



SimuWorks™

Flight Simulator for Water and Wastewater Treatment Plant Training and Operation Support

If water and wastewater operators could find a single platform to look after their training and education needs along with rapid validation of plant optimization strategies and key decision-making support, they would hit gold. Our award-winning platform for operator training and process support SimuWorks™ aims to do just that, using a high-fidelity process simulator interface for operator training & development, plant optimization & analysis, and maintenance & project risk management. Utilizing customized operator interfaces, SimuWorks™ presents views and functionality familiar to operators and administrators alike in a platform that accurately simulates the behavior of a specific plant.

How Can SimuWorks Help Me?

Advanced Operator Training and Development

-The SimuWorks™ simulation platform allows instructors to train and evaluate new or existing operators in a controlled and safe environment. Operators take control of key operational settings such as chemical dosage, airflow rates, recycle rates and flow splitting, and run the virtual treatment plant under different loading and environmental conditions.

The training simulator can offer actual SCADA or customized overhead-view interfaces, integrated with plant process models that closely simulate actual plant behaviour. The training offers exposure to many simple or highly complex scenarios but with no risk to actual plant performance.

Because the trainees can operate the virtual plant in the same manner that they would the real plant, (e.g. have access to the same operational control parameters, such as DO set-points and sludge wastage), learning is intuitive, systematic and well-adopted. Site-specific models have been used to train operators on topics such as step-feeding during storm events, troubleshooting nitrification/denitrification and what to do during periods of poor setting.

Project Management and Risk Analysis

-SimuWorks™ becomes an important part of the planning process for projects. By simulating various scenarios around downtime for plant maintenance or upgrades, potential risks can be identified and project planning optimized.

-Future loading scenarios can be simulated to assess plant capacity, project upgrade options, and potential rerating scenarios.

Plant and Process Optimization

-SimuWorks™ offers a platform for fast and efficient testing and validation of any number of plant optimization or process control possibilities without putting the plant at risk. Operators, engineers, management or any other user type can evaluate new technologies, test new operational control strategies, run "what-if" scenarios (capacity, flow rates, chemical dosing, energy usage, etc.) and more.

-The implementation of SimuWorks™ can promote a better understanding of plant behaviour and control at all levels within an organization.

Request a demo – contact hydromatis@hatch.com

Expert Customer Support

- Whether you're looking for an online tutorial, need help from our industry-leading support team, or want to explore our custom training options, we've got you covered.

Extensive Online Resources

- Our resource library includes a wide range of videos covering the basics of our solutions, outlining new features, and an extensive list of modelling examples to help guide you.

Customized Workshop Training

- Our Hatch experts are available to lead customized online or in-person workshops to provide training, answer questions and help troubleshoot issues with user models.

Industry-leading Customer Support

- As a Hatch customer, you have access to our industry-leading support team. Our specialists will get back to you within 48 hours.

Optimization and modelling solutions

Get your hands on the market leader products for water and wastewater treatment plant analysis, design and operational support.

GPS-X

SimuWorks

Mantis.AI

ToxChem

CapdetWorks