Gas Mapping LiDAR™

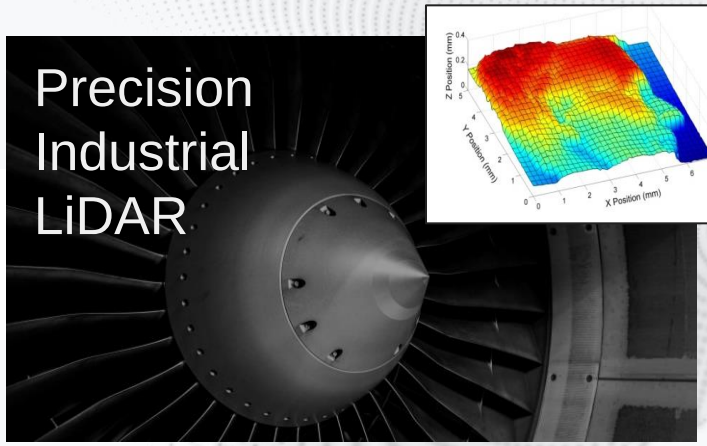
BRIDGER PHOTONICS

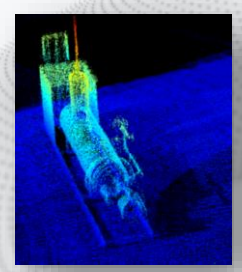
next-gen methane leak detection and quantification

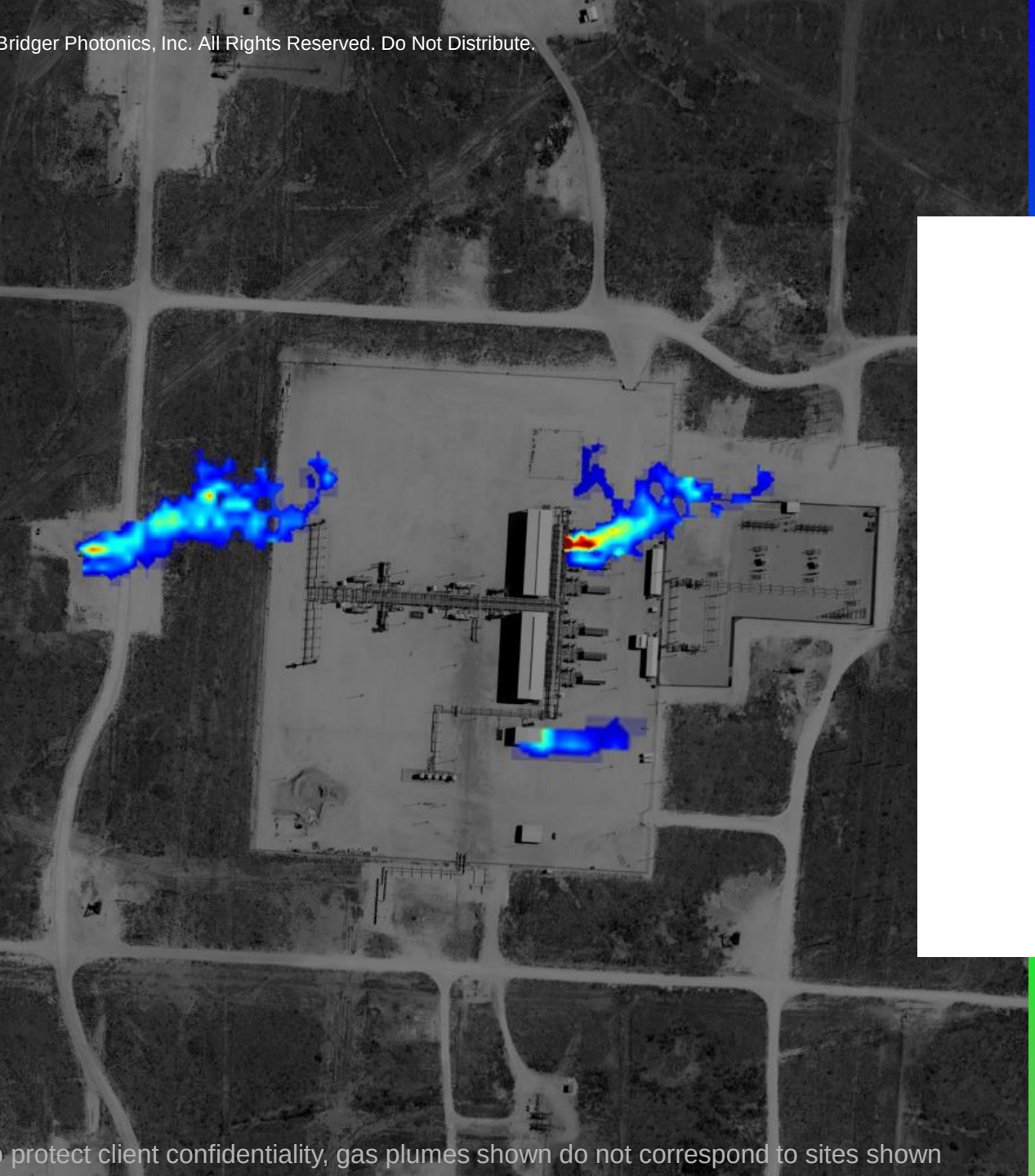
About Us

Founded in 2006

We develop advanced laser sensors and analytics to solve impactful industrial challenges







o protect client confidentiality, gas plumes shown do not correspond to sites shown

BRIDGER PHOTONICS

GAS MAPPING LiDAR™

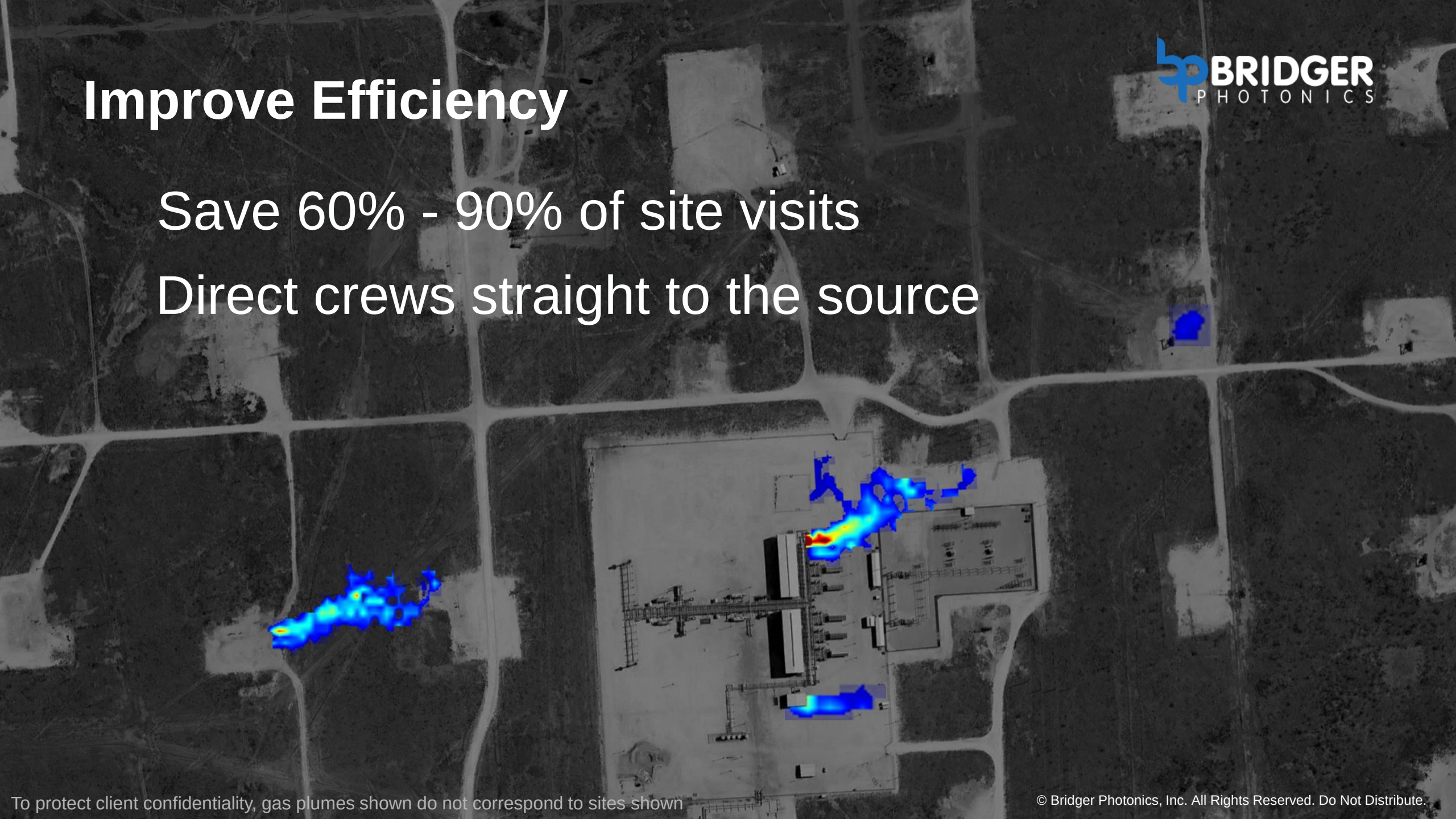
Emissions Reduction Made Simple.

Gas Mapping LiDAR™ sensitively images, pinpoints, and quantifies your methane emissions from the air.

Improve Efficiency

Save 60% - 90% of site visits

Direct crews straight to the source



To protect client confidentiality, gas plumes shown do not correspond to sites shown

Reduce Emissions

We detect
more than

90%

of emissions
in typical production basins

We find roughly

50:50

Fugitive : Process

Increase Safety

Prevent Accidents

- Reduce field crew exposure to on-site hazards
- Reduce “windshield time”
- Provide advance awareness for you and your crews

Source: Wall Street Journal

Simplify Compliance

US

EPA

First-ever submission of OOOOa AMEL

PHMSA

Compliant

Canada

Alberta Energy Regulator

First-ever submissions of Directive 060 Alt-FEMPs

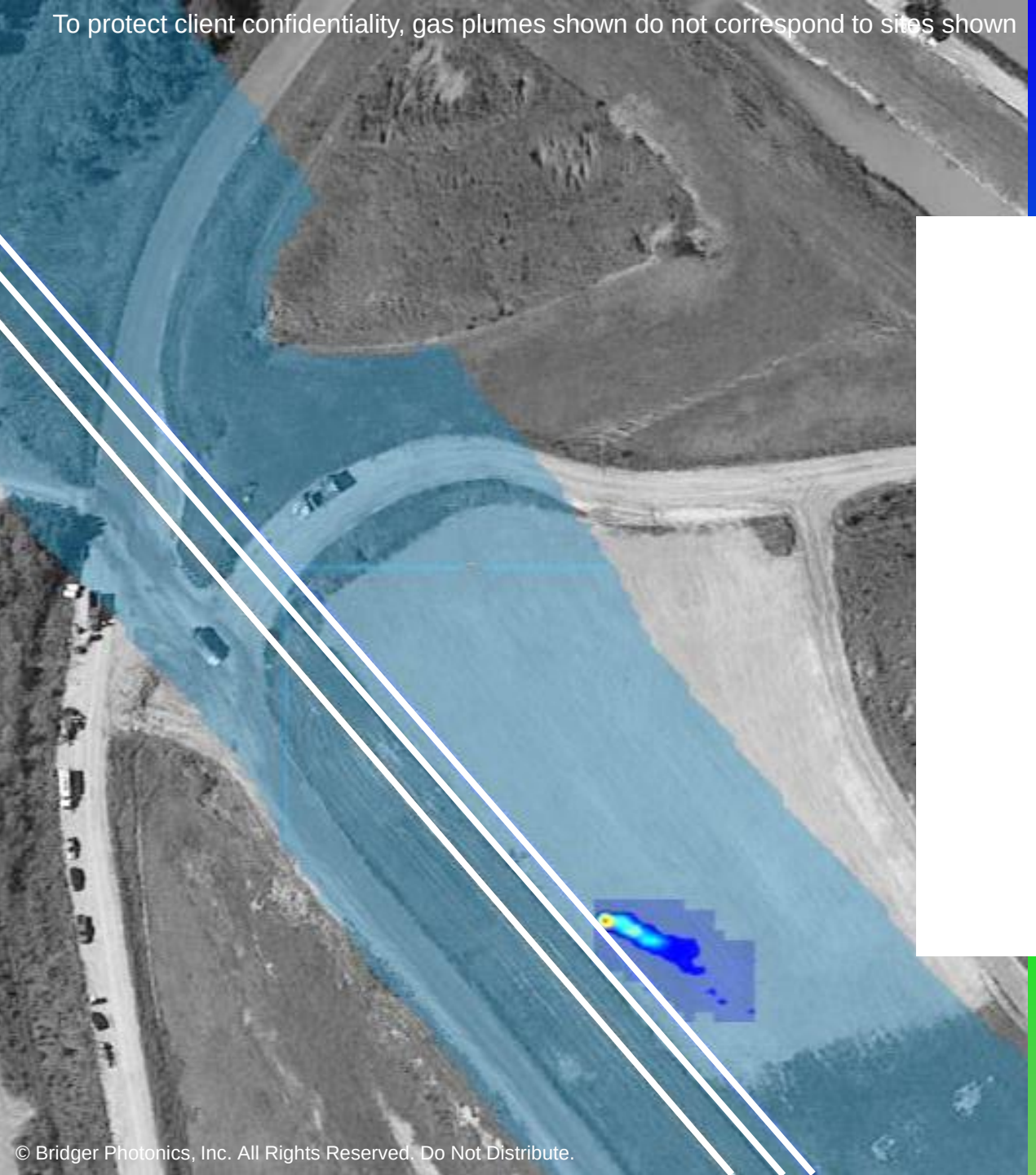
CANADIAN STANDARDS ASSOCIATION

Compliant

Example Data Products

Image redacted.
Contact us for details
on our data products.

Work Order



BRIDGER PHOTONICS

GAS MAPPING LiDAR™

Transmission Sector

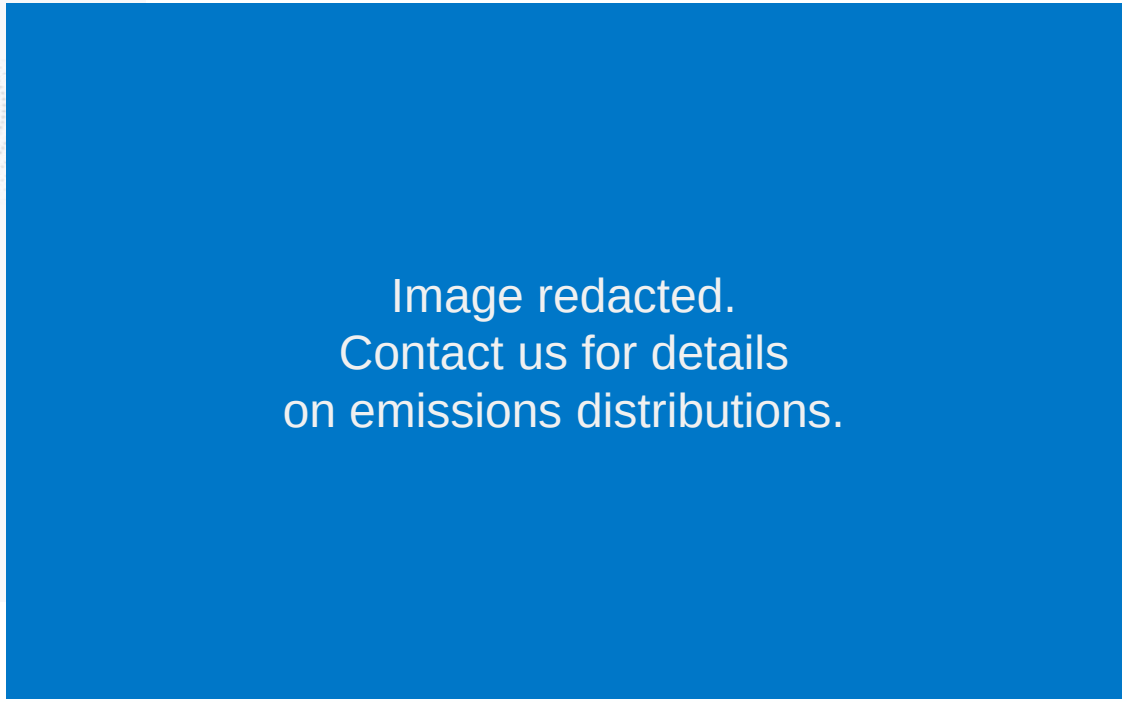
Know what you cover, prevent accidents, and direct crews straight to the source.

Technology Landscape

Permian Basin 2000-Site Emissions Distribution

- Satellite solar IR: 10-20%
- Aircraft solar IR: 30-40%
- Gas Mapping LiDAR: >90%

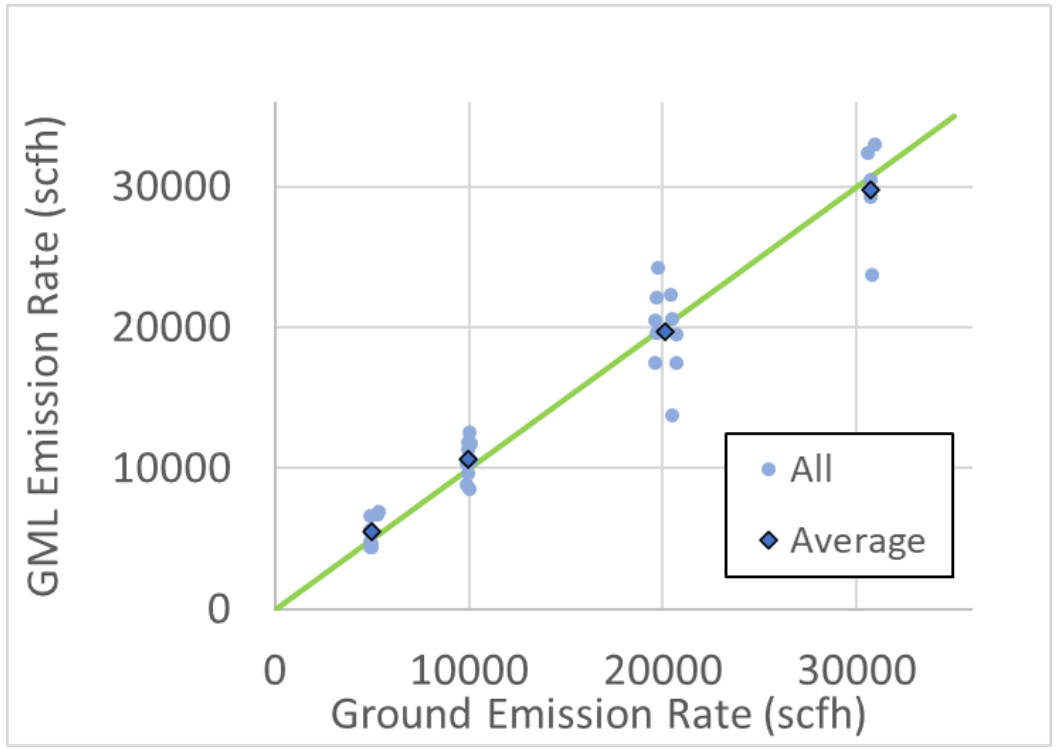
- Assumption: 9 mph wind speed
  (avg wind speed in Midland, TX is 11 mph) ****



* *https://directory.eoportal.org/web/eoportal/satellite-missions/g/ghgsat-c1-c2*
** *Sherwin, et al. Elementa **9**, 00063 (2021)*
*** *Johnson, et al. Remote Sensing of Environment **259**, 112418 (2021)*
**** *https://weatherspark.com/y/4333/Average-Weather-in-Midland-Texas-United-States-Year-Round#:~:text=The%20average%20hourly%20wind%20speed,than%2011.0%20miles%20per%20hour.*

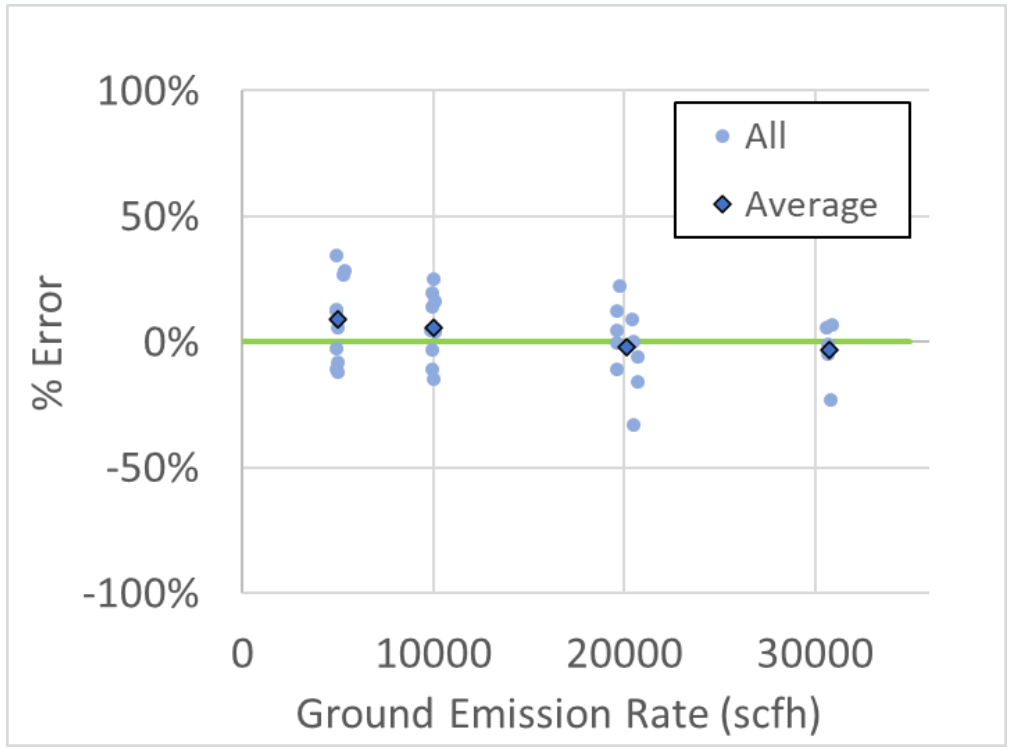
Quantification (Ideal Conditions)

Correlation: r = 0.97



Bias = +3%

Uncertainty = ±15%



Case Study

Fully blind testing by Dr. Matt Johnson's group at Carleton University
Johnson, et al. Remote Sensing of Environment 259, 112418 (2021).

We quantified emission rates with uncertainty of

±31%

which is as good as ground crews with infrared cameras

We detected all emissions over

100 scfh

scfh which is equivalent to 2.0 kg/hr

Thank you!

For any questions or feedback,
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