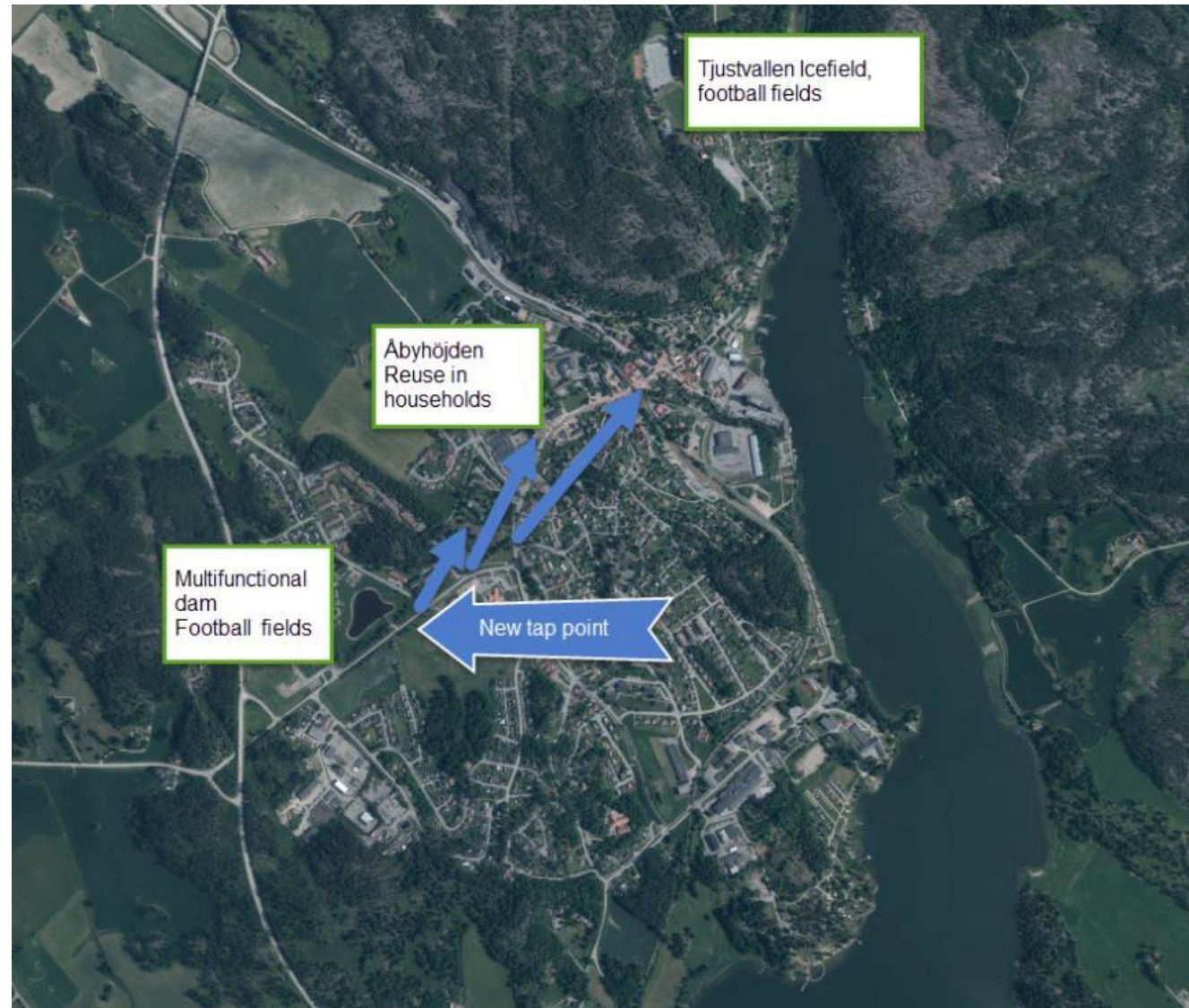
- Plan for maintenance
- Pump for circulation
- Use for irrigation in a larger area
- Plantations and trees in city, plantations cemetery





# Gamleby

Complementary measures to develop the multi-dam in Gamleby





- Tap point for technical water





# Actions in Västervik

- Analyses to find the right places for multifunctional dam level 2.
- Prestudy

Development of existing dam (Örserum)

- Tap point (station for technical water)
- Stormwater to the irrigation system at the football fields
- Pre treatment Open stormwater treatment



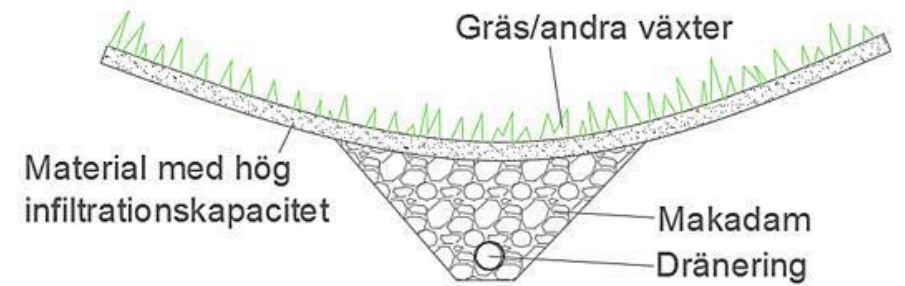


# Actions in Västervik





# Pretreatment





# From the construction



- Retention of 1500 kbm



# Use of contained stormwater

- Not for private cultivation or agriculture
- Not from heavy polluted areas
- We are monitoring pollutants
- If business are interested it should be possible to use for cleaning etc.

## Water reuse scheme

- Stormwater to multi-dam
- Natural treatment, sedimentation etc
- Level 1 for irrigation (and snow)
- Level 2 Business for cleaning etc





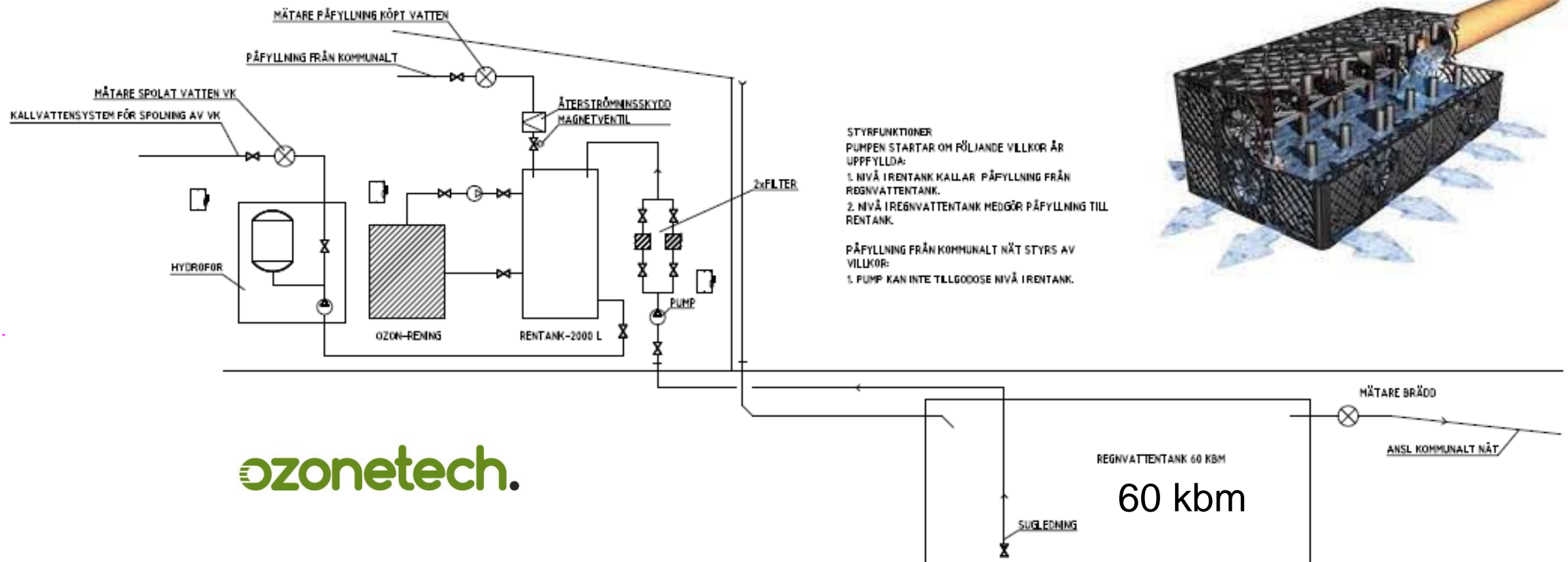
# Users today

- Irrigation sportfields (and artificiell snow)  
Municipality, VBAB, Associations (sport) >10000 kbm
- Irrigation in parks - trees, plantations  
Municipality, Entrepreneurs, Cemeteries 1000 kbm
- Privat houses
- Use of collected water for toilet flushing  
Public housing company





# Reuse of rainwater for flushing Åbyhöjden





# Methods for involving the users

- Contact with the users  
Motivation, Show appreciation
- Interviews
- Advice
- Evaluation  
Follow-up document





# Meet the users on site





# Focus group Irrigation sportfields and parks

- Mostly individuel contact
- Spreads information i the group  
Municipality, Maintenance parks, public housing company, involved associations (sports)





# Potential users

- Use for fire water  
Municipality
- Housing companies  
Mostly irrigation but also rough cleaning
- Entrepreneurs  
Rough cleaning, in/outside, streets, roof, pipes
- Industries? District heating plants?  
Process water



The „BSR Water Recycling Toolbox” was elaborated as part of the project “WaterMan - Promoting water reuse in the Baltic Sea Region through capacity building at local level”, The project is co-financed by the European Union (European Regional Development Fund) and implemented within the Interreg Baltic Sea Region Programme. More information:

[eurobalt.org/WaterRecyclingToolbox](https://eurobalt.org/WaterRecyclingToolbox)  
[interreg-baltic.eu/project/waterman](https://interreg-baltic.eu/project/waterman)

WaterMan promotes a region-specific approach to water recycling, which intends to use the alternation of too much and too little water that has become typical in the Baltic Sea Region to make the local water supply more resilient, and supports municipalities & water companies in adapting their strategies.

*The contents of „BSR Water Recycling Toolbox” are the sole responsibility of the authors and can in no way be taken to reflect the views of the European Union, the Managing Authority or the Joint Secretariat of the Interreg Baltic Sea Region Programme.*

