Discover iWg in action

iWg in less than 3 minutes

IDROSTUDI Srl Unipersonale
www.idrostudi.it
contact@idrostudi.it | T. +39 040 375 5800
Area Science Park
Trieste - Italy | Tbilisi - Georgia

Idrostudi supports the ONU Agenda on Sustainable Development Goals:

SUSTAINABLE DEVELOPMENT GOALS

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

Technical features

Designed for day-to-day operations

Architecture

Cloud-based platform
Scalable, modular architecture
Multi-user access
Intuitive web interface
Integrated GIS functionality
Multi-layer network visualisation

Integration

Field sensors and measurement devices
SCADA and remote control systems
Telemetry systems
GIS and WMS platforms
Technical and operational databases
Hydraulic modelling software, including Autodesk InfoWorks WS Pro
Decision-support systems and enterprise platforms

Core functionalities

Near real-time monitoring
Historical data analysis and reporting
Interactive time-series visualisations
Alarm management and threshold control
Geospatial visualisation of assets
Digital Twin support
“What-if” scenario simulation
Analysis of pressures and flows
Support for DMA management
Planning of interventions and investments

Technical features

Advanced data, efficient networks

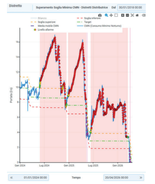
Data & Analytics

Integration of data from multiple sources
Automated data quality checks
Advanced analysis of network performance
Technical and operational indicators
Forecasting and decision-support tools
Multi-criteria analysis for strategic planning

Applications

Urban and rural water distribution networks
Management of water districts and DMAs
Leakage control and NRW reduction
Pressure management and operational optimisation
Infrastructure scenario analysis
Support for emergency response
Investment planning
Improvement of service efficiency and resilience





idrostudi

iWg digital platform

The new integrated management system for water distribution networks

iWg
Water Supply Networks Web Platform

About Idrostudi

Engineering water intelligence since 2002

Idrostudi is an independent engineering company specialising in water systems, combining expertise in hydraulic modelling, monitoring, and digital solutions.

Based in Italy, Idrostudi supports utilities and public authorities worldwide in improving the efficiency and resilience of water and wastewater networks.

Through the integration of data, models, applied research and advanced analytics, the company delivers digital platforms that connect planning with real-time operations.

Part of Axeya Group since 2025, Idrostudi transforms technology and insight into innovative solutions that create measurable value across every stage of the project lifecycle.

Turning data into actionable solutions

Why iWg

An innovative approach to water supply network management

iWg is a cutting-edge cloud platform, accessible via a web interface, designed to support advanced management of water distribution networks.

Developed by hydraulic modelling experts and engineers, with support from IT specialists, it integrates within a single solution near real-time monitoring, hydraulic modelling, Digital Twin and Asset Management to support decision-making.
The platform enables utilities to move **from reactive to predictive, data-driven management**, improving network knowledge, operational efficiency, and the planning of interventions and investments.

By integrating operational data, SCADA systems, hydraulic models and advanced analytics, iWg makes the potential of the Digital Twin applied to water distribution networks accessible even to non-specialist users.

With iWg you can:

- Monitor the status of the water supply system in near real time
- Visualise pressures, flows, levels and key operational parameters
- Support the management of water districts and DMAs
- Improve leakage control and network efficiency
- Simulate operational and infrastructure scenarios
- Support faster, more informed, data-driven decisions
- Plan interventions and investments based on technical and quantitative criteria

Platform structure

One platform. Three integrated modules

iWg is built on a modular architecture that integrates data, models, and decision-making tools into a single environment, adaptable to your organisation's needs.

Monitoring

The Monitoring module focuses on the management and analysis of data from field sensors, SCADA systems, remote control, and other information sources. It enables the visualisation and analysis, in near real time, of pressures, flow rates, levels, volumes, and asset operating statuses.

It allows to:
- Detect anomalies in data and sensors
- Analyse historical series and operational trends
- Support the management of water districts
- Improve awareness of network status
- Facilitate immediate, data-driven operational decisions

The intuitive interface, with integrated GIS functionality, enables users to explore the network, access data and identify anomalies in support of operational activities.

Digital Twin

The Digital Twin module creates a virtual replica of the water supply network, integrating the hydraulic model with operational field data. It incorporates advanced hydraulic modelling software, including **Autodesk InfoWorks WS Pro**, enabling simulation of network behaviour, scenario evaluation, and support for both operational and strategic management.

It allows:
- Assessment of the hydraulic status of the network
- Analysis of pressures and flows
- Management of operational scenarios
- Evaluation of the effects of operational actions and network configuration changes
- Support for emergency response
- Planning of network interventions

The Digital Twin transforms the hydraulic model into a day-to-day operational resource, **accessible even to non-specialist teams.**

Platform structure

Unlock the power of data for strategic decisions

Asset Management

The Strategic Asset Management module supports the technical planning of interventions and investments across the water supply network.

It allows:
- Prioritisation of interventions
- Investment planning
- Assessment of asset condition and criticality
- Cost-benefit analysis and long-term scenario evaluation
- Leakage reduction strategies
- Improvement of network efficiency and resilience

The module integrates data, performance indicators and multi-criteria analysis to support priorities and **improvement plans based on quantitative evidence.**

