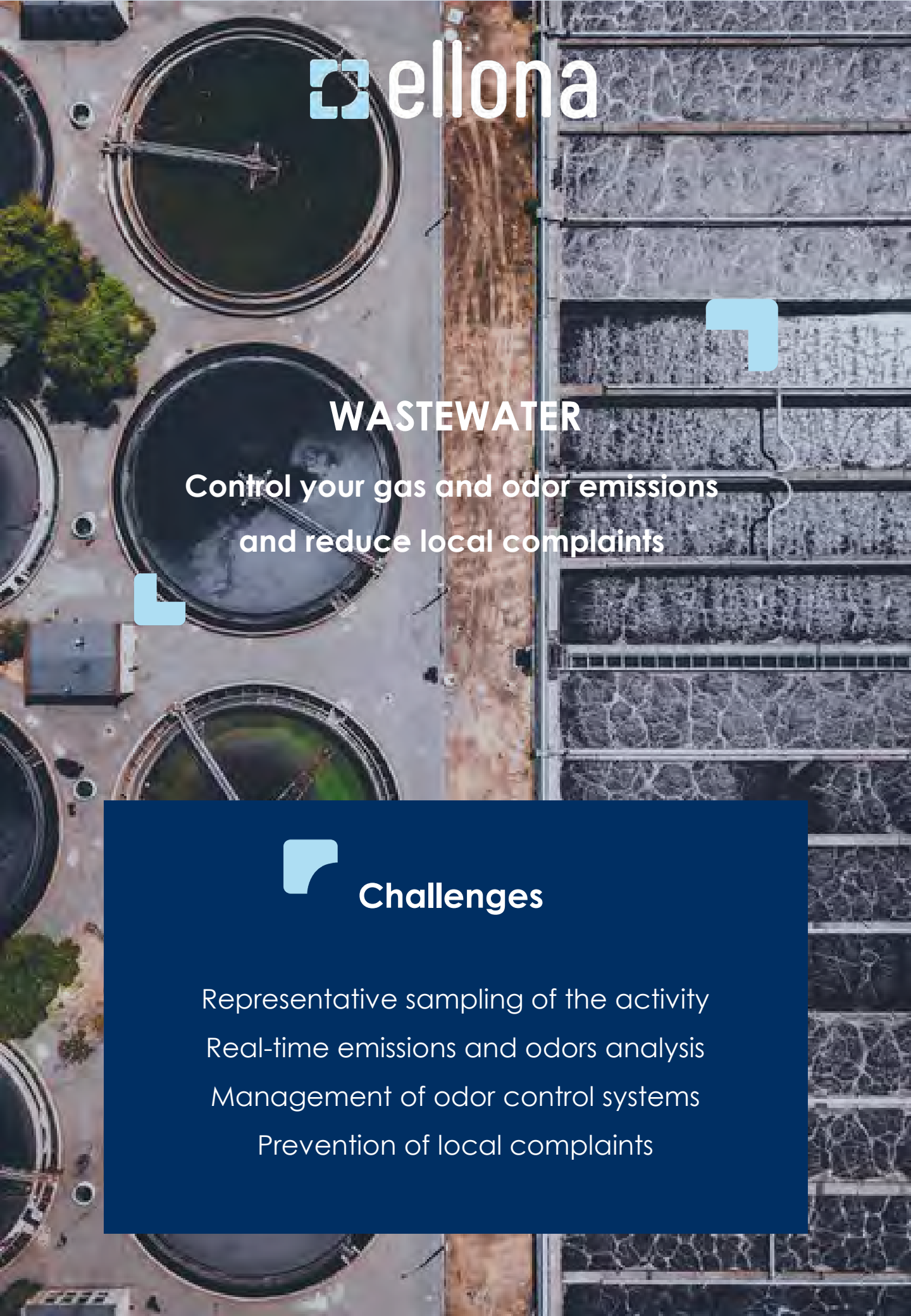


WASTEWATER

Control your gas and odor emissions and reduce local complaints

Challenges

Representative sampling of the activity

Real-time emissions and odors analysis

Management of odor control systems

Prevention of local complaints

Solution

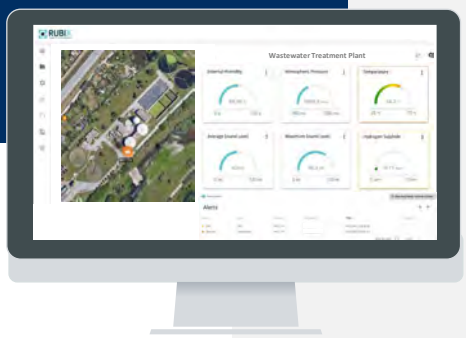
Real-time measurement of purification systems

Quantification and identification of gas and odor source emissions

Continuous monitoring of liquid parameters (dissolved oxygen, temperature, pH, turbidity, electrical conductivity)

Automatic triggering of remediation devices (scrubbers, biofilters, misting ramps, vertical ventilation systems…)

Benefits



- Real-time control and full understanding of emissions
- Saving costs in chemical additives (emulsifiers, smell-masking chemicals…)
- Optimization of operating costs
- Reduction of odor impact on local communities

Customer Application

Context

Wastewater treatment sites generate emissive nuisances such as odors and gases, some of which can be toxic like H2S or methane

Challenge

Wastewater treatment sites are subject to regular audits by local authorities. They usually involve external auditing companies that take samples for laboratory analysis at regular intervals. These samples are often not very significant because they do not represent the actual production activity, and therefore source variations

Solution

The WT1 allows real-time measurement, identification and quantification of several key parameters in the management of wastewater or industrial water purification systems. It also enables a continuous monitoring of intrinsic liquid parameters such as oxygen levels, temperature or pH. This immediate supervision facilitates the triggering of remediation devices such as scrubbers, biofilters, misting ramps, vertical ventilation systems, etc.

Impact

This solution ensures a holistic monitoring of the environment, measuring and analyzing both the efficiency of the processes and their impact on workers and communities around. The WT1 also helps optimizing the energy consumption and the usage of chemical additives such as emulsifiers or odor masking chemicals. The WT1 efficiently triggers processes in real-time, enabling savings in operating costs

ellona

Leader in environmental intelligence for a healthier world, through environmental monitoring and source identification IoT technologies

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