AQUADVANCED®
Urban Drainage
Integrated Sewer & Stormwater System Management Software
ready for the resource revolution
SUEZ
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:** 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
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
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