





*We analysed the industry pipeline system of a car manufacturing factory using our hydraulic transient program to establish safe operating conditions. Photo: iStockphoto © zhuzhu*

### DESIGNERS AND TECHNOLOGY PROVIDERS

This category comprises those entities which develop technologies to enable production industries (end users of technology) to:

- comply with more stringent regulations
- get value from water reuse, energy recovery and materials recovery

### FOOD AND BEVERAGE INDUSTRY

The food and beverage industry focuses on the health and safety of their products as well as on smart and green production to increase product efficiencies. We can assist you with solving the associated issues related to water management, including water availability, optimising water use and improving of wastewater treatment efficiency.



*We analysed a brewery pipeline system in order to determine the production capacity of the pipe network. © DHI*

### PHARMACEUTICAL INDUSTRY

We can improve the reliability of pure and safe water. In most cases, this will positively influence process efficiency and production costs. We have wide-ranging experience addressing the growing concerns related to restrictions on the discharging of certain chemicals into the environment.

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For more information visit: [www.dhigroup.com](http://www.dhigroup.com)

### CHEMICAL INDUSTRY

We will help find solutions to a variety of typical issues like optimising water distribution networks, the availability of water for extinguishing fires, minimising water losses, optimising wastewater processes, and controlling the environmental impacts of wastewater discharges.

### MONITORING

Appropriate calibration data is a prerequisite for the application of models for analytical studies and on-line monitoring systems. The hydraulic model is typically calibrated and verified based on the flow and pressure measurement. At DHI, we can provide specialised monitoring services that address all these modelling needs. We can also conduct fire flow tests and unidirectional flushing to discover the bottlenecks in the existing systems and foresee problems that can emerge in crisis situations.

### REAL-TIME CONTROL AND ON-LINE MODELLING

All the mentioned issues can be controlled in real time. We can deliver comprehensive solutions for on-line control of water supply and distribution networks. Furthermore, we can develop advanced operational decision support systems (DSS) based on forecasts and automated simulations. The operational DSS supports system managers and operators in making well-informed decisions based on instant analysis of complex situations.



*At Odebrecht s.a., we provided on-site monitoring of and reporting on their industry pipeline systems. © DHI*

### REGULATORY RISK

Strict environmental regulations put high demands on industries to reduce waste emissions, substitute hazardous chemicals and invest in waste handling and treatment. Our on-line optimisation systems – based on hydraulic models of receiving waters – have solved serious issues related to such regulations.