# make the most of your existing infrastructure

## ECONOMICAL AND EFFECTIVE MANAGEMENT

- Global and transparent management of the sewer and stormwater systems
- **Risk anticipation** through multi-dimensional forecasting updated in short or long term
- **Reduction of operating costs** through automatic and dynamic management of sewerage systems and Wastewater Treatment Plants during storm episodes
- Upgraded value of stormwater/sewer assets, and investment optimization by increasing volumes treated and storage availability

## **ENVIRONMENTAL AND PUBLIC PROTECTION**

- Monitoring of river and bathing waters quality
- **Water quality preservation** by anticipating pollution and preventing risks through alerts
- **Flood risk controlled** by limiting overflowing in cities through forecasting, as well as storage and transport capacity optimization
- Limitation of pollutant overflows in the environment

## WATER TREATMENT ENHANCEMENT

- 100% of water treated during dry weather
- Optimization of treatment plants' capacities
- Maximization of transport, storage and network retention capacities to limit local overflow risks



## aguadvanced@suez.com



# Integrated Sewer & Stormwater System Management Softwar

ready for the resource revolution



## technologies for operational efficiency, public safety and environmental protection

SUEZ presents AQUADVANCED® Urban Drainage, a software suite for daily sewer system management, flood prevention, environmental protection, optimization of wastewater operations and asset performance

## A modular software suite geared to meet your specific needs:

- Monitor sewerage system operations
- **Control** quality of river and bathing waters and **preserve** the environment
- Anticipate flood risks
- Manage stormwater and sewer efficiently
- Reduce capital investment

## AQUADVANCED® Urban Drainage EMPOWER YOUR DECISION-MAKING

Ensure optimal and transparent management of sewer and stormwater systems through:

- Detailed and continuous overview of your infrastructure and geographical follow-up of network operations
- Energy monitoring
- **Alerts and analytics** to help operator decide and minimize risk during crisis situations
- Weather forecast with real-time calculation of rainfall impact on sewerage system, city and receiving waters
- Optimized management strategies to ensure the best use of storage capacities while preventing flooding and polluted overflows



## AQUADVANCED® Urban Drainage

is a **real-time software** composed of 3 modules ranging from monitoring and events prediction to automatic control of the entire sewer and stormwater systems:

## Monitoring Module:

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Follows-up the whole system in terms of operations, hydraulics and quality of receiving waters by visualizing real-time measures and computed Key Performance Indicators, weather information, energy consumption and geographical display of ongoing operations.

### Early Warning Module:

Models and predicts the impacts on natural environment or sewerage system to prevent and manage flooding risks in urban areas or pollution to rivers and coastal waters.

#### Advanced Control Module:

Calculates optimized operating strategies in real time and automatically controls system actuators. Enables coordinated management with Wastewater Treatment Plants.

## Applicable to:

- Combined or separate sewer systems
- Closed networks and open drainage systems such as channels, rivers, surface run-off, and marine dynamics

# all the features you need, in one software

- Geographical dashboard of the system with continuous update on the hydraulic state of the network and receiving environment quality
- Computed Key Performance Indicators for network, pumping stations, retention tanks, plants and sewer overflows
- Meteorological context follow-up with display of rain gauges and radar views, rainfall computation per catchment, indicators and rain alarms
- Energy management of pumping stations, plants and other electromechanical actuators through supervision of energy consumption, efficiency and cost
- Follow-up of operations on the network, including Key Performance Indicators, management of fleet and field teams by GPS, odor complaints and hot-spots
- Anticipation of hydraulics on the network, fluvial or marine states through advanced computational systems and analytics
- Alerts management from simple monitoring to early warnings in order to prevent crises such as flooding or pollution
- Real-time calculation of management strategies to optimize storage and treated water volumes, and minimize overflows
- Transfer of management strategies to the operational control center for automatic application of instructions

