SOLUTION BRIEF – NATURAL GAS UTILITIES

Faster Leak Survey & Facility Inspections

Laser OGI reduces walking survey time by approximately half and station survey time by approximately 90%, and documents every service and component checked, leaking or not.









ASSETS
Mains, services, meter sets and risers; city gates and M&R stations

APPLICATIONS
Walking leak survey, AMLD/LISA follow-up, station inspection, odor calls

OUTPUTS
Leak tags, zero-leak tags, GPS breadcrumbs, coverage maps

THE CHALLENGE	THE XPLOROBOT SOLUTION
The Meter Set Is the Bottleneck A contact sweep with a pump-driven sniffer averages approximately 90 seconds per service, repeated at every service on the map.	**A 10-Second Standoff Scan** The entire meter set assembly is scanned in approximately 10 seconds from 100 ft or more, reducing field time per map by approximately 54%.
Stations Take a Full Day A sniffer survey of a city gate with 450 to 850 leak-prone components requires approximately 4.5 to 8.5 hours on site.	**A Station in Under an Hour** At the same city gates, Laser OGI surveys require 30 and 40 minutes (i.e. approximately 90% less technician time) and locate the consequential leaks.
Can't-Gain-Access Reschedules Locked gates, dogs, fences and tall risers result in CGAs and return trips.	**Detection Without Access** Services can be surveyed over fences and through gates, and high piping on building walls checked without a ladder or gate key.
No Proof of Survey A sniffer survey that finds no leaks produces no record of which services or components were actually checked.	**Every Service and Component on Record** Zero-leak tags, GPS breadcrumbs and coverage maps document what was checked, leaking or not.

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Designed Around the Walking Leak Survey

On the distribution system, no component cataloguing or re-inspection cycle is required.

1 Plan

The survey map, AMLD/LISA indications and GIS layers are shown on a live satellite map.

2 Walk & Sweep

Mains and services are walked; each meter set is scanned in about 10 seconds.

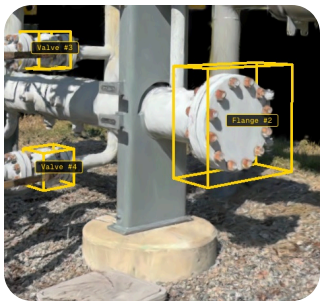
3 Tag & Record

Leaks are tagged, and clean services receive a zero-leak tag.

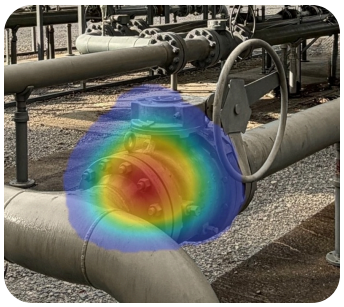
4 Sync

Records upload automatically to ESRI and SAP; reports and work orders come from the dashboard.

City Gate and M&R Station Inspection



Stations follow a component-level workflow rather than the walking survey. On the first survey, each leak-prone component is recognized and labeled in a 3D digital twin of the station; on each re-inspection, the app guides the technician back to every labeled component in sequence, so that no component is missed.

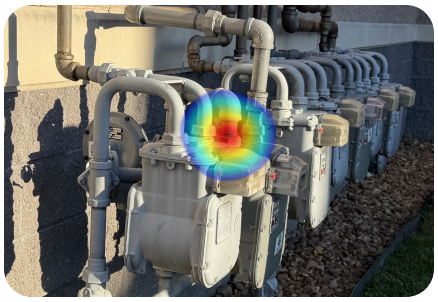


- ✓ Zero-leak tags and a 3D coverage map document every component checked
- ✓ Approximately 24 to 33 technician-hours saved per station per year on a quarterly schedule

FIELD RESULTS AND MODELED SAVINGS

~10 s	53.8%	~90%	100 ft+
per meter set, vs. ~90 s with a sniffer	less field time per 400-service survey map	less technician time per city gate survey	standoff detection distance

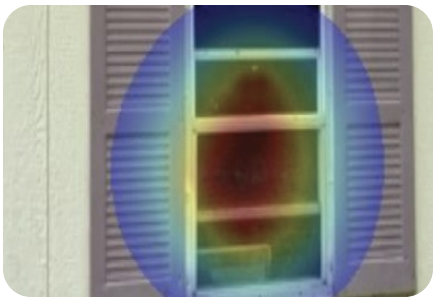
Beyond the Walking Survey



Large Meter Banks
50+ measurement points scanned in approximately 20 seconds.



Below-Ground Migration
Migration patterns are visualized at the surface.



Odor Calls
Windows and foundations are checked from a distance.

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