



Water Environment of Ontario Association (WEAO) Intelligent Water Solutions (IWS) presents a cursory listing of companies that specialize in Artificial Intelligence, Machine Learning, Analytics, and various other subsets of the digital twin architecture with a focus on the water/wastewater sector. This information has been compiled for convenience and is not considered an endorsement of software, hardware, services, or case studies where available. This information is provided to help you on your digital journey and begin leveraging technologies that are available today both through local and international providers. We have provided a brief overview including website links for you to learn more. A high level review against the Smart Water Networks Forum (SWAN <https://www.swan-forum.com/>) digital twin architecture is also included to help you understand where the platform may benefit you.

If you offer products or services that align with our goal of knowledge transfer on this topic for the water / wastewater sector and would like for your information to be included here, please complete the form by clicking this link <https://weao.org/resources-and-programs/intelligent-water-solutions/iws-directory/> and submit.

Company Name	Website	Overview / Description	SWAN Category	Case Study (Link or Attachment)
Aquatic Informatics (under Danaher WQP)	Aquatic Informatics Water Data Management Software	Aquatic Informatics provides software solutions that address critical water data management, analytics, and compliance challenges for the water industry. Analytics also includes Machine Learning capabilities.	Data Collection, Data Analytics, Visualization	
CANN Forecast	CANN Forecast AI-Powered Tools For Smart Water Management	Machine Learning Developer with multiple applications such as E. Coli detection and pipe break forecasting.	Data Integration, Data Analytics, Visualization	
DWSI - Digital Water Solutions Inc.	Water Leak Detection Solution & Pressure Monitoring Systems (digitalwater.solutions)	Canadian Company. Hydrant monitoring solution for leak detection in water distribution networks. Web based solution with dashboards, analytics, to identify leaks and potentially frozen pipes.	Sensing Control, Data Integration, Data Analytics, Visualization, User Experience (dashboards)	

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eRIS	eRIS – Your Information Smarter (erisconnects.com)	Suez owned - software platform that manages data from vast sources (SCADA, LIMS, CMMS, manual entry, other relational databases). Was developed specific for the water/wastewater sector. eRIS can also act as a data broker between Artificial Intelligence and Machine Learning applications by feeding real time data through its API into the desired format of the Artificial Intelligence and Machine Learning application. Other features include analytics, data validation to clean SCADA data before use, and electronic logbooks.	Data integration, Data Analytics, Visualization, User Experience	
Hach (under Danaher WQP)	Claros - The Water Intelligence System (hach.com) https://www.hach.com/rtc-coag-module-software/product?id=60813358059	<p>Digital Solutions to eliminate uncertainty, reduce costs and improve efficiency. Available now is a software Program called RTC-COAG which provides real time control through ML of a coagulation process.</p> <p>Field, lab and process sensors and water chemistry analyzers; data collection and validation; predictive diagnostics; optimization and control; Machine Learning in Source Water Monitoring and Control</p>	Data Driven Models, Decision Support Tools, Simulation, Machine Learning	
Hydromantis (now a division of Hatch)	Digital Twin Mantis.AI - Hydromantis	MantisAI models your process, applies ML, and then provides optimization parameters for the plant. Data validation is noted as built in. End goal are OPEX savings.	Data Integration, Data Analytics, Machine Learning, Decision Support, What-If Scenarios	

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Innovyze	Innovyze – Empowering Water Experts	Data integration, analytics (including Machine Learning) and visualization for the water industry assisting with Asset Management; Drainage Design & Analysis; Stormwater, Sewer and Flood Modeling, Water Distribution Modeling and Management; Operational Analytics; Cloud Platform	Data Integration, Data Analytics, Visualization	
Invicara	Invicara - Digital Twin Solutions for the Built Environment Invicara	Leveraging BIM and other data sources to develop digital twin models to facilitate data integration, analysis, and visualization. Support capital projects and operations in various industries.	Data Integration, Data Analytics, Visualization	
Pani Energy Inc.	HOME Pani Site (panienergy.com)	Canadian Company - Cloud based analytics solution optimizes water treatment plants to reduce costs, increase efficiency, and improve sustainability of fresh water production, worldwide. AI Coach - works with your existing plant and staff to help identify issues to problems. It can use your data along with input from operations to help optimize processes, find issues, etc.	User Experience	
Royal HaskoningDHV Digital	Aquasuite - the water industry's virtual operator	Royal HaskoningDHV Digital's software is a suite of smart water technologies that monitor, analyze, visualize, and control the performance of water and wastewater infrastructure through predictive analytics and machine learning. The software serves as a virtual operator with Artificial Intelligence powered analytics and autopilot that provides real-time visibility across the complete water and wastewater	All	

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		network and treatment and controls day-to-day operations.		
Symphony Industrial AI	Symphony Industrial AI • Peak Industrial Performance™	Various Artificial Intelligence / Machine Learning solutions across a variety of networks. Includes hardware and applications applied to process equipment - condition monitoring, sensor installation, analytics, tracking and prediction	All	
TaKaDu	TaKaDu - Central Event Management (CEM) for the Water Industry	Central event management application for water loss detection, leak detection, network monitoring	Data Integration, Data Analytics, Visualization	
Waterlix Inc.	https://www.waterlix.com/	Waterlix is a Canadian Company, a provider of modern apps for the Water and Wastewater Industry. Native cloud solutions, Artificial Intelligence as a Service (no data storage, the data stays with its owner). Waterlix has its private cloud and app store open to any solution provider in the water space. Waterlix applications have a free-to-use or test version for cities and utility companies only.		