

# Hubgrade

## PERFORMANCE





# HUBGRADE PERFORMANCE

## *Hubgrade makes your resources smarter!*

Hubgrade Performance aggregates real-time data and applies analytics and algorithms, developed and based on Veolia's experience in designing and operating water and wastewater treatment plants worldwide, to continuously benchmark and optimize your plant's performance.

The Plant module of Hubgrade Performance is an online digital twin of the wastewater treatment plant and/or sewer network. It creates a digital representation of the customers' assets which

uses predictive analysis in real-time to provide optimized setpoints to the PLC control and deliver insight to the operators, process engineers and management.

The Plant module is an intelligent software, with a suite of powerful algorithms and holistic solutions offering state-of-the-art automated real-time performance optimization and capacity enhancement.



# Hubgrade

Powered by  **VEOLIA**



## Connect to Hubgrade's Plant module service in the cloud

- ✓ Forward to the cloud your choice of data for optimized setpoint calculation
- ✓ Pick from more than 60 standard features for real-time optimization, overview and forecasting
- ✓ Program your own optimizations and features in the add-on Lab function

## Safe solution by cloud co

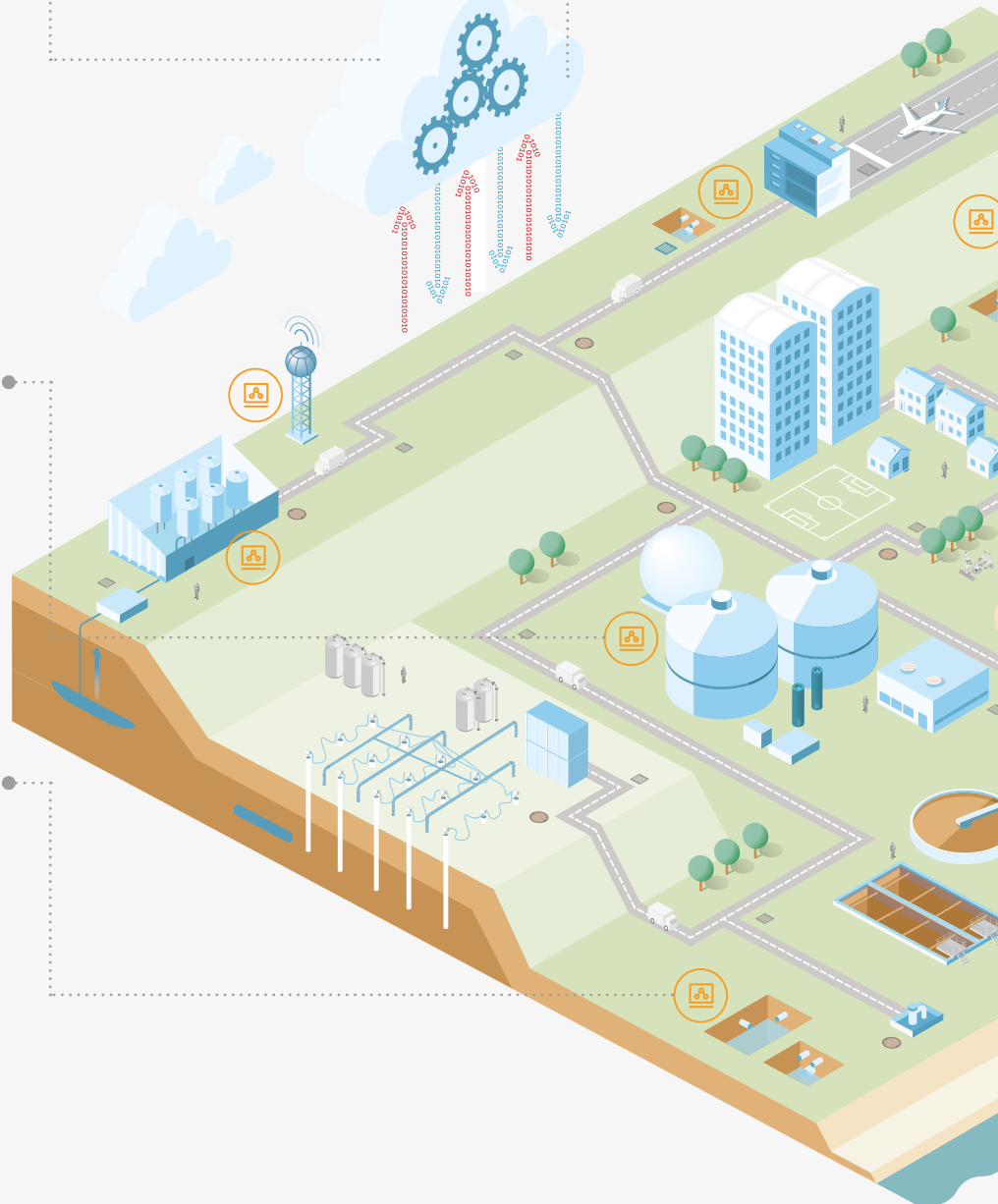
- ✓ Secure communication with certificates
- ✓ Role-based user access
- ✓ Strictly one-way communication from the plant to the cloud

## High priority on resources and biogas

- ✓ Enhance your biogas production
- ✓ Benefit the handling of industrial resources
- ✓ Stable and robust performance

## Intelligence for sewer system operation

- ✓ Minimize number of CSOs (combined sewer overflows)
- ✓ Balance filling capacity of storage volumes
- ✓ Integrated optimization of sewage pumping and wastewater treatment plant capacity





### KEY PERFORMANCE INDICATORS



### PREDICTIVE ANALYTICS



### OPTIMIZATION

### Connection

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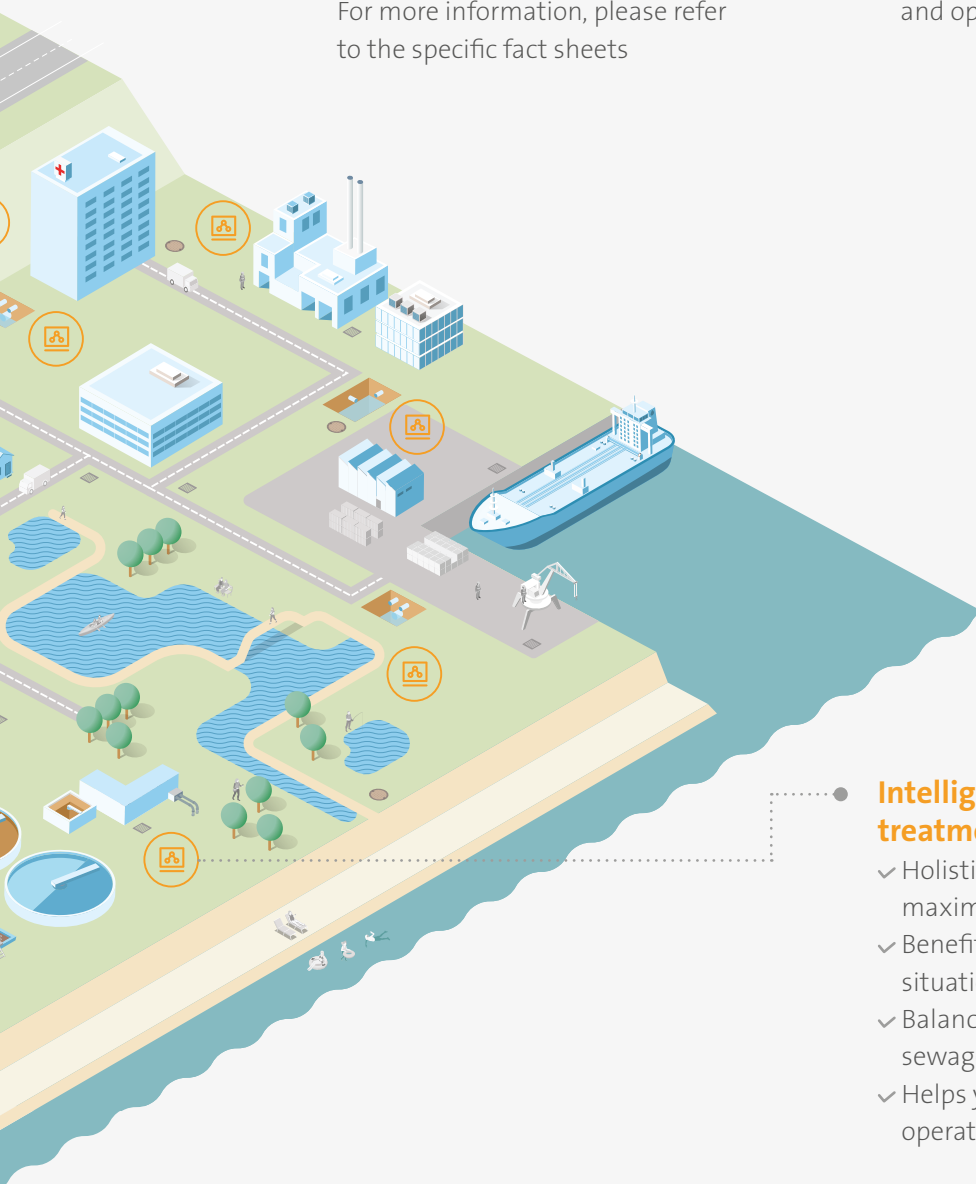
### Focus on

- ✓ Operational savings
- ✓ Hydraulic capacity
- ✓ Biological capacity
- ✓ Compliance through stable operation

For more information, please refer to the specific fact sheets

### User interface

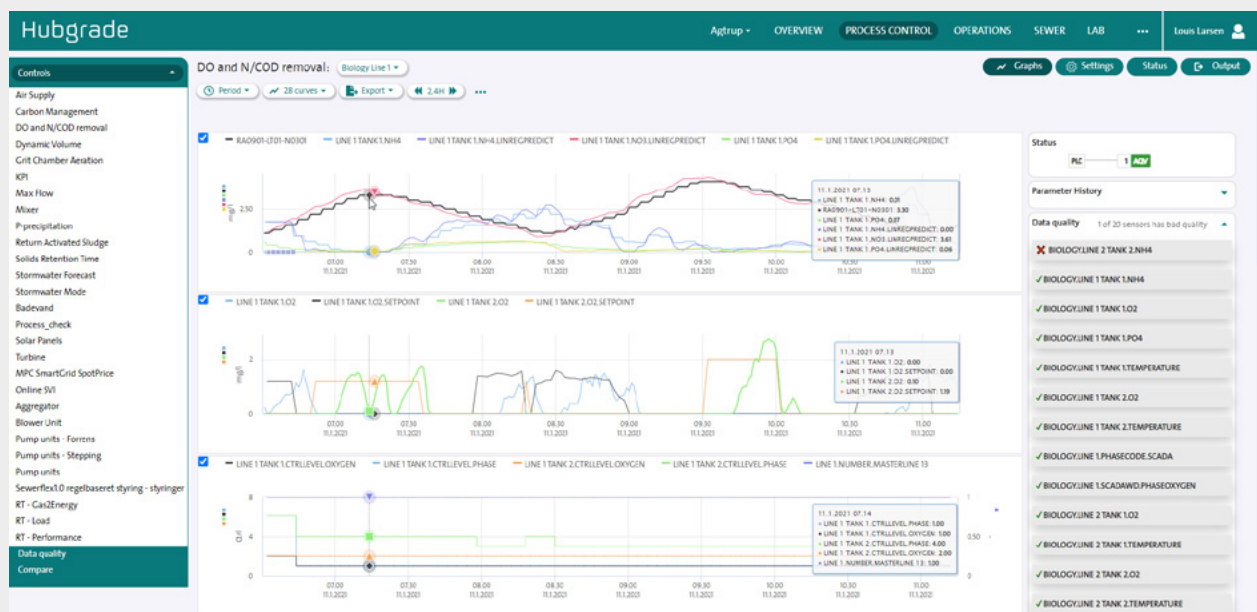
- ✓ User interface supports different user demands
- ✓ Administration of login support roles and access
- ✓ Notifications from intelligent data handling – when all is normal, no disturbances
- ✓ View automatically calculated KPIs from process and operations.



### Intelligence for wastewater treatment plants

- ✓ Holistic view across unit operations for maximized performance
- ✓ Benefit from adaptation to all weather situations
- ✓ Balance the plant capacity with maximized sewage handling
- ✓ Helps you achieve your environmental and operational targets





The Plant module is already installed at over 100 wastewater treatment plants and installations worldwide. The results experienced on those plants show up to:

- ✓ 40% higher biological capacity;
- ✓ 100% increase in hydraulic capacity;
- ✓ 25% energy reduction for aeration;
- ✓ 75% energy reduction for grit chamber aeration;
- ✓ 75% reduction in energy use for internal nitrate recirculation;
- ✓ 100% reduction in chemicals for denitrification and for phosphorus precipitation;
- ✓ 20-30% in overall OPEX savings.

*“Hubgrade Performance boosts our performance by increasing the hydraulic capacity during wet weather. It is a smart solution with a high effect.”*

**Andrea Aliscioni, COO Milan Water Service**

# Resourcing the world

**Veolia Water Technologies**

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