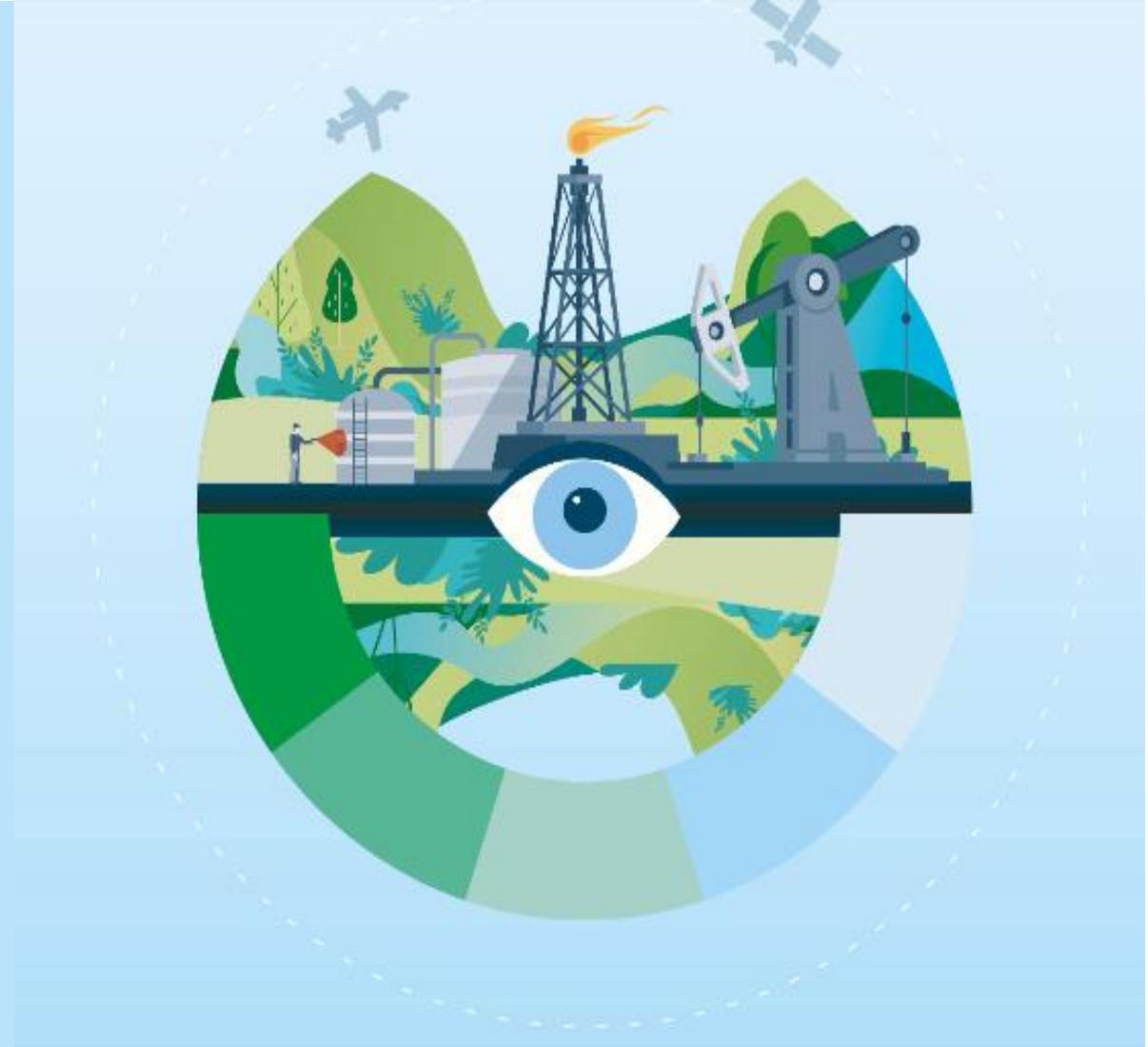


November 2021

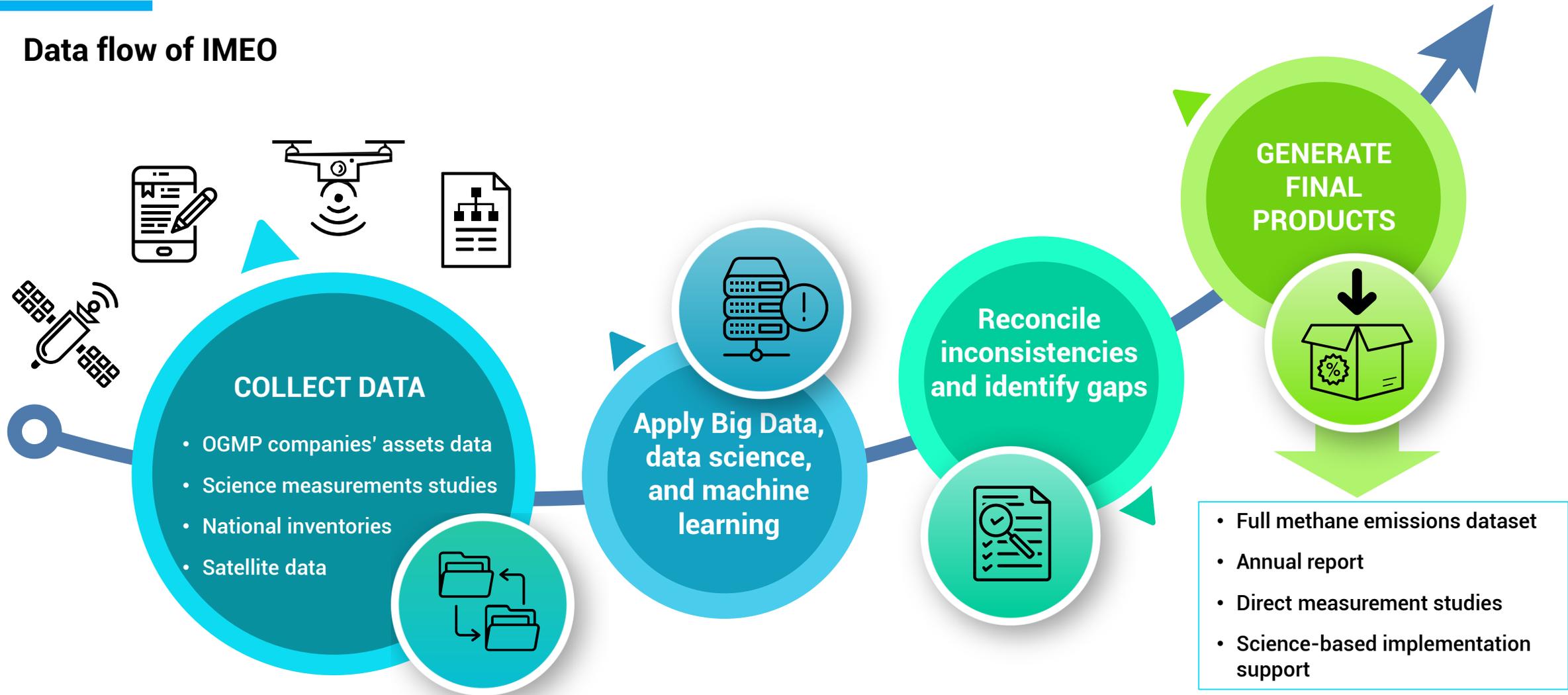
International Methane Emissions Observatory (IMEO)



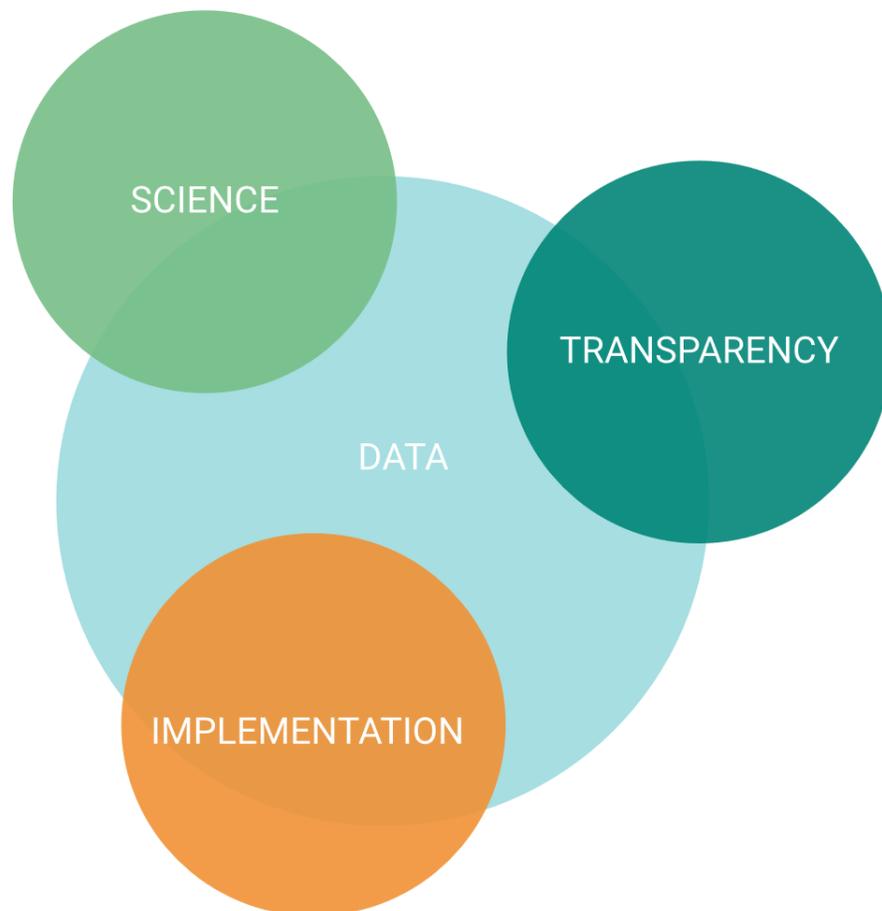
Manfredi Caltagirone

A revolutionary approach to data will create the best existing picture of methane emissions globally

Data flow of IMEO



IMEO helps transforming high-level ambition into field-level action



Governments – use data to focus targeted action domestically and abroad



Companies – provide means to credibly reduce emissions at the asset level



Investors – differentiate company performance on methane management



Civil society – hold governments and companies accountable for reduction targets

Zoom into IMEO's Vision on Data Integration

FROM multiple sources of heterogenous data → TO
a coherent and policy relevant integrated dataset that highlights the confidence of each data element

Current Efforts focusing on

▶ **Data integration within the company reported data (OGMP 2.0).**

With the OGMP 2.0 data, IMEO's initial focus is on **assessing integrity, completeness** of reported data and **identifying inconsistencies** among and between operators, regions and facility type and source type.

▶ **Overall integration between data streams.**

IMEO is developing a **data framework** that allows merging and aggregating data from the diversity of sources **with a very wide range of confidence, quality and granularity.**

IMEO current work

Building the Data Taxonomy and Platform

Engaging Satellite Providers

Stakeholder Engagement Throughout IMEO's Governance

Funding Scientific Measurement Studies

High-level Country Engagement

- In the process of hiring a data architect to design the data structure and build the platform
- Extracting OGMP 1st year data to facilitate the analysis and comparison the 2nd year reporting; the OGMP2.0 database will be the starting point of IMEO data platform
- Close consultation with data experts on data taxonomy
- Working with Copernicus (Sentinel 2 - 5p), GHGSat, Prisma, GoSat and analytics companies such as Kayros
- Closely coordinating with MethaneSAT, Carbon Mapper, Satlantis, etc.
- **Implementation Committee:** guiding the establishment of IMEO
- **Executive Board:** Leads strategic direction of IMEO, comprised of funding countries
- **Scientific Oversight Committee:** Oversees scientific and technical aspects of IMEO, includes leading scientists representing a variety of expertise and disciplines
- **Advisory Council:** Representatives from NGOs, IGOs, scientific community, and industry (through member companies of OGMP 2.0) share guidance on IMEO activities

Location of Past and Future Studies



IMEO: a key implementing vehicle of the Global Methane Pledge



“The Global Methane Pledge Makes cutting methane emissions a global undertaking. This must be supported by sound scientific basis and a capacity to monitor and calculate methane emissions. Because we all know that only what gets measured gets done.”

-- Ursula von der Leyen, President of the European Commission

“IMEO will play an important role in creating a sound scientific basis for methane emissions calculations and delivering the Global Methane Pledge”

-- Joint EU-US Press Release on the Global Methane Pledge

“IMEO is crucial for the Global Methane Pledge to be successful. IMEO is uniquely placed to create a sound & independent scientific basis for methane emissions calculations & reductions: no other organization can fill this role as effectively.”

- Kadri Simson, European Commissioner for Energy

IMEO will serve as the implementation vehicle for major methane commitments like the Global Methane Pledge

107

Countries that have signed on to the EU- and US-led Global Methane Pledge

70%

Portion of the global GDP covered by signatories

30%

Methane reduction target by 2030

IMEO will create a

- ▶ **sound scientific basis for methane emissions calculations**

which will help countries to

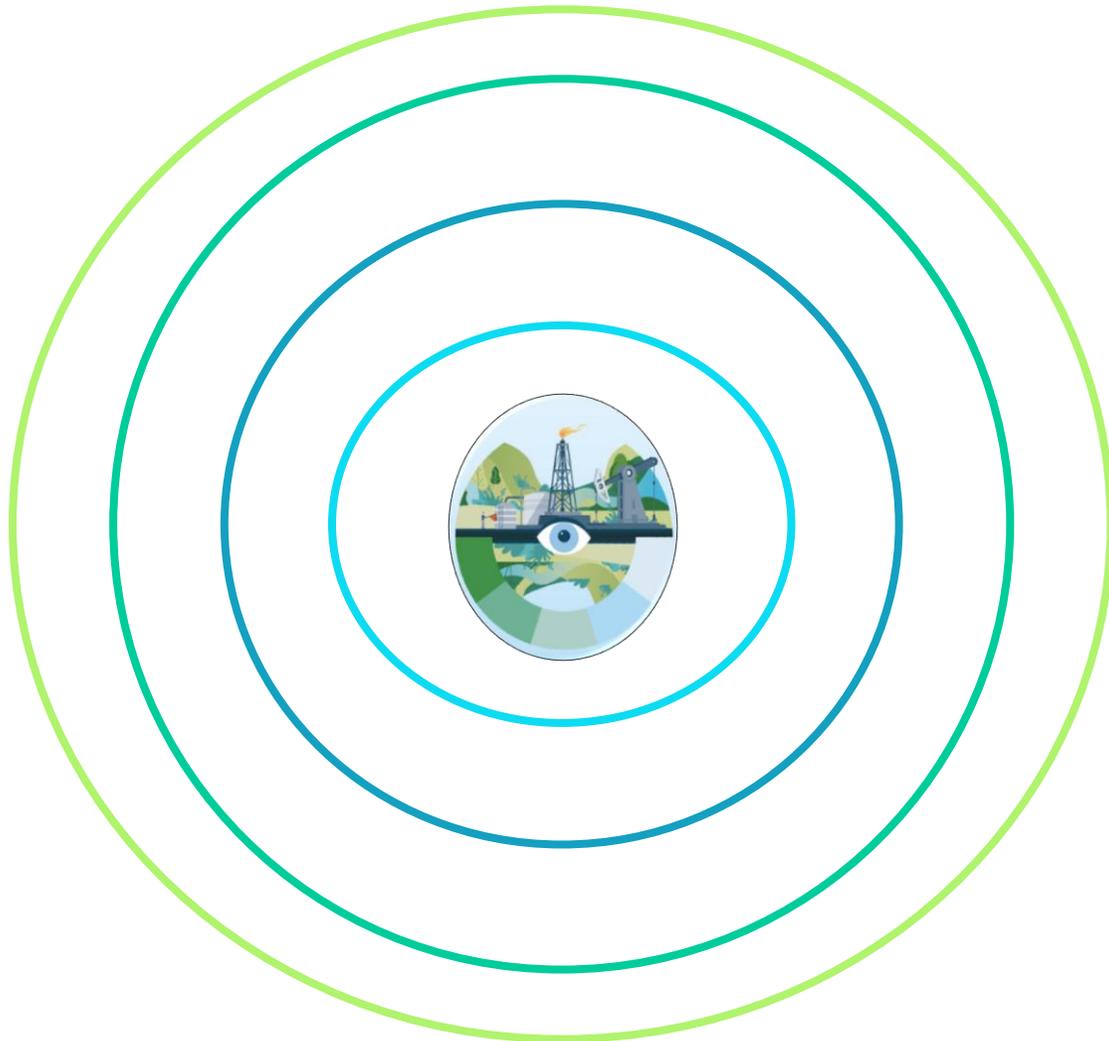
- ▶ **prioritize mitigation actions**

and

- ▶ **credibly track and prove progress**

towards targets.

IMEO is an independent, transparent and complementary initiative at the center of the methane ecosystem



Founders: UNEP, European Commission

Donors: Other governments, philanthropies

Advisors and partners: IGOs (e.g., IEA, WMO), NGOs (e.g., EDF, CATF), scientists, industry (OGMP 2.0 members)

Funding recipients: Academic and research institutions

Data users: Governments, companies, investors, NGOs, researchers, etc.

IMEO as an Independent, Transparent and Complementary Initiative in the Ecosystem

**Hosted within the UN,
a Natural Convener of the
Methane Ecosystem**

**Complementary to other
initiatives and empowering other
stakeholders**

- Mandate, Global reach, Credibility and Legal status of the United Nation
- Rich experience of UNEP as implementer and lead partner of the CCAC Mineral Methane Initiative
- Many organisations are already involved in research on and advocacy for fossil methane mitigation. IMEO will leverage and connect to the wider methane mitigation ecosystem.
- directly in discussions with scientists, remote sensing data providers, intergovernmental organizations nongovernmental organizations, governments and regulators.



Thank you