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SUEZ LAUNCHES AQUADVANCED® URBAN DRAINAGE, AN INNOVATIVE SOLUTION TO OPTIMISE THE PERFORMANCE OF SEWER AND STORMWATER NETWORKS AND PRESERVE THE NATURAL ENVIRONMENT

Faced with urban population growth, global warming and changing regulations, optimising the performance of sewer and stormwater networks is a priority for local authorities. Responding to this challenge, SUEZ is launching AQUADVANCED® Urban Drainage¹, a digital solution that allows local authorities to monitor in real time their sewer and stormwater networks to mitigate the risk of flooding and to control the quality of discharges into the natural environment.

OPTIMISING THE PERFORMANCE OF SEWER AND STORMWATER NETWORKS: A CHALLENGE FOR LOCAL AUTHORITIES

Rising urbanisation and the increase of impermeable surfaces in urban areas have reduced the natural infiltration of stormwater into the soil to 15%. The remaining 85% flows on the surface, collecting the residues deposited on roofs and roads (fuel, heavy metals, plastics, etc.). Local authorities are faced with the challenge of collecting these polluted waters in the sewerage networks, and of treating them later into wastewater treatment plants to reduce the risks of severe flooding, human and material damage and pollution of the natural ecosystem. Stormwater is responsible for 50% of the pollution flowing into rivers and beaches in urban areas.

In Europe, local authorities have been bound to guarantee the performance of wastewater collection systems and to monitor the quality of discharge into the natural environment since the Water Framework Directive came into force on 23 October 2000.

AQUADVANCED® URBAN DRAINAGE TO BETTER MANAGE SEWER AND STORMWATER SYSTEMS, PREVENT FLOODING AND PRESERVE THE QUALITY OF THE RECEIVING WATER BODIES

In response to these challenges, SUEZ is launching AQUADVANCED® Urban Drainage, a **digital solution that helps local authorities to manage their sewer and stormwater systems**. The tool allows to choose the solution that best meets their needs, from the monitoring of an environment (rivers, the sea, sewerage networks), to the anticipation of flooding events and pollution of the natural environment, and the predictive and dynamic management of the complete sewerage system.

AQUADVANCED® Urban Drainage provides a **global, real-time vision of the complete system**, based on data from sensors installed both in the network and in the environment (rivers, watercourses, etc.) and on short-term weather forecasts. By centralising and analysing all these data, the software solution can anticipate the hydraulic performance of the network (saturated storage capacities, volumes to be treated, etc.) or of the natural ecosystem (risk of pollution or overflowing watercourses). For certain sewerage systems, the tool can also calculate the best control strategy, and automatically and remotely monitor the system's facilities (storage reservoirs, pumping stations, etc.).

AQUADVANCED® Urban Drainage anticipates the risk of untreated wastewater overflowing into the natural ecosystem, monitors the quality of discharge on a daily basis and helps to protect the environment. Deploying this system can cut the volumes of stormwater that flow into rivers or the sea by up to 45%.

¹ AQUADVANCED® is a registered trademark or a trademark under pending application.

Presented at the Singapore International Water Week (10-14 July), where it is currently being deployed, AQUADVANCED® Urban Drainage has been already introduced in eight European cities, including Bordeaux, the Paris conurbation, Marseille and Barcelona.

Leader on the Smart Water market in Europe, SUEZ is complementing its offer to support local authorities in the sustainable management of resources with this management software dedicated to optimise sewer and stormwater networks' performance. AQUADVANCED® Urban Drainage completes the existing software offer for the drinking water networks, named [AQUADVANCED® Water Networks](#).

SUEZ

We are at the dawn of the resource revolution. Faced with an increasing world population, growing urban development and rarefied resources, the security, optimisation and recovery of resources are indispensable to our future. SUEZ (Paris: SEV, Brussels: SEVB) supplies 92 million people with drinking water and 65 million with sanitation services, collects waste from almost 34 million people, recovers 16 million tonnes of waste per year and generates 5,855 GWh of local and renewable energy. With 82,530 employees, SUEZ, which is present on all five continents, is a key player in the sustainable management of resources. SUEZ generated total revenues of €15.1 billion in 2015.

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