

optimising network operations  
and improving customer  
service through real-time data  
management infrastructure

OPERATIONAL EFFECTIVENESS

- ▶ **Global hydraulic and water quality** analysis of the network to deliver reliable operations
- ▶ **Enhanced responsiveness** and prioritisation of action in case of incident
- ▶ **Optimised water production or water purchase** policy thanks to improved network efficiency
- ▶ **Support to decision making** regarding investments for network renewal

NON REVENUE WATER MANAGEMENT

- ▶ **Network efficiency management** with real time performance indicators
- ▶ **Detection of leaks including small and invisible leaks** through advanced event management and precise localisation of incident
- ▶ **Quantification of water losses** to focus on critical or major leaks

HEALTH AND SAFETY

- ▶ **Accurate and continuous follow up of water quality status** all through the network
- ▶ **Better understanding of local water quality requirements:** water origin, water blending, chlorine injection,...
- ▶ **Identification and assessment** of the impact of an accidental or voluntary intrusion on the network



aquadvanced@suez.com



Photos: © SUEZ/Thinkstock/Getty Images  
Aquadvanced® is a registered trademark or a trademark under pending application.

# AQUADVANCED® Water Networks

Integrated Management  
Software for Drinking Water  
Networks

ready for the resource revolution  **suez**

ready for the resource revolution  **suez**



# assists water utilities in utilising data to optimise network performance

SUEZ presents AQUADVANCED® Water Networks, a system that enables utilities to remotely and continuously monitor their drinking water networks to improve overall operational efficiency and deliver service excellence

An innovative solution that helps to:

- ▶ **Monitor** the water network in real time to ensure operation reliability
- ▶ **Save** water resources and track water quality
- ▶ **Reduce** operational costs
- ▶ **Provide** enhanced decision support

## AQUADVANCED® Water Networks

### TAKE ACTION FROM COMPLEX DATA

SCADA, sensors, GIS, data historian, smart meters, Workforce Management, CRM,... Managing drinking water networks efficiently requires massive processing of data coming from multiple sources and systems. AQUADVANCED® Water Networks gathers and analyses all this data to turn it into valuable decision-making support through a user friendly interface

- ▶ **Map-integrated display** of key information
- ▶ **Real time dashboard** with collected data and calculated indicators
- ▶ **Event management** using advanced statistical models
- ▶ Dedicated views for **detailed hydraulic** and **quality deep analyses**

**AQUADVANCED® Water Networks** is a modular solution that **adapts to the conditions of all types of networks**. Depending on the operational objectives and on existing management systems, the solution can be **easily enhanced with additional functions**

- ▶ **The core system** provides highly effective features for hydraulic and water quality monitoring including advanced event detection and detailed analysis views
- ▶ **Further options** offer a connection to existing Advanced Metering Infrastructure (smart meters), model-based functions using client's defined hydraulic model of the network, connection to customer complaints and field work systems, acoustic analysis view for acoustic data loggers,...

## key features for a full performance software

- ▶ **Dashboard for hydraulic and water quality performance** with indicators based on NRW, flow, pressure or quality parameters
- ▶ **Network map** displaying position of assets/devices and real-time data computed per hydraulic zones such as District Meter Areas, sectors of consumptions or pressure zones
- ▶ **Continuously updated list of process events and system events** detected by statistical methods, including automatic estimation of missing or invalid data
- ▶ **Selection of any variable through navigation** for cross analysis in a dedicated workspace
- ▶ **Display of water consumptions** for large customers
- ▶ **Acoustic analysis view** with noise indicators and map display of acoustic logger status
- ▶ **Connection to Automated Meter Reading system** to improve NRW accuracy and operational efficiency
- ▶ **Quality monitoring view** with specific quality indicators, map display of multi-parameters probes, accurate quality event detection, sampling points with associated lab analyses data
- ▶ **Geo-referencing of complaints and interventions** with access to past, on-going and planned interventions and complaints displayed with detailed information
- ▶ **Hydraulic and quality maps based on the use of a hydraulic model of the network:** velocity, flow, pressure, headloss gradient, water source, reservoir influence area, residence time

