



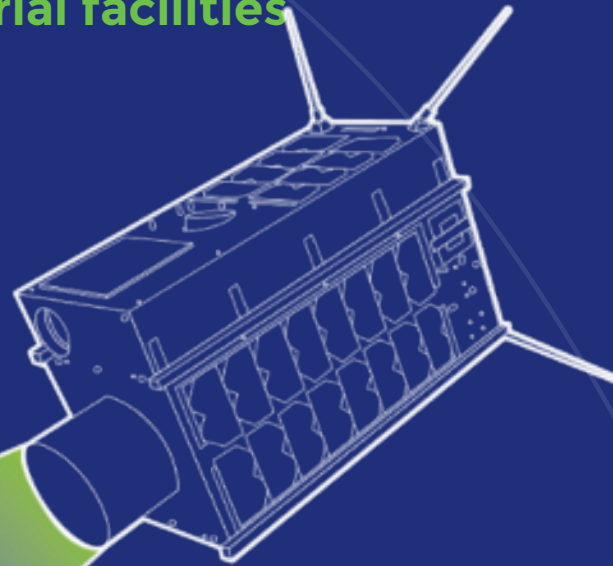
GLOBAL LEADERSHIP METHANE SATELLITE MONITORING

Oil and Gas Joint Technical Session: Overcoming
Challenges to Mobilize Action in the Oil and Gas Sector



ROUTINE MONITORING OF METHANE EMISSIONS AT INDUSTRIAL SITES - FROM SPACE

GHGSat is the only entity in the world (private or public) with satellites designed to monitor emissions from individual industrial facilities anywhere in the world.



25m
100 kg/hr



GHGSAT



Satellite Data



Aircraft Data



Analytics



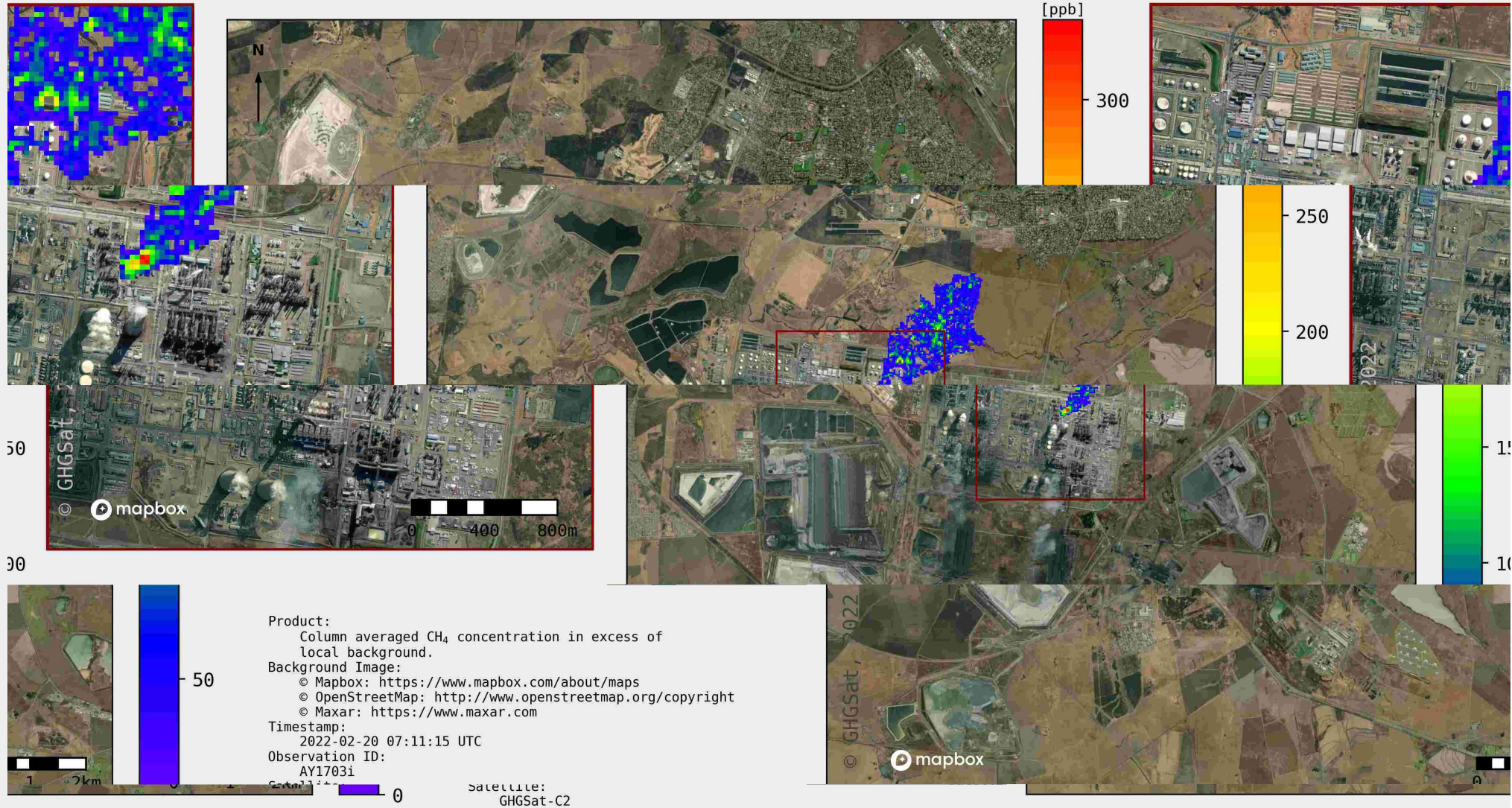
Data Repository



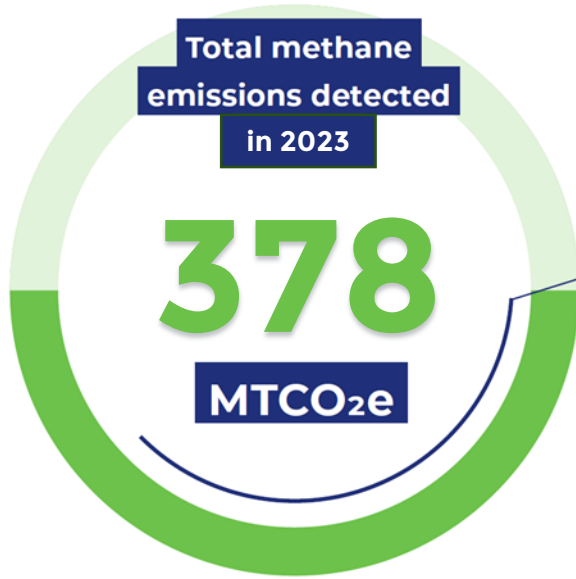
GHGSAT CONSTELLATION - CAPACITY

	<u>Now</u>	<u>Q4 2024</u>	<u>2027+</u>
Satellites in orbit	12	16	100
Facility Measurements per Year	3M+	4M+	20M+

Every industrial emitter in the world, measured daily, in near real-time



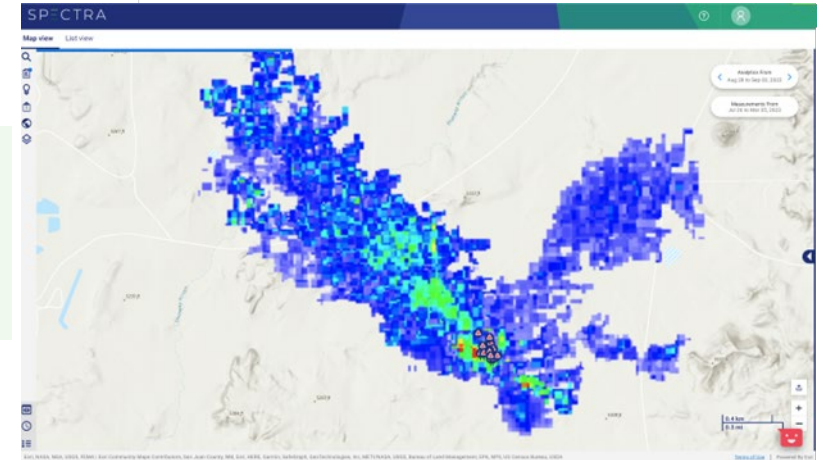
METHANE DETECTIONS FROM GHGSAT SATELLITES



2x

Increase on 2022

Where in the world would there be 17 detections from the same site in 6 months?



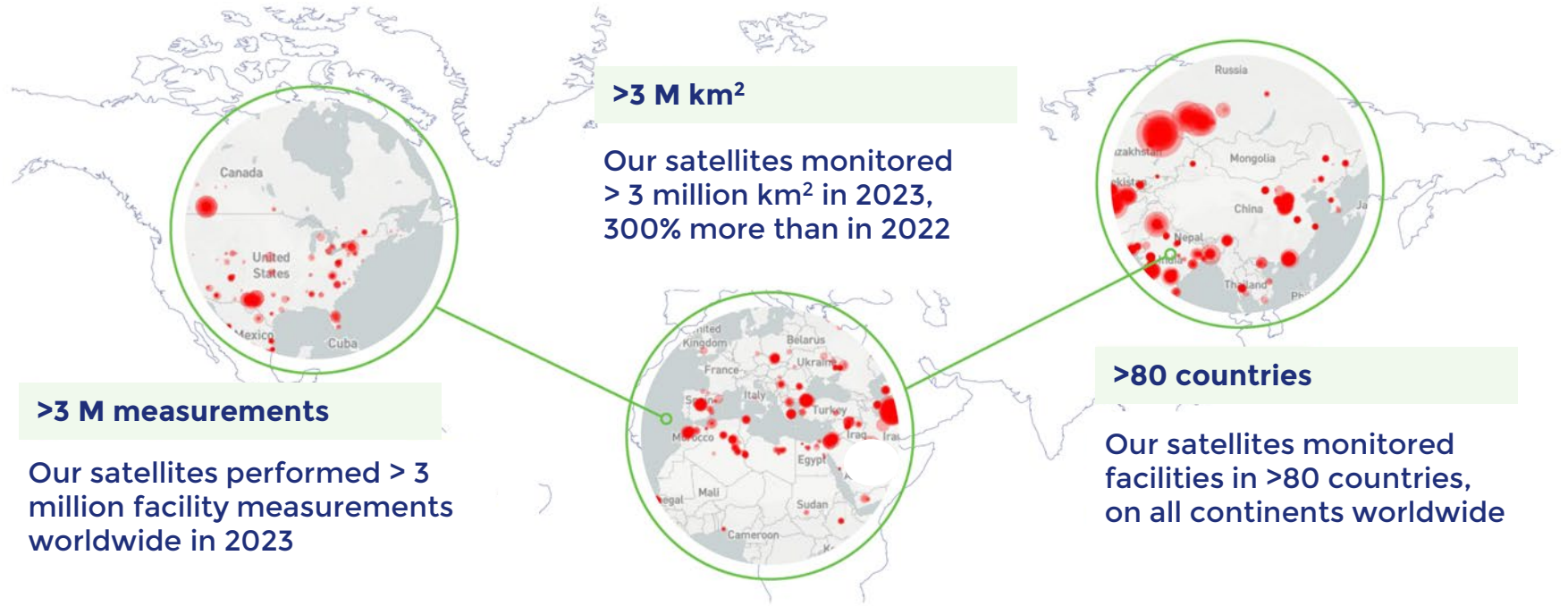
Oil & Gas — 48%

Coal — 22%

Landfill — 27%

Other — 3%

Proportion of 2023 emissions detected



METHANE DETECTIONS FROM O&G ACTIVITIES



> 183 MTCO₂e emissions

Detected from the O&G industry in 2023:



> 40 million cars on the road for 1 full year

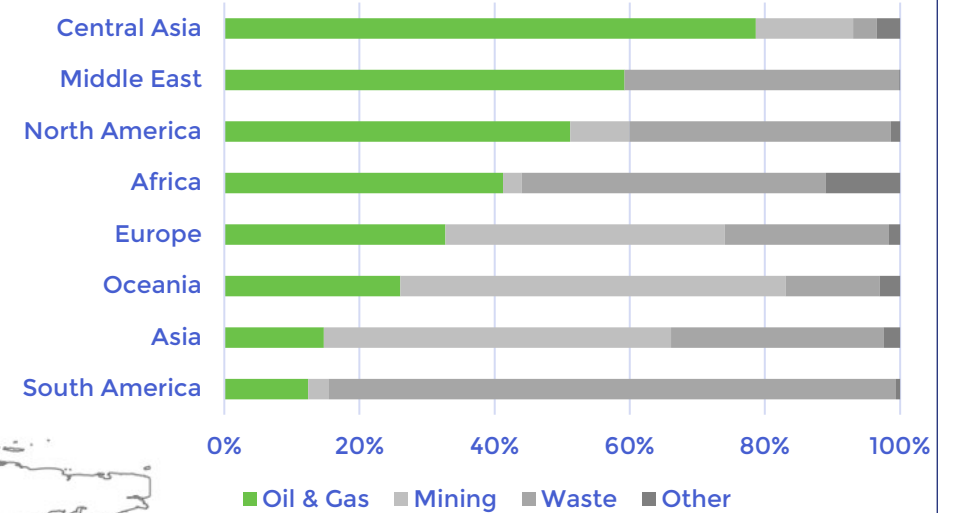
2.3x

Increase in O&G detections on 2022 level

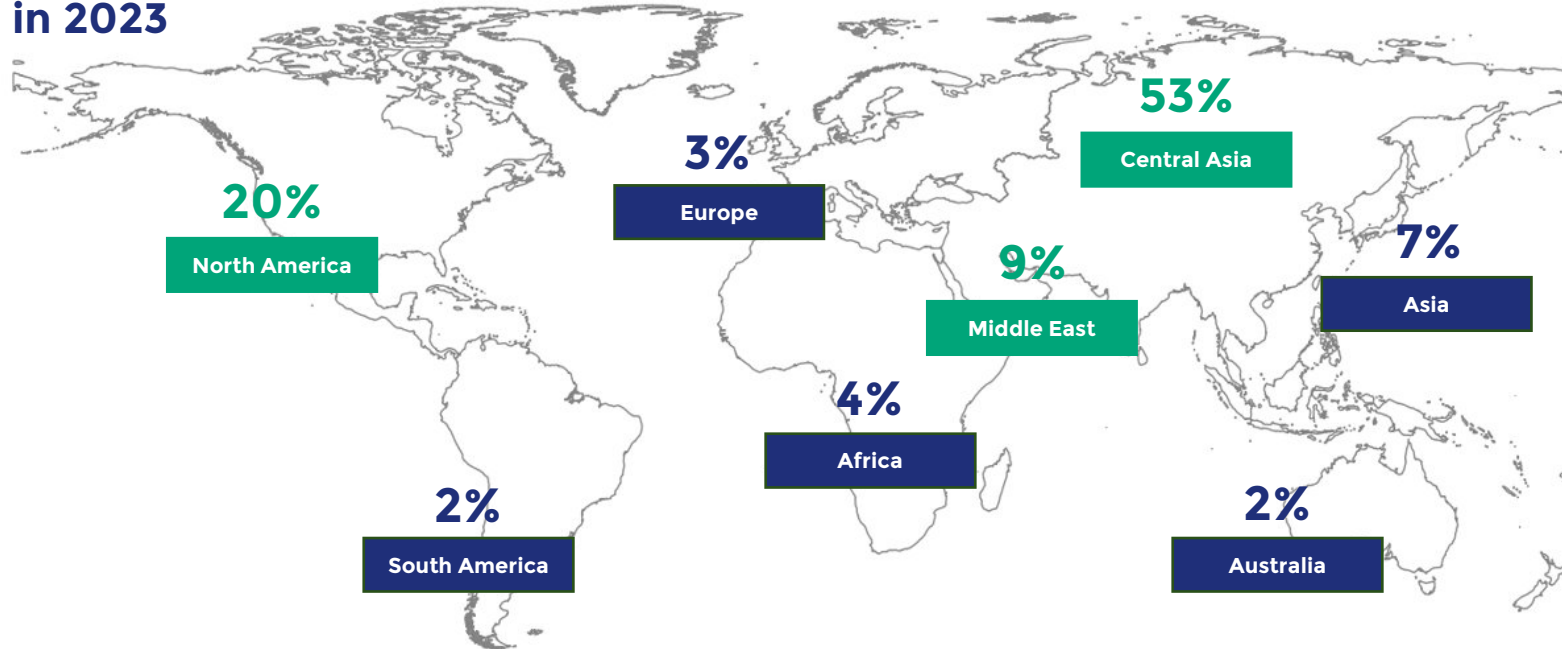
245 kg/hr

Average site emission rate for O&G (global average) in 2023

Regional Profiles of Detected Emissions - 2023



Distribution of Detected O&G Emissions in 2023



>14,000

GHGSat satellites detected over 14,000 methane emissions worldwide in 2023



OIL AND GAS CLIMATE INITIATIVE

SATELLITE METHANE MONITORING CAMPAIGN IN IRAQ

175

GHGSat conducted over 175 high-resolution satellite observations over six large oilfields in Iraq.

The most common methane emissions sources observed were **gas flaring, direct venting and maintenance events.**

80%



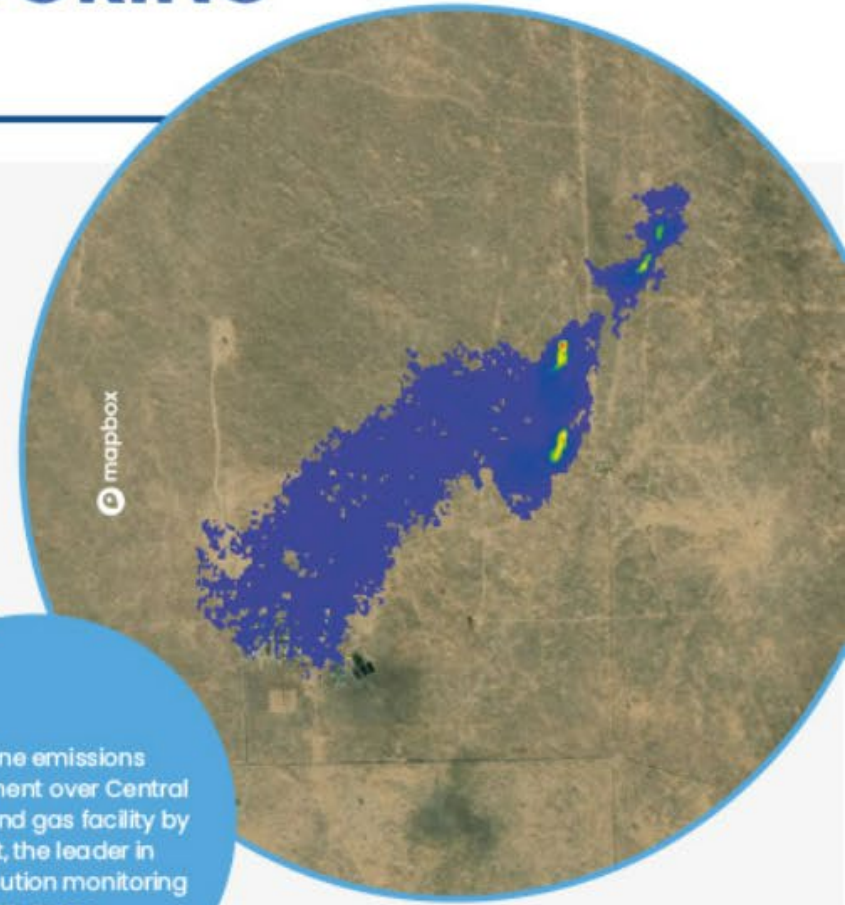
Over 80% of satellite observations were able to identify and quantify emission rates.

1.5



tonnes of methane per hour.

Average methane emissions rate measured is equivalent to the hourly energy use of 43,000 US homes.



mapbox

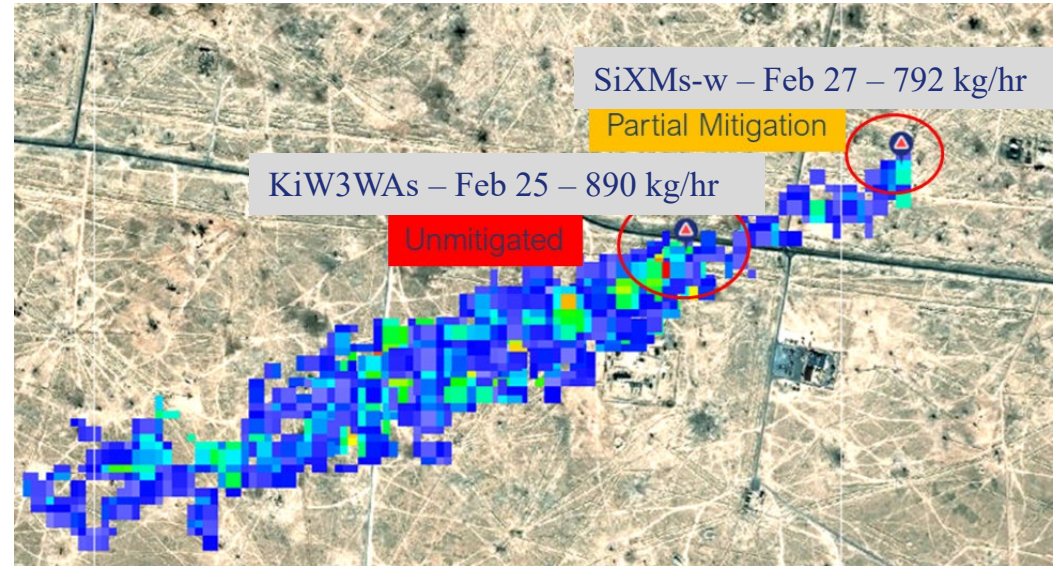
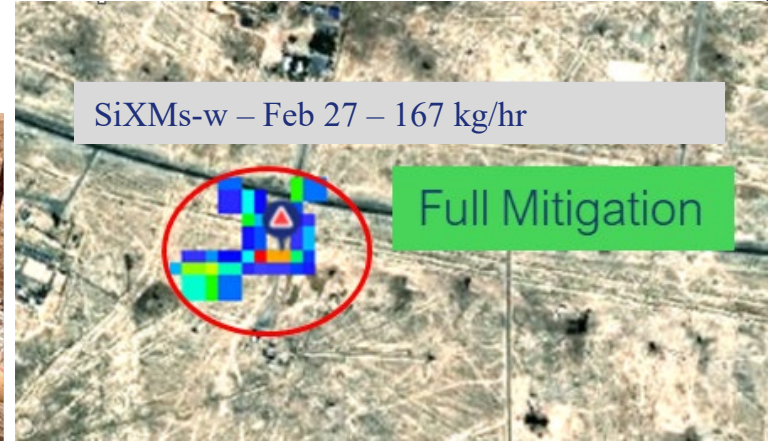
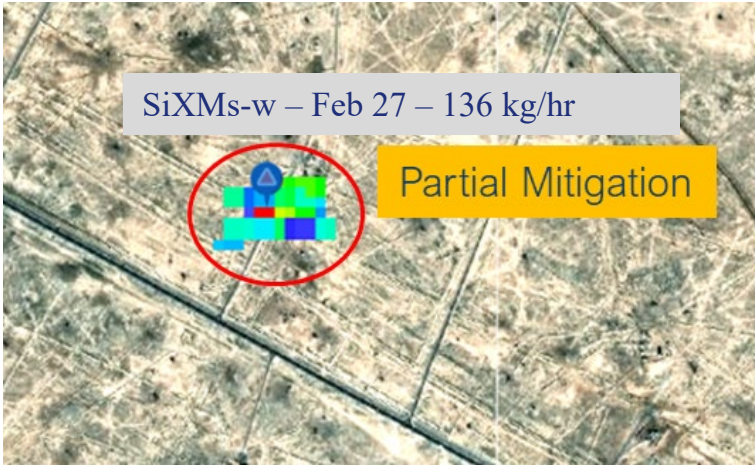
Methane emissions measurement over Central Asian oil and gas facility by GHGSat, the leader in high-resolution monitoring from space.



CARBON LIMITS

CENTRAL ASIA MITIGATION

From Satellite Measurements to Mitigation in HOURS



Company Confidential

SO WHAT? **IMPACT**

GHGSat works with its customers to understand, control and reduce emissions



- GHGSat's customers mitigated over **6 MtCO₂e** in 2023
- That's **~1.5 million cars** off the road for a year
- Our ambition is to mitigate up to **50 MtCO₂e** per year
 - For comparison, Apple's carbon footprint was 21 MtCO₂e in 2022; Exxon's was 110 MtCO₂e in 2022

Read about
GHGSat (click
on the logos):



THE WALL STREET JOURNAL.

The Washington Post

The New York Times



SATELLITE MONITORING IS READY NOW

Satellites are critical for a
coordinated effort to
fight climate change.

We're ready – now.

DEPLOYMENTS
BEGIN
SES-2
SECO-2

T+ 01:02:58

TRANSPORTER-7

