GHGSAT – ENERGY COMMUNITY

June 2022



WHY METHANE? "Quick Win" for Climate + Energy Security

84-87X



210 BCM

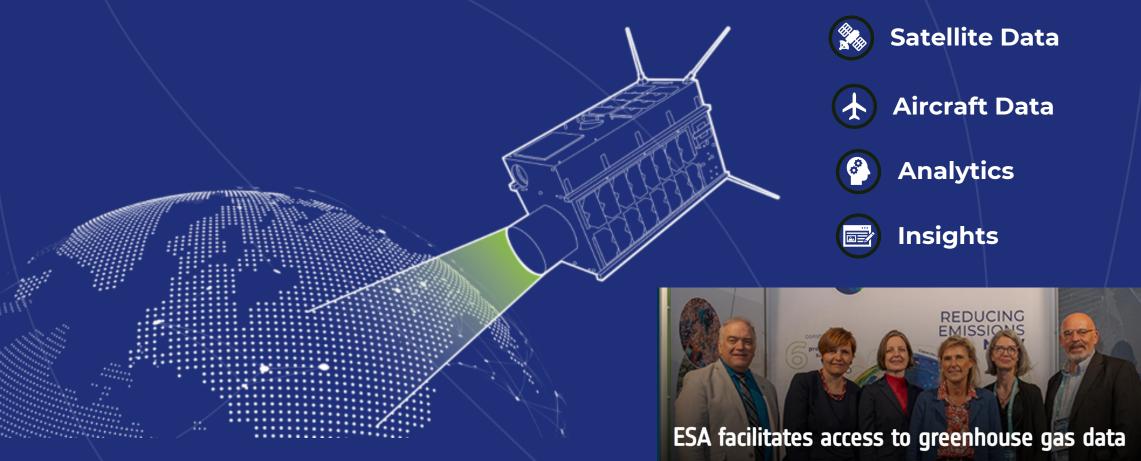


A Ukrainian thermal power plant destroyed by shelling in the town of Okhtyrka. Image: Iryna Rybakova/Press service of the Ukrainian Ground Forces/Handout via REUTERS



GHGSAT MONITORS GHG EMISSIONS

Multiple sensors & analytics used to monitor facility-level emissions worldwide



Canadian company GHGSat Inc., which offers high-resolution remote sensing of greenhouse gas emissions, air quality gas, and other trace gas emissions from any point sources in the world—is now an ESA Third Party Mission.



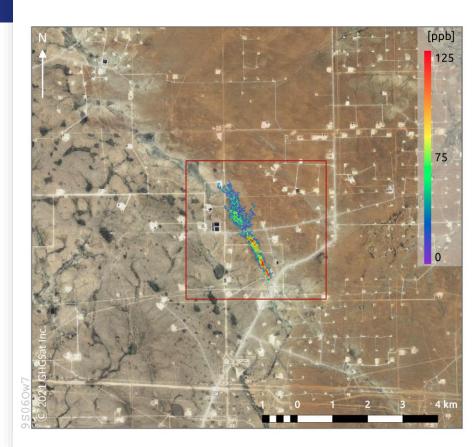
GHGSAT SATELLITES

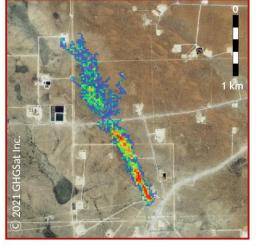
GHGSat pioneered satellite monitoring of facility-level emissions, starting in 2016



Oil & Gas Facilities, Permian Basin - USA GHGSat-C2 - CH₄ Measurement

- Facility-level measurements
 attributable
- Low detection threshold
 actionable
- Satellites= global
- Nanosatellites
 = affordable service





Product: CH₄ column-averaged concentration in excess of local background level

Timestamp: 2021-02-01 16:49:58 UTC

Background: © 2021 Google Map Data

6 SATELLITES IN ORBIT NOW

NEXT LAUNCHES IN Q1 & Q4 2023



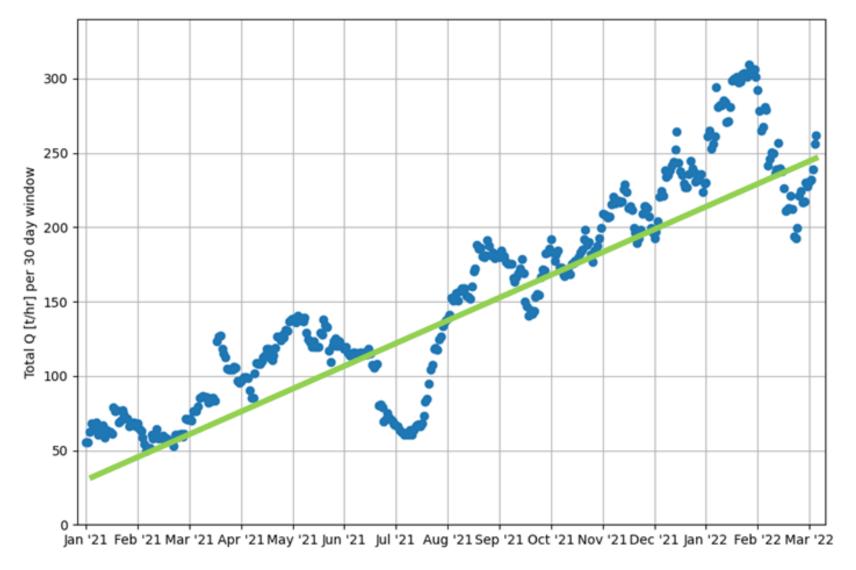
Map of methane emissions detected by GHGSat satellites in 2021. Size of circles is proportional to volume emitted.

SATELLITE MONITORING OF METHANE

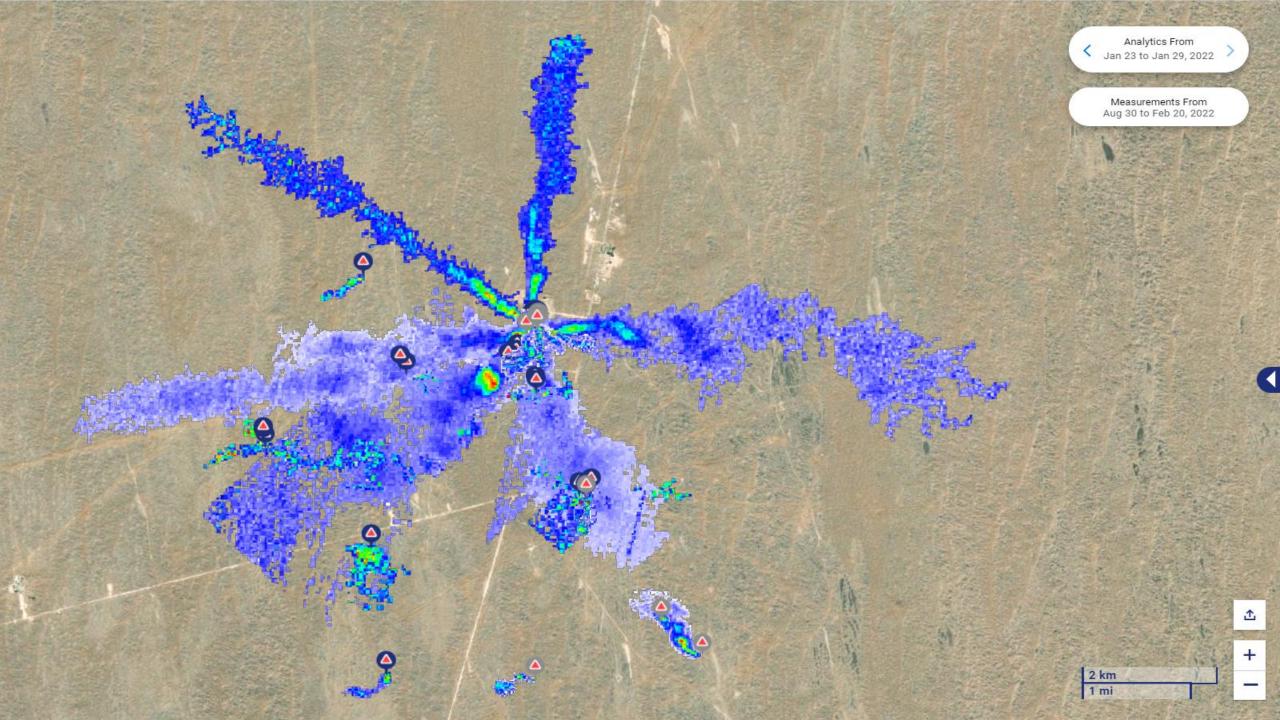
GHGSat detected > 140 MtCO2e from thousands of methane sources worldwide in 2021

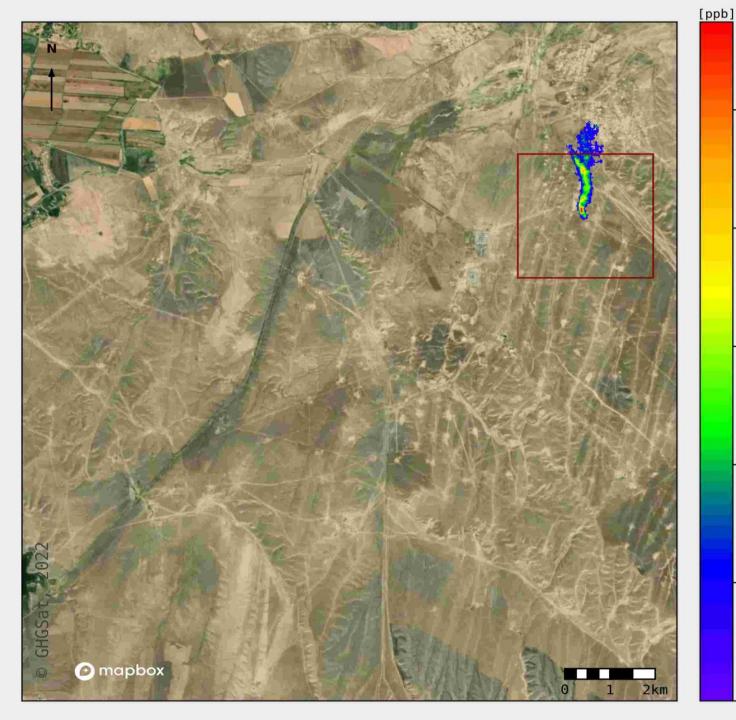
GLOBAL TRENDS

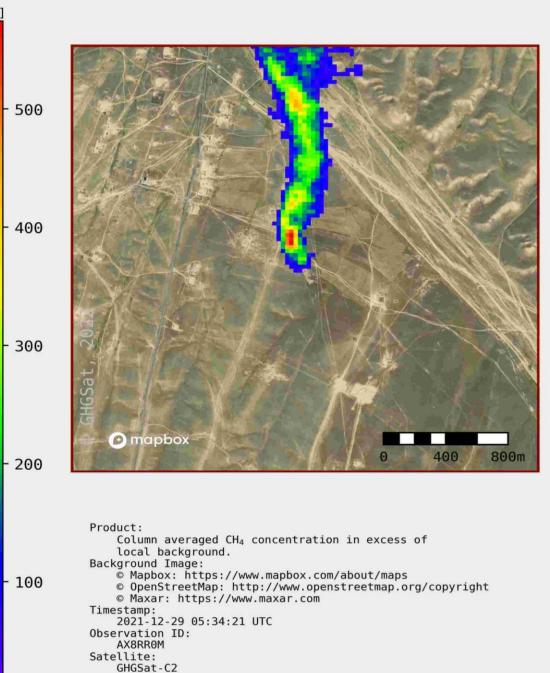
Detected methane emissions are clearly growing

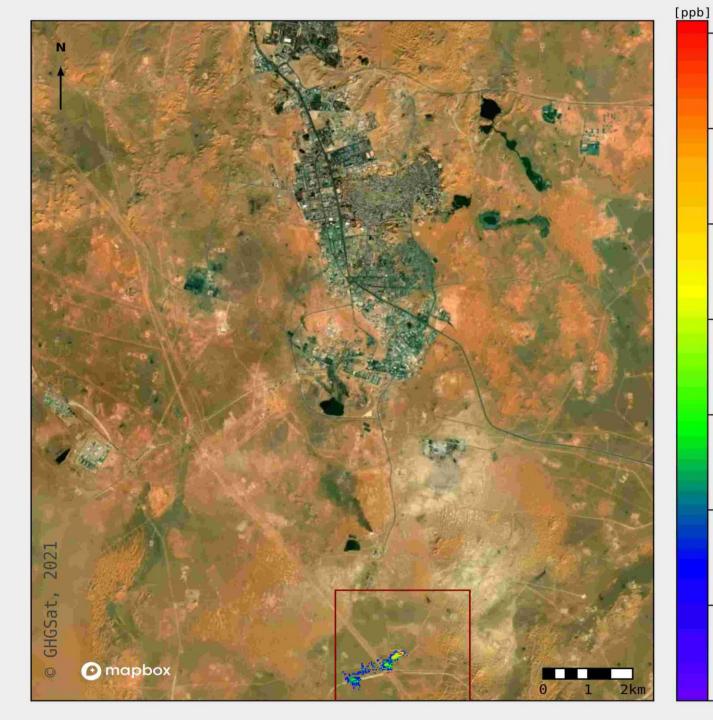


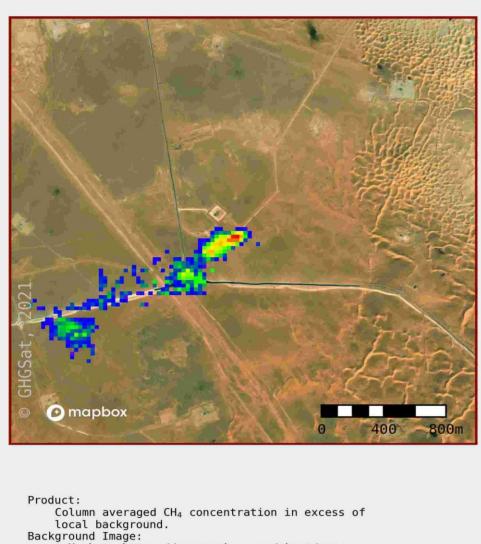








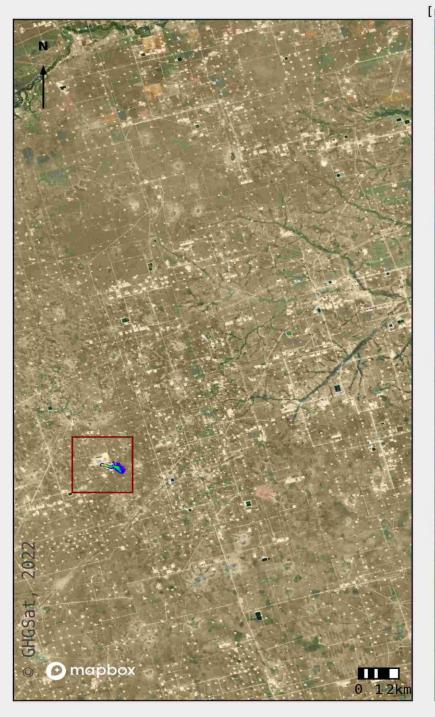


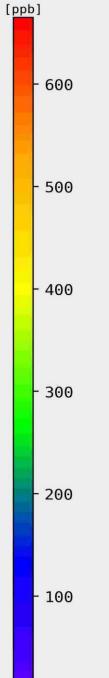


- 100

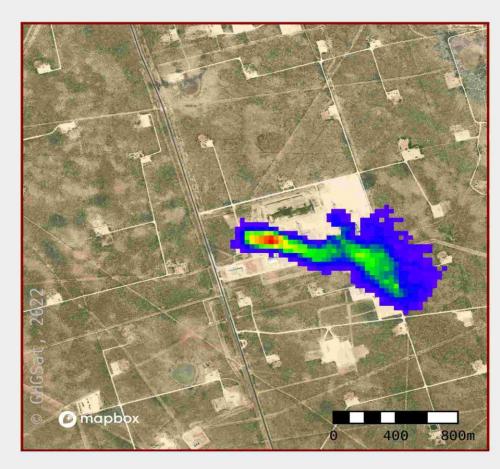
- 50

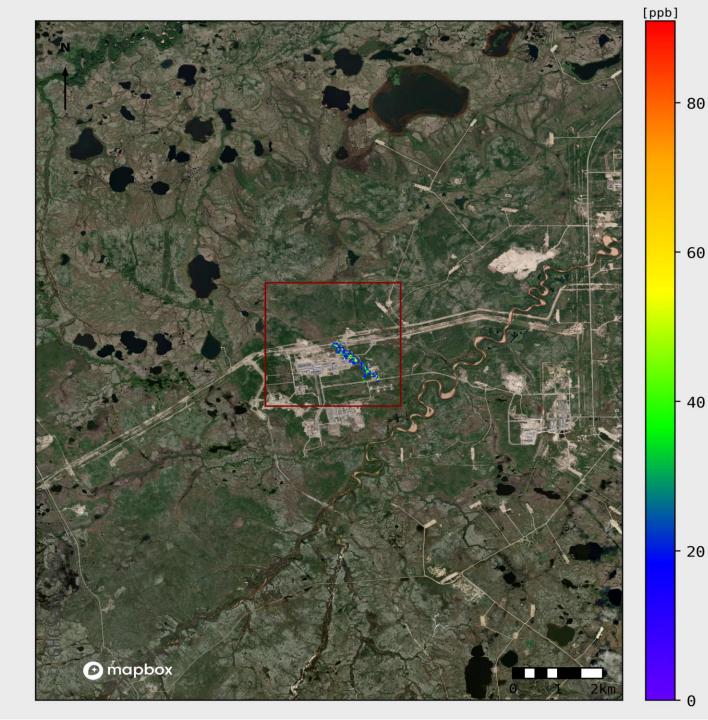
- 150





- 0







Product:

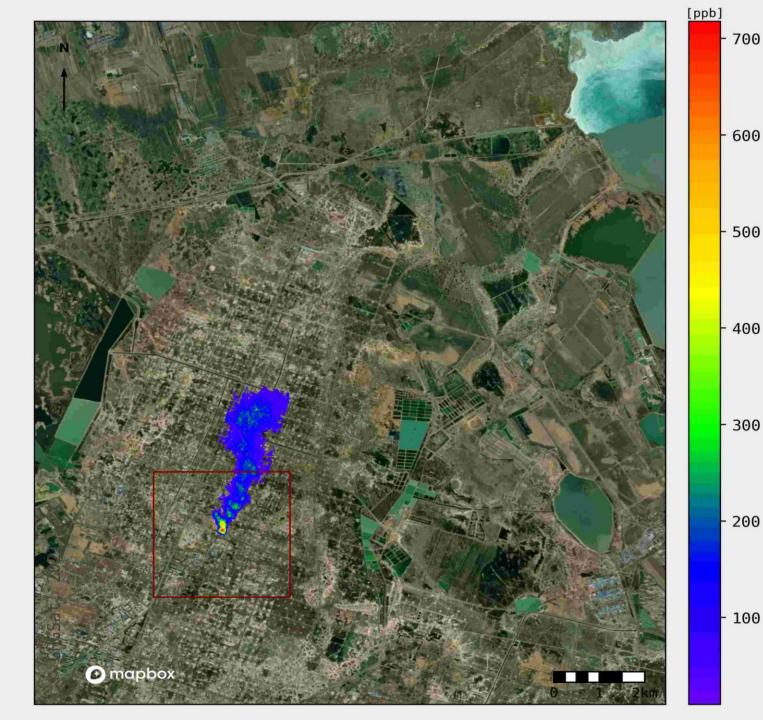
80

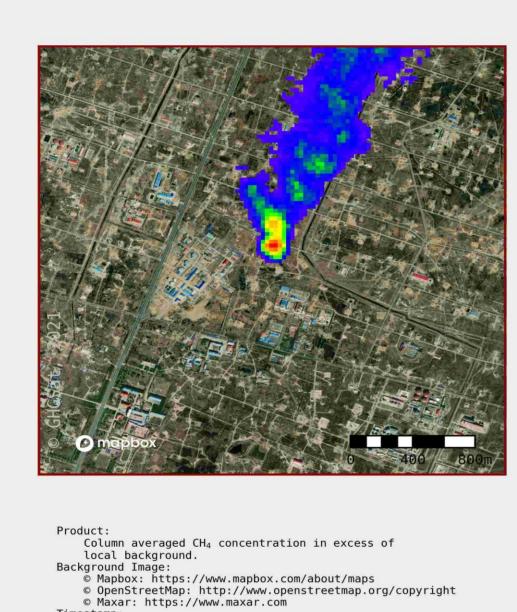
60

40

0

Product: Column averaged CH₄ concentration in excess of local background. Background Image: © Mapbox: https://www.mapbox.com/about/maps © OpenStreetMap: http://www.openstreetmap.org/copyright © Maxar: https://www.maxar.com Timestamp: 2021-04-14 05:41:01 UTC Observation ID: Observation ID: AT95C52 Satellite: GHGSat-C2





- 100

- 600

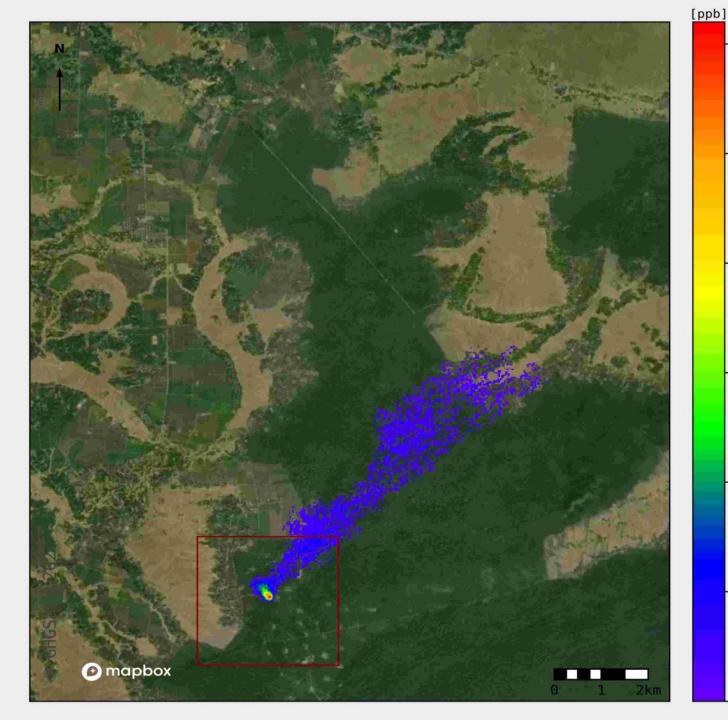
- 400

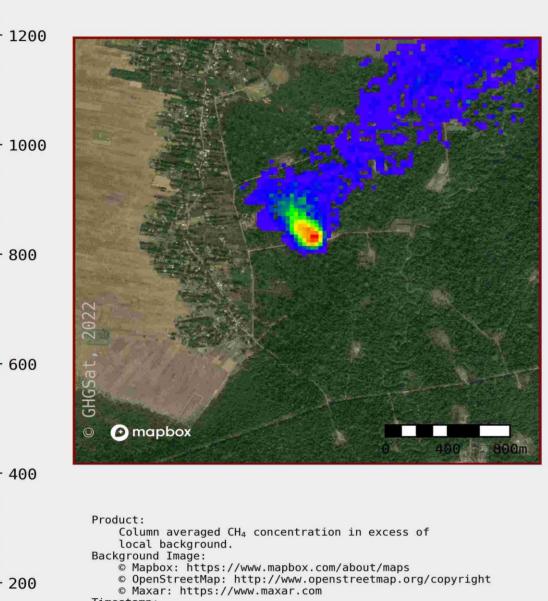
- 300

Timestamp: 2021-10-24 01:39:07 UTC Observation ID: AW-31de

Satellite:

GHGSat-C2





Timestamp: 2021-12-24 03:21:47 UTC Observation ID: AX6AXQb Satellite: GHGSat-C2

800

600

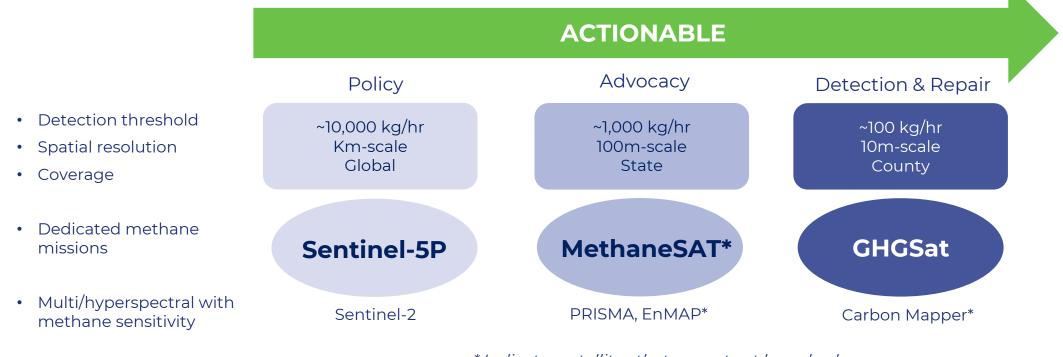
- 400

200

L 0

METHANE DATA FROM SATELLITES

Complementary capabilities; different objectives



* Indicates satellites that are not yet launched



COLLABORATION & VALIDATION

Market confusion is bad for everyone

SHARED PURPOSE IMEO SCIENCE-BASED

The Washington Post

IMPACT - NOW

Read about

GHGSat (click

on the logos):

The

Economist

The rocket science and AI are the easy part... motivating people to act is hard.



THE WALL STREET JOURNAL.

- GHGSat mitigated 2.3 MtCO2e in 2021 alone
- That's 0.5 million cars off the road for a year
- By 2023, GHGSat expects to mitigated > 50 MtCO2e per year

... and we're just getting started

The New York Times NEWS



GHGSat Inc.

© 2022

TOGETHER, WE WILL ACHIEVE THE EMISSION REDUCTIONS WE ALL SEEK.