

# Overview of the pilot status

## Stormwater recycling for fountain operation and greenery irrigation

### Saldus Municipality

30 April 2025





**Saldus  
Municipality**

**WaterMan**

Saldus piepilda





THE CIECERE RIVER FLOWS THROUGH THE SALDUS AND IS ITS MAIN DRAINAGE POINT. SALDUS IS FACING BOTH PERIODS OF DROUGHT AND REGULAR FLOODS, IN PARTICULAR IN SALDUS TOWN CENTER THAT IS LOCATED LOWER THAN THE SURROUNDING AREAS AND LACKS WATER RESERVOIRS TO ABSORB WATER FROM HEAVY RAINFALL OR RAPID SNOWMELT. SALDUS IS ARRANGED LIKE A « BOWL ».

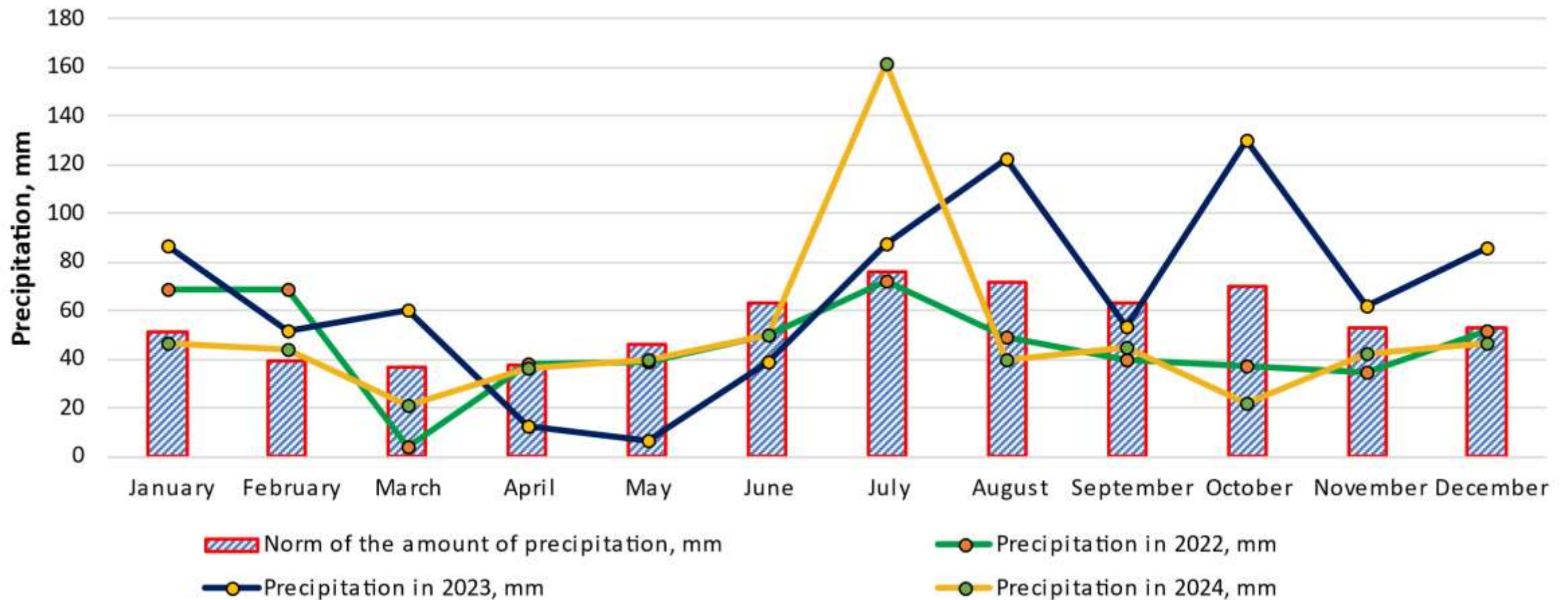


To address this issue, the Saldus Municipality has joined the WaterMan project, which aims to provide a solution that combines both the sustainable development of the city and the desires of its residents. In the case of heavy rainfall, the situation in the city center can also be as follows:





## Precipitation in City of SALDUS from 2022 - 2024

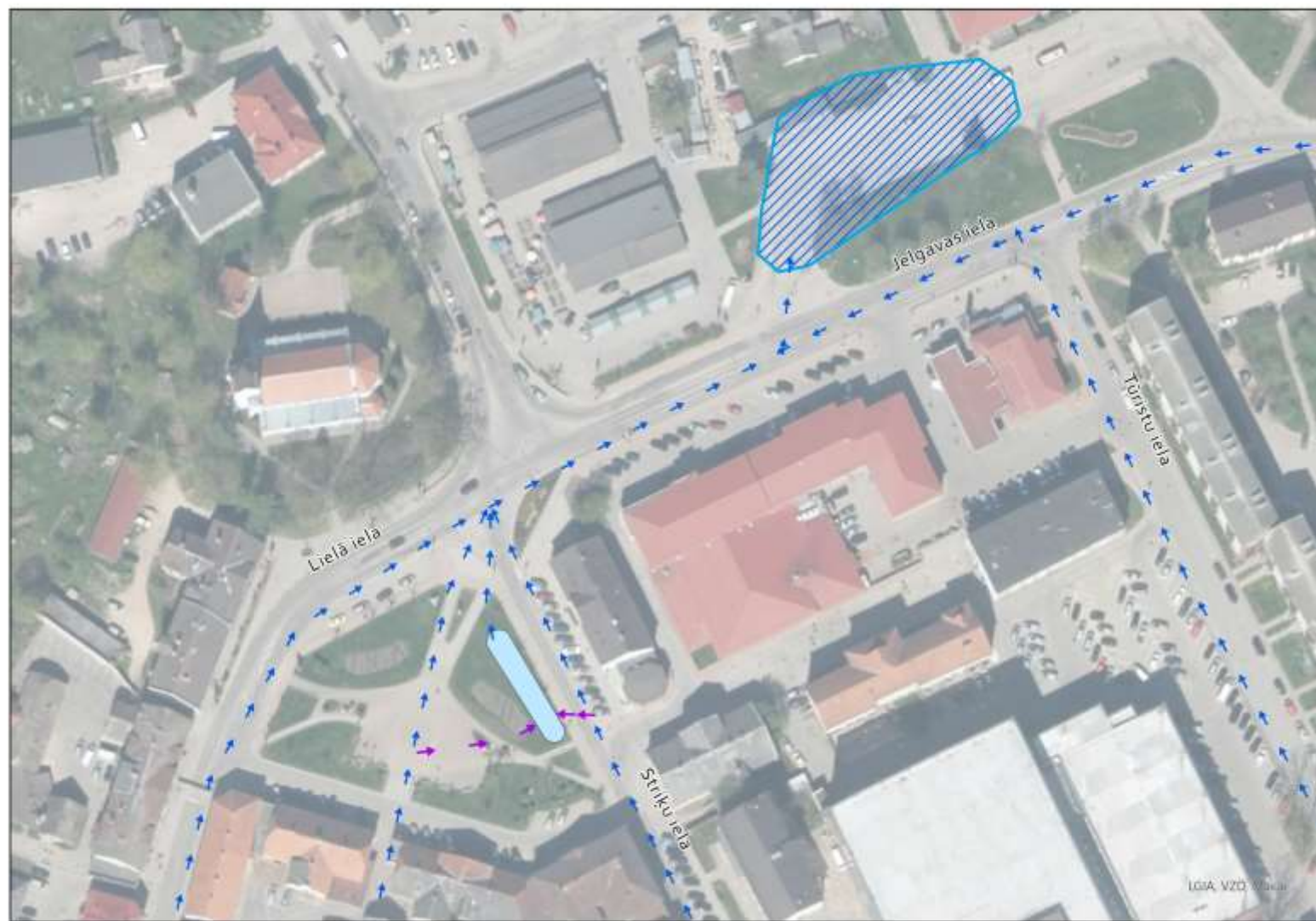


# Actions Implemented in the project: a Path to Sustainable Development

---

- Geological research
- Rainwater analysis
- Development of the project vision
- Preparation of technical documentation
- Communication and public education







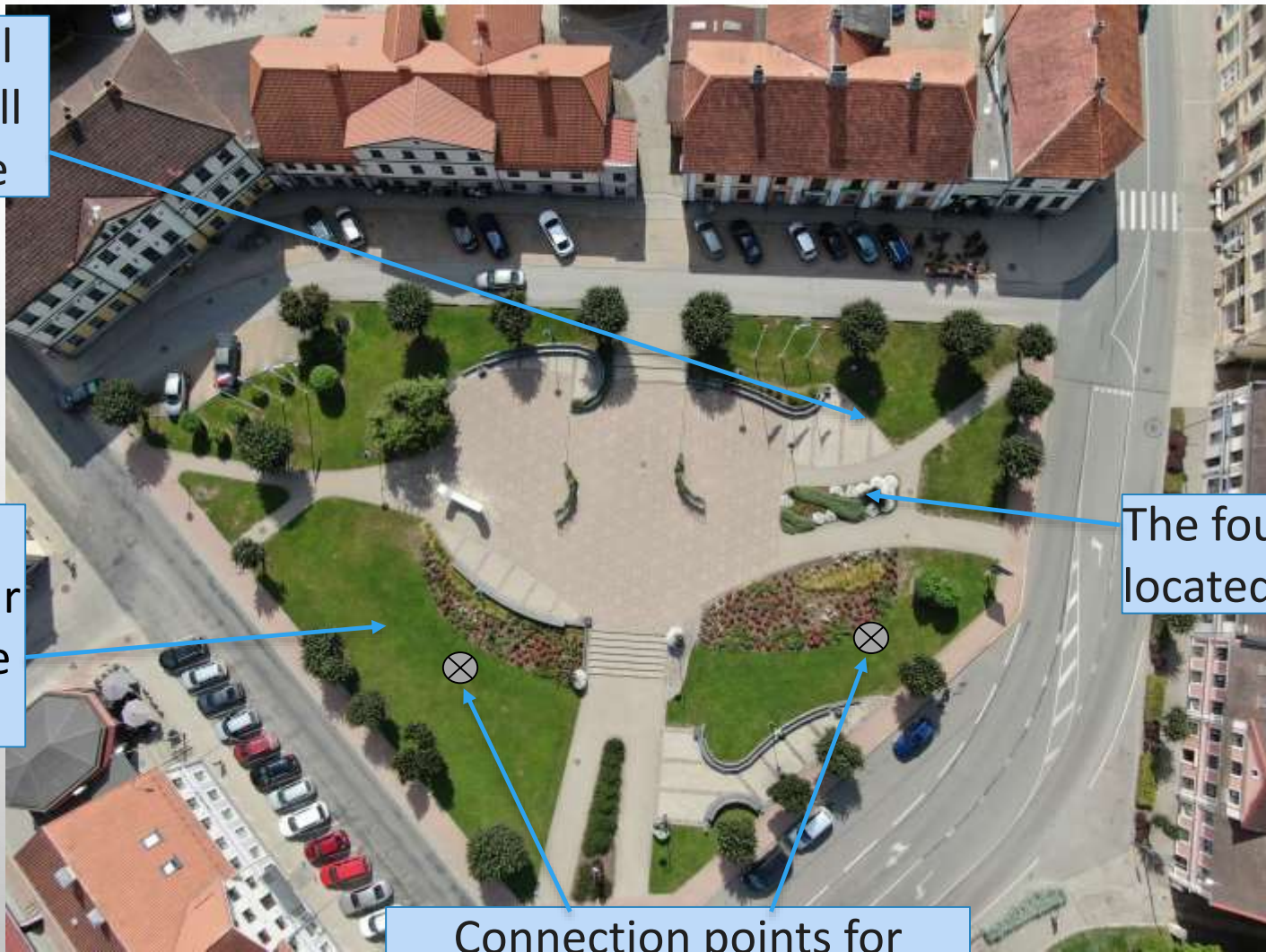
# Results of the Analyses of Rainwater <sup>2023/2024</sup> in Kalpaka Square

---

- **Total suspended solids:** 16.2-182 mg/l
- **Conductivity:** 74.9- 130  $\mu\text{S}/\text{cm}$
- **Total Microorganism Count (MAFAM):**
  - Total Microorganism Count at 22°C:  $2.2\text{-}3 \times 10^4$  CFU/1ml
  - Total Microorganism Count at 37°C:  $4.2 \times 10^2$  CFU/1ml
- **Escherichia coli** (CFU/100 ml):  $1.1 \times 1000$
- **Intestinal enterococci** (CFU/100 ml):  $3.8 \times 1000$
- **Petroleum Products:** not detected
- **pH:** 6.6-8.1
- **P total:** < 0.10
- **N total:** 1-2.8
- **COD** (Chemical Oxygen Demand): < 30



# Technical Documentation -Multifunkcional Use of the Fountain



The educational touch screen will be located here

The underground rainwater reservoir (90+10 m<sup>3</sup>) will be located here

Connection points for greenery watering (located in wells)

The fountain will be located here

90 m<sup>3</sup> rainwater reservoir

Fountain operation

Watering of greenery

Street watering (in spring)



# Technical Documentation - Multifunctional Use

in





# Collected rainwater treatment

---

## Water Quality Requirements:

- pH level: 7.2 to 7.6
- Total water hardness: 8° to 15° dH (1.4 – 2.3 mmol/L)
- Chloride content: max 250 mg/L

→ Cleaned from coarse impurities

→ Separator for Sand and Oil Products

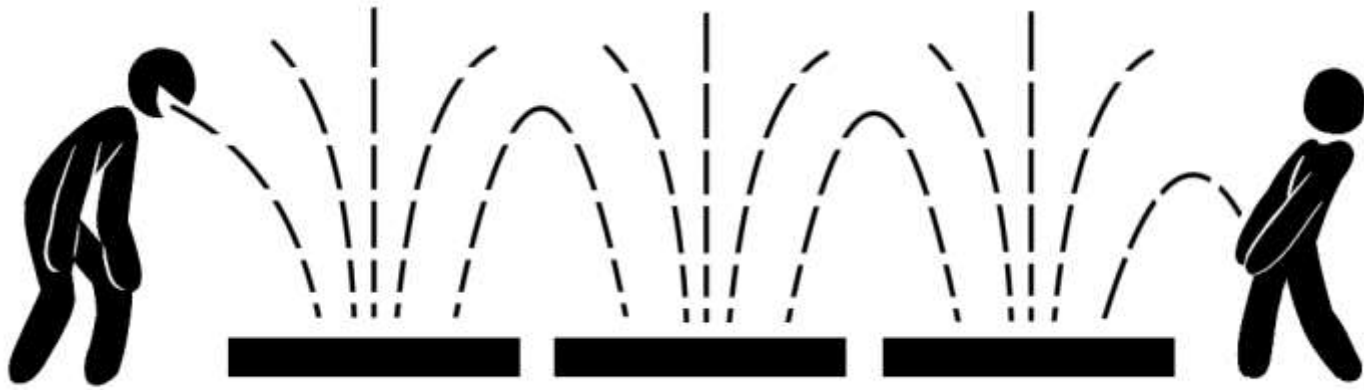
→ Water Preparation Equipment Unit

↓

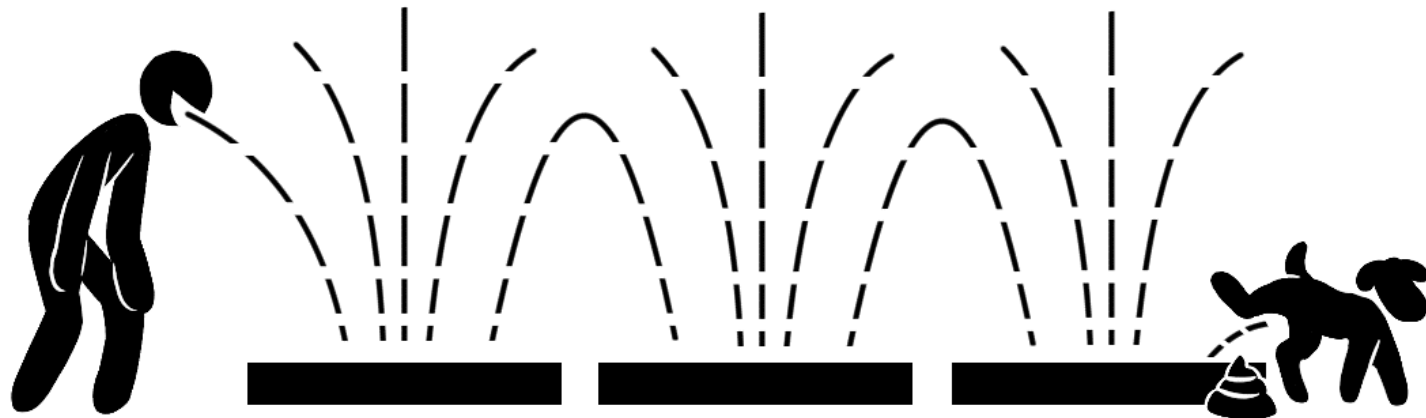
2 UV radiation lamps have been installed in the water treatment unit to prevent bacterial contamination

*Done if construction works are carried out*

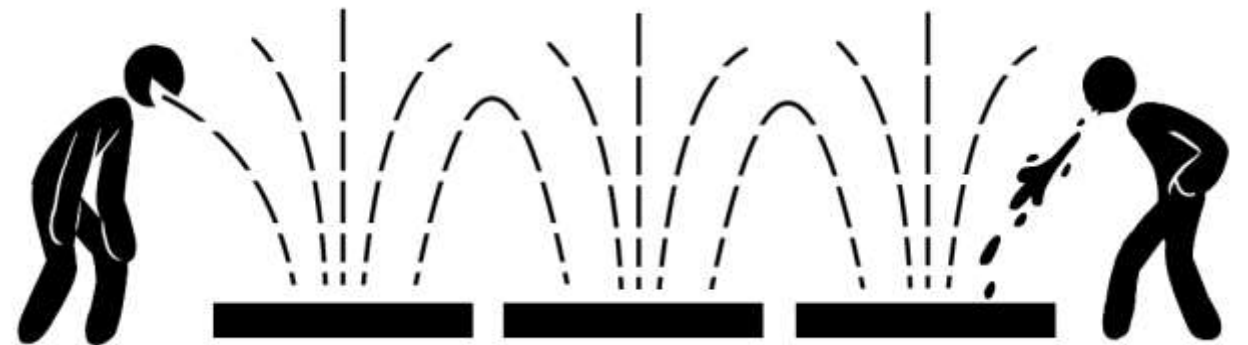




*Installed if construction  
works are carried out*



Attention! The water may be  
contaminated!  
DO NOT DRINK!



# Planned Fountain Monitoring in the Technical Documentation

*Installed if construction  
works are carried out*

---

**Damage Signal:** Alerts in case of damage or malfunction.

**Water Metering Devices:** Ultrasonic water meter with data transmission capability. Reflects seasonal water consumption (data updated daily and stored in the database). Water used for irrigation will be recorded separately.

**Tank Level Sensors:** Informative graphics display level changes over time. Level measurement device.

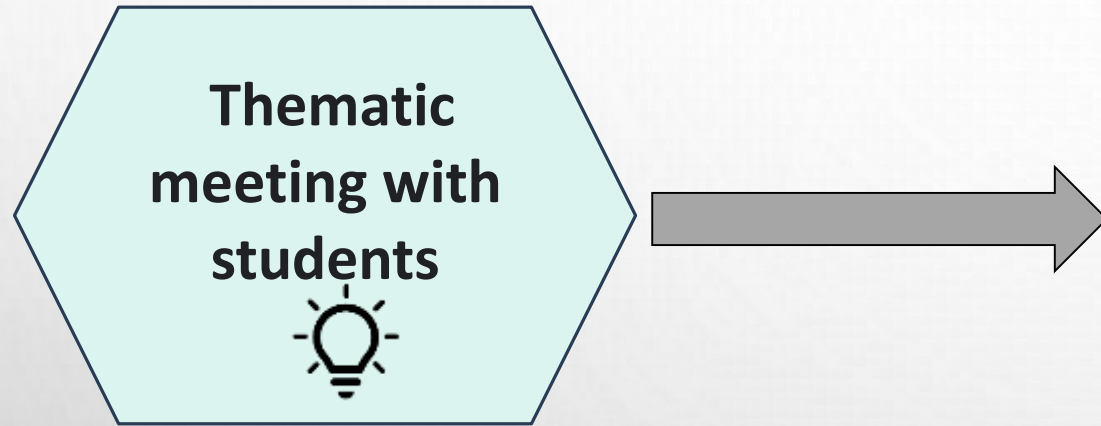
*Data will be displayed on a unified platform with options for transmission to tablets and third-party systems.*





# Educated and Informed Society May 14, 2024

## EDUCATIONAL AND INFORMATIONAL ACTIVITIES IN SALDUS



Topics Covered: *Climate change, Water reuse practices, Planned activities within the project*

Saldus Elementary School participants: 93  
Saldus Secondary School participants : 84

Two of the largest schools in Saldus:





# Educated and Informed Society

September 27, 2024

## EDUCATIONAL AND INFORMATIONAL ACTIVITIES IN SALDUS

Thematic meeting  
with Saldus  
residents



Informative event about  
four projects implemented  
in Saldus Municipality.  
One of them is WaterMan.



*Local press representatives were invited*

# Future Plans for Rainwater and Wastewater Management in Saldus Municipality

---



- Implement the developed innovative project idea, attracting investments.
- Collaboration with entrepreneurs in realizing new, innovative ideas in Saldus - reuse treated wastewater for business needs.



Jānis Blūms



+371 29551442



111water@inbox.lv

Eva Jēkobsone



+371 20267729



eva.jekobsone@saldus.lv



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.*

