make the most of your existing infrastructure

ECONOMICAL AND EFFECTIVE MANAGEMENT

- Global and transparent management of the sewer and the 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

AQUADVANCED® Urban Drainage

Integrated Sewer & Stormwater System Management Software

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Aquadvanced® is a registered trademark or a trademark under pending application.
SUEZ presents AQUADVANCED® Urban Drainage, a software suite for daily sewer system management, flood prevention, environmental protection, optimization of wastewater operations and asset performance.

AQUADVANCED® Urban Drainage
EMPOWER YOUR DECISION-MAKING

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

- EMPOWER YOUR DECISION-MAKING
- AQUADVANCED® Urban Drainage

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:

1. Monitoring Module:
   Follow-up the whole system in terms of operations, hydraulic and quality performances by visualizing real-time measures and computed Key Performance Indicators, weather information, energy consumption and geographical display of ongoing operations.

2. 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.

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

AQUADVANCED® Urban Drainage is a modular software suite geared to meet your specific needs:

- Detailed and continuous overview of your infrastructure and geographical follow-up of network operations
- Energy monitoring
- Alerts and analytics to help operator manage real-time events and situations
- Weather forecast with real-time calculation of rainfall impact on sewerage systems, city and receiving waters
- Optimize management strategies to ensure the best use of storage capacities, avoiding flooding and polluted overflows

Applicable to:

- Combined or separate sewer systems
- Closed networks and open drainage systems such as channels, rivers, surface run-off, and marine dynamics
- Monitoring of combined and separate systems
- Transfer of management strategies to the operational control center for automatic application of instructions

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 Real Performance Indicators for network, pumping stations, retention tanks, plants and sewer overflows
- Meteorological context follow-up with display of real-time data for monitoring and early warnings
- Energy management of pumping stations, plants and other electromechanical actuators
- Follow-up of operations from the network, including detailed monitoring of energy consumption, efficiency and cost
- Anticipation of hydraulic or fluvial states, flood scenarios, and water quality
- 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