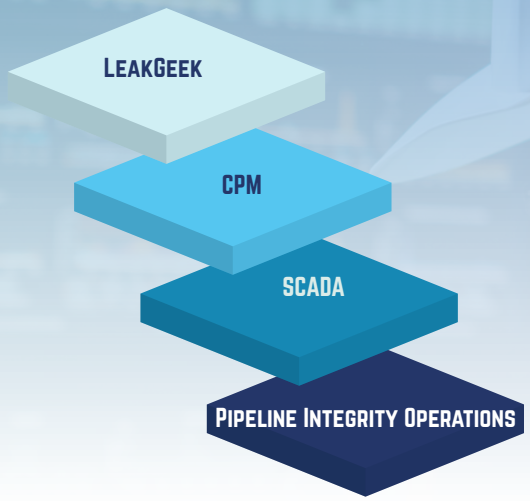
LEAKGEEK

SMALL LEAK DETECTION

UTSI's proprietary small leak detection algorithm, LeakGeek™, delivers a smarter, faster way to detect pipeline leaks.

LEAKGEEK IMPROVES YOUR CURRENT CPM SYSTEM INSTEAD OF REPLACING IT, ALLOWING FOR THE DETECTION OF SMALLER LEAKS WITHOUT THE NEED TO ALTER COMPONENTS OR INTRODUCE NEW INSTRUMENTS.



Data Quality Method (DQM)
ensures reliable, accurate data across your decision-making systems. By validating data at every touchpoint, it reduces risk, strengthens integrity, and supports better outcomes.

Automated Data Labeling
tool adds critical context to SCADA data, boosting accuracy and accelerating leak detection, by enriching raw data with meaningful labels,

Small Leak Detection
solution uses AI within a structured decision-making framework to add validation. This helps operators assess potential leaks with more context and confidence, enhancing accuracy and operational continuity.

SMARTER, FASTER, BETTER

90% REDUCTION OF RISK OF FALSE POSITIVES

IDENTIFIES LEAKS < 5% - < 1% OF NOMINAL FLOW—*UP TO 8 HOURS EARLIER THAN CPM WITHOUT LEAKGEEK*

LEAKGEEK™ DELIVERS FASTER RESPONSE TIMES, FEWER FALSE ALARMS, AND GREATER CONFIDENCE IN YOUR PIPELINE INTEGRITY—EVEN WHEN DATA QUALITY IS LESS THAN PERFECT.

UTSI® INTERNATIONAL

WE PARTNERED WITH A MIDSTREAM COMPANY TO DEPLOY A MACHINE LEARNING SOLUTION THAT ADAPTS TO NORMAL FLOW, REDUCING FALSE POSITIVES AND IMPROVING LEAK DETECTION ACCURACY.



Why trust LeakGeek™?

RESULTS:

90% Reduction in risk of False Positives:

We've successfully reduced false alarms by 90% translating into significantly fewer operator interventions and a more focused, reliable alerting system.

4-8 Hour Leak Detection Speed Improvement:

Our system now identifies leaks up to 4-8 hours faster than CPM without LeakGeek. This rapid response time is critical for minimizing potential economic losses and environmental impact.

Broad Applicability:

The algorithm's effectiveness has been demonstrated across diverse pipeline geometries and profiles, including both gathering and transmission lines.

Real-Time Validation & Continuous Learning:

The integrated validation process, with its constant monitoring of quality checks, data behavior, and availability, provides a layer of reassurance that alarms detected are genuine anomalies, not simply noise.

READY TO SAFEGUARD OPERATIONS, REDUCE COSTS, AND PROTECT ENVIRONMENTAL INTEGRITY WITH LEAKGEEK?

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