





















The WaterMan project Reuse of public swimming pool water

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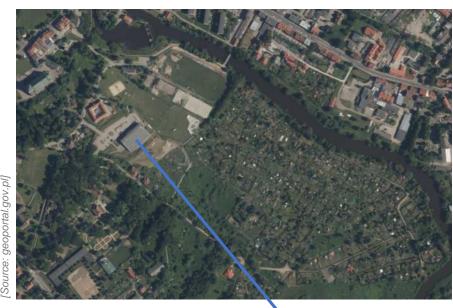












Location:

Łąkowa 1 Street, Braniewo, Poland



Municipal Sports Center "Zatoka"

Recreation & Rehabilitation Complex "Healthy Braniewo"

Infrastructure:

- Indoor pool complex:
 - sport swimming pool
 - leisure pool with wading pool
 - SPA bath
- Wellness facilities:
 - o sauna rooms (x2)
 - o gym
 - massage parlour
 - o rest zone
 - tanning beds



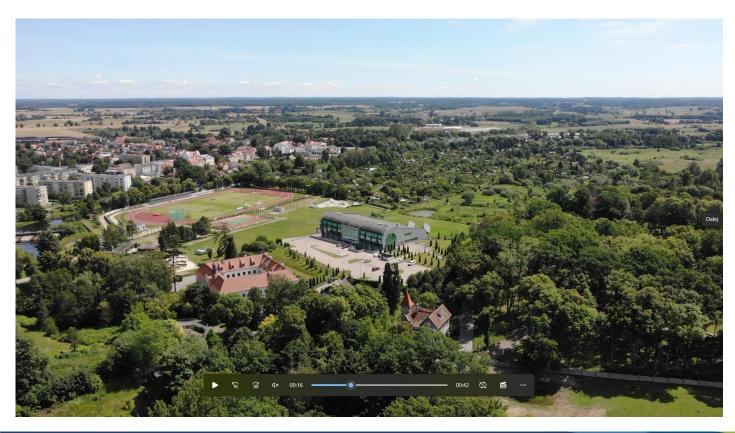


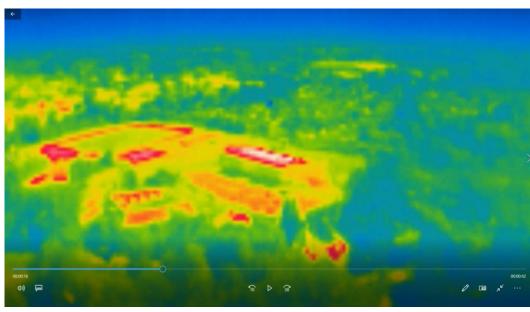






Problems









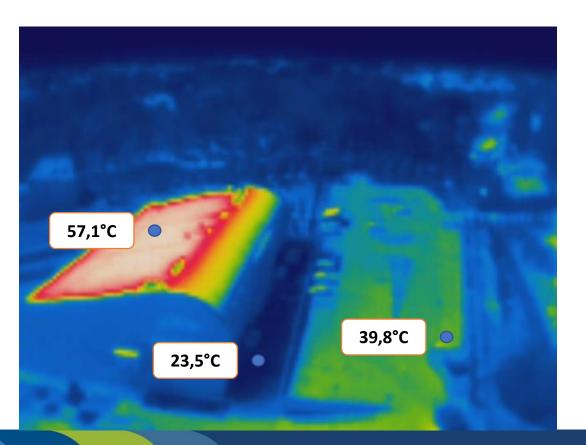






Problems







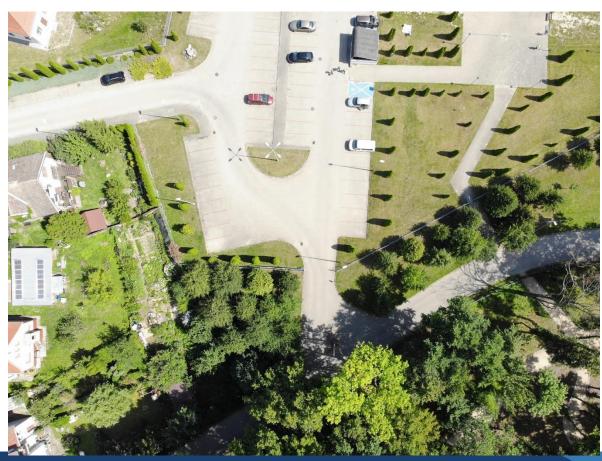


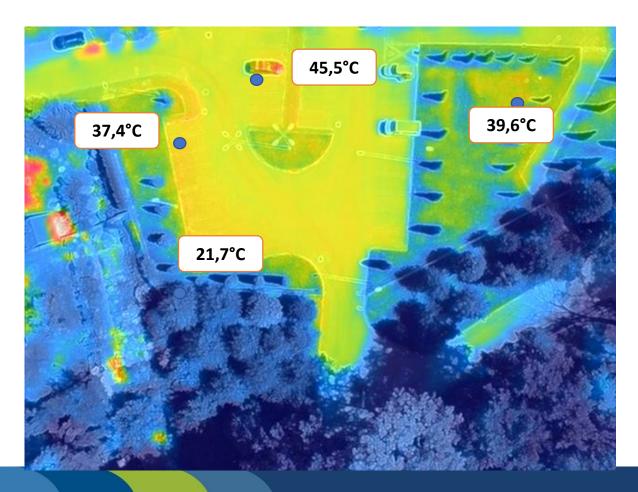






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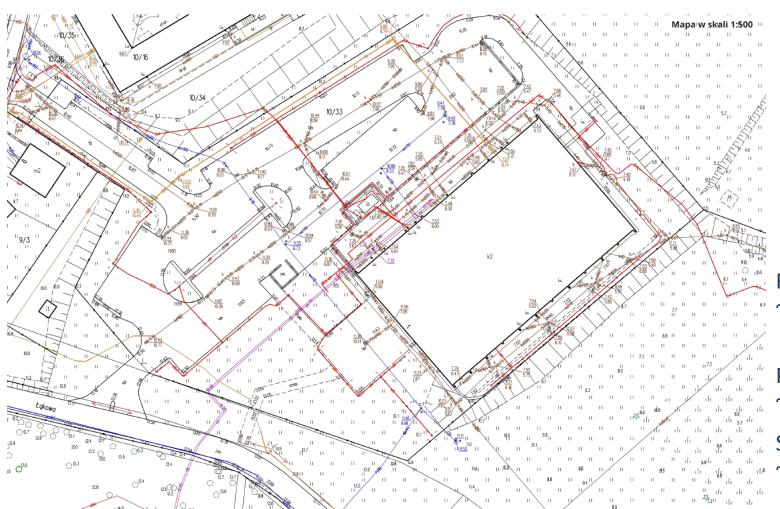








Creating urban rain gardens in the Municipal Sports Centre



Catchment area: ~ 10 000 m²

Main assumption - precipitation to manage:

30 mm from each m² of impermeable pavement

Roof area: ~ 2 000 m²

Ra ~ c

Rain water volume: ~ 65 m³

Parking area:

~ 3 500 m²

Street area:

~ 800 m²



Rain water volume:

~ 125 m³











Braniewo - study visit & discussion









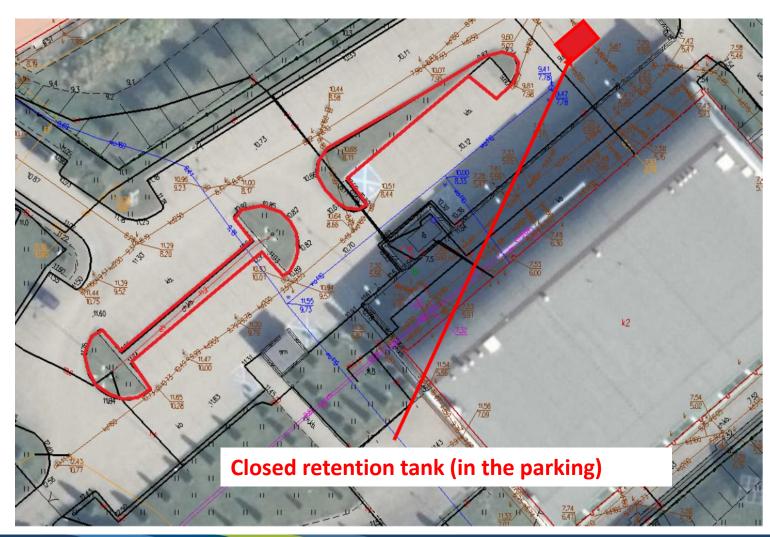






The works covered the flowerbed area in the middle of the parking lot (290 m²)

A plan was adopted that focused primarily on managing stormwater runoff from the parking lot. This will also reduce the urban heat island.













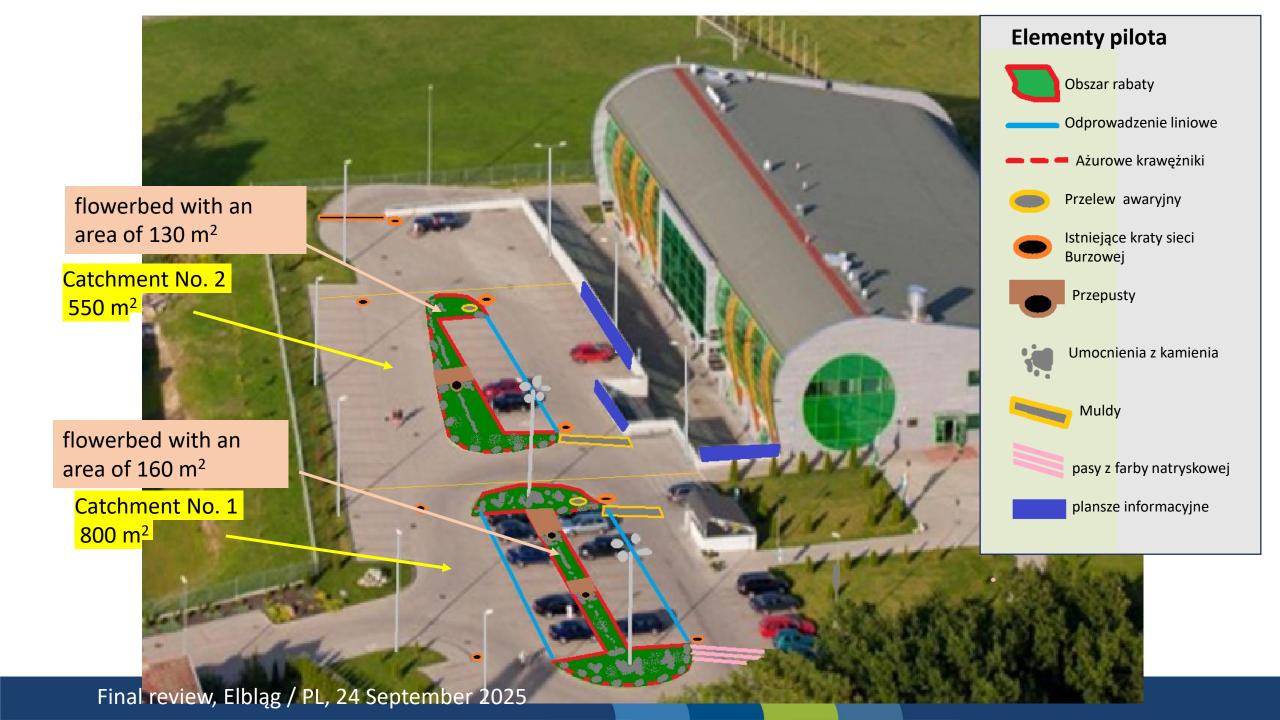
Creating urban raingardens in the Municipal Sports Centre



Work sequence:

- 1. Digging depressions
- 2. Reconstruction of curbs
- 3. Partial soil replacement
- 4. Installation of supporting stones
- 5. Installation of culverts
- 6. Installation of emergency overflows
- 7. Construction of linear drainage
- 8. Construction of road troughs/ speed bumps
- 9. Supplementing the substrate for plant growth
- 10. Planting plants
- 11. Reinforcing the flowerbeds with burlap and stone

The rate and level of filling of the depressions were constantly monitored during heavy rainfall.





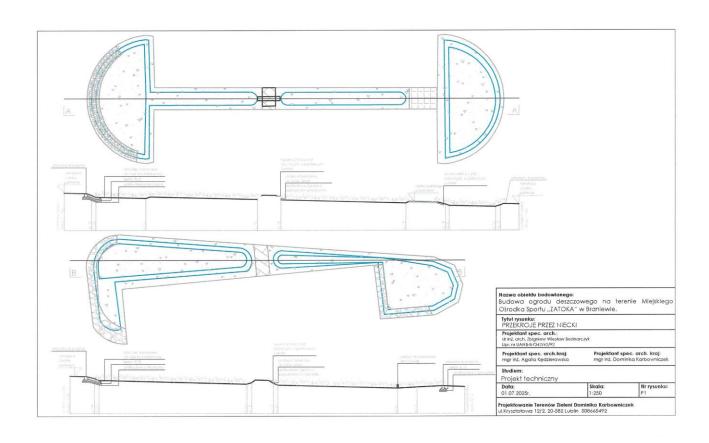


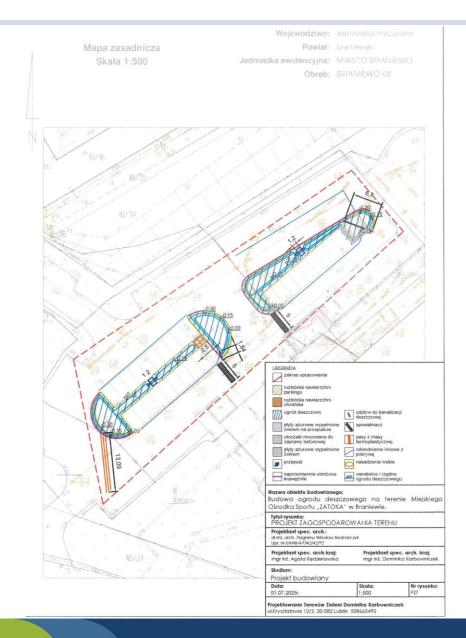






Design and construction















CONSTRUCTION August/September 2025















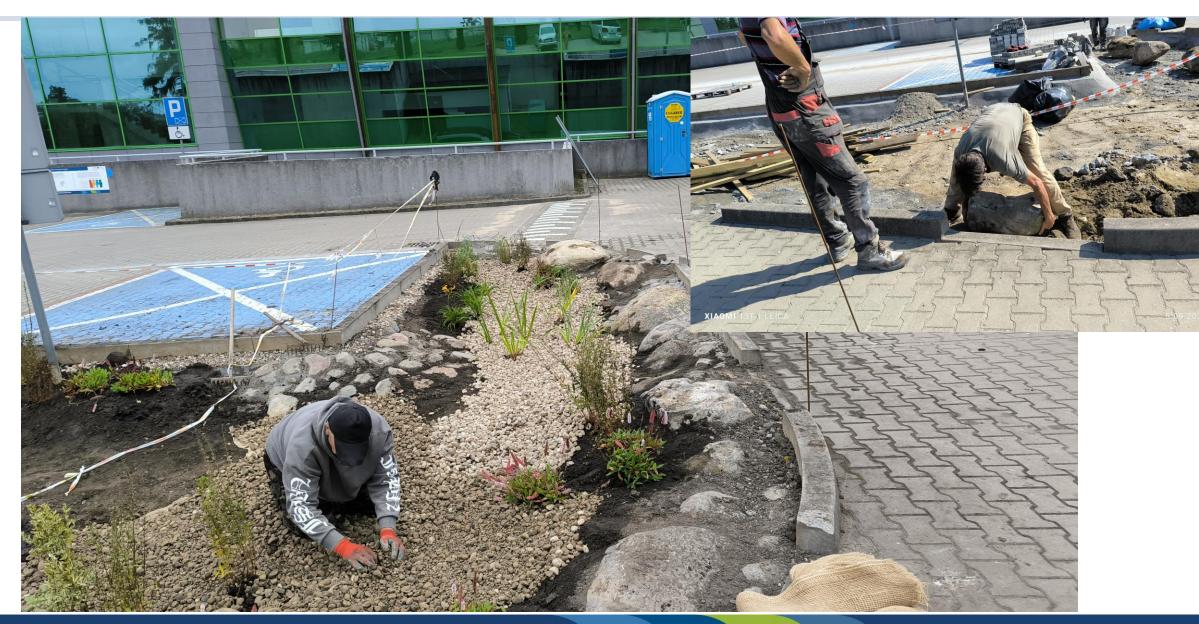












































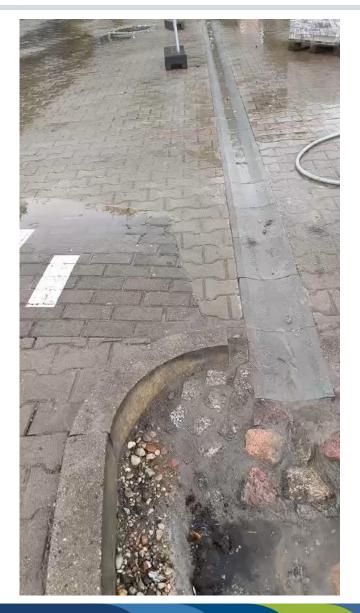








Rain is the best evaluator













- 1. reducing the urban heat island effect
- 2. improved drainage of the car park area and use of rainwater, which has so far been discharged into the drainage system to irrigate greenery and increase soil moisture mitigating thermal conditions
- 3. improvement of the local microclimate (air circulation, air purification from pollutants (dust, etc.),
- 4. aesthetics of the space and increasing its attractiveness for visitors to the MSC (small architecture, camouflage greenery)
- 5. economical approach to greenery maintenance
- 6. increasing the awareness of the inhabitants of Braniewo regarding climate change and the operation of green infrastructure.















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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
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.

