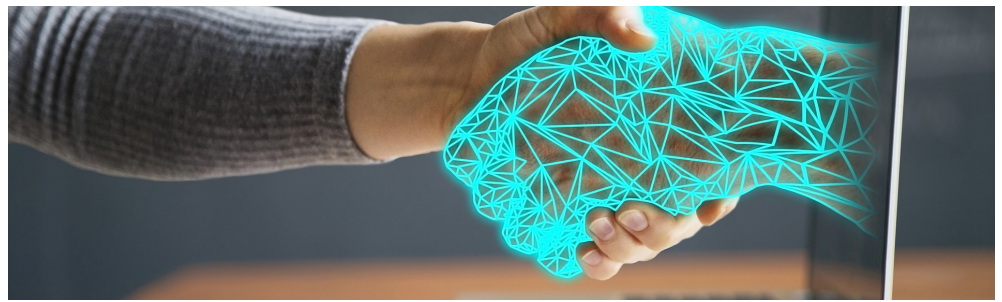


# HULO.ai

Real-time Leak Detection  
and Localization Software



## **Partnering with the innovators at HULO.ai in North America, CPM Pipelines provides a research-based solution for real-time leak detection and localization.**

HULO.ai's journey started at Acquaint, offering innovative in-line inspection technologies for the water and wastewater industry. As a spin-off from Acquaint and academic research funded by Dutch water utilities, HULO.ai was established in 2021. HULO.ai's mission is to provide a globally affordable solution to improve water supplies and reduce non-revenue water use "together" with our clients. We believe that developing knowledge together with our clients will proactively manage a sustainable and future-proof water supply.

## **Disruptive AI technology for real-time anomaly management of water networks.**

Funded through the Dutch drinking water utilities, HULO.ai is utilized widely to reduce false alarms. HULO.ai's solution provides water utilities with a revolutionary approach to detect, localize, and quantify leaks in the very early stages. If no pressure and/or flow sensors are available, we have an automated solution to help utilities decide how many sensors they need and where they should be placed. HULO.ai provides real-time localized leaks, allowing utilities to respond quickly and minimize larger failures.

## **Fit with the U.S. market due to limited start-up requirements.**

HULO.ai software does not require a lot of information compared to other technologies. The network structure in the U.S. is similar to the Dutch network. Typically, there are either no district-metered areas (DMAs) or rather large ones (supply zones). For traditional monitoring solutions, DMAs are required. Moreover, conventional forecasting methods for real-time leak detection allow false alarms and need historical pressure and flow data to train the algorithms. HULO.ai does not require:

- Isolated DMAs: HULO.ai also works in big open network structures, like rural areas.
- Years of historical data: HULO.ai is plug-and-play and works after one week.
- An excessive number of sensors: HULO.ai identifies optimal pressure and flow sensor placement to obtain insights into the network.
- Extensive analysis to narrow down the search area: HULO.ai uses existing pressure sensors and the GIS model to pre-localize leaks in real-time.

HULO.ai minimizes and reduces the impact of leaks, preventing ongoing damage to existing infrastructure, and conserving our precious resource, water.

