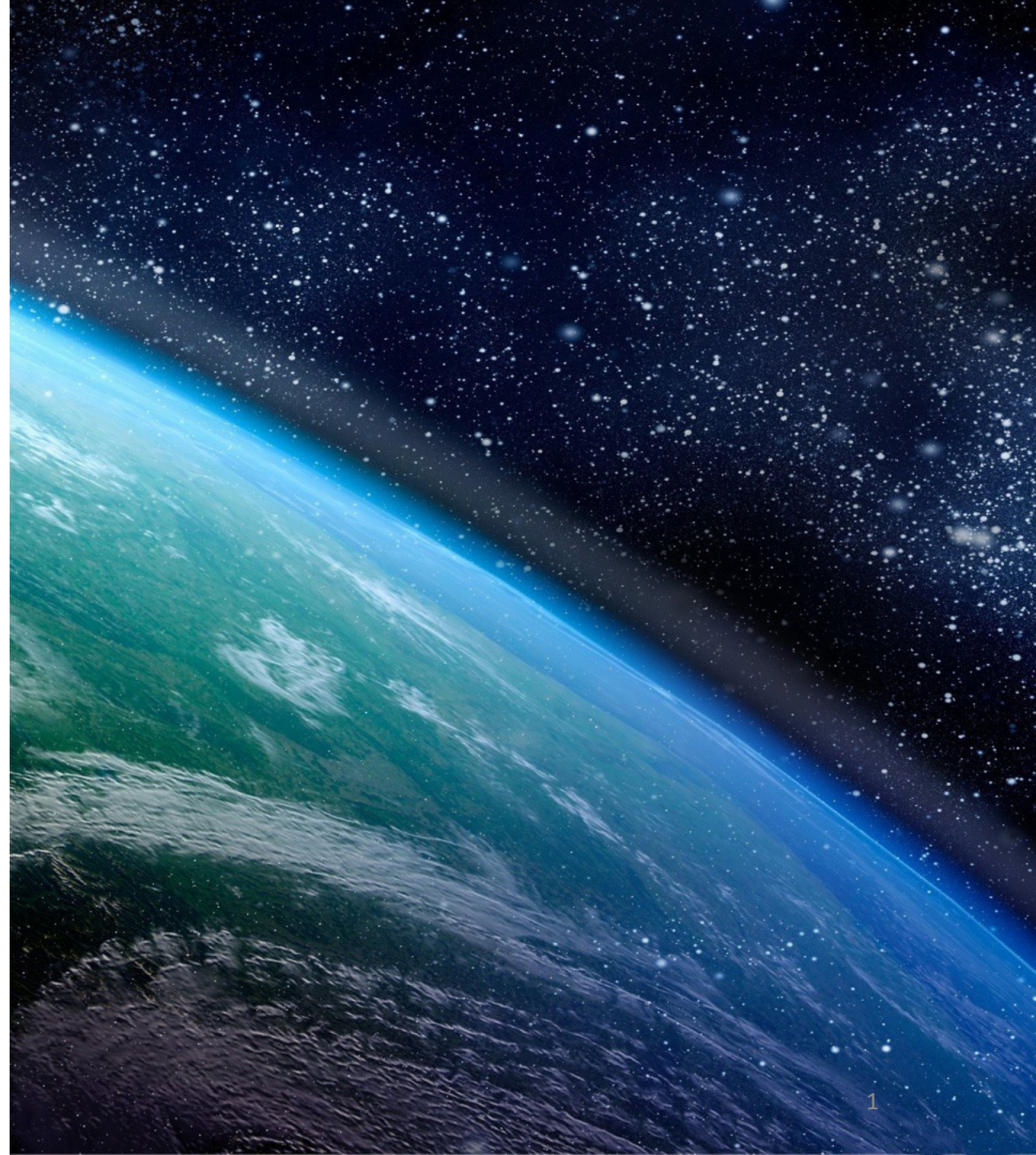




How Will Next Generation Technology Affect Climate Talks?

Mackenzie Huffman – Director of
Strategy and Partnerships



The Global “Methane Moment” is Now

Addressing methane has become top of mind for world leaders, businesses, nonprofits, and philanthropists.

- Over 150 countries signed on to the Global Methane Pledge (GMP) – to reduce global methane emissions 30% by 2030 from 2020 levels
- Philanthropy raised over \$325 million to support the Global Methane Pledge
- Countries are working to strengthen their existing regulations on oil and gas to target methane – including, the US, EU, Canada, and Colombia.

The image shows two overlapping web pages. The top page is a U.S. Department of State press release titled "Global Methane Pledge: From Moment to Momentum". It features a dark blue header with the U.S. Department of State logo and navigation links. The main content area is white with a dark blue sidebar on the left containing the title, "FACT SHEET", "OFFICE OF THE SPOKESPERSON", and the date "NOVEMBER 17, 2022". The bottom page is a UN Environment Programme news article titled "UN announces high-tech, satellite-based global methane detection system". It features a dark blue header with the UN Environment Programme logo and navigation links. The main content area is white with a dark blue sidebar on the left containing the title, "Unprecedented Moment for Security, Food Security", and a sub-headline "Achieving the Global Methane Pledge by 2030 from 2020 | 1.5°C temperature limit with health, and development goals". The background of the UN article features a satellite orbiting Earth.

U.S. DEPARTMENT of STATE

Home > Office of the Spokesperson > Press Releases > Global Methane Pledge: From Moment to Momentum

Global Methane Pledge: From Moment to Momentum

FACT SHEET

OFFICE OF THE SPOKESPERSON

NOVEMBER 17, 2022

UN environment programme

Who we are ▾ Where we work ▾ What we do ▾ Publications & Data

Home / News, Stories & Speeches / press release

11 NOV 2022 | PRESS RELEASE | CLIMATE ACTION

UN announces high-tech, satellite-based global methane detection system

Unprecedented Moment for Security, Food Security

Achieving the Global Methane Pledge by 2030 from 2020 | 1.5°C temperature limit with health, and development goals

Photo credit: David Andrade

Why Are Policymakers Focused on Methane?

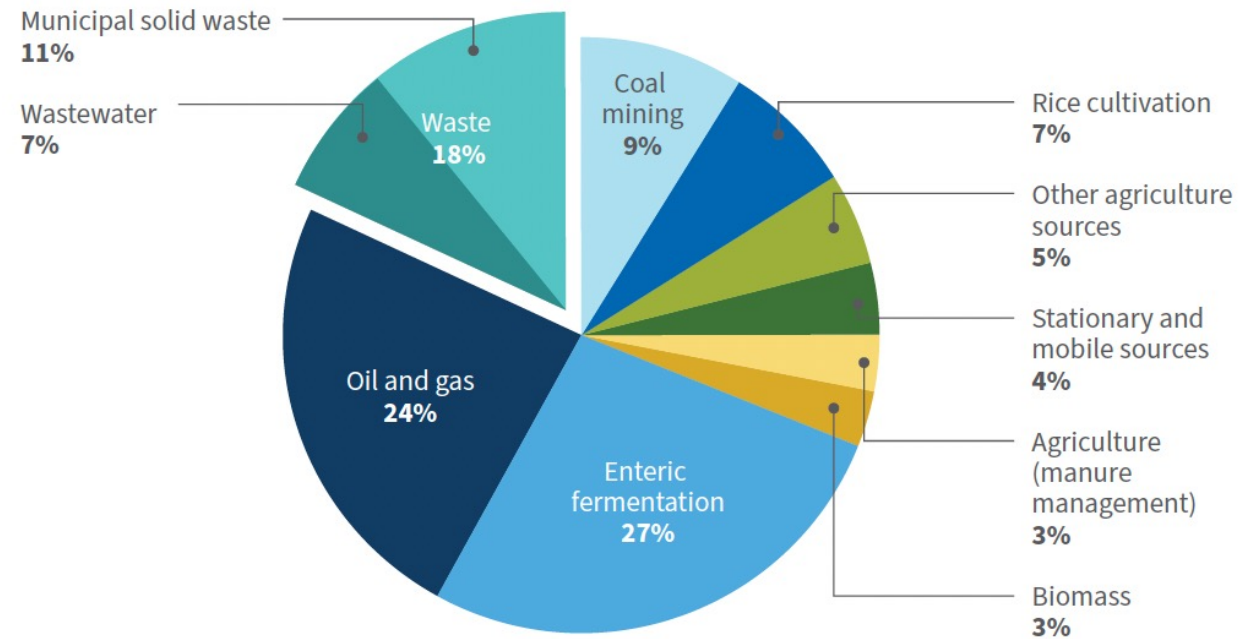
Tackling methane can **achieve immediate climate impacts** – methane is 86x worse than CO₂ over 20 years

- Addressing methane is the **fastest path to meeting 2030 reduction targets**

Methane comes from many sectors, **especially oil and gas, coal, agriculture and waste management**

High emissions methane sources can **contribute between 20-60% of regional methane emissions**

Focusing on methane can also **address environmental justice, air quality and health concerns**



Source: Global Methane Initiative, "Global Methane Emissions and Mitigation Opportunities," <https://www.globalmethane.org/documents/gmi-mitigation-factsheet.pdf>

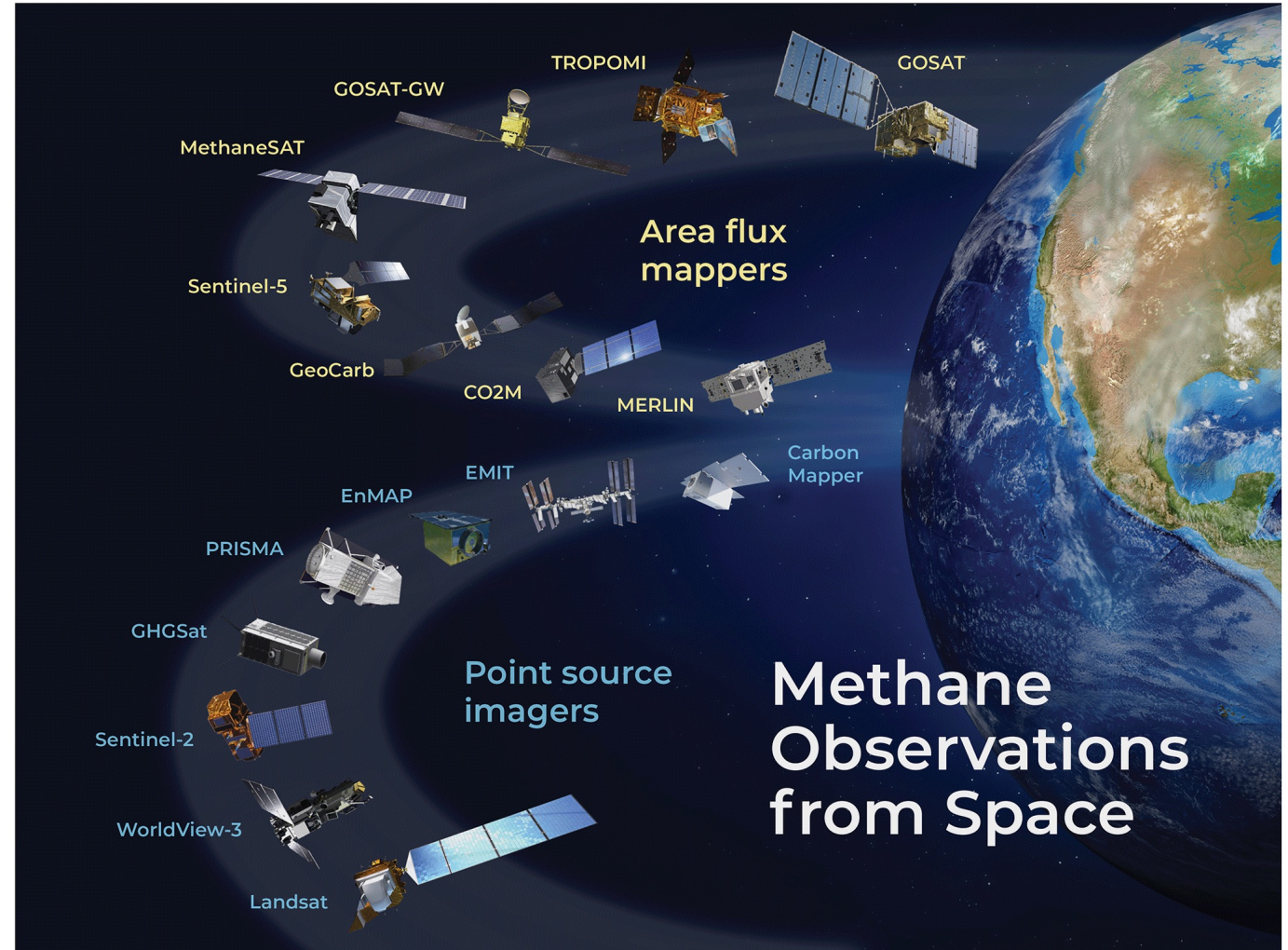


An emerging suite of advanced technologies are changing the landscape

Satellites are increasingly recognized as essential tools to drive reductions

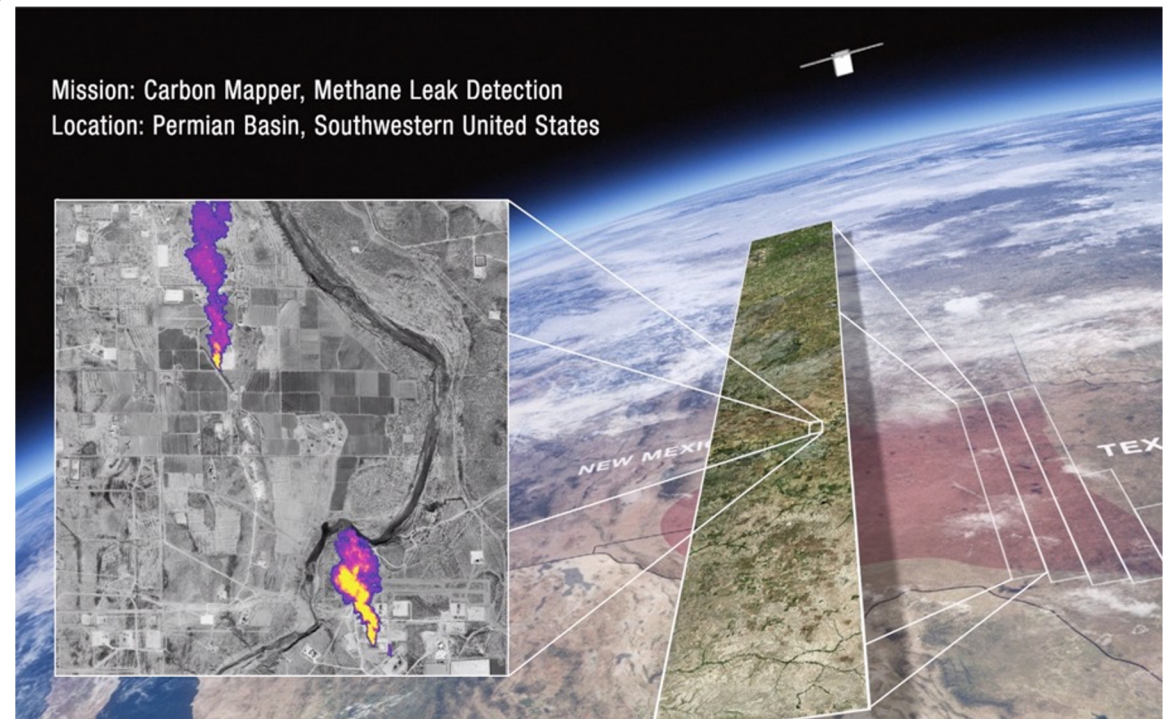
- UNEP International Methane Emission Observatory announced Methane Alert and Response Program
- US State Department and GMP partners announced Global Methane Pledge “Pathways”
- EPA Super-Emitter Response Program

An emerging ecosystem of technologies and actors are coming online to support aggregate accounting and inventory efforts as well as direct mitigation guidance



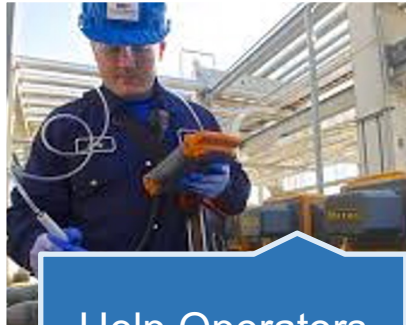
What is Carbon Mapper?

- Carbon Mapper the non-profit: public good mission to deliver actionable, localized CH₄ and CO₂ data
- Carbon Mapper leads a public-private partnership to build & use constellation
- Phase 1: Launch first 2 satellites targeting late 2023/early 2024
- Phase 2: Goal to expand full constellation with daily to bi-weekly monitoring
- Track 90% of high emitting CH₄ & CO₂ point sources globally
- All CH₄ & CO₂ data publicly available

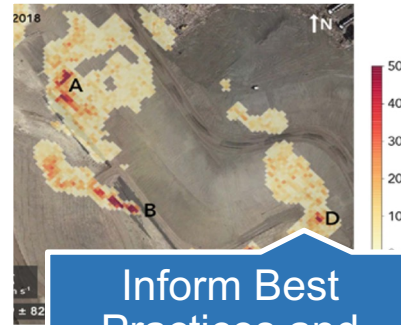


Making the Invisible Visible Drives Mitigation Action

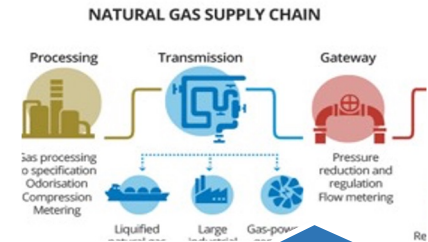
Accessible and actionable methane and CO₂ data can support various actions for emissions reduction



Help Operators Screen for Leaks



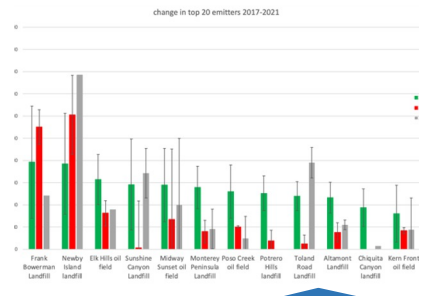
Inform Best Practices and Investment Priorities



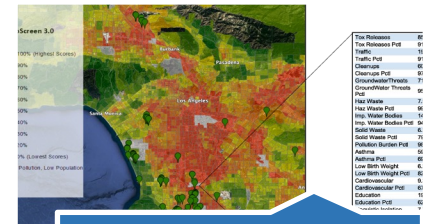
Differentiate Gas Supply Chains



Guide Policy



Inform Trends and Assess Progress



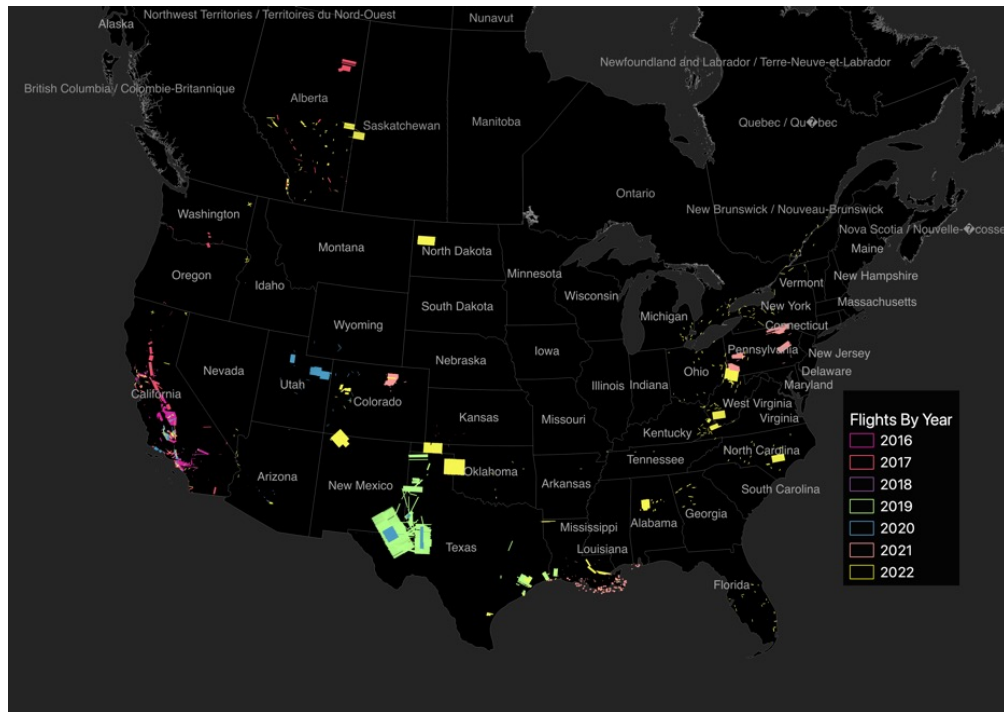
Support Community Health/Safety



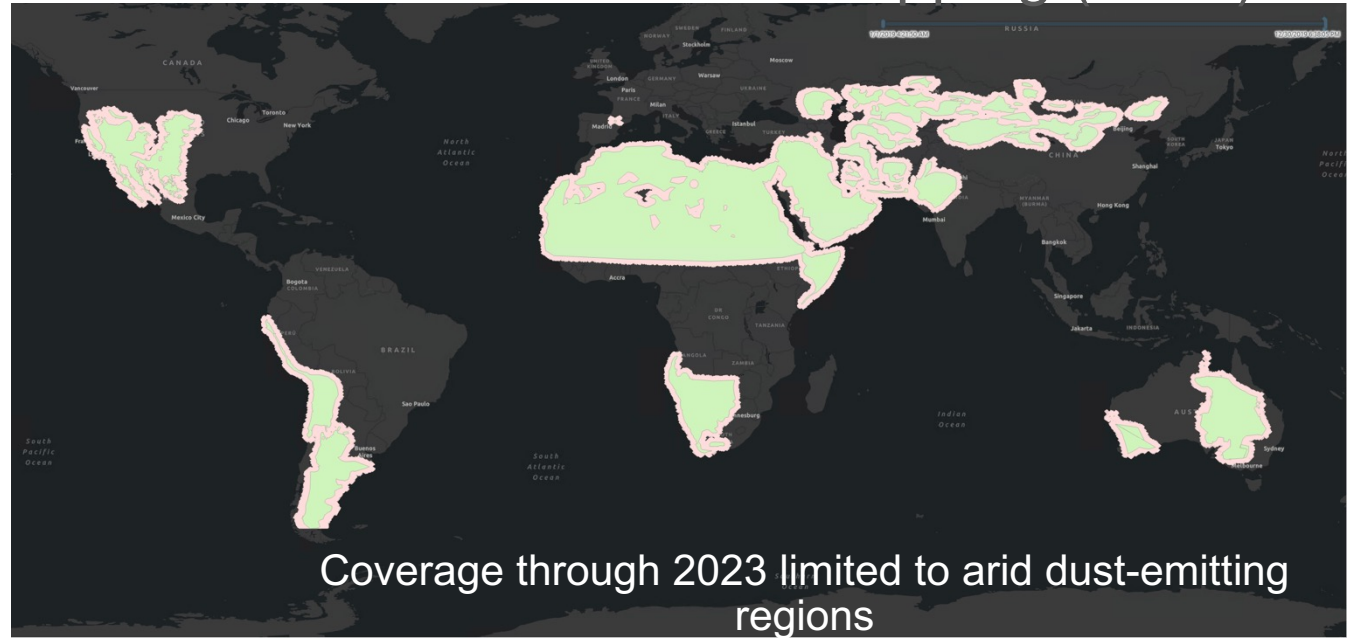
Making the Invisible Visible - Globally

Improving satellite detection capabilities will enable identification of high-emission methane events globally

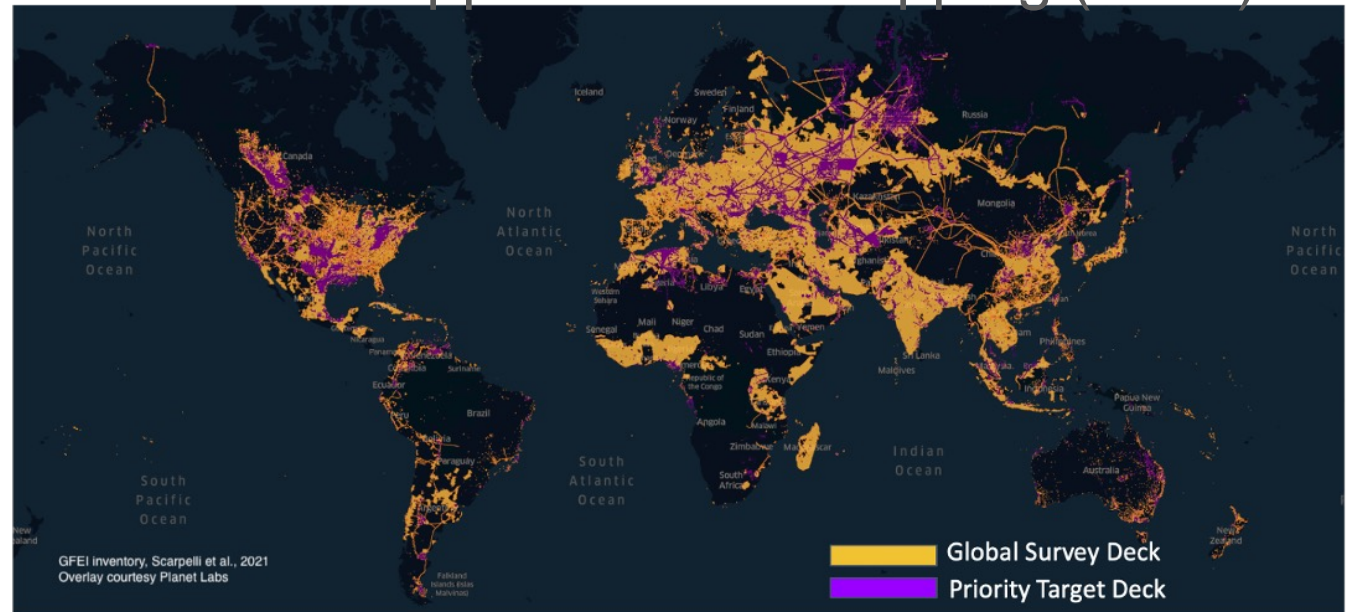
Regional aerial surveys



NASA EMIT satellite mapping (2023)



Carbon Mapper satellite mapping (2024)





Thank You