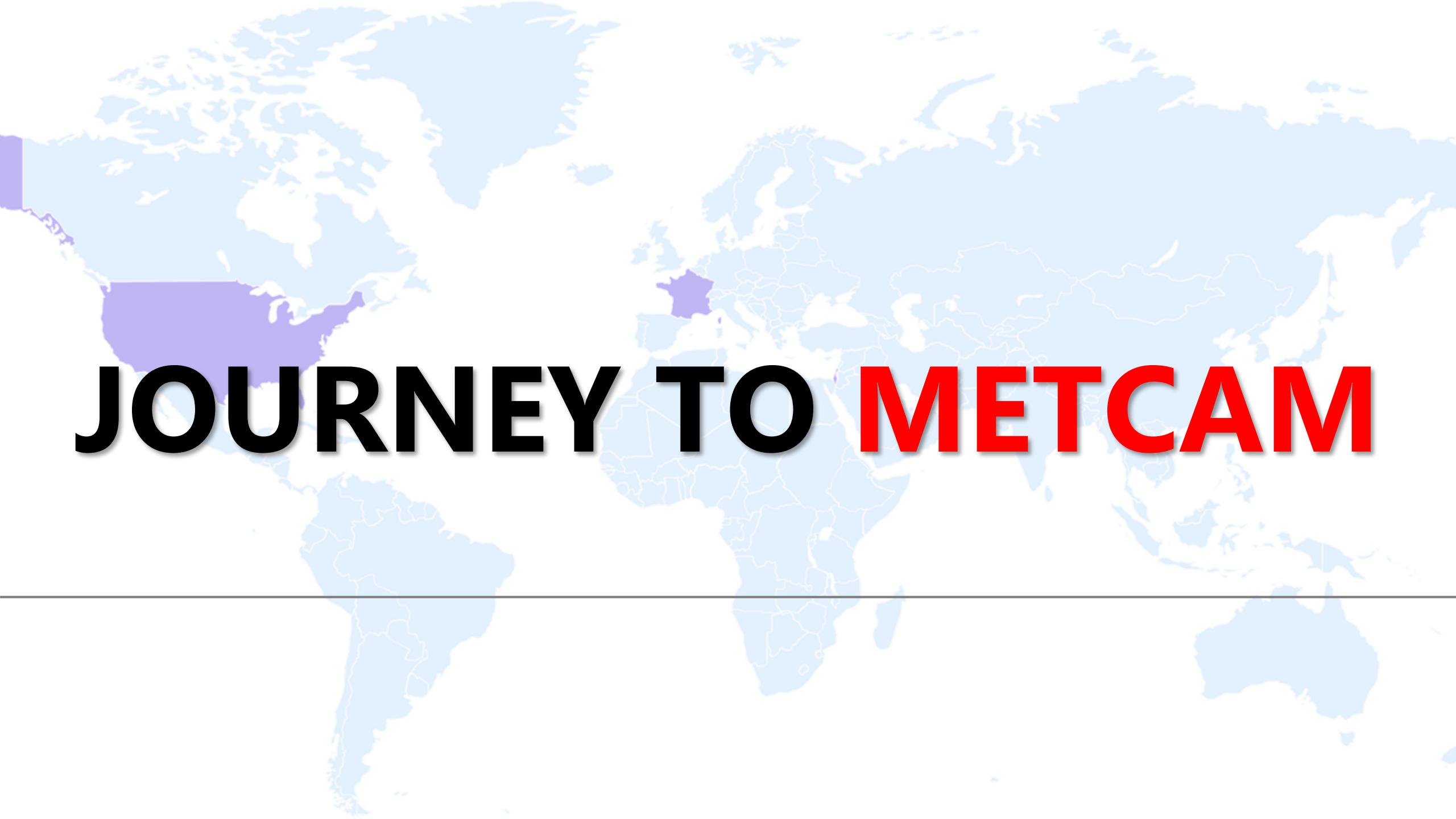
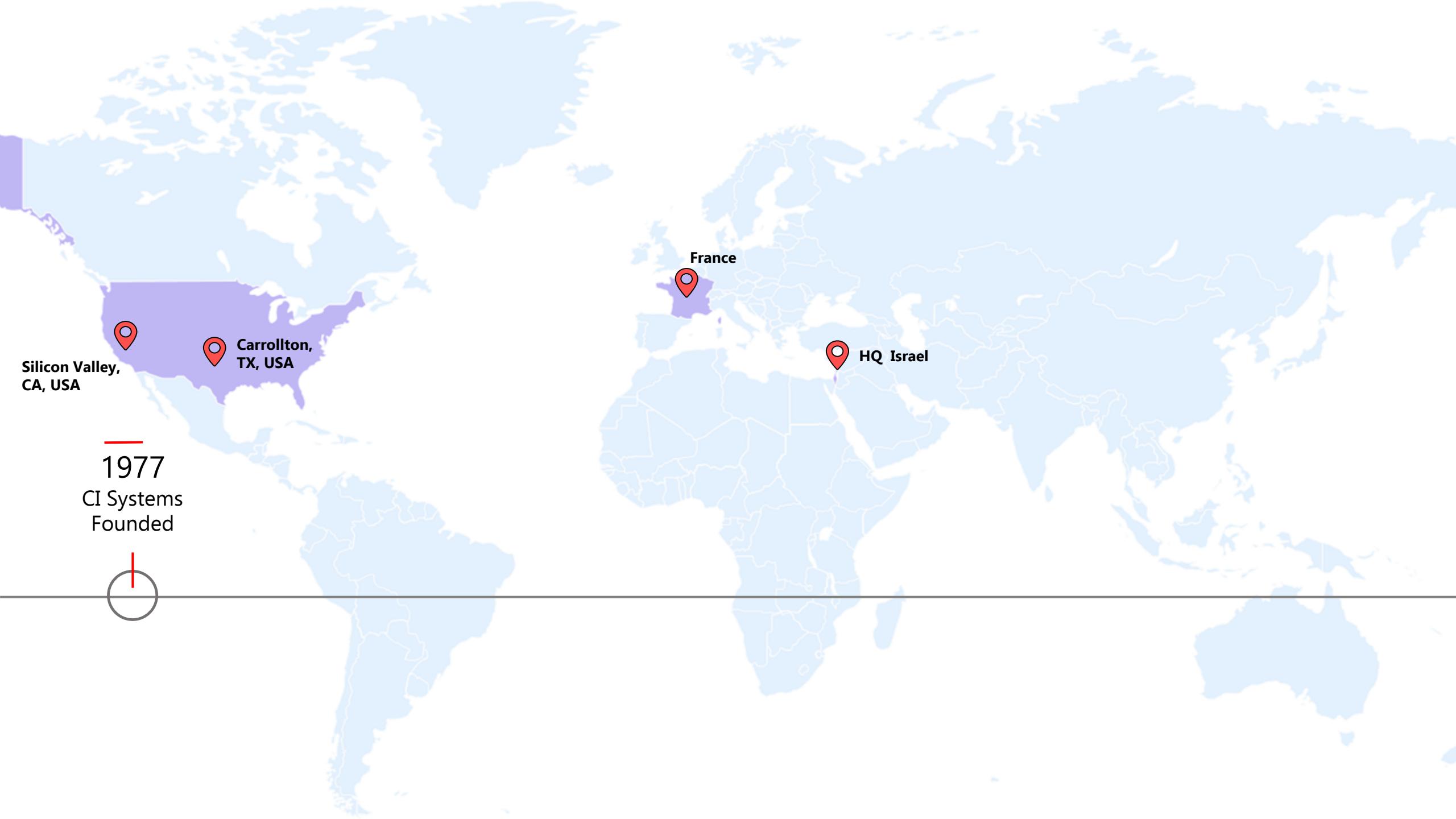


DISCOVER METCAM





JOURNÉY TO METCAM





1977
CI Systems
Founded



1983
CI EO
Division



1977
CI Systems
Founded



1983
CI EO
Division



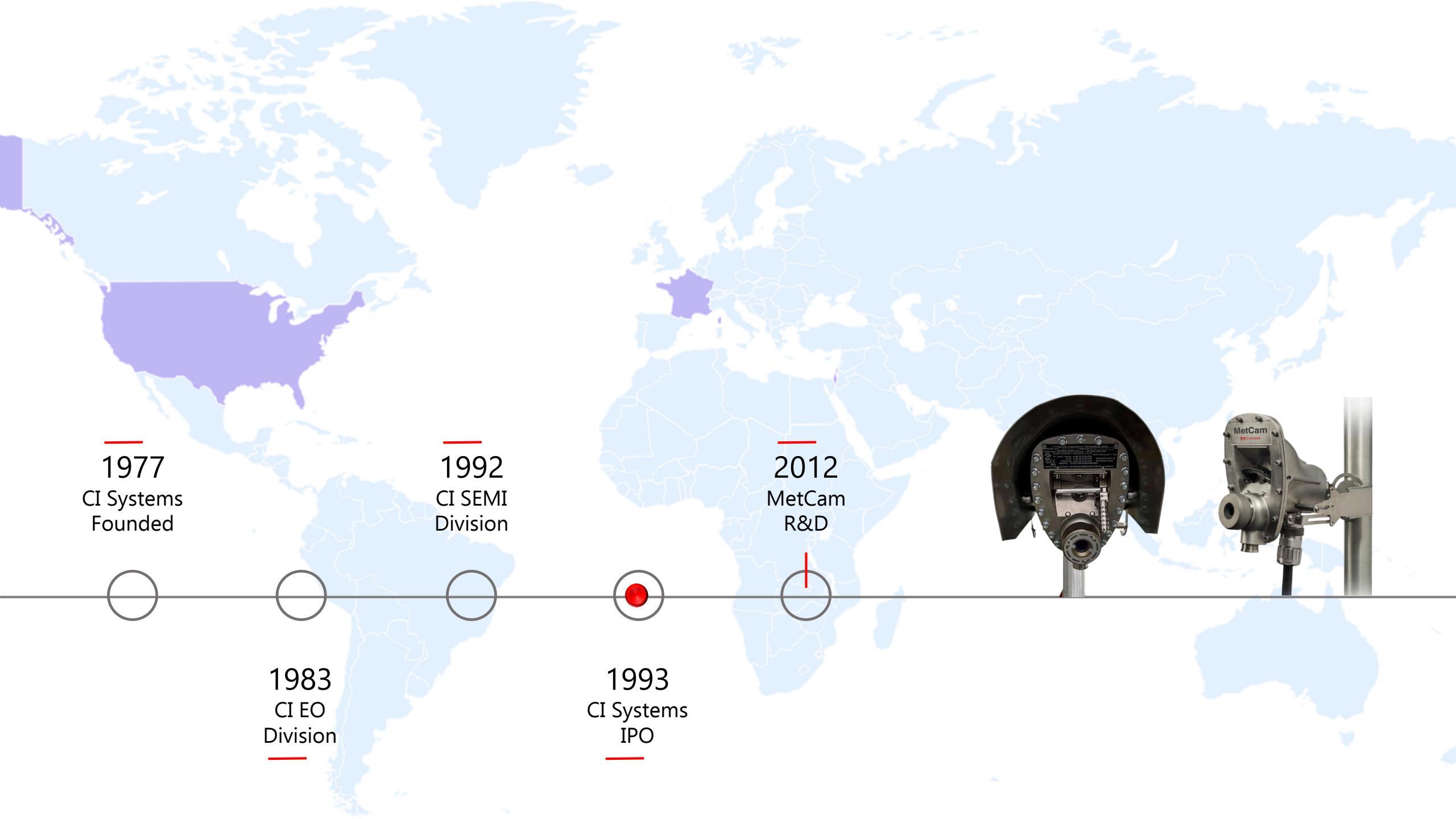
1977
CI Systems
Founded

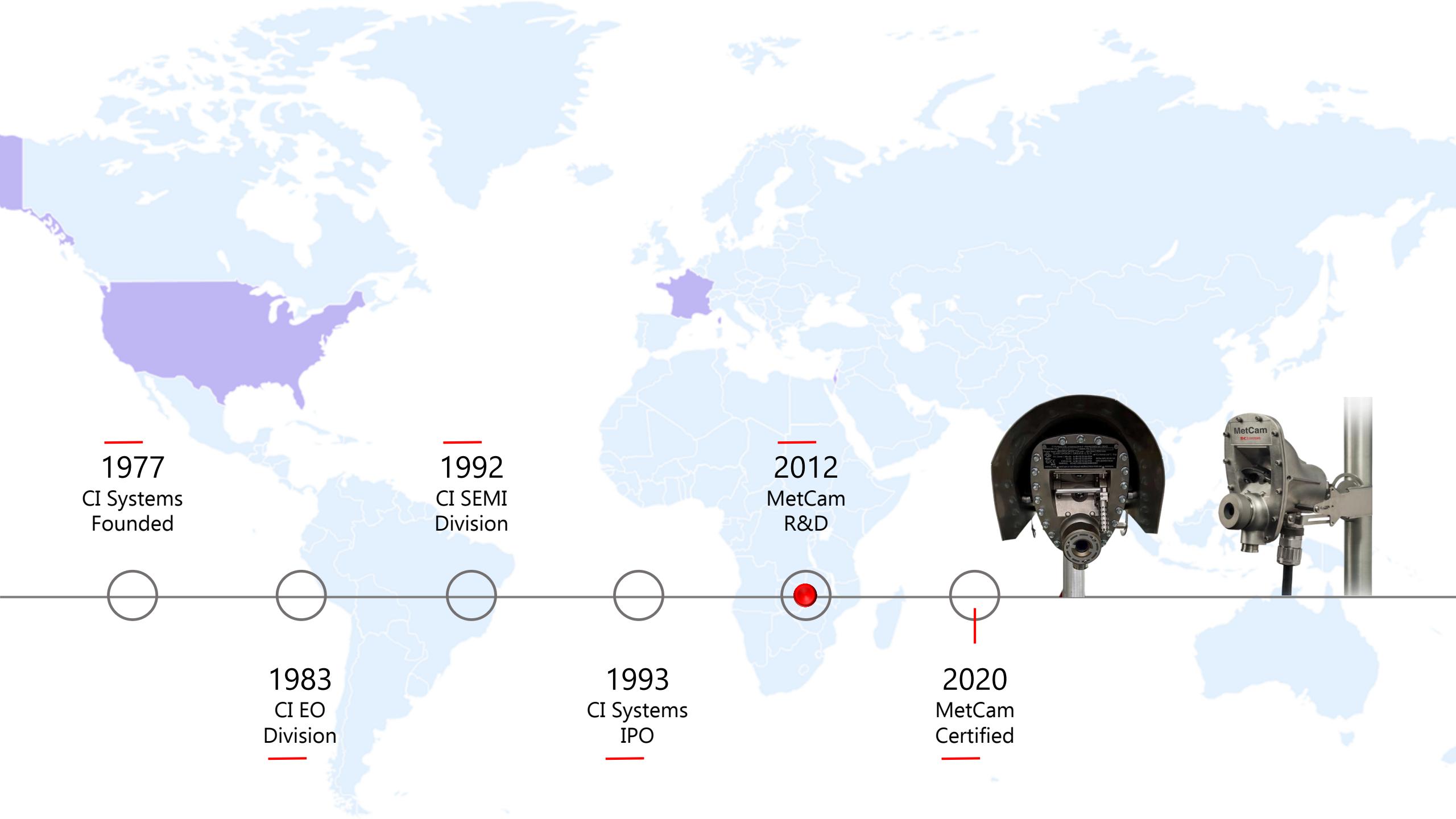
1992
CI SEMI
Division

1983
CI EO
Division

1993
CI Systems
IPO









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CI Systems
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CI SEMI
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1983
CI EO
Division

1993
CI Systems
IPO

2012
MetCam
R&D

2020
MetCam
Certified

2022
CI Sensing
Division

Dräger Santos





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Dräger Santos



GET TO KNOW **METCAM**

THE SOLUTION



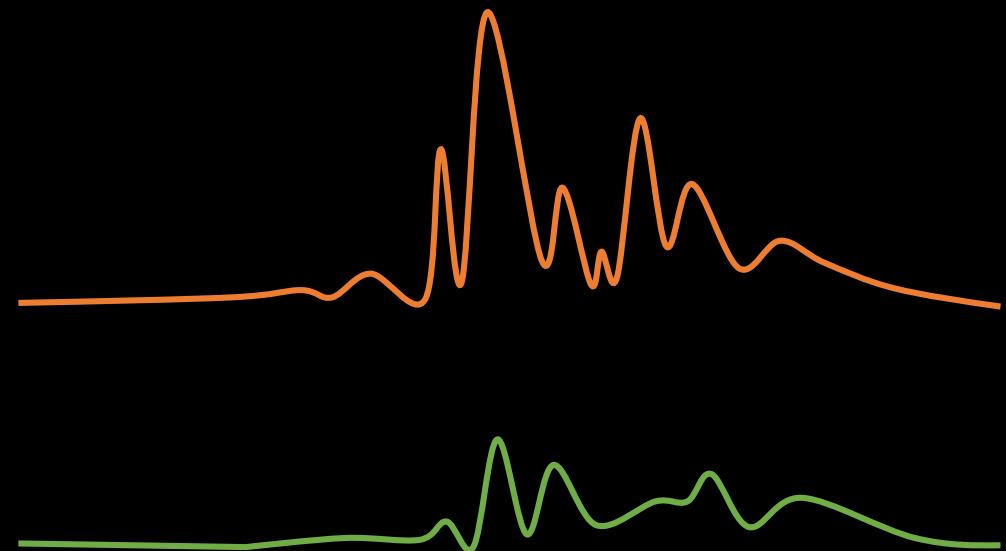
MetCam is a **Continuous Leak Detection System** that employs Quantifying Optical Gas Imaging (QOGI) technology to automatically monitor, detect, measure, and alert on the presence of dangerous gas clouds.

THE TECHNOLOGY

Dual Band

MetCam utilizes a patented dual-band method that incorporates a second reference spectrum.

- Neglectable false alarm rate
- Superior quantification process
- Gas specific

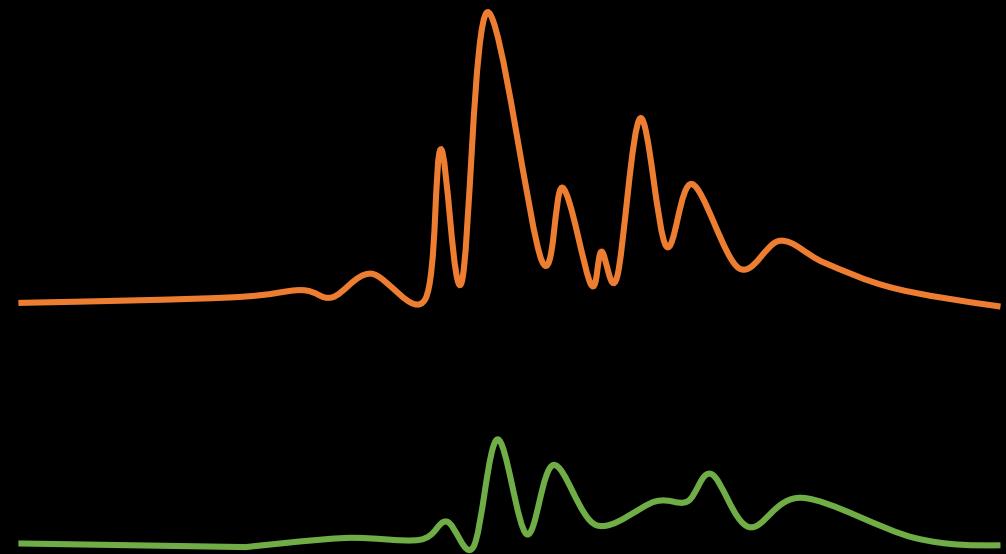


THE TECHNOLOGY

MODELS

Hydrocarbons	Refrigerants	Industrial
Methane	R-134a	N2O
Methanol	R-1234ze	SO2
Isobutane	R-1234yf	SF6
Ethylene		Acetic Acid
n-Butane		Ethylene Oxid

Dual Band

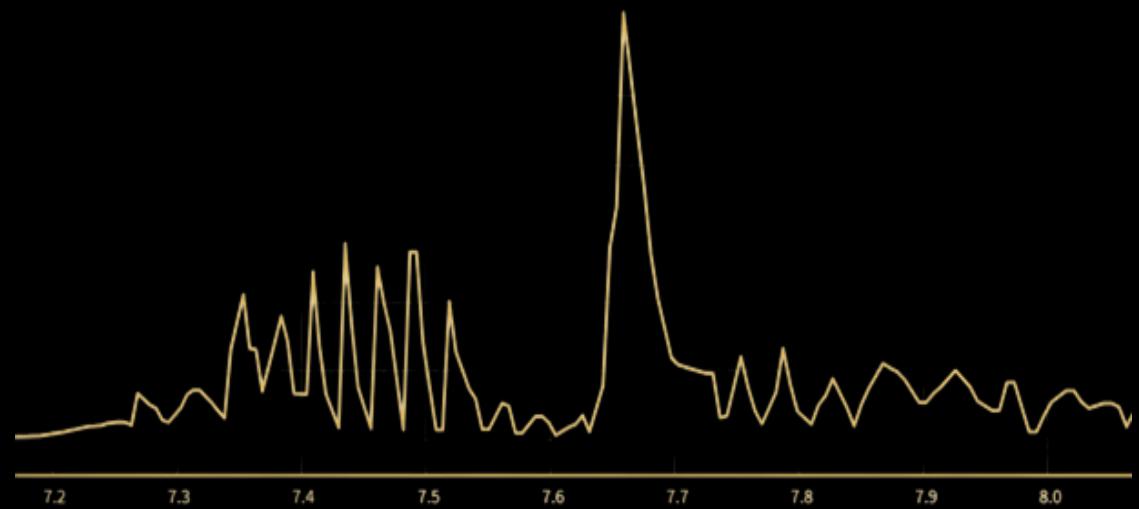


THE TECHNOLOGY

MetCam functions as an uncooled detector camera, specifically designed to operate within the Long Wave Infrared (LWIR) spectrum:

- Cost effective
- High Reliability
- Atmospheric Penetration

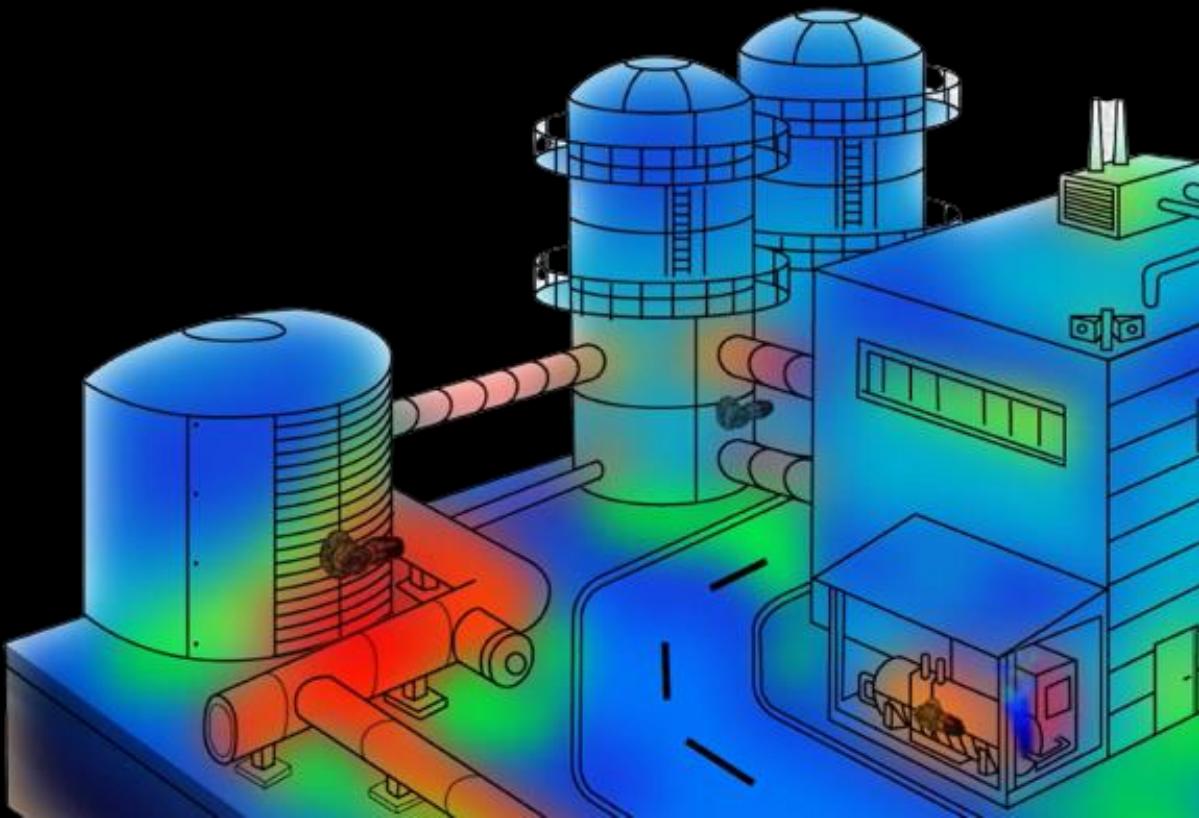
Long Wave IR



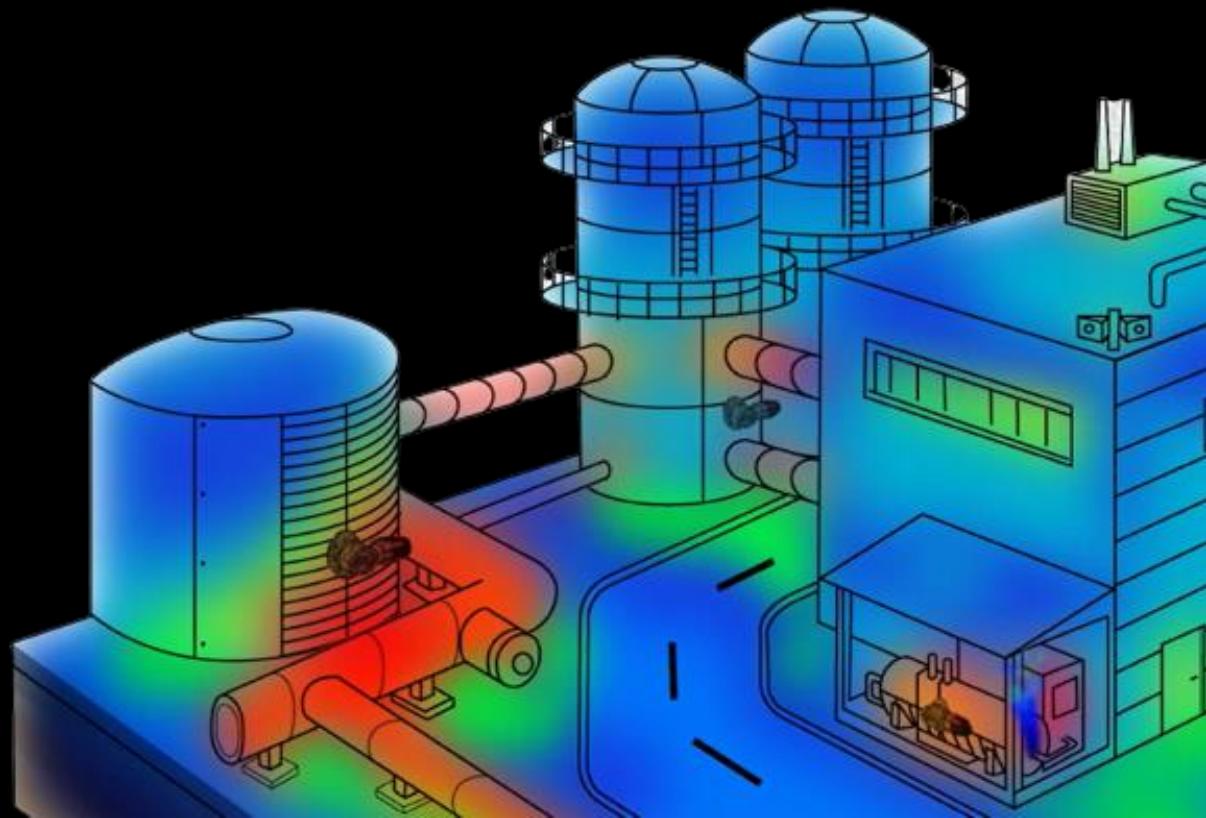
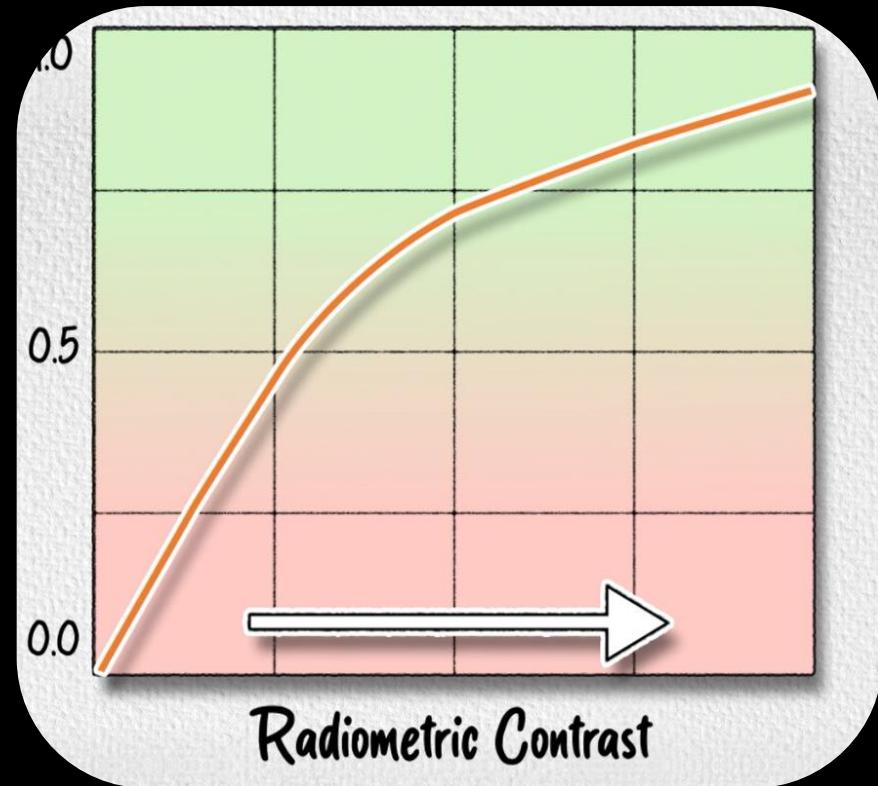
THE TECHNOLOGY

Radiometric Contrast is the difference between the air and the background radiation, enables the use of OGI technology.

MetCam requires as little as 0.5° contrast for detection.



THE TECHNOLOGY



METCAM FEATURES



ROBUST DESIGN

Ex Proof certified

Zone 1 | Class 1 Div. 1

Water & Dust protected

IP66



flexible and comprehensive site coverage

Long lasting service at harsh environment



INTEGRABLE

Std. Industry Outputs

4-20 mA

HART

ONVIF

MODBUS

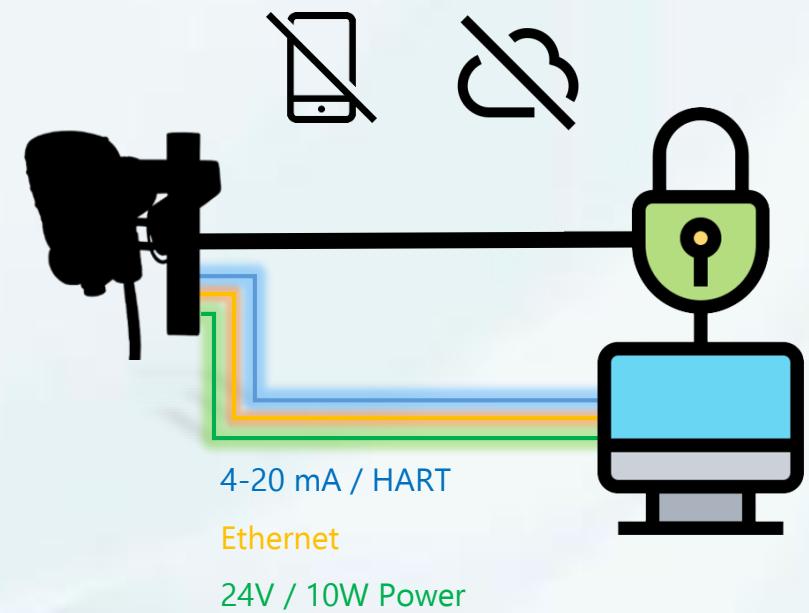
High Data Security

NO Cloud

NO SAAS

Internal Storage

Standalone System





SCALABLE



End to End Solution



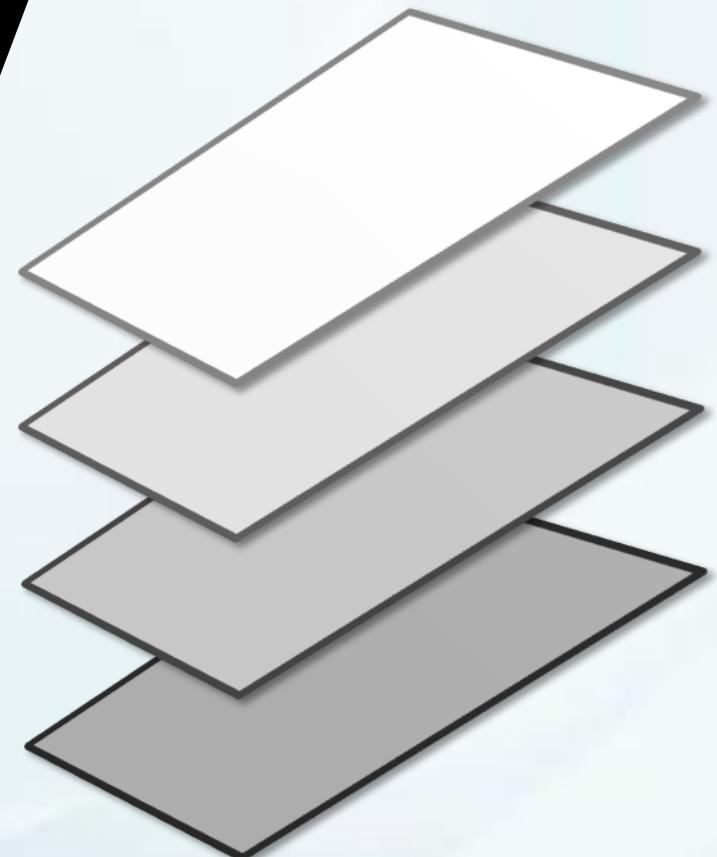
Remote access



Plug and Play



All in One





SCALABLE



End to End Solution



Remote access



Plug and Play

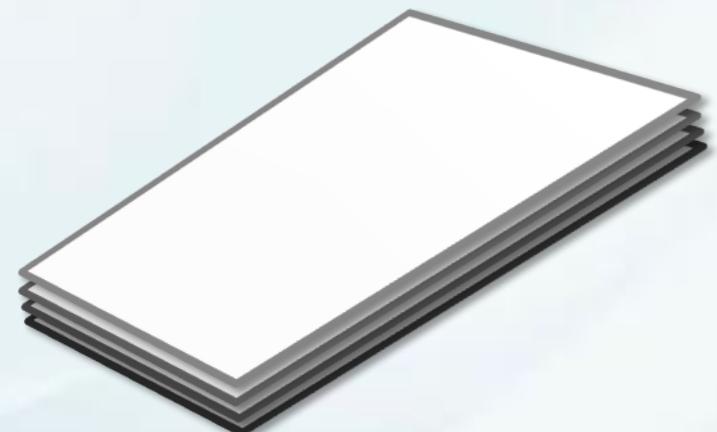


All in One



Asset Level

Leak Detection Network





UNIVERSAL

Cross Platform solution

50 meters detection distance

68° X 23° FoV

Industrial Processes

Power Plants

Compressor Sites

LNG Terminals

Offshore Platforms

Refineries



Application - Compressor stations

MetCam Is implemented in remote and unmanned compressor stations worldwide.

Not only will it provide an alarm when there is a leak, the service crew arriving on-site can get a good idea about the source of the fault and the equipment to come with. Windshield time is a major concern for these operators and minimizing it is an important consideration.



Application - LNG Offload Terminal

MetCam Is implemented in an LNG offloading terminal where an FSRU gasifies LNG and runs it into the gas grid. Point detectors and open-path units are installed on-site, MetCam provides additional safety coverage.



Application - Offshore FSO

MetCam Is going to be delivered this year for a deepwater offshore Floating Storage and Offloading platform (FSO), headed for Mexican waters. In this project, CI is delivering a full turnkey project with all recording and display hardware/software.





OPERATION **SAFETY MODE**

Events recorded and stored on-board

User set thresholds

A1 and A2 LEL levels:

WARNING

ALARM



MetCam is healthy





OPERATION EMISSIONS MODE

End-to-End leak monitoring and alarm

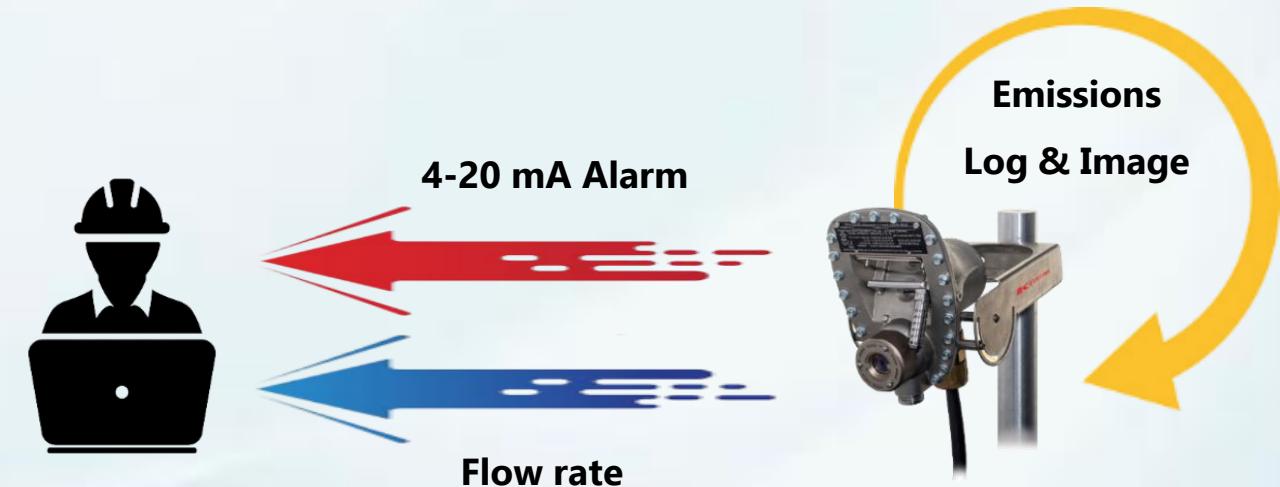
Visualized gas cloud and leak source

Cloud quantification:

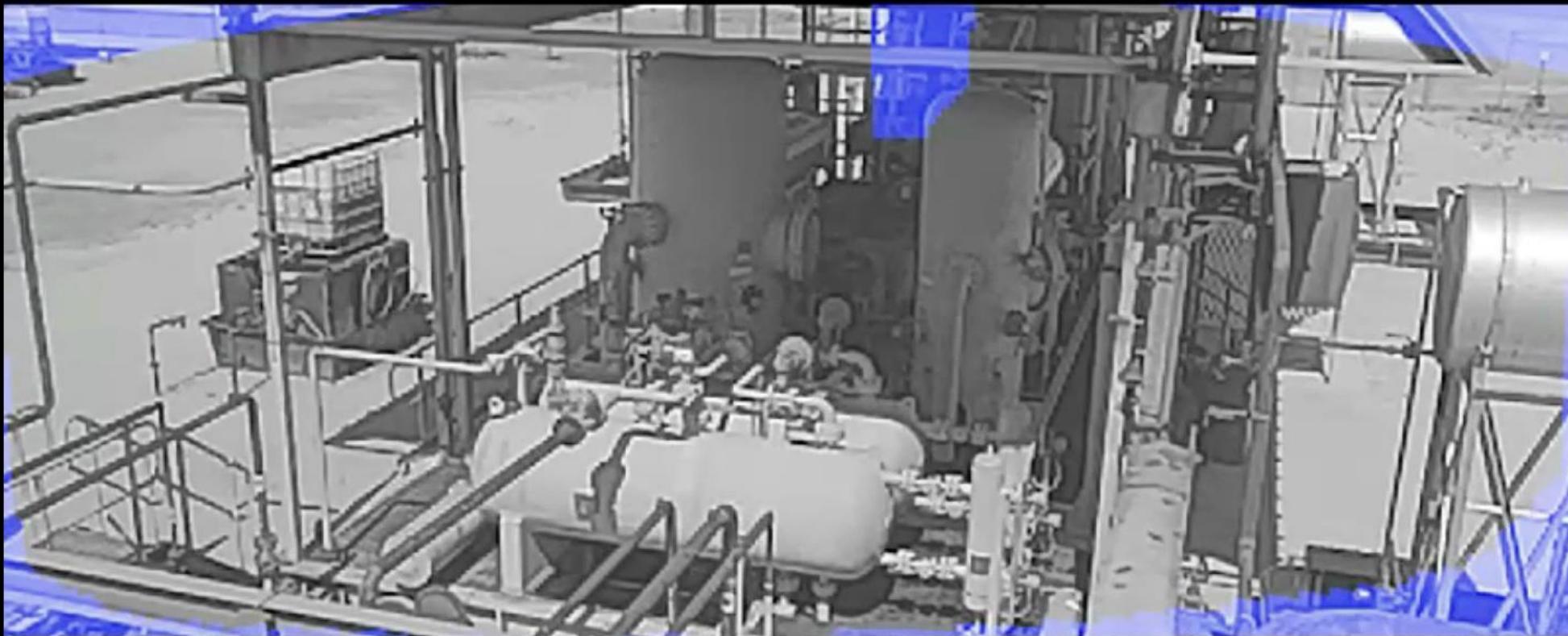
LOCATION

FLOW RATE

QUANTIFICATION



Estimated flow rate: 0.00 liters/min.







A DIVISION OF CI SYSTEMS