

Climate impact on water management in Luleå

Petra Viklund

SERN General assembly 2024



Context of climate change in Luleå

- Warmer and wetter in winter (+ 30%)
- Increased rainfall on frozen ground
- Longer period of spring flooding
- Increased risk for erosion





Drinking water production in Luleå

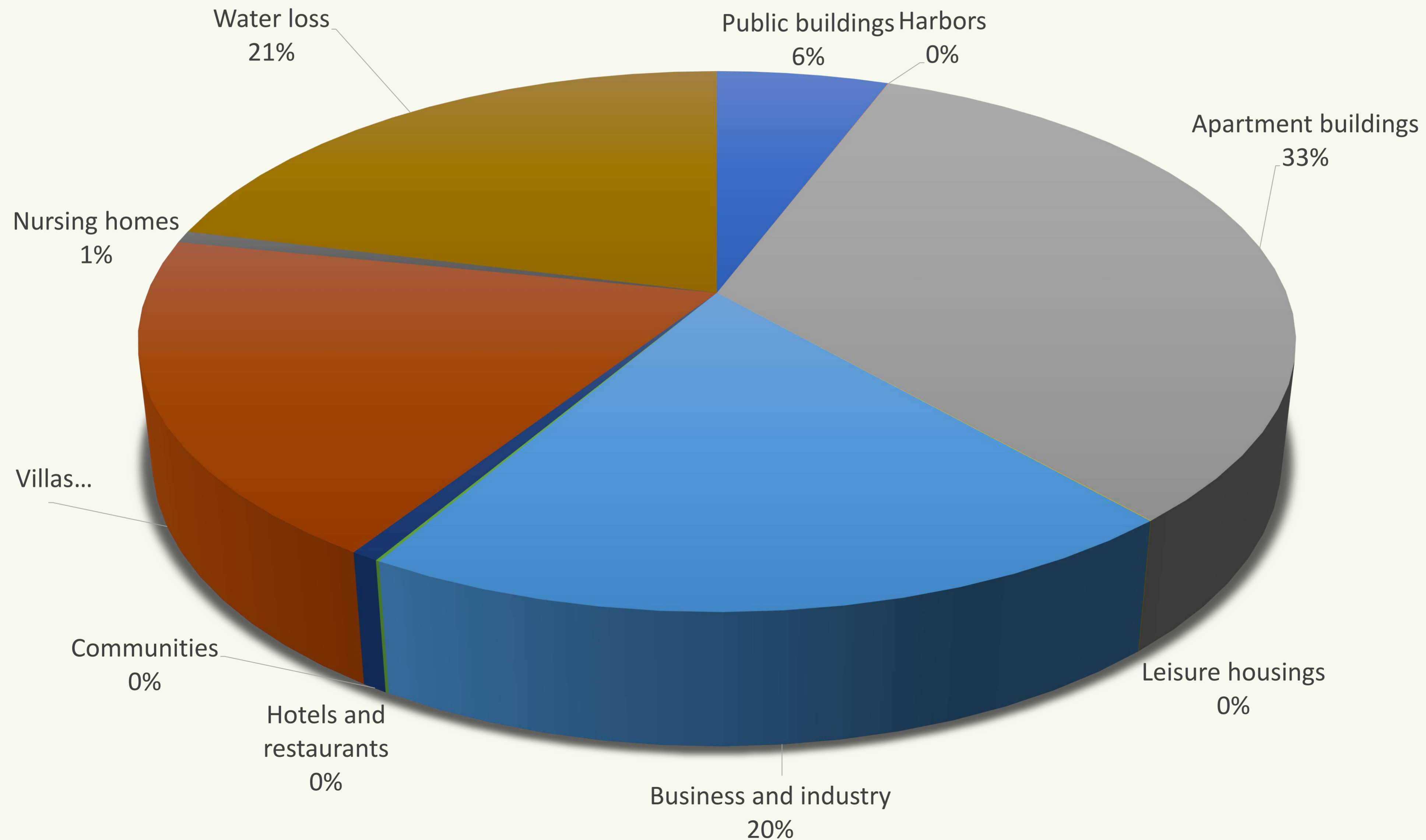
- Ground water production since 1906
- Artificial infiltration of ground water since 1930
- New water works 2015
 - built for 94 000 inhabitants
 - artificial ground water in combination with river water
 - process for reduction of turbidity

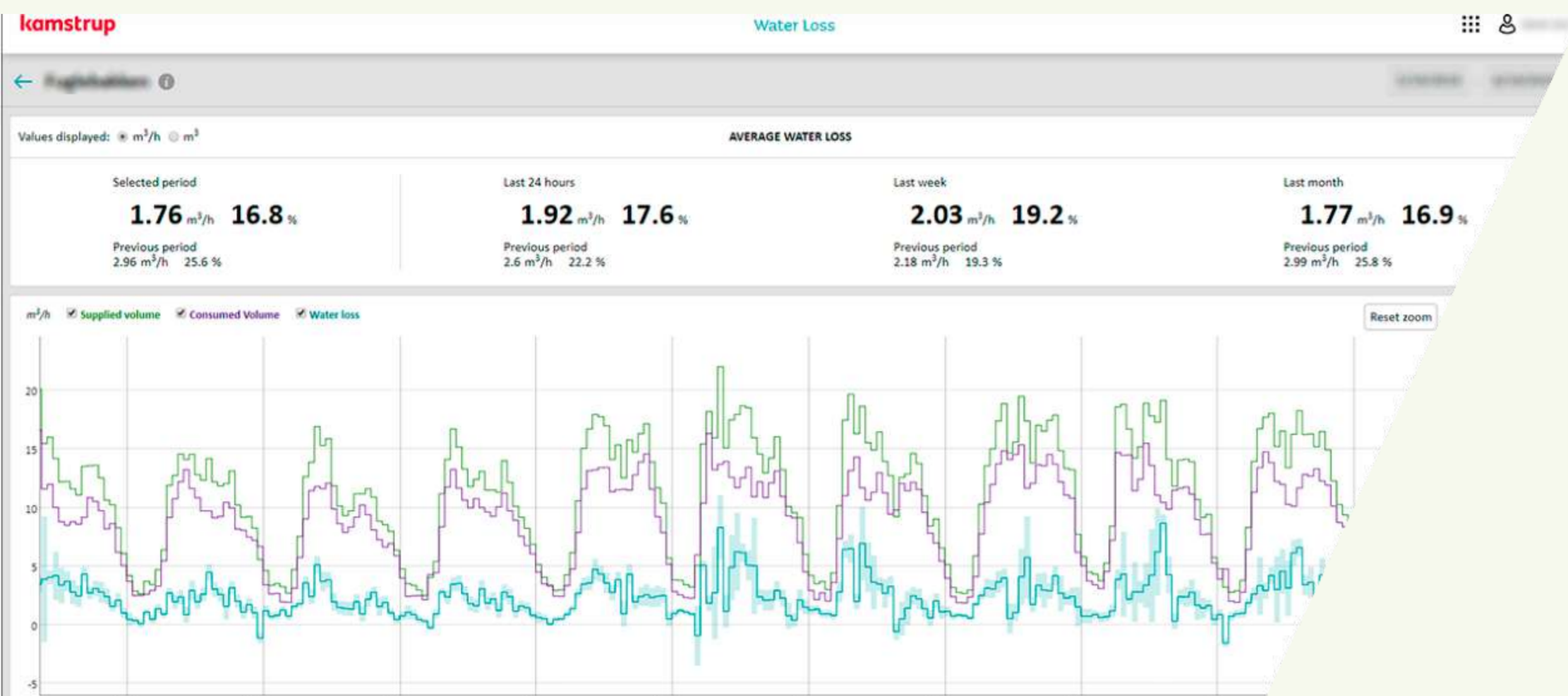


The green transition in Luleå

- 100 000 inhabitants by 2040
- 5 000 new jobs
- 0 climate impact
- 100% functional everyday life

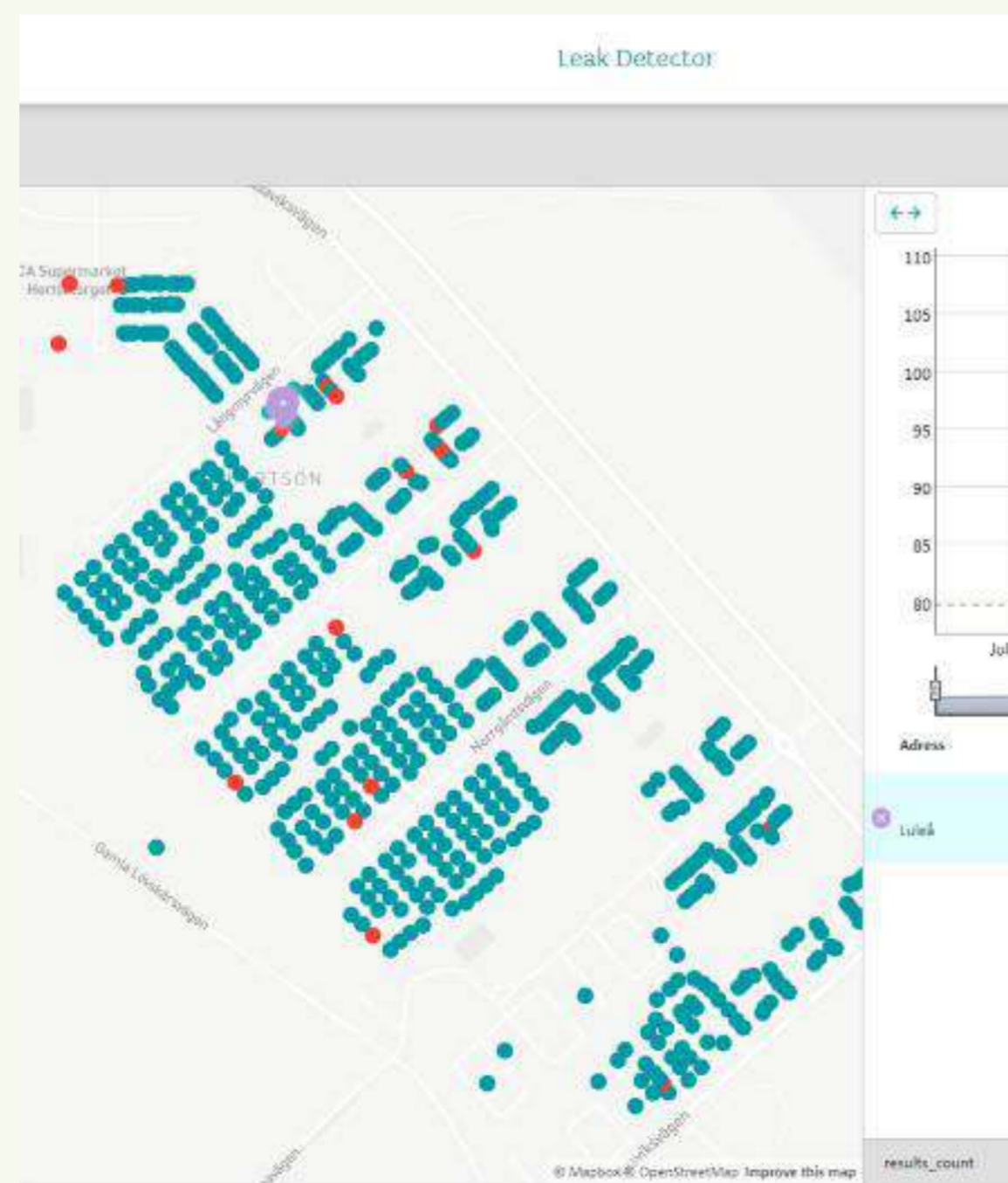
Drinking water consumption in Luleå 2023





Reducing water loss in Luleå

- 20 % water loss in pipe network
- Ultrasonic water meters installed
- District meters installed
- Active leak detection
- Influence consumers to reduce water consumption





Influencing the water consumption within the industry

- Communal technical water system in Luleå industrial park
- Technical water for cooling and process consumption
- Technical water as fire water
- Technical water for flushing toilets



Together we will make Luleå sustainable

Petra Viklund, Head of Water and waste water
petra.viklund@lumire.se