I Future Processing

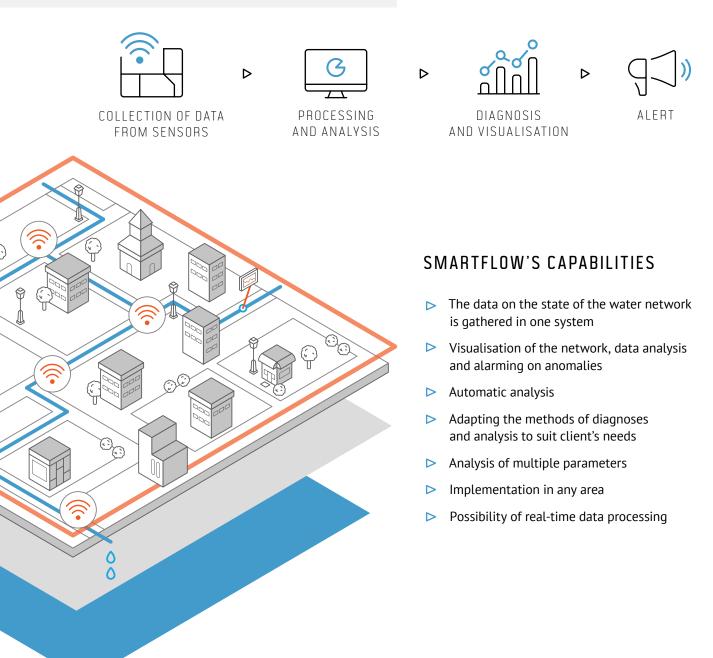


WHAT IS SMARTFLOW?

SmartFlow is a system used for monitoring waterworks infrastructure parameters. It is based on sensors built into the waterworks around the city. The sensors collect and transmit real-time information about water distribution which is then analysed and processed by the system. In case of any anomalies, location of the fault is visualised on the map of the city, making it easier for the engineers to locate and repair the fault. The system effectively tackles the problem of hidden leakages which means that if failures occur, they are attended to quickly and no longer generate major losses.

BENEFITS

- Tangible water savings through an earlier detection of leakages
- Faster reaction to anomalies within the water supply system
- Intelligent and ecological management of water supplies
- Easier and quicker analysis of data
- Better management of water supply system



IMPLEMENTATION OF SMARTFLOW • AT MPWIK WROCŁAW

MPWiK Wroclaw is the municipal water supplier for the Wroclaw agglomeration. It is

in the top 5 biggest water supply enterprises in Poland. In addition to its regular business activity, MPWiK, chooses innovative solutions that save natural habitat and resources by cooperating with universities and environmental research facilities. Its activity is supported and developed by the MPWiK's New Technologies Centre, an internal research and development unit. In 2015, MPWiK teamed up with **Future Processing** and **Microsoft** to develop a system to tackle the problem of hidden leakages. The result of this cooperation is SmartFlow.

EFFECTS OF THE COOPERATION

- 500 mln litres of water saved in 2016 alone
- 9% reduction in water loss
- 72h maximum time to locate and fix failures
- 80% of Wroclaw's area monitored by SmartFlow
- Thanks to SmartFlow the detection of anomalies shortened from 180 days to 3 days localising hidden leakages is much easier

MPWIK WROCŁAW IN NUMBERS

WATERWORKS' LENGTH: 2 037 KM

Sm<u>pwik</u>

DIAMETERS OF PIPELINES: **80 - 1200 DN** NUMBER OF CONNECTORS : APPROX. 41 300 NUMBER OF LOCKS: 62 700

NUMBER OF HYDRANTS :

APPROX. 14 100

NUMBER OF MAIN WATER METERS: **49 200**

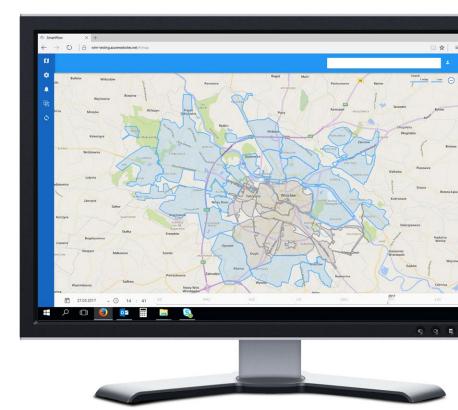
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REFERENCES

Application in easy and transparent way allows to monitor waterworks infrastructure parameters. Notification system, with use of customized warnings and alerts, indicates dispatchers the corresponding DMAs and flowmeters with found abnormalities. It gives waterworks service the ability to react quicker and more precisely to potential leakage or unauthorised consumption.

TOMASZ KONIECZNY

Director of the Centre of New Technologies MPWiK S.A. Wrocław





STABLE WATER SUPPLY MANAGEMENT MEANS:





ECOLOGY - PREVENTING HYDROLOGICAL DROUGHT



EFFICIENCY - FASTER REACTION TIME TO DAMAGES



COST-EFFECTIVENESS - MINIMISING WATER AND ENERGY LOSSES

CONTACT WITH US!



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