

Challenge

To better deal with the consequences of climate change, the city of Poznań has implemented active rainwater management. As a basis for the management, reliable data on the amount and intensity of precipitation are needed.

Solution

A measuring network consisting of 23 precipitation gauges with the OTT Pluvio²L and OTT Parsivel disdrometers were set up. Additionally, existing tipping bucket stations were converted and integrated. The data is now stored and visualised in the RainBrain app.

Benefits

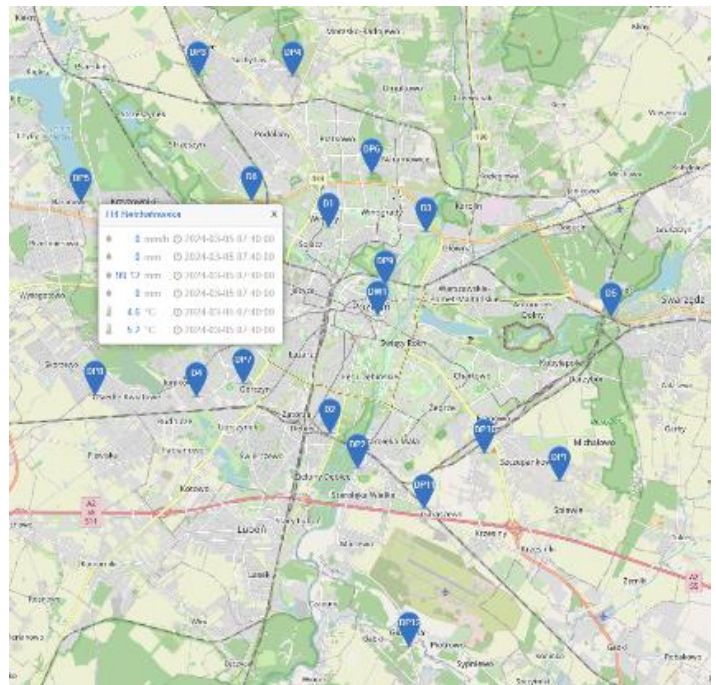
This data enables a better understanding of how the drainage infrastructure functions during various precipitation events. Now, the local precipitation model is updated and the water resources in the area can be managed in a more targeted manner.

Impact of Accurate Measurements

The weighing precipitation sensor OTT Pluvio²L was chosen for the project as the focus is on the accuracy of the measurement for amount of precipitation and the stations must function reliably and with low maintenance requirements. The disdrometer provides additional information for a precise description of the precipitation that occurs.

The combination of these data parameters supports:

- monitoring of precipitation events
- optimising the operation of the drainage network
- improving investment planning
- planning preventive measures and emergency management
- determining accurately the amount of water retained and discharged
- adapting to climate change



Data visualized in the RainBrain app. This project was completed by OTT HydroMet local partners, [Retencja](#).



OTT Parsivel Disdrometer (left). OTT Pluvio²L and a standing cabinet (right).



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