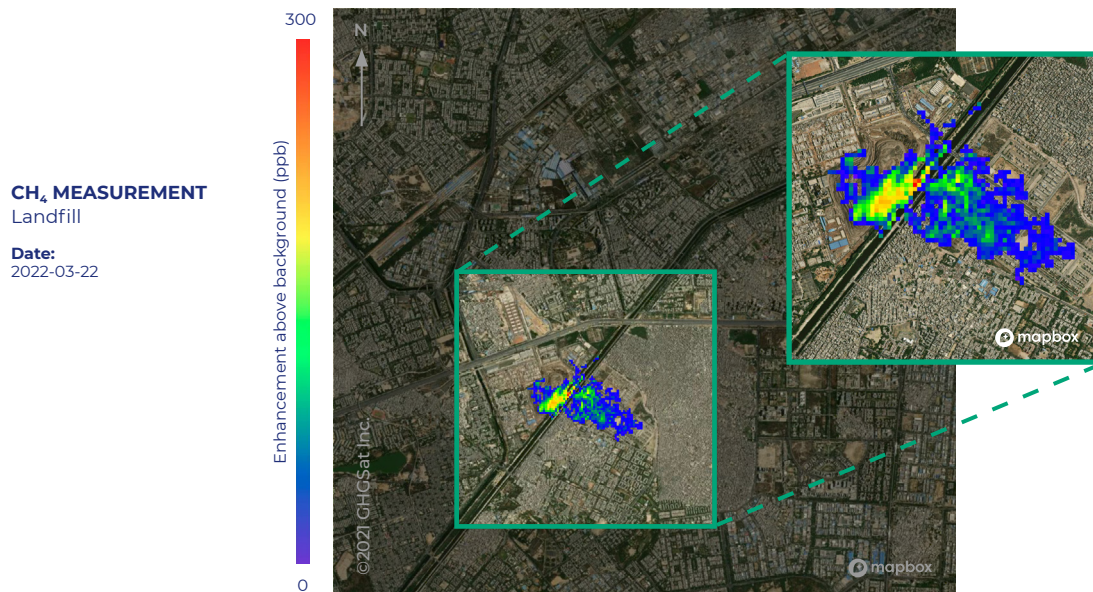
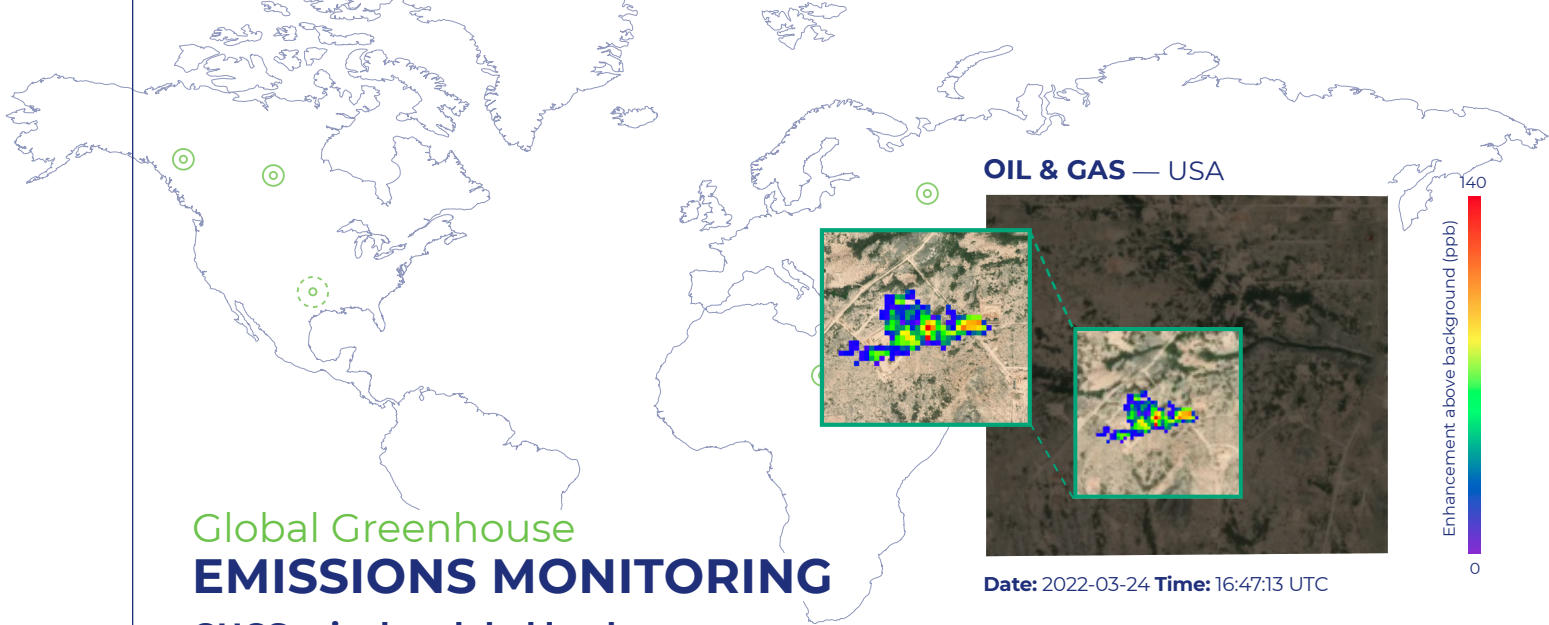




GHGSAT AT A GLANCE

Founded	2011
Founder & CEO	Stephane Germain
Team	100+ employees
Status	Private
Investment	US \$85M in raised capital to date
Headquarters	Montreal, Canada
Global Locations	Ottawa, Calgary, Houston and London
Website	ghgsat.com
Satellites	GHGSat-D Claire: Launch 2016 GHGSat-C1 Iris: Launch 2020 GHGSat-C2 Hugo: Launch 2021 GHGSat-C3 Luca: Launch 2022 GHGSat-C4 Penny: Launch 2022 GHGSat-C5 Diako: Launch 2022 Next: 5 more methane monitoring satellites by end of 2023.
Aircraft	2 AV sensors in operation
Sectors	+ Oil & Gas + Mining + Waste Management + Agriculture + Power Generation + Governments + ESG for Financial Markets



Global Greenhouse EMISSIONS MONITORING

**GHGSat is the global leader
in high-resolution greenhouse
gas monitoring from space.**

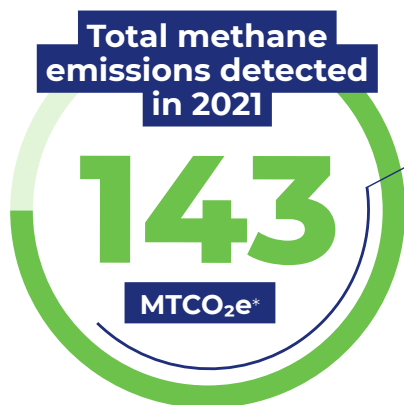
A Canadian company, GHGSat believes space provides the ideal vantage point to examine the impact of human activity on our planet and collect unique data to drive action today.

The company's tiered system-of-systems, combines proprietary satellite and aircraft data with world-class analytics to provide the best coverage of methane emissions, helping operators and governments take effective measures to reduce emissions.

YEARS AHEAD

GHGSat is **the only organisation that operates a constellation of high-resolution satellites** capable of pinpointing industrial sources of methane emissions.

CHANGING THE WAY we see greenhouse gas emissions



31.2 M



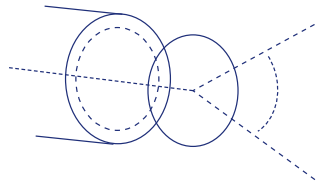
Emissions measured equate to 31.2 million cars driving on the road for a year.

76%

At least three quarters of emissions were undetectable by public satellites.

With proven and trusted technology,
GHGSat makes a difference today for **a better future.**

PATENTED SENSOR TECHNOLOGY: How it works



GHGSat developed its unique [patented sensor technology](#) based on a Wide-Angle Fabry Perot (WAF-P) interferometer, originally invented in 1899. When light passes through the atmosphere, some of it gets absorbed at particular wavelengths by gases.

Every gas has its own wavelength or signature. GHGSat's interferometer measures the absorption at frequencies unique to methane in high resolution from space and translates it to a concentration.

Detecting **emissions sources 100 x smaller** than some satellites.

Attributing emissions sources with **100 x higher precision** than other satellites.

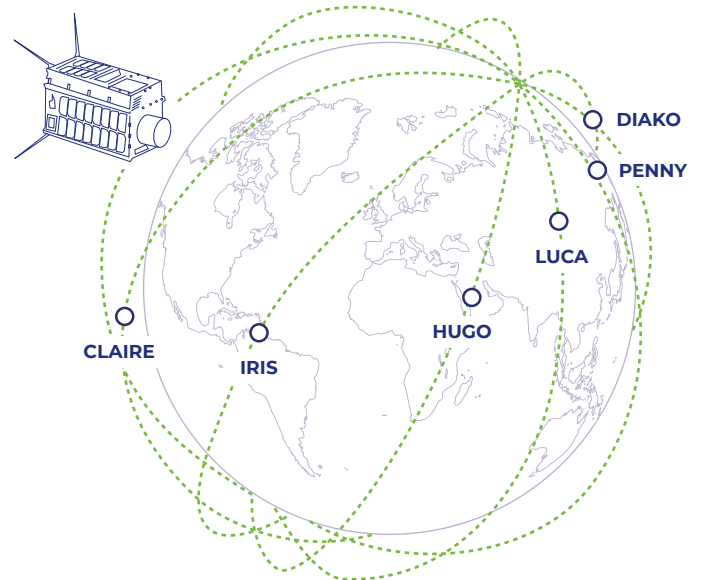
Combining both in **satellites 100 x smaller** than those in orbit.

By detecting and identifying sources of emissions, GHGSat provides the data and intelligence that companies need to take action for a cleaner planet.

A SATELLITE CONSTELLATION 6 in orbit. 5 more in 2023.

GHGSat has the only high-resolution greenhouse gas monitoring satellite [constellation](#) operational today. This system is the only one able to detect and measure methane emissions at the facility level.

- **Spatial resolution:** ~25 m class (~82ft)
- **Field of View:** 12km x 12km (7.5 miles x 7.5 miles)
- **Size:** Comparable to a microwave oven
- **Weight:** 15kg (33lbs)
- **Orbit:** Sun-Synchronous Polar
- **Altitude:** ~500 km (~310 mi)



CLAIRE

Technology demonstrator satellite, Claire, proved that greenhouse gas can be detected and measured accurately from space.

2016

IRIS

GHGSat's first commercial satellite, Iris delivers 10 x better performance than Claire and is the technology blueprint for the fleet.

2020

HUGO

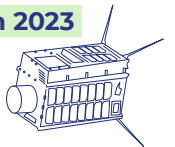
Hugo marks the ramp-up of capacity to measure more sites, more frequently across the globe.

2021

LUCA PENNNY DIAKO

2022

+5
satellites
in 2023



2023

IN
2021

100,000+ sites

Our constellation of high-resolution satellites observed over 100k industrial sites worldwide.

1,000,000 km

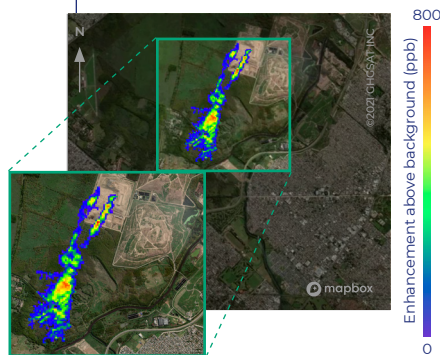
Over 1 million km² surveyed in the course of customer campaigns.

47 countries

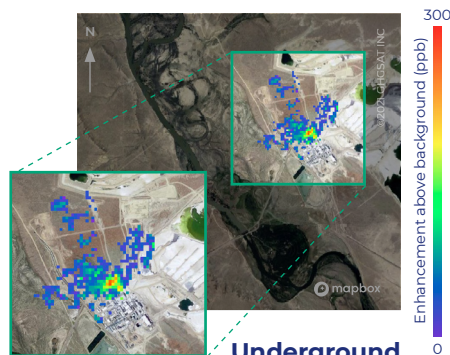
GHGSat satellites measured emissions in 5 continents.

HIGH-RESOLUTION EMISSION DATA

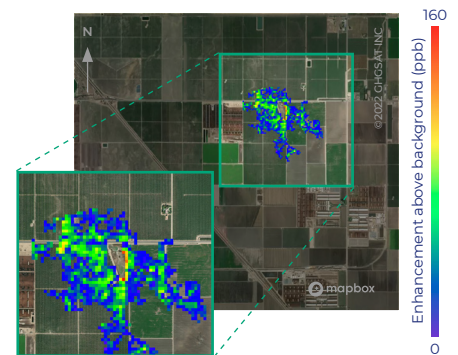
GHGSat's growing constellation delivers accurate, frequent and reliable data and year-round greenhouse gas emissions intelligence to customers worldwide.



Landfill
Argentina
Date: 2021-05-18
Time: 13:57:03 UTC



Underground
Trona Mine
USA
Date: 2021-06-13
Time: 18:11:16 UTC



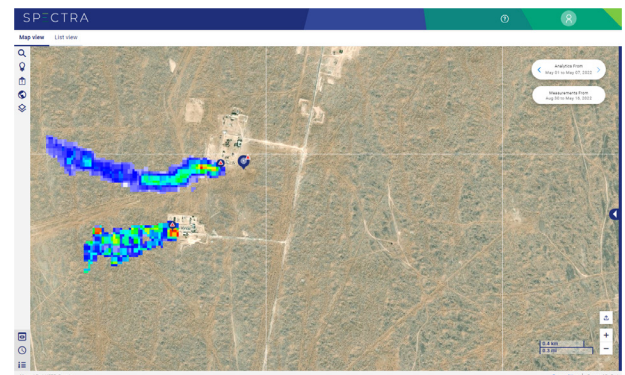
Agriculture
USA
Date: 2022-03-02
Time: 17:44:38 UTC

SPECTRA

GHGSAT

Data visualization is essential to assess and deploy the right resources to address emission reduction and prevention operations.

SPECTRA, GHGSat customer emissions portal, combines high-resolution satellite data with third party datasets to support action and impact.

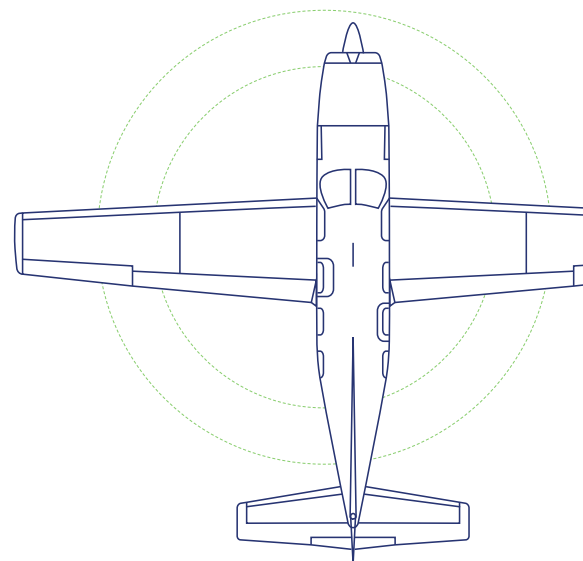


AERIAL EMISSIONS MONITORING

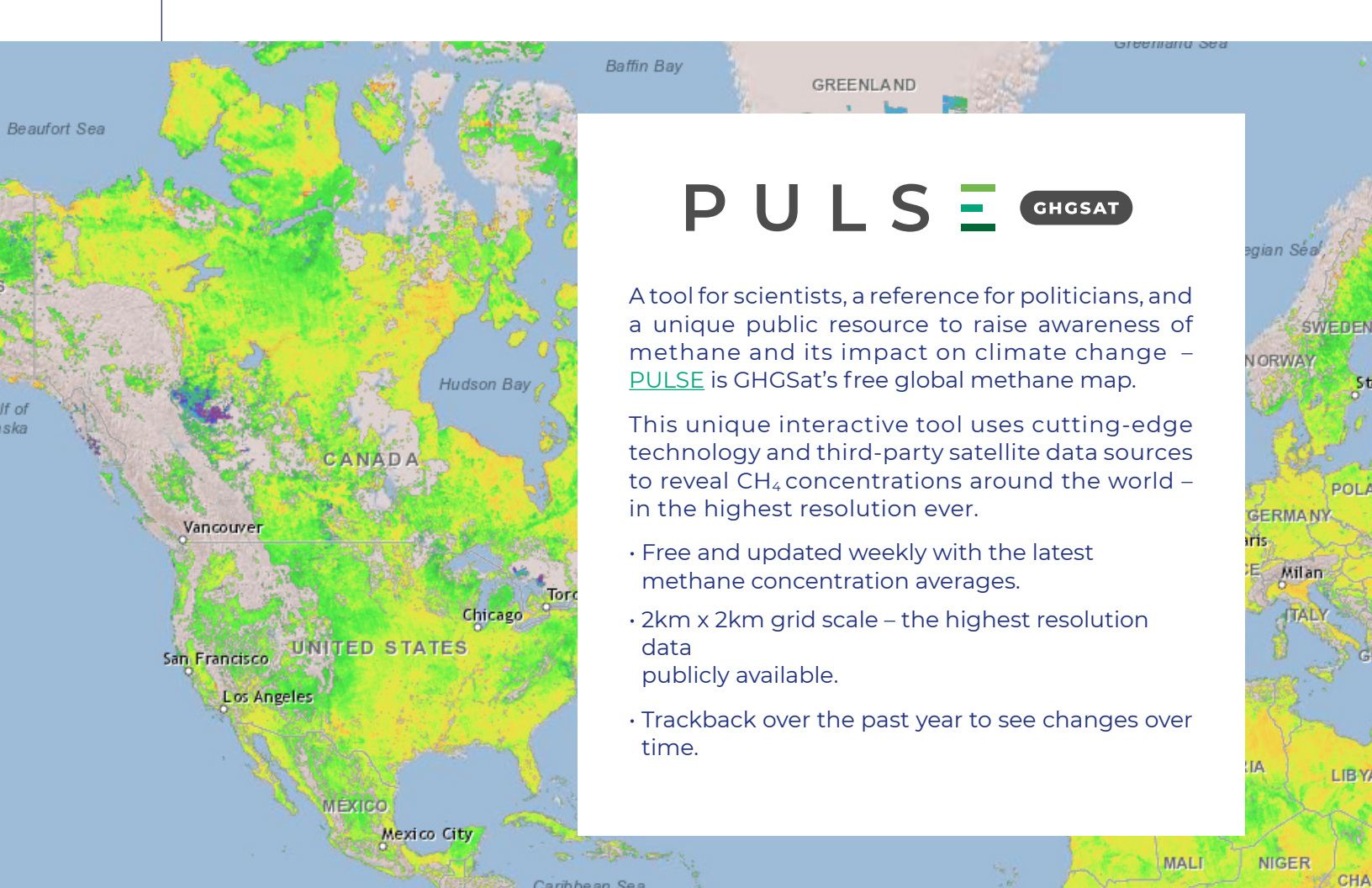
GHGSat's world-leading emission detection satellite technology adapted for aircraft accurately detects and measures methane emissions to individual sources with a minimum threshold of 10kg/hr.

GHGSat is the only emissions monitoring firm to deploy airborne instruments, with matching satellite sensors in orbit, working together in a tiered system.

Aerial data and orbital data provide comprehensive coverage of emissions for industrial operators.



Two airborne instruments are currently in operations and have done surveys in major shale plays in North America. Monitoring campaigns are scheduled in Europe and Australia in 2022.



PULSE GHGSAT

A tool for scientists, a reference for politicians, and a unique public resource to raise awareness of methane and its impact on climate change – [PULSE](#) is GHGSat's free global methane map.

This unique interactive tool uses cutting-edge technology and third-party satellite data sources to reveal CH₄ concentrations around the world – in the highest resolution ever.

- Free and updated weekly with the latest methane concentration averages.
- 2km x 2km grid scale – the highest resolution data publicly available.
- Trackback over the past year to see changes over time.

FUNDING

To date, GHGSat has raised in capital over

US \$85M

Investors include Investissement Quebec, SDTC, the Oil and Gas Climate Initiative, Schlumberger, Business Development Bank Canada, Space Angels, and Sustainable Development Technology Canada.

SCIENTIFIC COLLABORATION

GHGSat works with the scientific community to advance the technology and analytics applications of satellite-based emissions monitoring, validating sensor capabilities and datasets. The company is committed to sharing 5% of its satellite data with the global scientific community for research projects.

[Learn more](#)

AWARDS



Fast Company Most Innovative Companies 2022

GHGSat [press release](#)

[Fast Company](#)



Fast Company Most Innovative Companies 2021

GHGSat [press release](#)

[Fast Company](#)



EARSC

[Product of the Year 2021](#)



Les Mercuriades Award 2021

GHGSat [press release](#)

[Les Mercuriades](#)



Fast Company World Changing Ideas Awards 2021

GHGSat [press release](#)

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BloombergNEF Pioneer 2020

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World Economic Forum Technology Pioneer 2019

[World Economic Forum](#)

PRESS RELEASES

Visit [GHGSat Newsroom](#)

IMAGE LIBRARY

Download concentration maps and images of our satellites [here](#)

VIDEO LIBRARY

Find out more about our [constellation](#), our technology, and our methane detection capabilities.



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