

Efficiently drain surface water while minimising pollution with smart, sustainable solutions

Sustainable Stormwater Management

Do you want to reduce the amount of runoff to your drainage system?

Would you like to explore green infrastructure solutions?

Do you want to improve water quality and reduce health risks?

Urban landscapes continue to expand in the midst of a changing climate. Growing populations, development and densification combined with more frequent severe weather events is overwhelming traditional drainage systems. In cities with mostly hard surfaces, the pollution content in runoff from traffic, building materials and air pollution is threatening water quality in open waters. To transform a city from a funnel into a sponge, the harvesting of stormwater within its water cycle should be considered to secure long-term, resilient water balance and reuse.

Services & Solutions

DHI supports integrating the entire water cycle into your planning process including the design and implementation of Sustainable Urban Drainage Systems (SUDS) which rely on natural processes for sorption, filtering and degradation of pollutant substance. Through advanced hydraulic and catchment modelling, comprehensive risk assessments and flood mapping, your city will benefit from reduced runoff and improved water quality, efficiency and resilience to climate change.

- Increase the efficiency of your Stormwater Management System
- Future proof your drainage system through integrated catchment modelling
- Incorporate green solutions into your existing drainage network
- Improve water quality and better manage major sources of pollution
- Optimise the master planning process for new developments
- Ensure your urban infrastructure can adapt to climate change

Core technology

MIKE+

Fully integrated urban water modelling software. Evaluate the effectiveness of green solutions and create hydraulic and water quality assessments.

MIKE ECO Lab

Ecological modelling software. Simulate the fate of bacteria and pollutants in your network and visualise how they can be reduced with green infrastructure.

Satellite-Based Water Quality Monitoring

Better understand the current and historic state and condition of water quality and its variability in space and time.

Satellite-Based Urban Mapping

Visualise the amount, location and type of impervious surfaces for spatially distributed hydrological modelling evaluations.



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