



DHI MARKET AREA: URBAN WATER

DATA COLLECTION AND MONITORING

Providing reliable information for management and planning

Today, municipalities and water utilities are facing many challenges. They have to cope with the impacts of rapid urbanisation, climate change and aging infrastructure. With increased pressure on water systems, various issues arise such as sewage overflows, rain-related inflow and infiltration, water leakage and decreasing treatment capacity. Addressing these issues requires having accurate information on the systems. This allows for complete understanding and tackling of the problem.

On aging infrastructure, the information available is generally unreliable or outdated. This makes planning and management very difficult. It is therefore crucial to upgrade and properly calibrate the data collection and monitoring system. With dependable and accurate information, you'll be able to make informed decisions on how to best address the challenges you face.

- THE CHALLENGES**
- Coping with the impacts of rapid urbanisation, climate change and aging infrastructure
 - Dealing with inaccurate or outdated information and lack of proper planning tools
 - Alleviating increased energy consumption and treatment costs
 - Coping with decreased system capacity
 - Meeting stricter environmental regulations

OUR APPROACH At DHI, we use our knowledge and services to support you in achieving reliable and accurate data collection and monitoring. From flow and water quality measurement devices to data analysis systems and high-performance modelling software, we have the tools to help you obtain the information you need to make the best possible management and planning decisions.

- OUR SOLUTIONS**
- Master planning
 - Monitoring (flow, water quality, precipitation, river level and so on)
 - Data analysis
 - I/I reduction studies
 - TV-inspection film analysis
 - Overflow measurement and analysis
 - Hydraulic modelling
 - Geohydrologic modelling
 - Flood prediction measurements and modelling
 - Pumping station capacity studies
 - Wastewater treatment plant flow meter validation

THE ULTIMATE GOAL RELIABLE AND ACCURATE DATA COLLECTION AND MONITORING

Only 10% of leaks are visible; the vast majority of leaks cannot be seen above ground



OUR TOOLS AND SERVICES

We can provide you with everything you need to obtain reliable and accurate information on your urban water management system. Our tools and services include:

- accurate reliable flow meters (ADS/Nivus)
- level meters (ultrasonic and pressure)
- rain gauges
- Keller pressure meters
- fire hydrant sets
- water quality samplers
- pump station loggers
- portable weir sets
- CSO overflow loggers
- MatLab
- ArcGis (Geographic Information System)
- on-line data portal
- MIKE Powered by DHI software tools:
 - MIKE ZERO (project oriented water modelling)
 - MIKE+ (urban water modelling)
 - DIMS.CORE (data integration and business processes)
 - GANDALF (time series data processing, management and reporting)
- capacity building and training by THE ACADEMY by DHI

Contact us: info@dhigroup.com
For more information visit: www.dhigroup.com