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Leaks, Events, Anomalies & Knowledge (LEAK)

for WaterCore



Technolog is a leading provider of end-to-end solutions delivering reliable, repeatable and relevant data and insights to UK Water Utilities. A key part of this is our intuitive web portal, WaterCore with new advanced analytics tools.

Our Leak Localisation feature pack (LEAK) further advances the functionality of WaterCore to allow leaks and events to be identified from multiple loggers grouped within your network's District Metered Areas (DMAs). Technolog's advanced algorithm analyses and learns from the DMA's pressure and flow data to identify network anomalies and localise the position within the DMA. Potential leaks are presented to the user within the same feature rich user interface and visualised as hotspots on a map viewer.

This powerful feature enables users to exploit existing data sets in order to expedite anomaly awareness, leak detection and repair. LEAK allows users to make informed leakage detection resource management decisions and deliver efficient network management.

Key Features

- Localises leaks, events and anomalies within a DMA
- No requirements for network models or GIS for localisation analytics
- Leakage groups created and configured in a matter of minutes
- Automated industry-standard nightline analysis and visualisation tools
- Accelerates leak or event detection by significantly reducing the search area
- Increases the efficiency of both field and office based leakage resources
- Dashboard highlights points of interest and significance automatically
- Trends nightlines and triggers localisation against automatically generated thresholds
- ESRI GIS overlay capability
- Fully exportable Leak Localisation outputs (API and CSV)
- Simple and secure data transfer and integration with WaterCore API

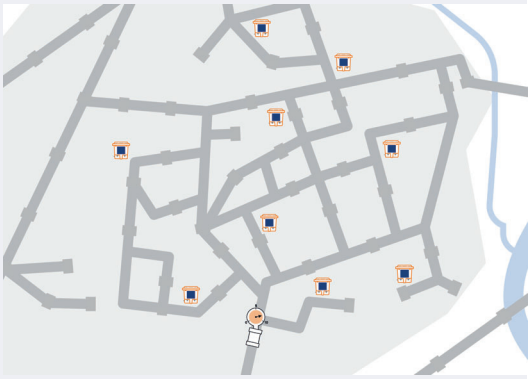
LEAK

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Discrete network groups are setup in LEAK in a matter of minutes. NO REQUIREMENT for hydraulic models or GIS data for the powerful analytics to consistently output actionable insights into your network.

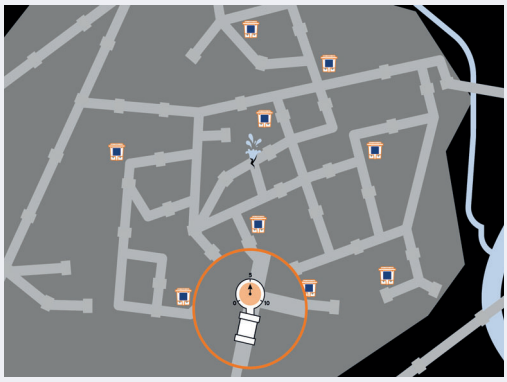


LEAK automatically analyses the pressure data from the loggers within the leakage group to learn how the network operates normally. It then monitors and benchmarks flow into each group and generates thresholds and triggers to automatically initiate localisation analytics.



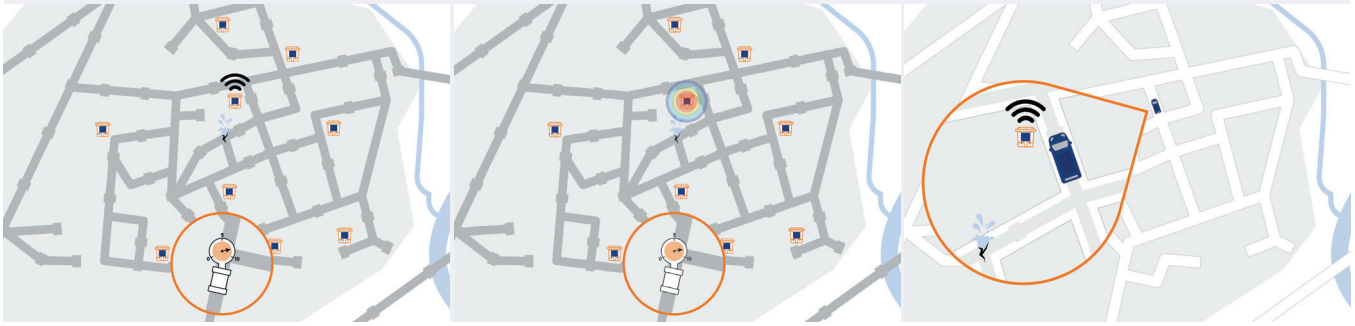
Industry-standard **Nightline Analysis** is carried out with nightly results and historical trends displayed on an intuitive heads up display. When a network event occurs, LEAK automatically runs its analytics to calculate micro-pressure deviations of grouped devices.





LEAK's state of the art algorithm analyses the deviation from the group's learned pressure relationships and benchmark to highlight the logger nearest to the network anomaly.

LEAK significantly reduces leakage run-times and increases efficiency as field resources are deployed to smaller search areas where the anomaly is most likely to have occurred.



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