

SMART WATER NETWORKS

Working in Partnership

The **Water Board of Lemesos (WBL)** is a public body incorporated by law. The sole purpose of the Board is to provide water of sufficient quality and quantity of water in order to meet the domestic, commercial and industrial needs of its consumers. Its main concern and focus is to provide the best possible service to its customers.



CHALLENGES

- High cost of water losses
- Continuous water quality monitoring
- Water demand management
- Predicting future water needs
- Efficient management of water distribution network and available water resources

RESEARCH

- Real-time leakage and quality monitoring
- Modelling and simulation of the water distribution network
- Real-time pressure control
- Event management and decision support
- Develop methodologies for future needs analysis

IMPACT

- Improve quality of service to WBL customers
- Reduce water losses
- Increase water security
- Reduce water and energy usage
- Reduce WBL operating cost and thus increase the available funds for capital expenditure
- Reduce response time in the case of an event

INNOVATION

- AquaRisk platform for detecting leakage and quality events in real time
- GIS-based decision support tools e.g. for analyzing future needs, estimating cost of leakages, selecting the best location to install sensors



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