

WATER LEAK SOLUTIONS

Experts say that the water distribution systems in South Africa face ongoing challenges related to massive water losses, with recent estimates indicating an overall water loss of over 30%. This situation is linked to the continuous extension and replacement of the water distribution network as thousands of kilometres of underground water pipes are laid each year. To address this problem, innovative approaches are needed, such as the use of data analytics to detect leaks and reduce non-revenue water.

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While estimates differ depending on service provider, average physical losses in municipal systems are reported to be over 35%, compared to a global best practice of around 15%. As a result, municipalities in South Africa alone lose approximately ZAR 9.9 billion worth of water value (approximately US\$ 710 million) per year. (Source - The 2030 Water Resources Group – World Bank).

35% | AVERAGE PHYSICAL LOSSES IN MUNICIPAL SYSTEMS

In response to the country's challenges, the University of Pretoria's Department of Civil Engineering has developed a novel methodology for reducing water loss. The solution is based on the utilisation of readily available, cost effective and easy to integrate systems that leverage propriety signal detection and analysis technologies to precisely detect and identify water leakages anywhere along the network.

ENTERPRISES UP CAN PROVIDE THIS SOLUTION TO STAKEHOLDERS THROUGH THE FOLLOWING ADVISORY SERVICES:

Technical advice to incorporate the methodology and technologies into the planning and design phase of any water network expansion, upgrade or maintenance project.

Conduct regular network surveillance on behalf of the client to assess whether any leakages occurred.

In self-managed client scenario's, support with data interpretation to assist with optimised network leak detection.

The increased leak detection accuracy provided by this solution enables key stakeholders to reduce disruptions and losses across the water network, increase the stability of water service delivery, and improve overall planning for repairs and maintenance.



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