InfoWater® is a fully GIS integrated water distribution modeling and management software application. Used by the largest water utilities in the world, InfoWater provides engineers, managers, and operators a complete tool set to tackle all the hydraulic and operational challenges facing a modern water utility.

Powerful Water Utility Engineering and Operations Platform
InfoWater allows a utility to instantly analyze system pressures, find available fire flows, check water quality issues, maximize storage turnover, or optimize pump efficiencies.

Smarter Planning
Advanced scenario management features allows for planning of maximum day demands, design of a new storage tank, long term master planning, and virtually any other combination of conditions.

Efficient Operations and Stronger Customer Service
With tools to integrate SCADA data, add-on modules for building unidirectional flushing sequences, or isolating a contamination event, InfoWater provides the most cost effective platform for improving your system operations and customer service.

World Record Performance
InfoWater uses the latest Microsoft .NET and Esri ArcObjects component technologies to provide world record levels of performance for hydraulic modeling. Whether your system is 100 pipes or 100,000 pipes InfoWater has the power to quickly model your system.

About Innovyze
Since 1996, Innovyze has been a leading global provider of technical and infrastructure software and professional solutions designed to meet the technological needs of utilities, government industries, and engineering organizations worldwide. Its clients include the majority of the largest North American cities, utilities, and ENR top design firms.

Key Benefits
- Increase System Performance
- Improve Customer Service
- Better Water Quality
- Reduce Energy and Operational Costs
- Leverage Your GIS Investment

Related Products
- InfoWater Executive Suite
- InfoSurge
- InfoWater UDF
- CapPlan Water
- H2OCalc

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InfoWater® Key Features

ArcGIS Compatibility
- Runs as an ArcGIS extension
- Build/Run Network Model in ArcGIS
- Construct/Update Models Directly from Geodatabase and Geometric Network or Any External Data Source
- Create/Edit Multiple Scenarios in the Same Geodatabase
- Generate Contours, Graphs and Tables of Results Directly in ArcGIS
- Use Relational Database and Geodatabase to Store Model Data
- Fully Automatically GIS Data Exchange with Esri Data Sources
- Pick any GIS Attributes Automatically Without Mapping any Fields
- Automatically Publish Simulation Results to Enterprise Geodatabase

Hydraulic Modeling Capabilities
- Models unlimited numbers of pipes quickly (unlimited version)
- Supports both English and metric (Standard International) units
- Analyzes steady-state and extended period simulations
- Computes friction headloss using the Hazen-Williams, Darcy-Weisbach, or Chezy-Manning formulas
- Includes minor (local) head losses for bends, meters, fittings, etc.
- Models constant or variable speed pumps
- Models a fixed pressure pump (FPP) that automatically adjusts its speed to maintain a specified target pressure anywhere in the system
- Models turbines and totalizing flow meters
- Calculates Net Positive Suction Head requirements (available NPSH, required NPSH, and cavitation index) to ensure cavitation free operation
- Determines system head curves and fire hydrant rating curves
- Calculates available and design fire flows at minimum residual pressures
- Computes pumping energy and cost based on variable electricity and demand charges
- Accommodates virtually any static and dynamic control valve
- Allows single and multiple inlet/outlet storage tanks to have any shape (i.e., diameter can vary with height)
- Models constant and variable head reservoirs
- Considers multiple demand categories at nodes
- Models pressure-dependent demand issuing from emitters
- Automatically carries out pressure-demand analysis to compute the percentage of demand supplied to each node
- Simulates leakage in a pipe
- Specifies system operation based on simple controls (junction pressure, tank level, pipe flow, timer controls) and on complex rule-based controls
- Provides on-line SCADA interface with alarms
- Simulates fireflows for Extended Period Simulation and multiple hydrants

Water Quality Modeling Capabilities
- Tracks the movement of a non-reactive tracer materials (e.g., fluoride)
- Models the movement and fate of a reactive material as it grows (e.g., a disinfection by-product) or decays (e.g., chlorine residual) with time
- Calculates the age of water throughout a network
- Performs unlimited source trace and computes the percent of flow from a given node reaching all other nodes over time
- Analyzes kinetic reactions both in the bulk flow and at the pipe wall
- Incorporates nth order kinetics to model reactions in the bulk flow
- Uses zero or first order kinetics to model reactions at the pipe wall
- Accounts for mass transfer limitations when modeling pipe wall reactions
- Allows growth or decay reactions to proceed up to a limiting concentration
- Permits wall reaction rate coefficients to be correlated to pipe roughness
- Models storage tanks as being either complete mix, plug flow, or two-compartment reactors
- Model multiple interacting chemical species (MSX version)
- Track the movement, fate and build up of particulate material (MSX version)

Scenario and Model Management
- Uses intuitive tree-type scenario manager
- Supports full inheritance of alternatives
- Activate and deactivate network elements using Facility Manager
- Organize and group elements using queries, domains, or selection sets
- Run many scenarios in one batch
- Use ModelTracker to keep track of all changes made
- Validate the system using the Network Review/Fix Tool
- Automatically locate Crossing/Intersecting Pipes, Orphan Pipes, Duplicate Pipes, Disconnected Nodes
- Test system connectivity using the Trace Network Tool

Rich, Spectacular Presentation
- Utilizes ArcGIS thematic mapping functionality
- Generate contours for any variable, including elevation, pressure, hydraulic grade line, demand, or water quality, directly on the map
- View fully animated EPS results using VCR-style controls
- Overlay multiple contours on a single drawing
- Present variable symbol sizes and color-coded maps
- Label elements and results using dynamic annotations
- Show input date and results using all common graph and profile types
- Present results using customizable tabular reporting
- Create simulation movies with vivid VCR-style animation

For More Information and to Purchase, visit: www.innovyze.com

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