FROM DATA TO ACTION:

How UNEP's International Methane Emissions Observatory Will Leverage Japan's GOSAT-GW To Drive Mitigation

Ruth Do Coutto

Deputy Director, Climate Change Division

United Nations Environment Programme

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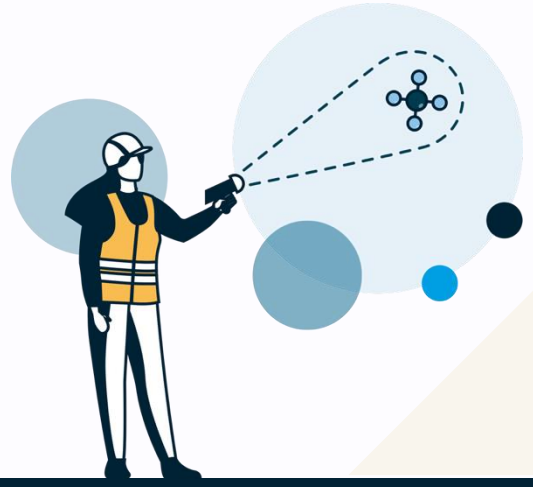
IMEO's mission

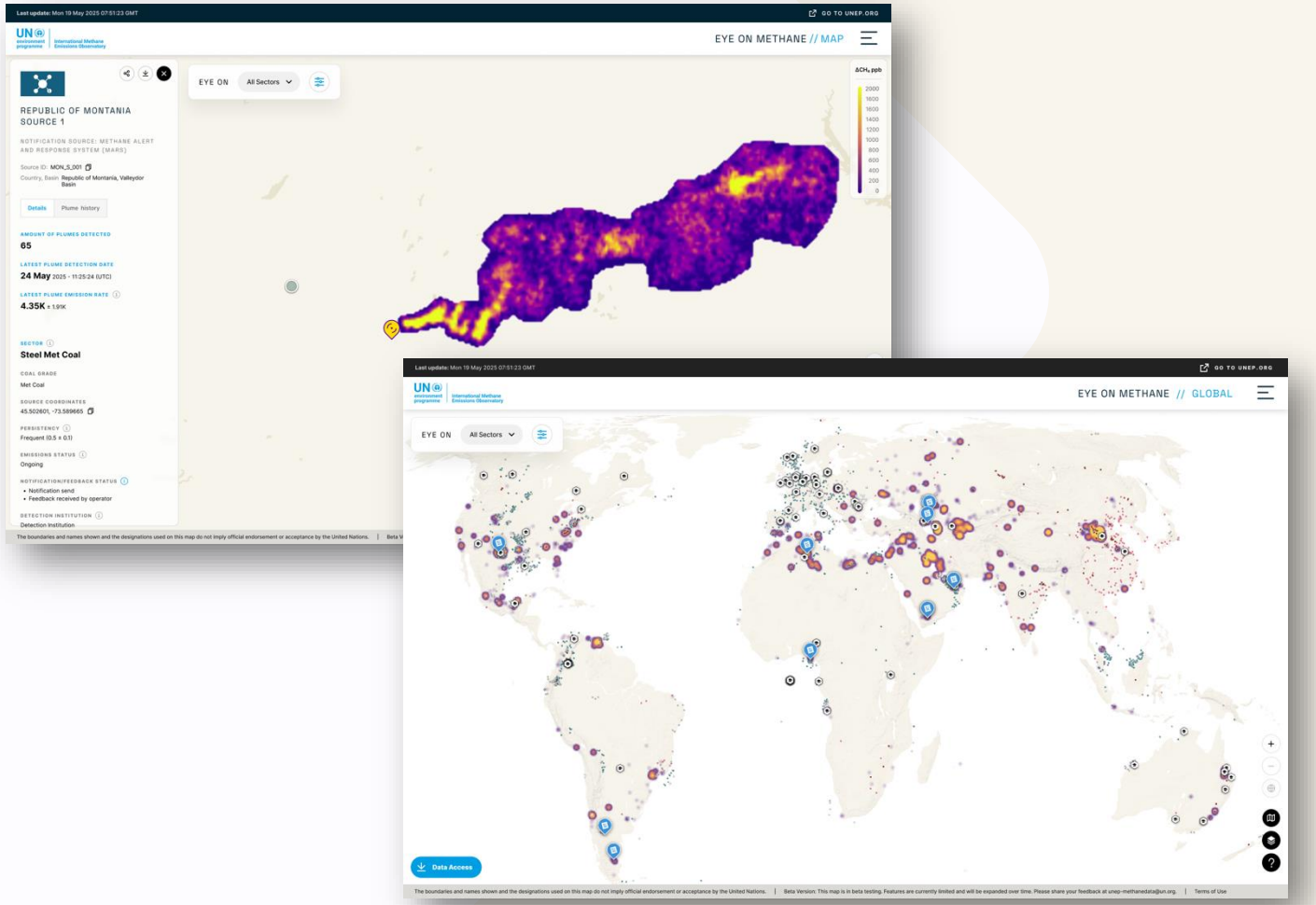
IMEO provides **open, reliable and actionable data** to the people who can act to reduce methane emissions.



Slashing methane emissions is the **fastest, most cost-effective way** to tackle climate change in the short-term and move towards a net-zero world.

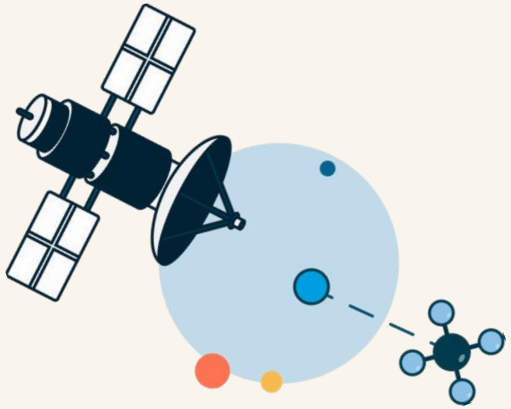
But data on methane is limited, with historic estimates often **underestimating** or **misallocating** emissions.

Fast, accurate and global data from satellites



Satellite data can improve understanding of emissions levels, focus mitigation, and track progress.

New satellites like GOSAT-GW can provide more accurate and precise information that can optimize mitigation actions.



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POINT SOURCE IMAGERS

PAST	1	LANDSAT 4 & 5
	2	LANDSAT 7
PRESENT	3	SENTINEL-2
	4	GHGSAT
	5	LANDSAT 8 & 9
	6	CARBON MAPPER
	7	GOFEN-5, 02
	8	ZIYUAN-1
	9	ENMAP
	10	PRISMA
	11	EMIT
	12 •	VIIRS
	13 •	SENTINEL-3
	14	GOES
	15	MTG
FUTURE	16	TANGO
	17	CO2IMAGE
	18	SBG
	19	CHIME

AREA FLUX MAPPERS

PAST	20	SCIAMACHY
	21 •	METHANESAT
PRESENT	22	GOSAT
	23	SENTINEL-5P
	24	GOSAT-GW
FUTURE	25	SENTINEL-5
	26	CO2M
	27	MERLIN

• NEWLY ADDED TO MARS

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IMEO Supports Scientific research to advance the world's understanding of methane emissions

25 studies in implementation phase in 27 countries (Nigeria, Colombia, India, Azerbaijan)

15 studies currently using satellite data

10 more expected next year

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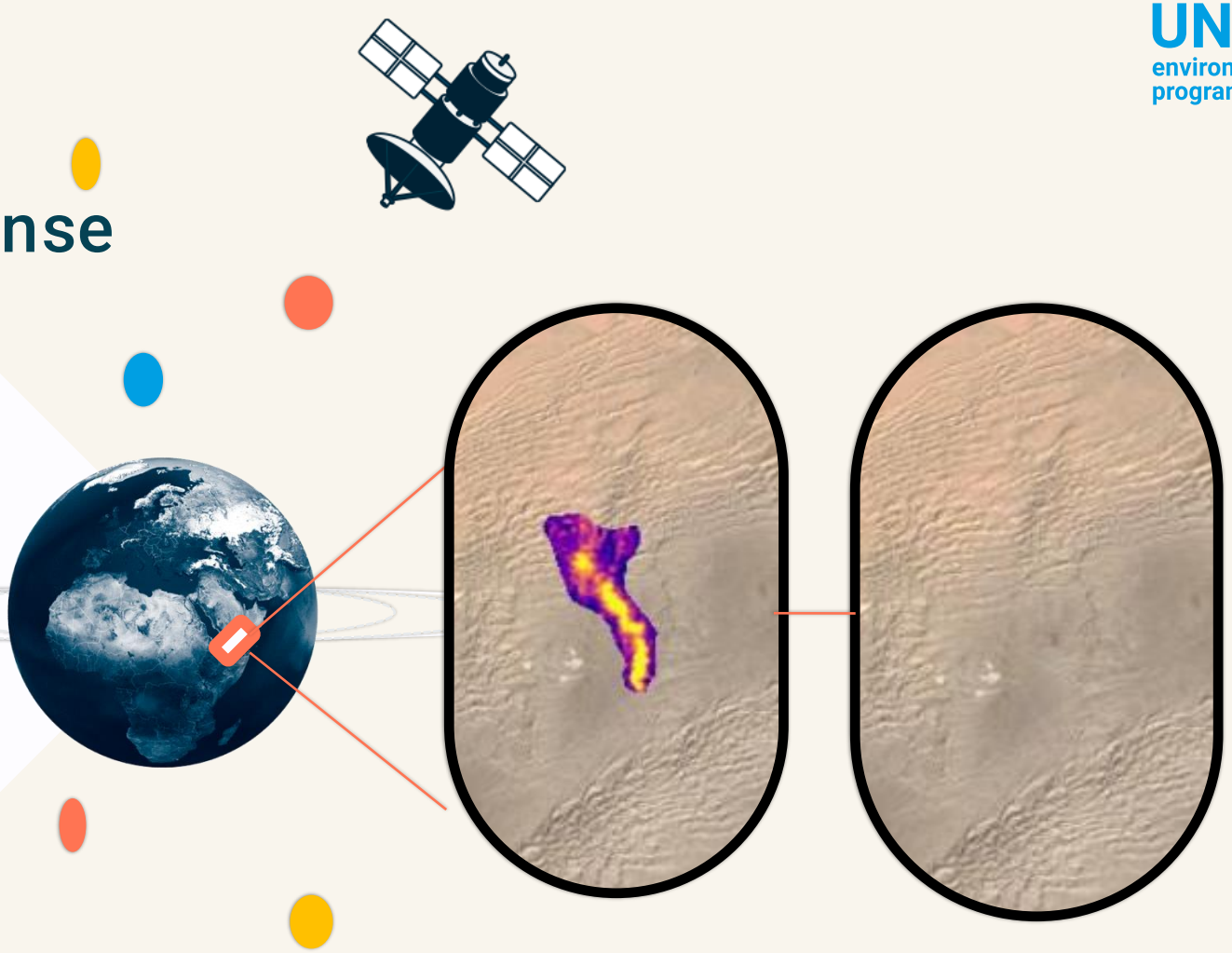
Methane Alert and Response System (MARS)

MARS **integrates data from all publicly-available satellites** to notify government and company stakeholders of major methane emissions.

New satellite data will expand MARS coverage, support increased notifications, and contribute to development of new data products.



Example of action to #CutMethane prompted and verified by MARS

Assessing oil & gas supply chain methane performance

The **Methane Emissions Index (MEI)** will quantify total emissions along different supply routes as a basis for importers and policy-makers.

Satellite data – including GOSAT-GW – will be fundamental to this effort.

THANK YOU !

UNEP's IMEO gratefully acknowledges its donors: