



EU and OGMP 2.0 Compliance

High accuracy, low cost, and
automated reporting

October 2025



Xplorobot Smartphone Integrated Laser OGI

US EPA OOOO a/b/c and Subpart W, EU regulations, and OGMP 2.0 Level 4 and 5

1. Tunable Diode Laser Absorption Spectroscopy (TDLAS)

Sensor acquires methane concentration data (PPM-m) at a rate of 10 Hz

2. Anemometer and Thermometer

Continuous measurement of wind speed and ambient temperature

3. Trigger

To tag emissions and catalog components in equipment

4. Smartphone

Records high-resolution images, GPS data, and enables sensor to Cloud connectivity

5. Xplorobot Mobile App

Visualizes methane in real-time, records tagged emissions, and creates compliance records for non-emitting components



Received the first-ever EPA approval for a handheld methane detection solution for regulatory inspections

Xplorobot Laser OGI detection range is approved for 50m

With a flow rate detection threshold of 1 g/hr; up to wind speeds of 20 mph

Hard-to-access components



Emission on tank from the ground



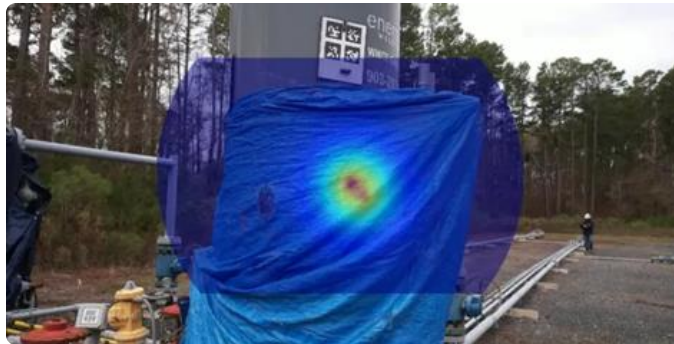
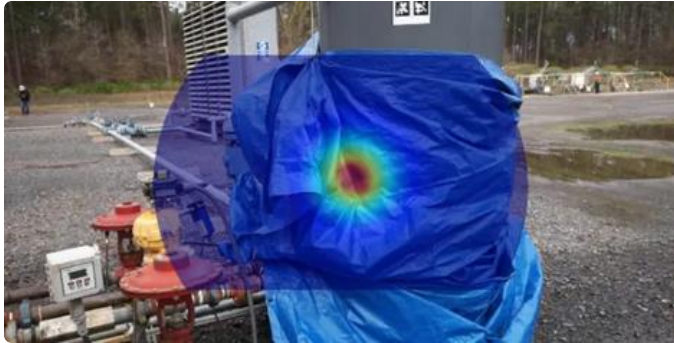
Detection from a vehicle



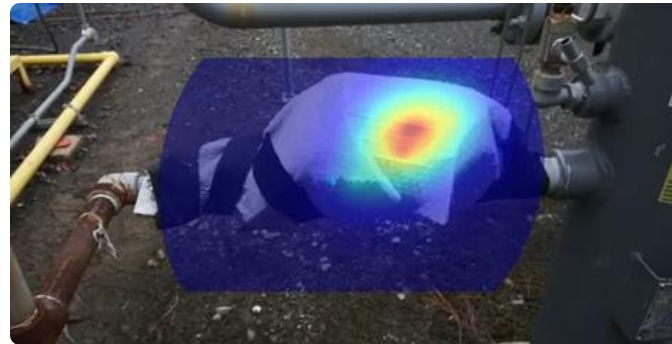
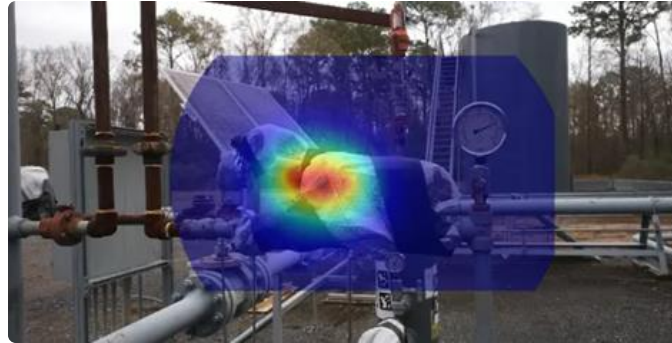
Xplorobot Laser OGI detects emissions that Infrared OGI cannot

Our next focus is buried pipelines

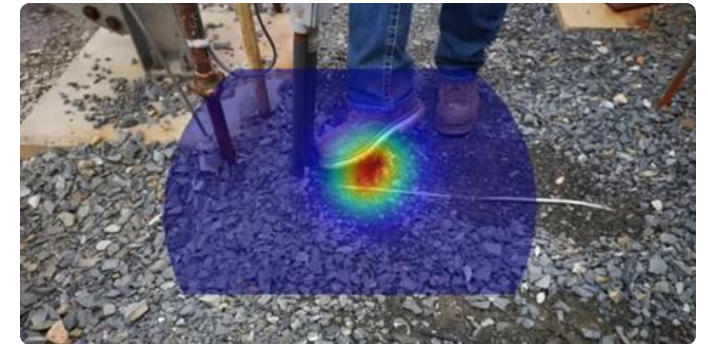
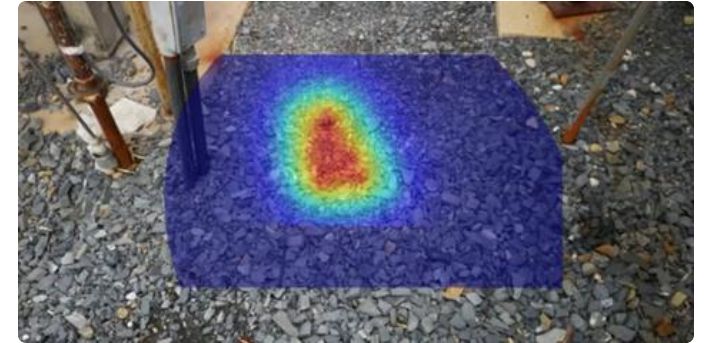
Emissions under tarps



Emissions under insulation

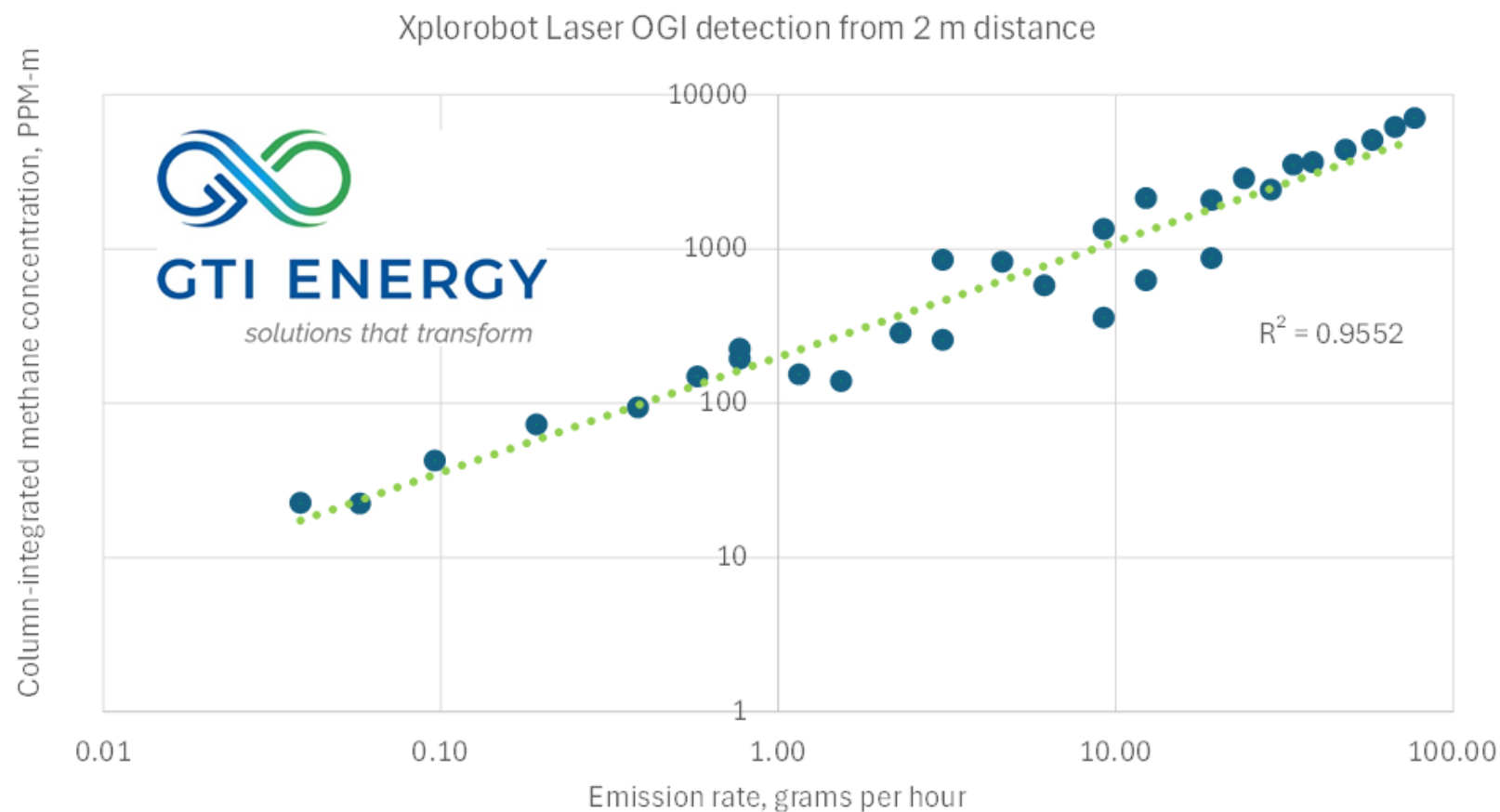


Emission from buried tubing



Xplorobot Laser OGI

Tested at GTI Energy Lab in Chicago—Demonstrated a Minimum Detection Limit of 0.04 g/hr

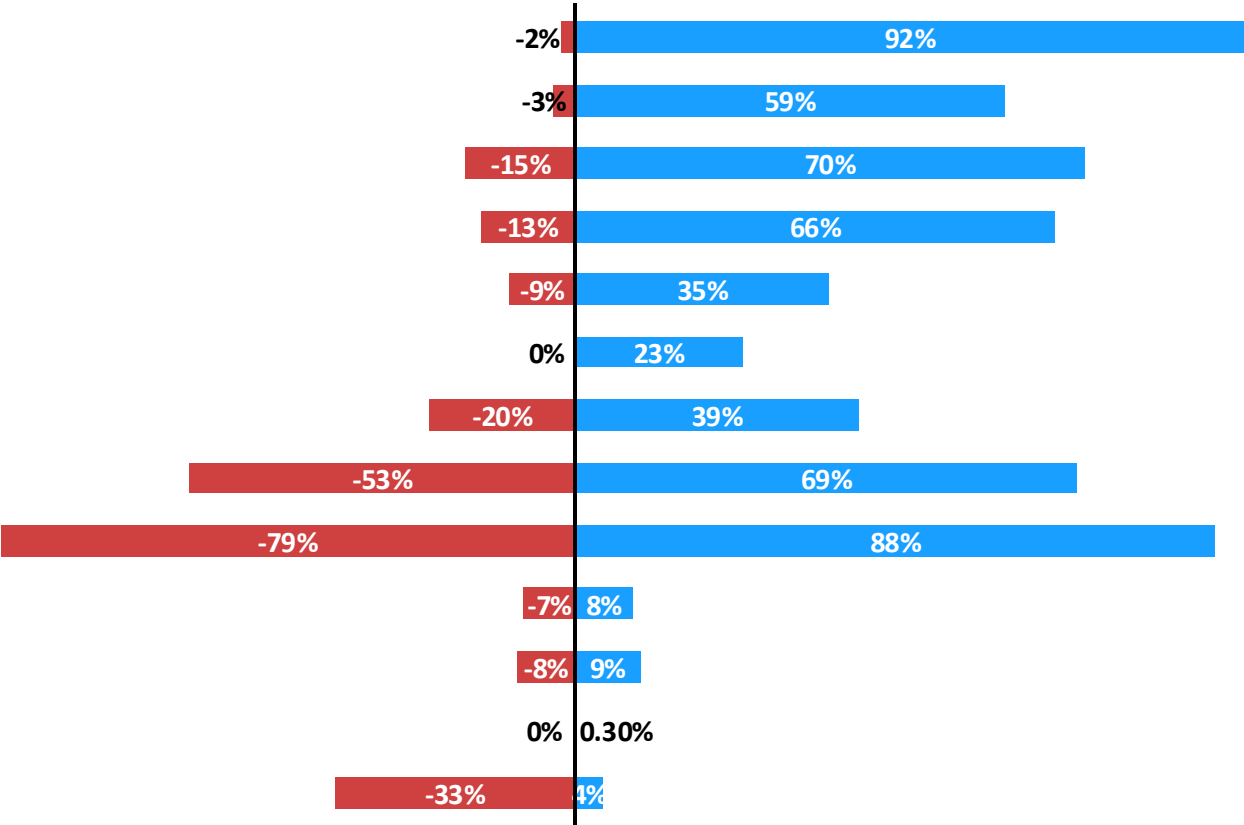


Xplorobot Laser OGI

Achieved best-in-class results at METEC* in 2023

False Positive Result Rates

True Positive Result Rates



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Technology

Aggregate Score

 xplorobot

90%

D (8 Point Sensors)

56%

F (8 Point Sensors)

55%

L (6 Point Sensors)

54%

C (6 Point Sensors)

26%

J (2 Scanning / Imaging Device)

23%

B (1 Scanning / Imaging Device)

19%

A (8 Point Sensors)

17%

E (16 Point Sensors)

9%

I (1 Scanning / Imaging Device)

1.2%

H (1 Scanning / Imaging Device)

1.3%

K (1 Point Sensor)

0.3%

G (1 Scanning / Imaging Device)

-29%

* METEC is the Methane Emissions Technology Evaluation Center at the Colorado State University sponsored by the US Department of Energy. METEC provides independent blind testing for all methane detection technologies for the US market.

Xplorobot meets the EU and OGMP 2.0 Level 4 and 5 requirements

Digital Compliance Database and AI-Driven Tagging

Component-level compliance records for all emission sources:

- Automatic digital catalogue of all inspected components
- Every component is identified and tagged by AI during inspection
- Results, locations, and classifications stored in a secure database
- Full traceability and audit-ready compliance records
- Inspection coverage, GPS route, and dwell time confirmed from digital data

Emission sources in compliance

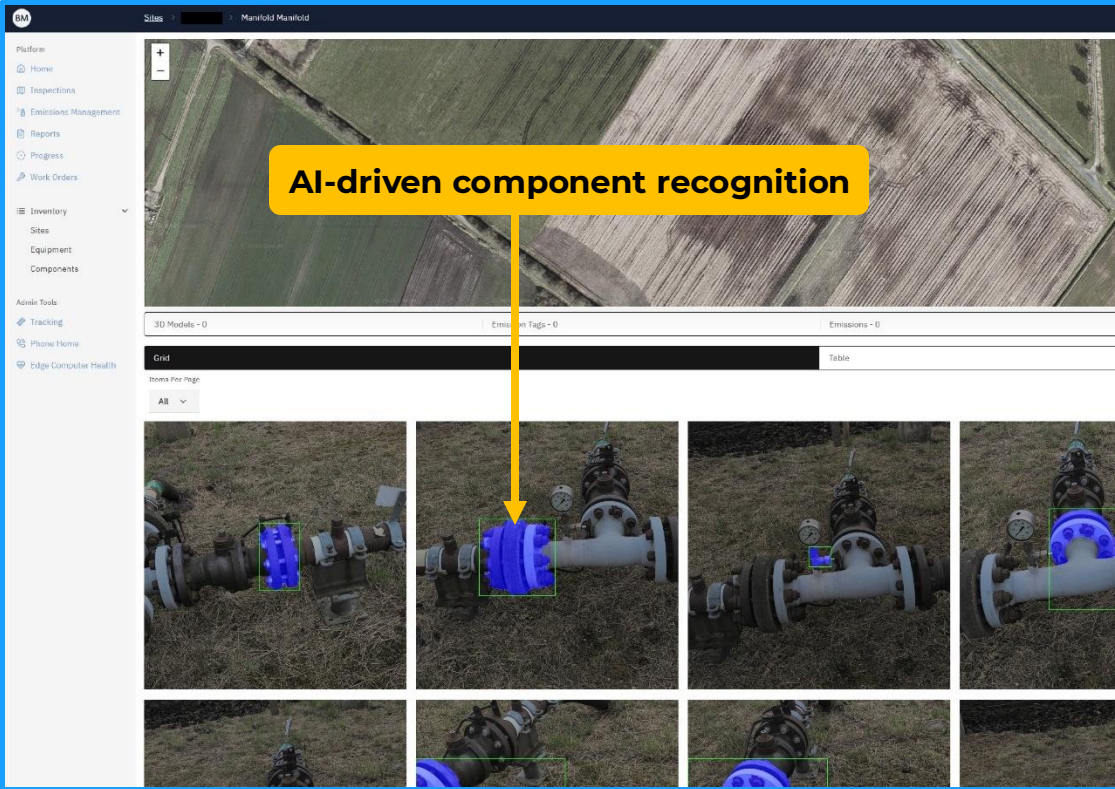
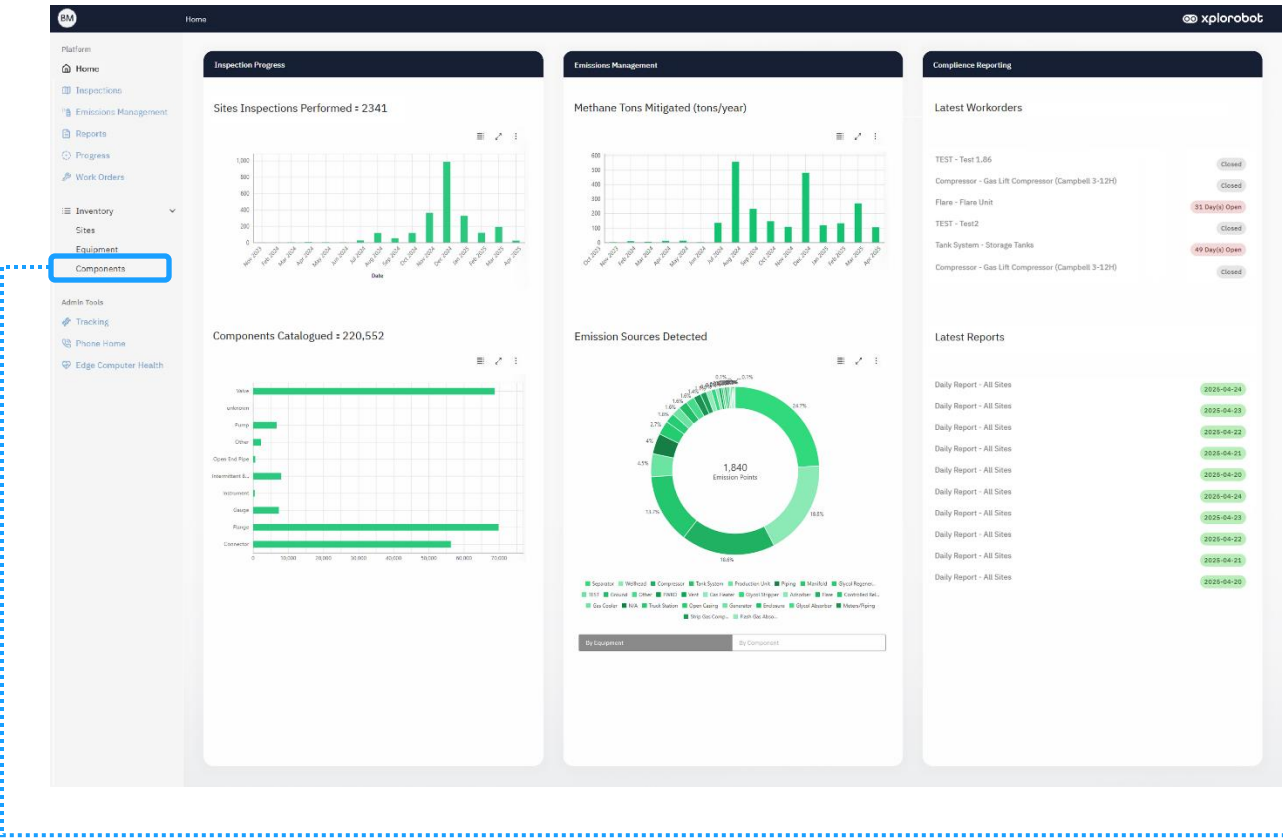


Emission sources to be mitigated



Methane Emissions Management Database

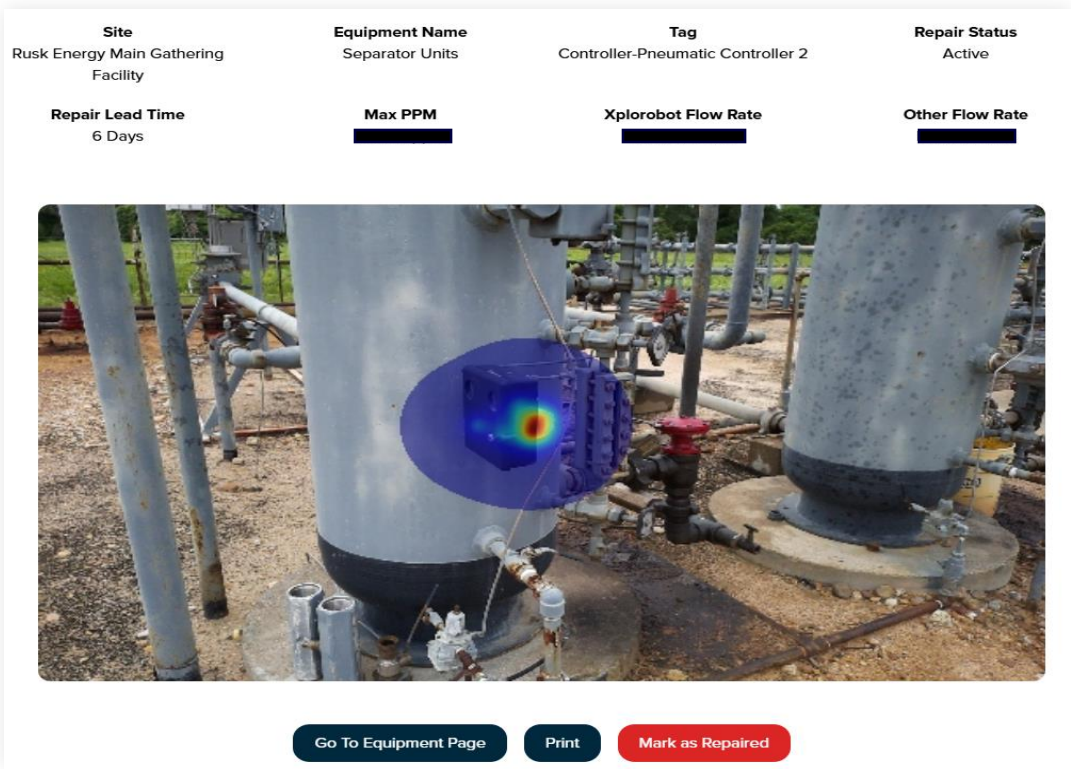
Automates emission tracking, repair close-out, and regulatory reporting



Xplorobot Digital Emission Tag

Documents all information on emissions to enable repairs and reporting

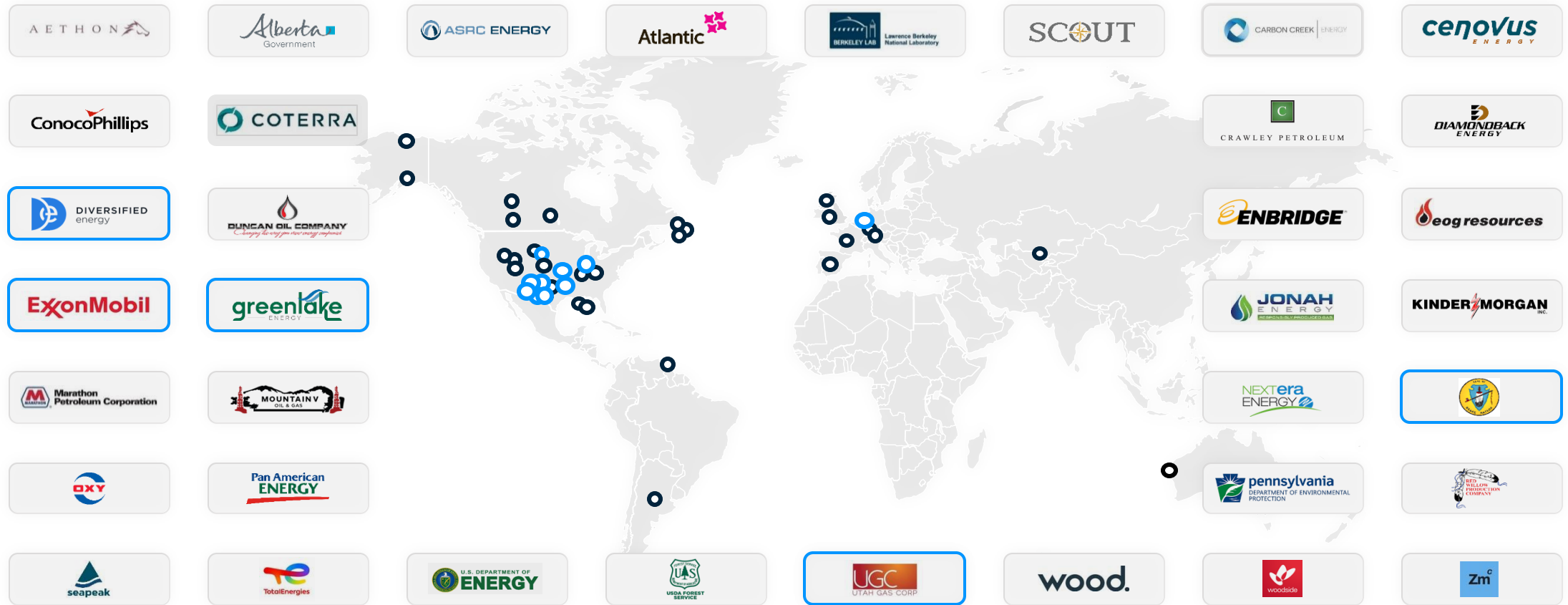
Visualization and information on the dashboard



Compliance database entries

Date: 2024-06-12
Time: 13:26
Operator: Rusk Energy
Site: Main Gathering Facility
Equipment: Separator X
Component: Pneumatic Controller X
Maximum concentration: XXX
Emission Rate Estimate: XXX
Emission Rate Confirmation: XXX
GPS Coordinates: 29.746 -96.574
Wind Speed: 6.7 mph
Atmospheric Pressure: 101.62 kPa
Repair Status: Active
Repair Lead Time: 6 days

Xplorobot is enabling compliance for operators worldwide

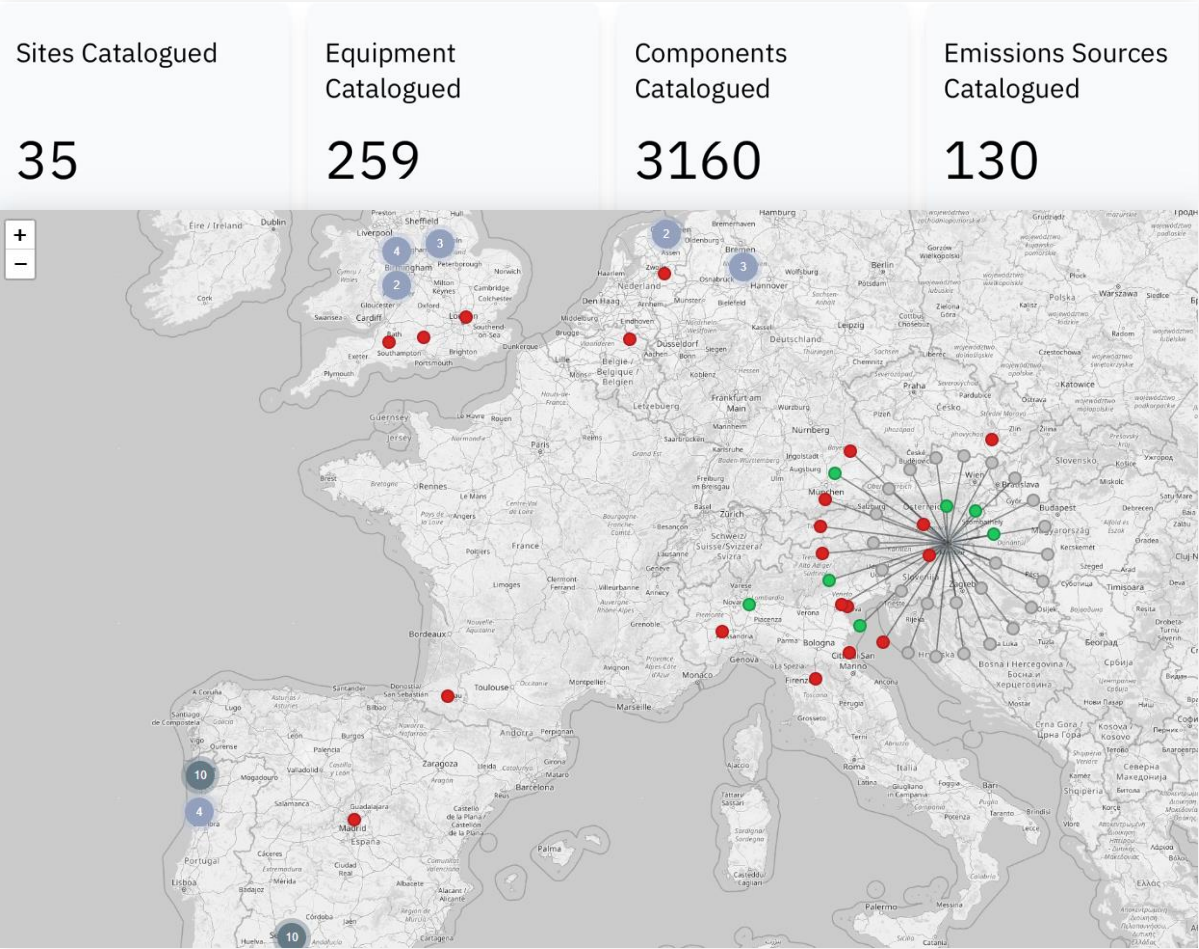


+4,000 facilities

65 customers

16 countries

2025: Expansion in Europe and Italy



PC-LOR3

Equipment

Tags

Export To XLSX

Name	Type	Last Inspected	GPS Coordinates	Pivot Mode
F-513A	Separator	2025-03-04 13:49:49	[-38.72193782757098, -68.]	☒
F-513B	Separator	2025-03-04 13:38:59	[-38.72195677031088, -68.]	☒
Facility Inlet And Discharge	Piping	2025-03-04 14:37:35	[-38.72201503866895, -68.]	☒
Gas Heater	Gas Heater	2025-03-04 14:41:08	[-38.72104717293016, -68.]	☒

Search...

☒ Name
☒ Type
☒ Last Inspected
☒ GPS Coordinates
☒ # of Scans

Site

PC-LOR3

Max PPM

10657

Equipment Name

K861L

Xplorobot Flowrate

Not Available

Tag

Regulator_Fuel Gas Regulator

Other Rate

N/A

Status

emitting

Xploropack Used

Genesis1

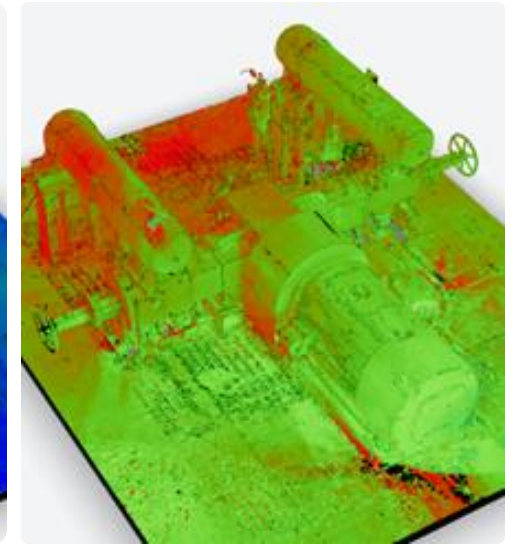
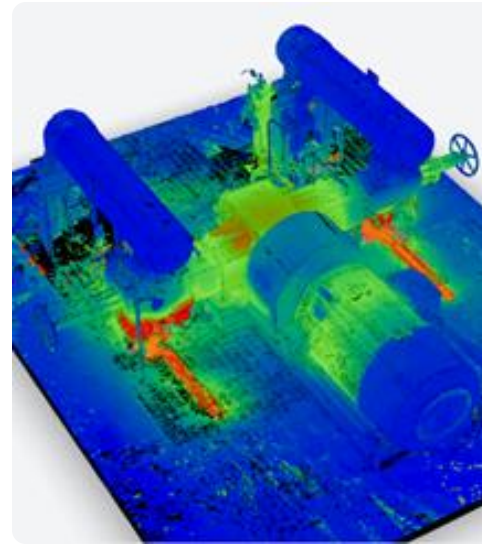
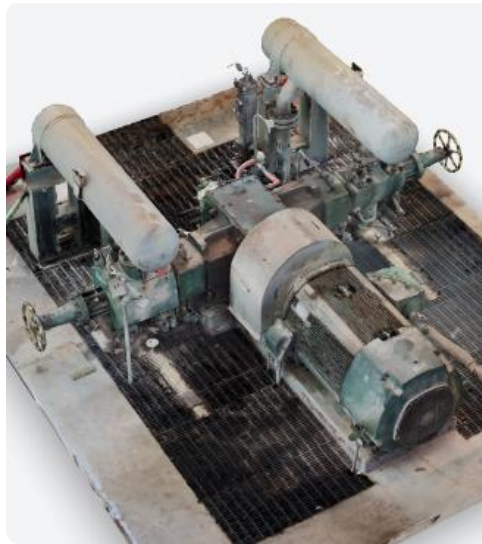
Next Steps: Multi-physics Digital Twin Platform

Technology developed, ready for piloting with operators

Multi-sensor Handheld



Multi-physics Digital Twins



Use Cases Enabled

 emissions

 corrosion

 structural

 thermal

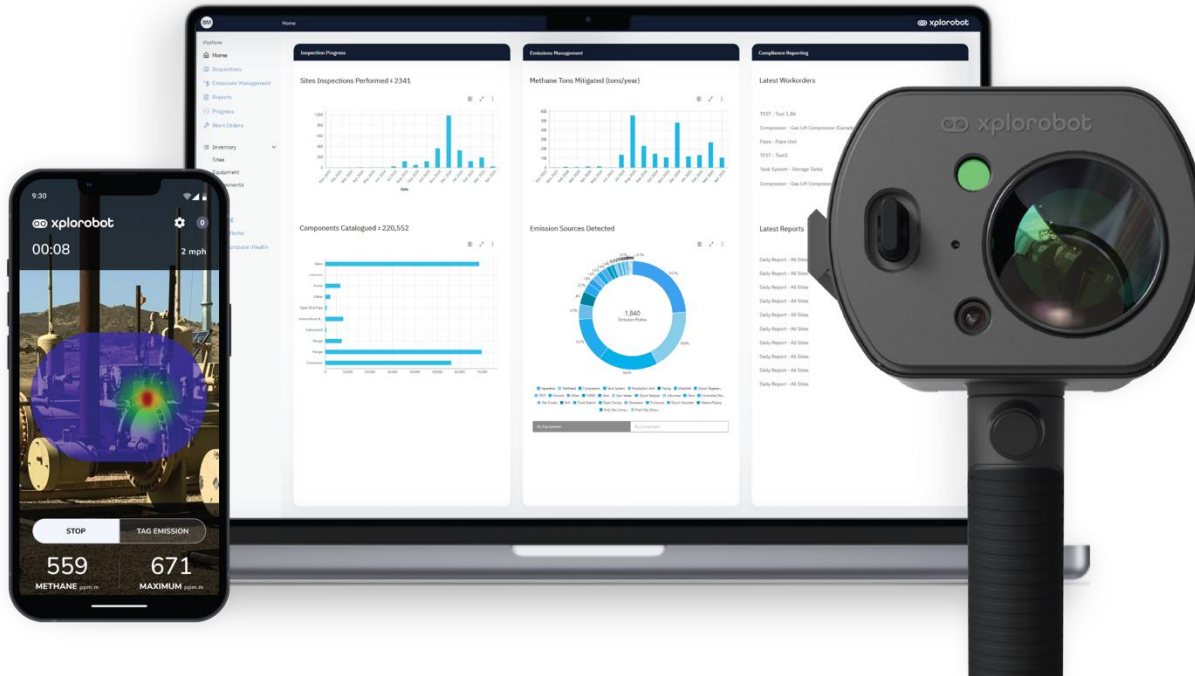
 vibration

 acoustic

Conclusions

From detection to digital compliance.

- Xplorobot allows operators to go beyond simple leak detection and enter the era of *digital compliance*, fully aligned with OGMP 2.0 Level 5 and the new EU Methane Regulation 2024/1787
- Our objective is to make methane emission monitoring **faster, smarter, and verifiable**, transforming every scan into a documented step toward net-zero operations.





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