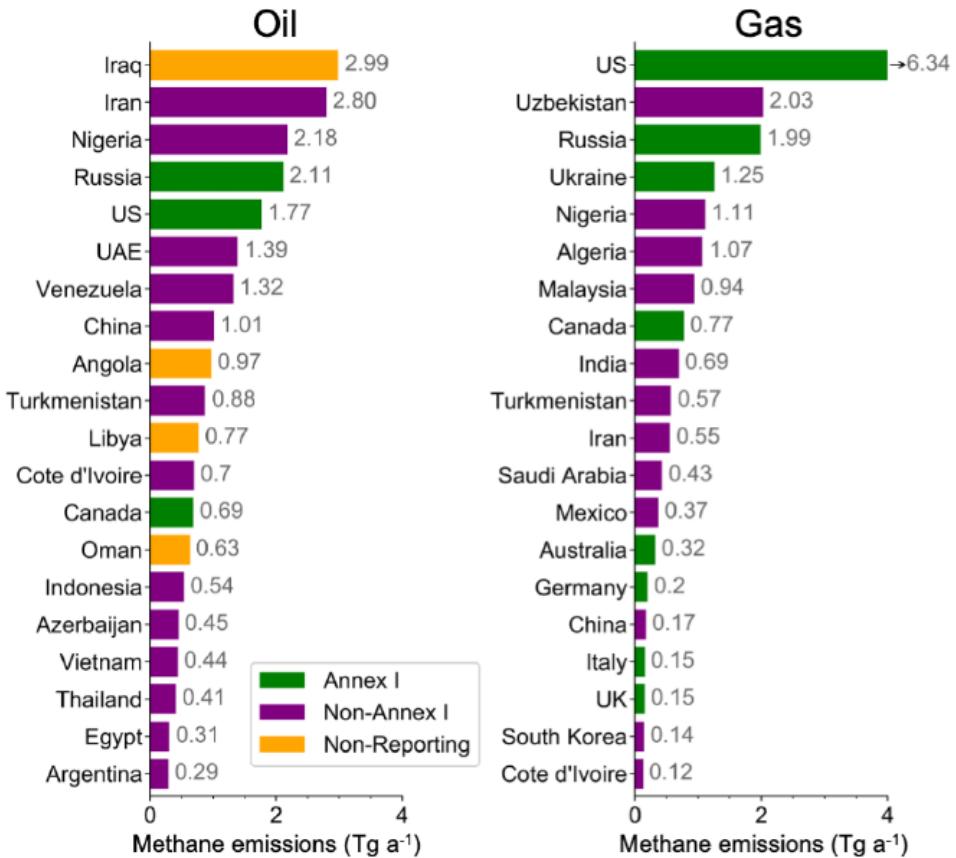
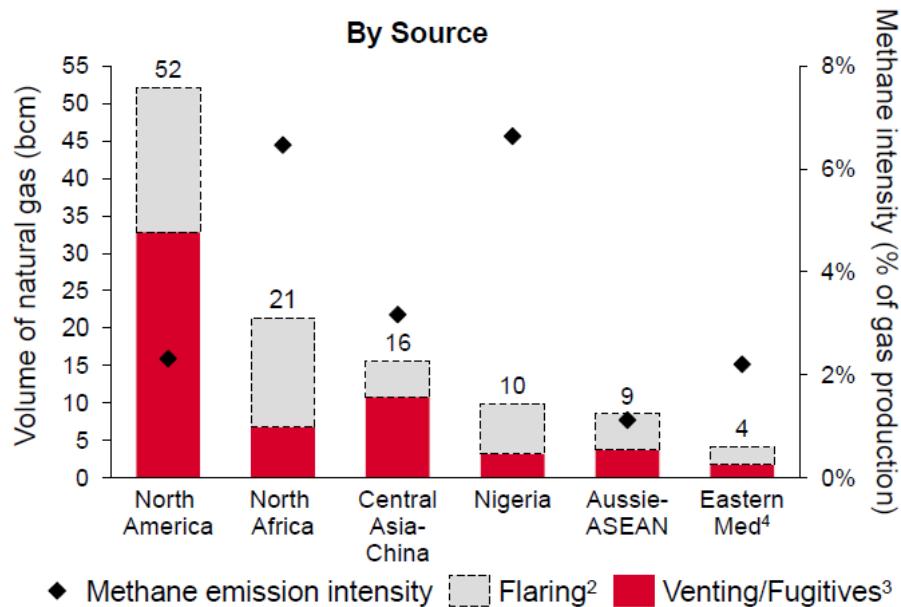


Methane emissions are higher than reports and inventories suggest



Source: UNFCCC data (Scarpelli et al. 2021)



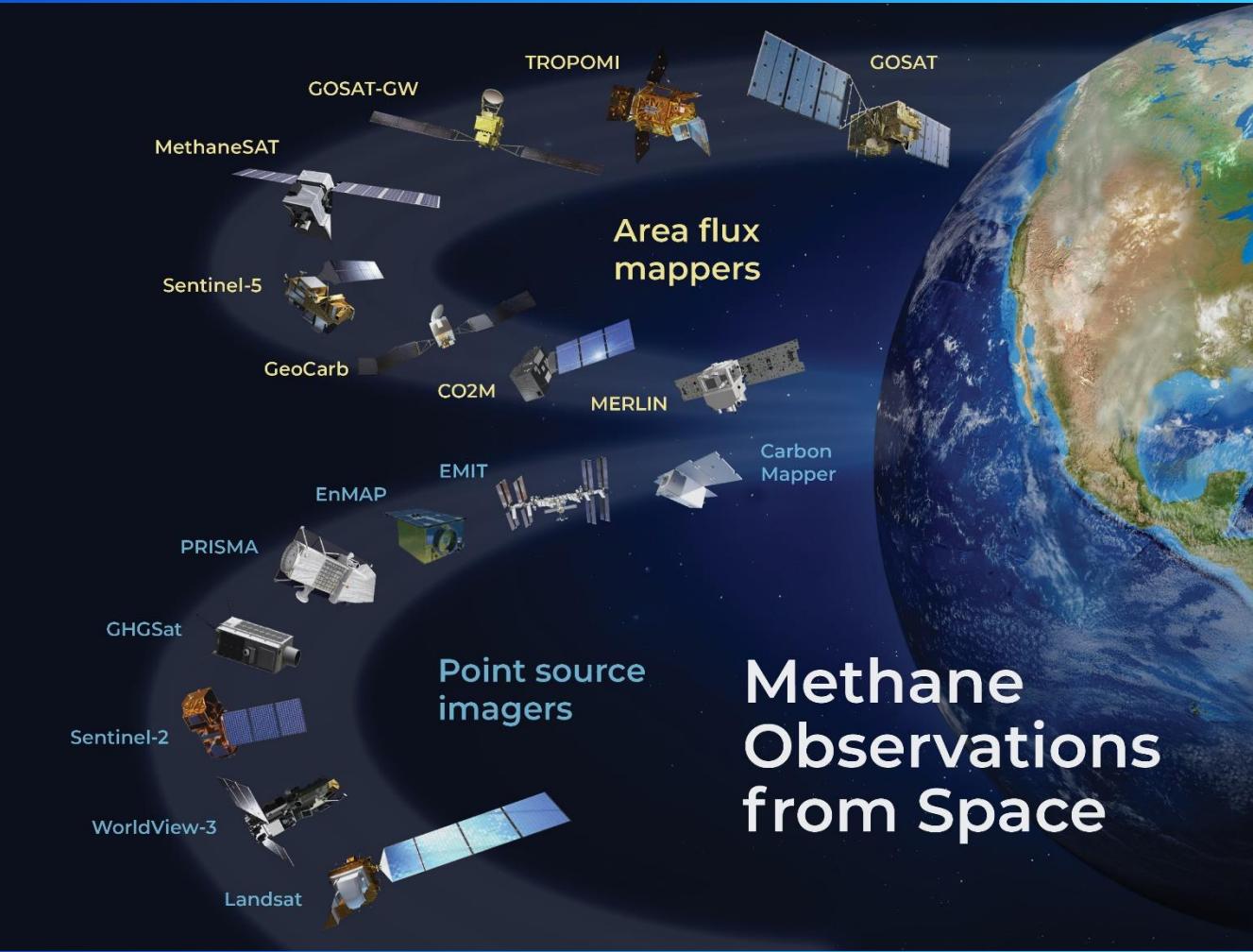
Economic gas capture projects could cover almost **60% of the EU/UK natural gas imports from Russia (2021)**

Source: S&P Global 2022



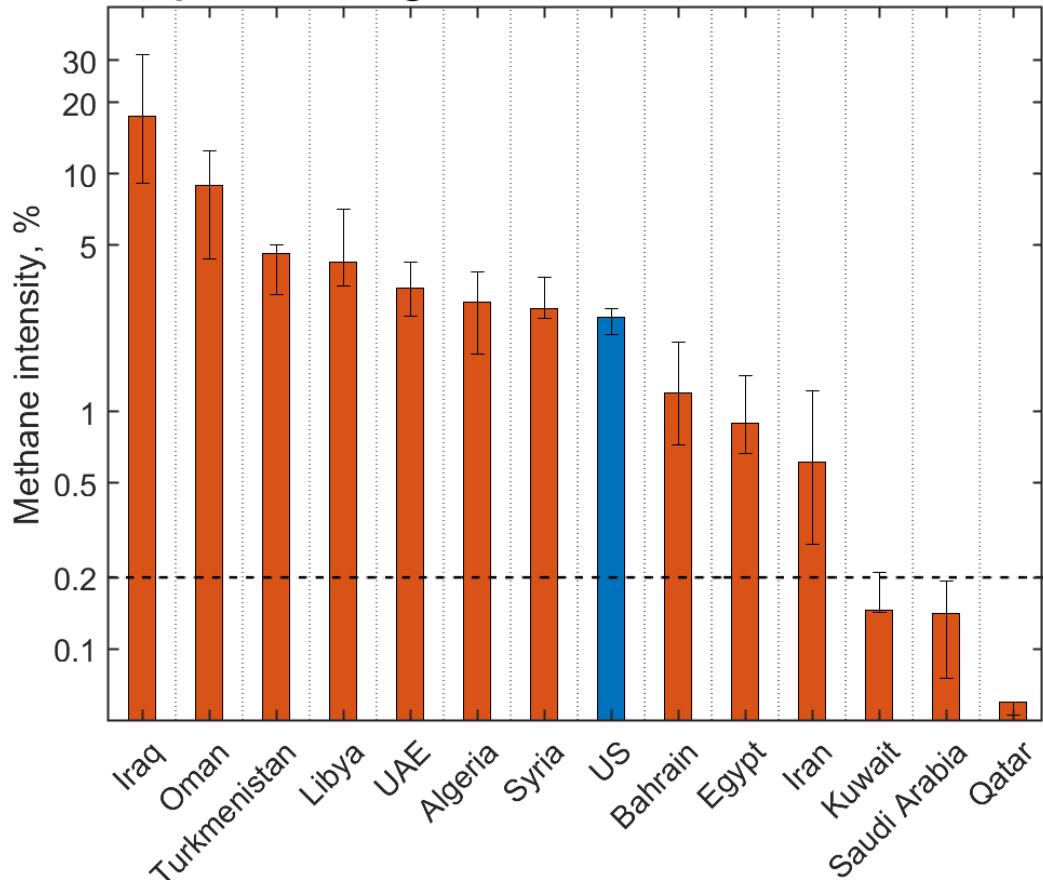
Measurement-based data is essential,
Robust monitoring approaches available

A methane satellite revolution is underway



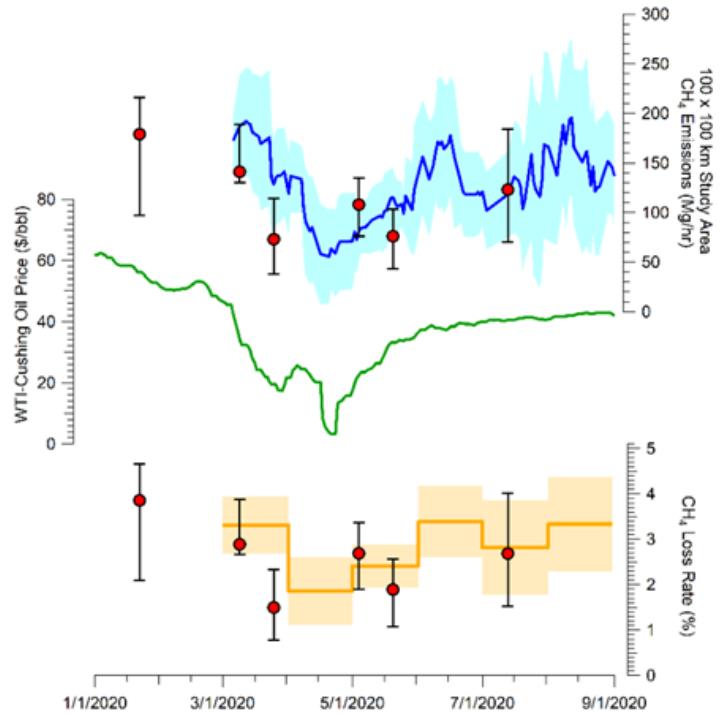
Source: Jacob et al., ACP, 2022

Upstream oil/gas methane intensities in 2019

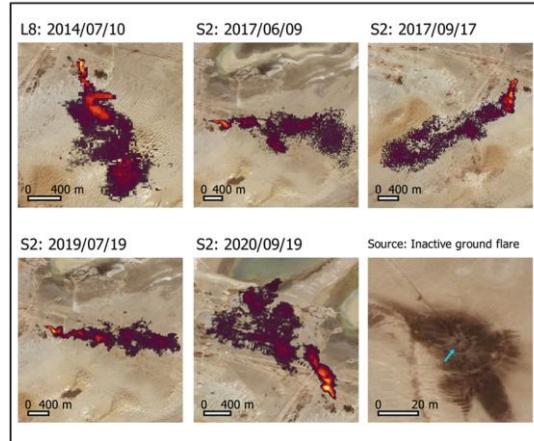


TROPOMI-based
estimates for country-
level emissions

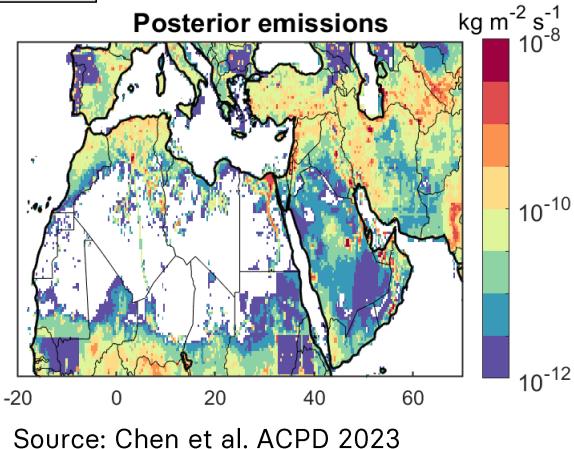
Source: Chen et al. ACPD 2023



Source: Lyon et al. ACP 2021



Source: Irakulis-Loitxate et al. ES&T 2022



Source: Chen et al. ACPD 2023

Need to integrate data, track changes in emissions over time

Thank you!

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