

Improving water distribution in Hungary

See how a water utility is using WaterNet Advisor to enhance operations, management and reporting



Instant access of hydraulic model and scenarios from any device



Efficient real-time operational decision making



Overall improvement in water distribution and quality

Challenge

The Kecskemet water network in Hungary currently supplies water to a population of approximately 100,000 people including to the nearby Helvécia and Ballószög municipalities. To improve water distribution and quality, our client Bácsvíz Zrt approached us to develop and calibrate a hydraulic model based on pressure and flow monitoring.

There was no detailed hydraulic model prior to this project and the decision was made to create one based on the geographic information system (GIS) and customer information data. The aim was to see if the model could provide information useful for operating and improving water supply conditions and water quality.

Solution

To capture the details and characteristics of the water network, we created a hydraulic model that includes the water supply pipelines and all factors that significantly influence flow and pressure conditions, such as reservoirs and major pump stations. It was first developed in MIKE URBAN, calibrated, and then uploaded into WaterNet Advisor, a Cloud application that allows easy sharing of the model across the water utility.

Due to its ease of use – there was no need for special knowledge to operate – WaterNet Advisor was also used during training and knowledge transfer. The application is mobile, meaning that the model can be accessed from any device, be it a tablet, smartphone, laptop or desktop. At the site, managers are able to use their tablets to access the hydraulic model for real-time operational decision making.



Víz- és Csatornaszolgáltató Zrt.

'The project fulfilled all the terms of the contract with Class 1 performance. The work done by DHI was high level at both professional and organisational level, and we would recommend DHI for similar projects.'

Dezső Tóth, Water Service Technical Manager
Bácsvíz Zrt



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