CMS Series #2:

Reconciling bottom-up and top-down emissions estimates

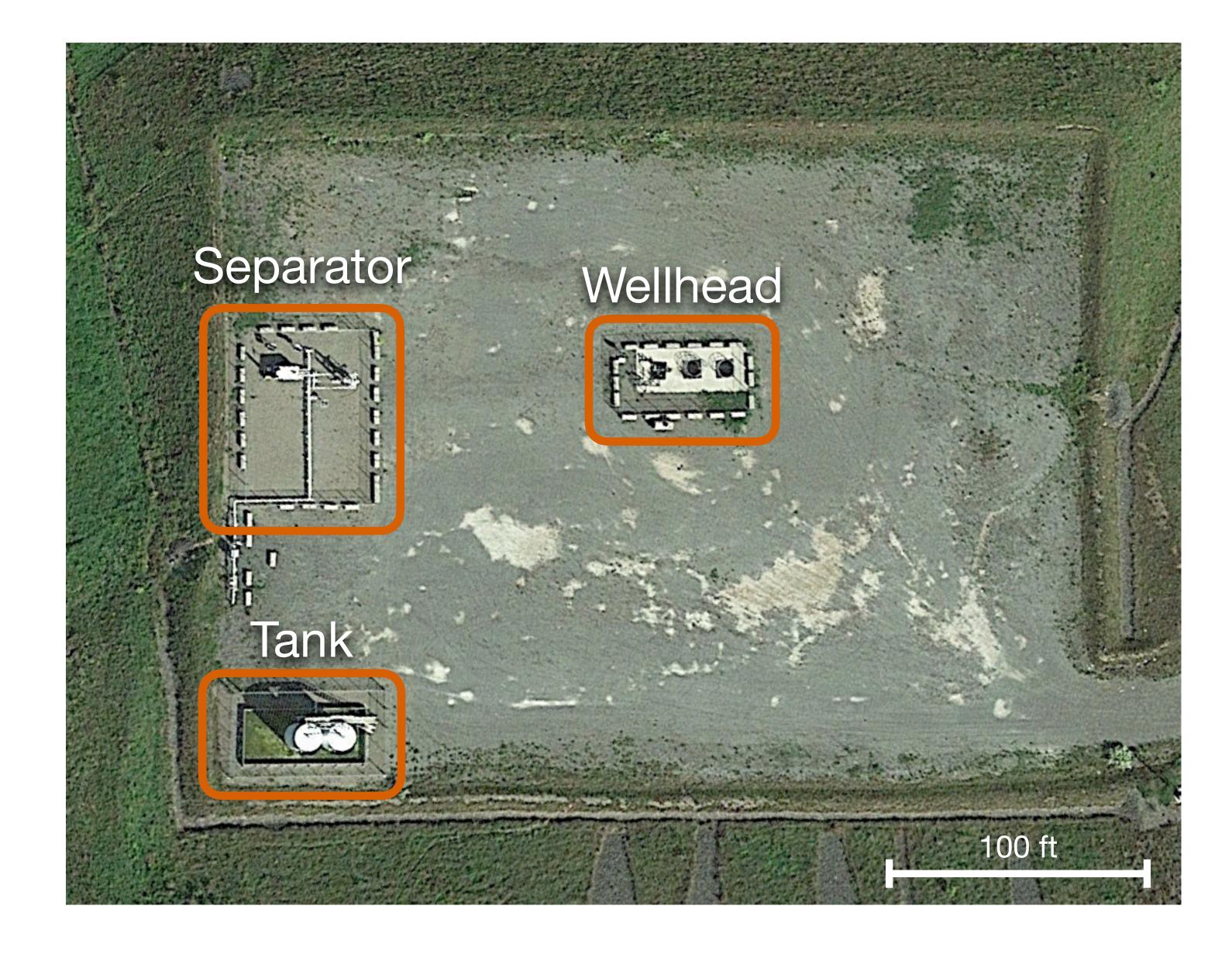
William Daniels

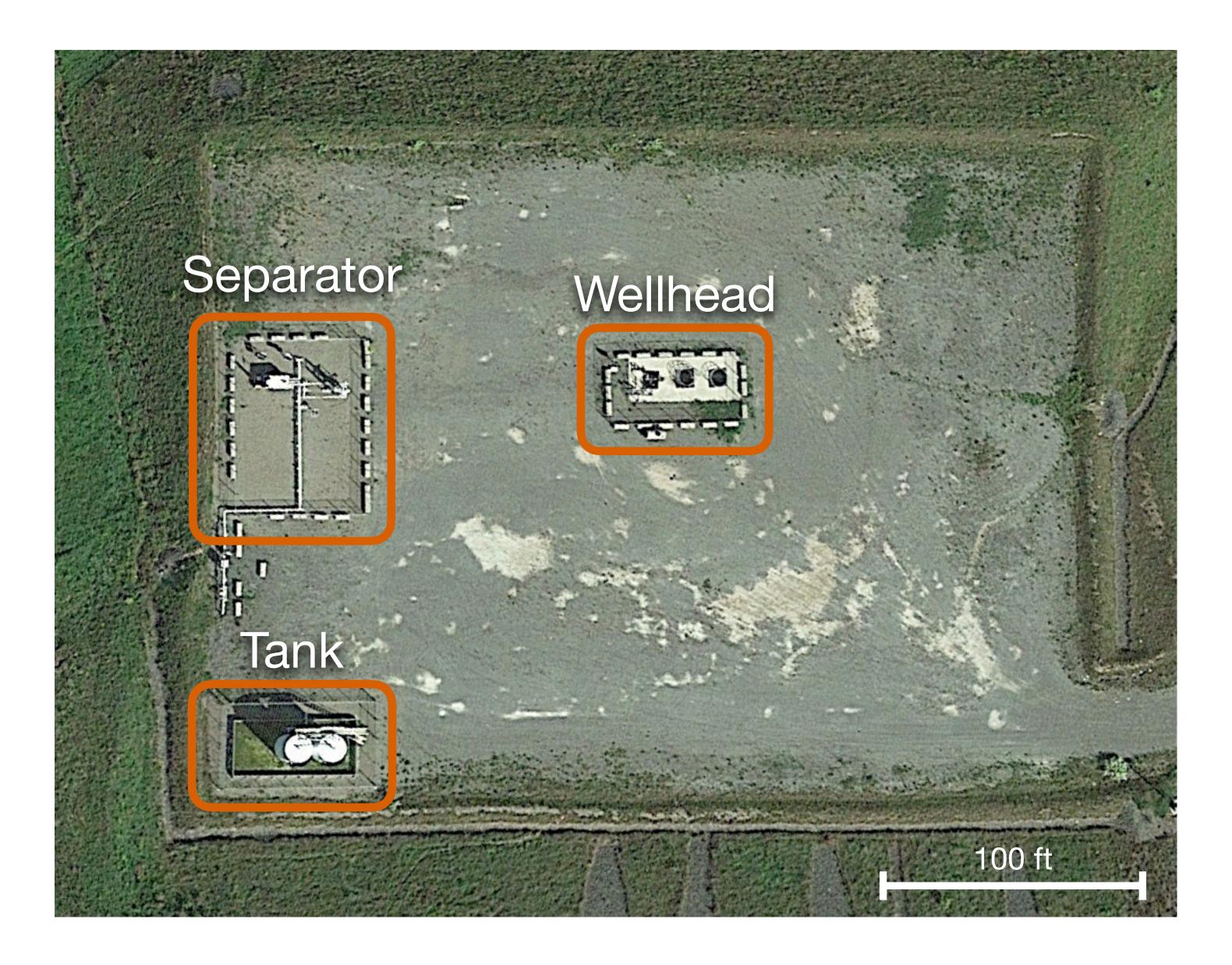
Department of Applied Mathematics and Statistics



COLORADO SCHOOL OF MINES.

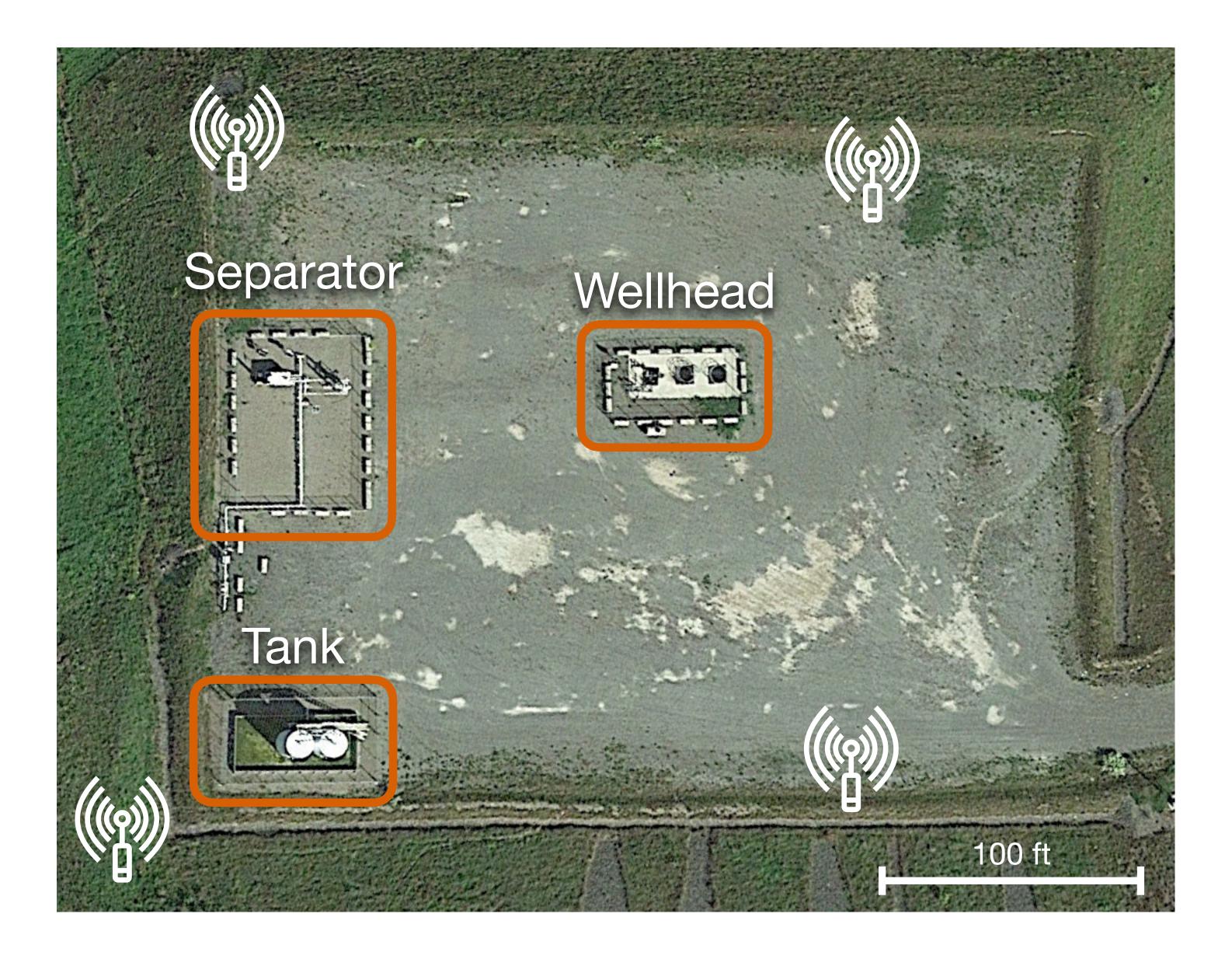






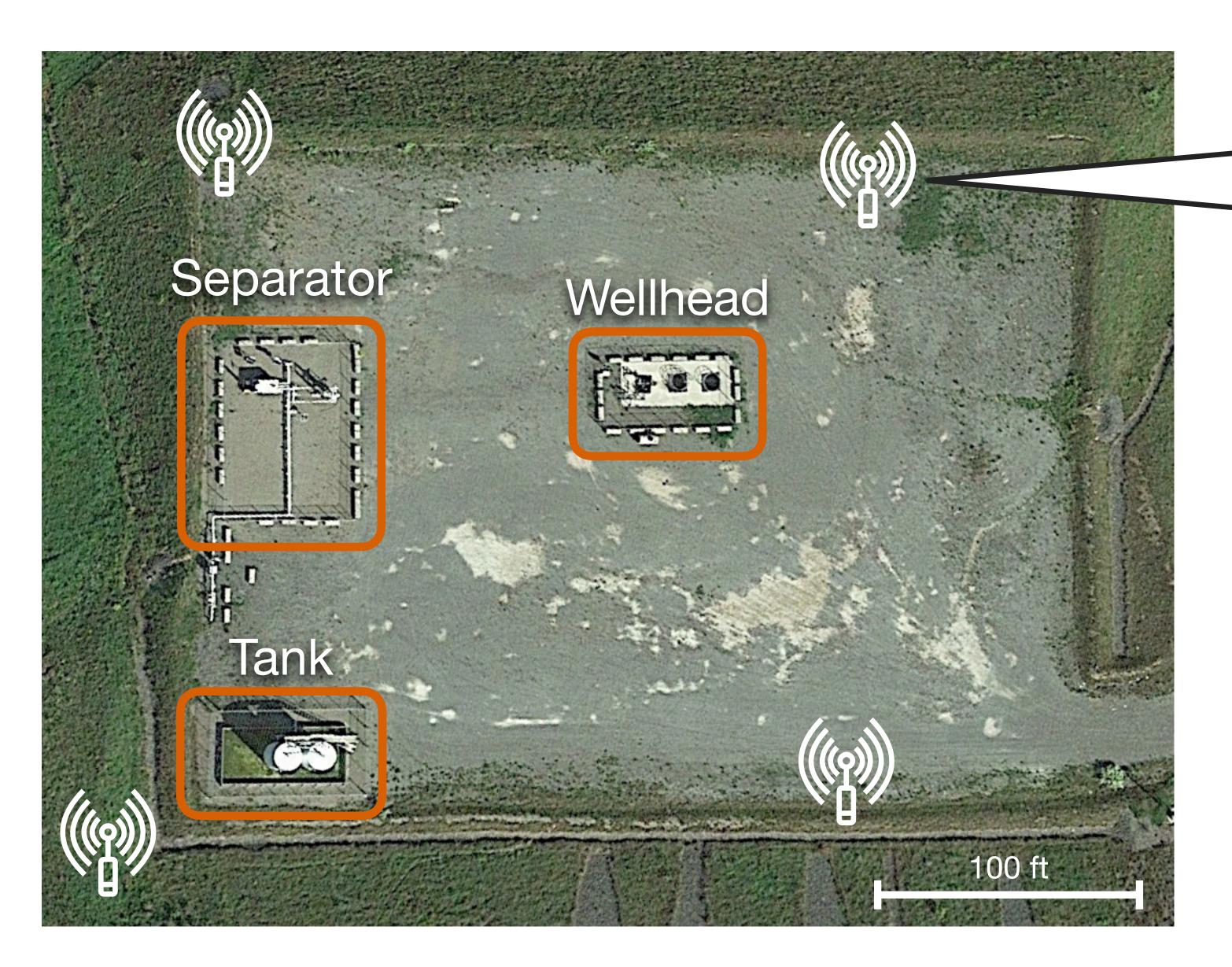
Continuous monitoring system (CMS)

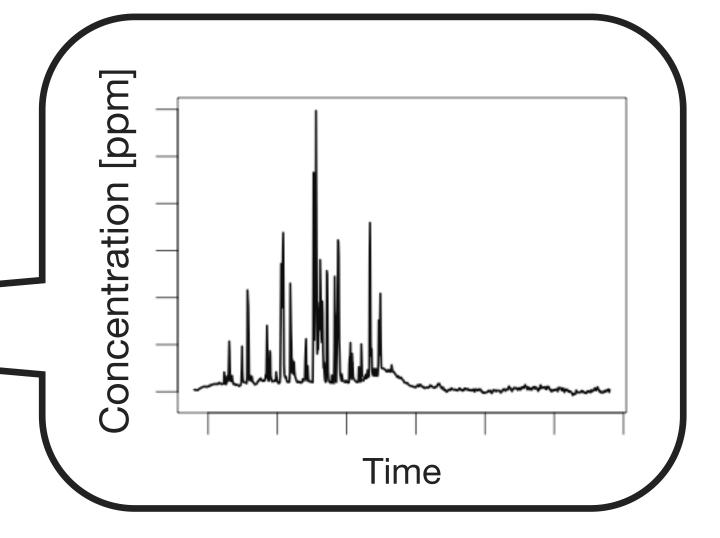


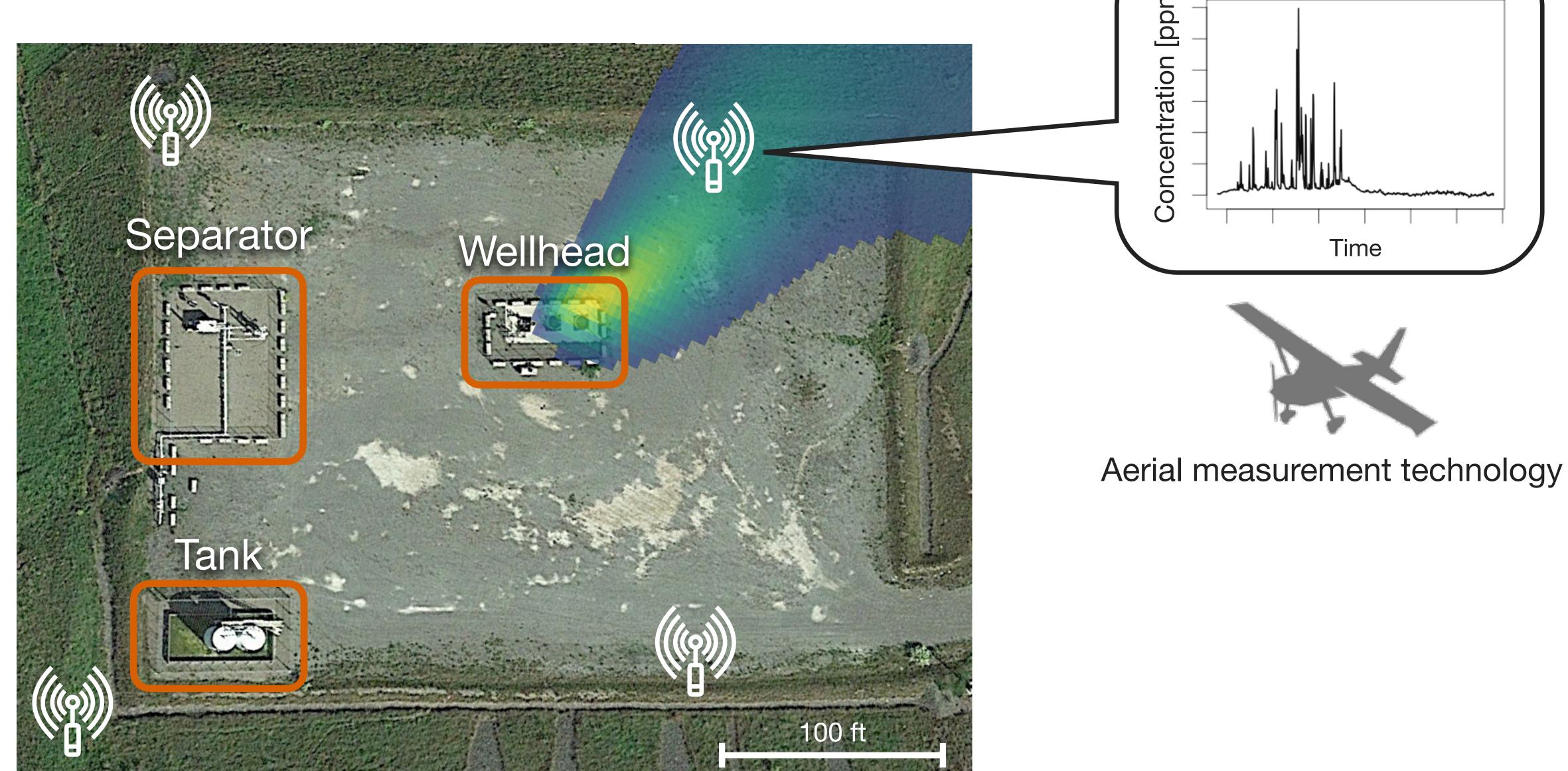


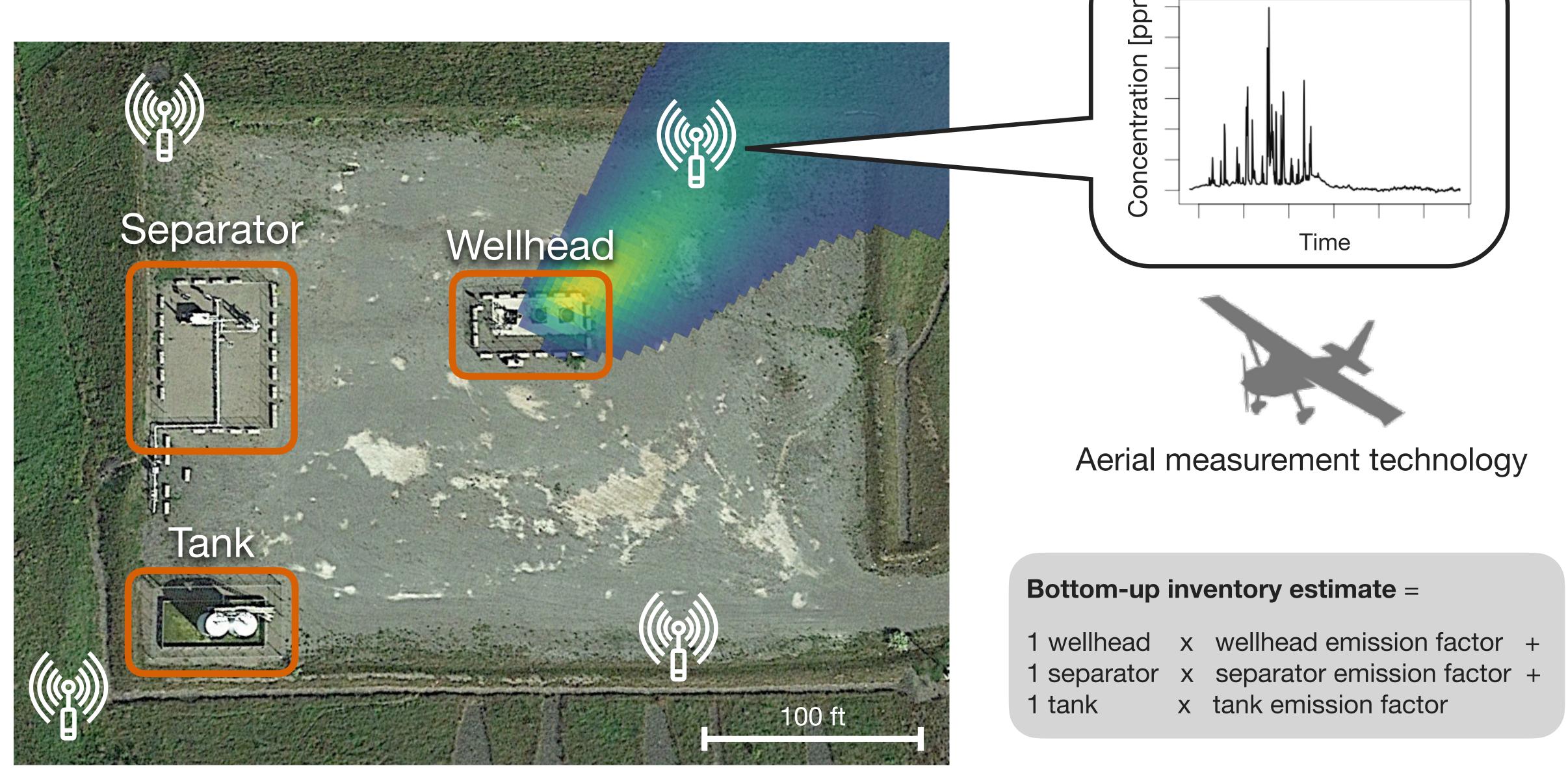
Continuous monitoring system (CMS)

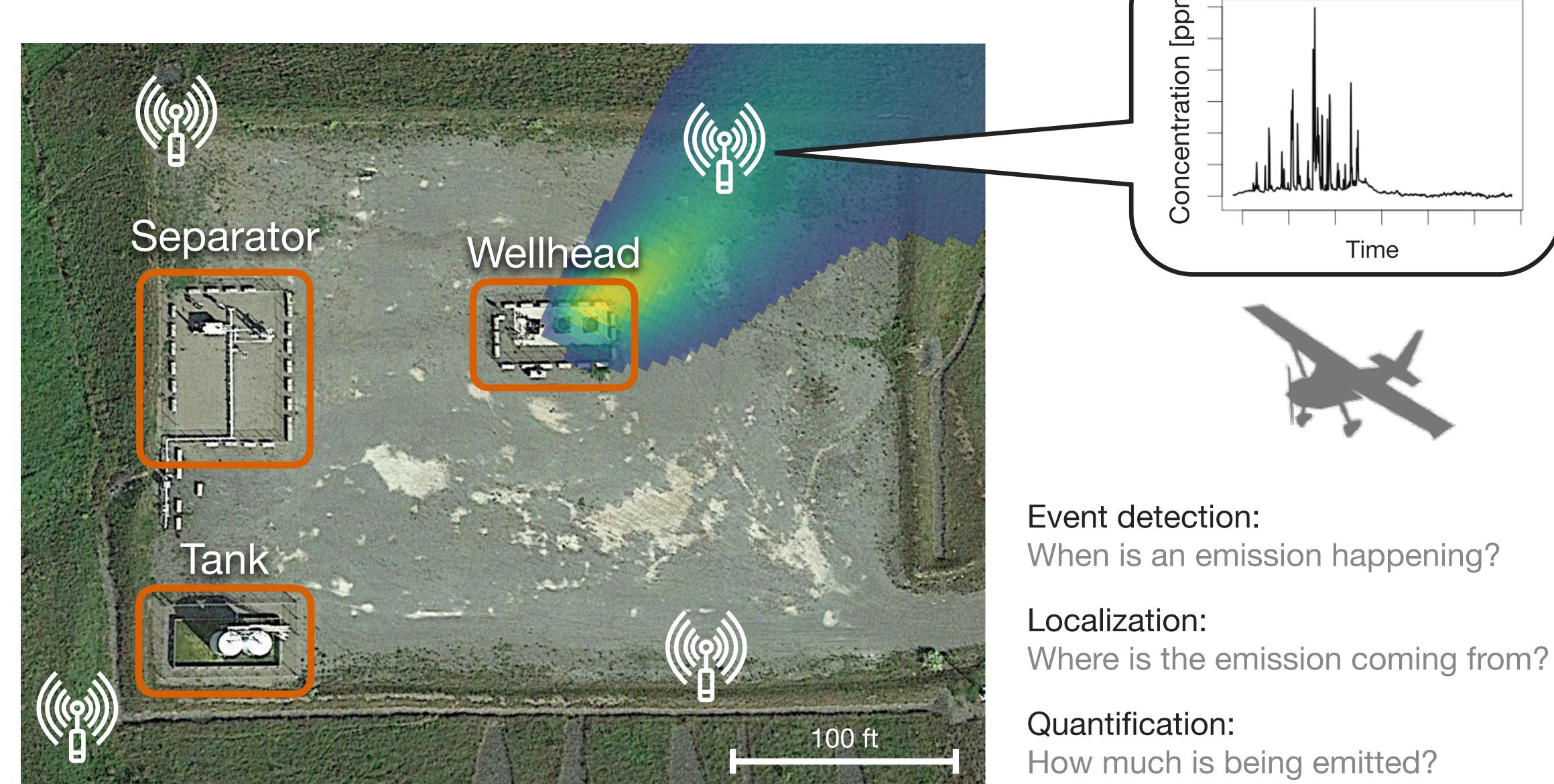








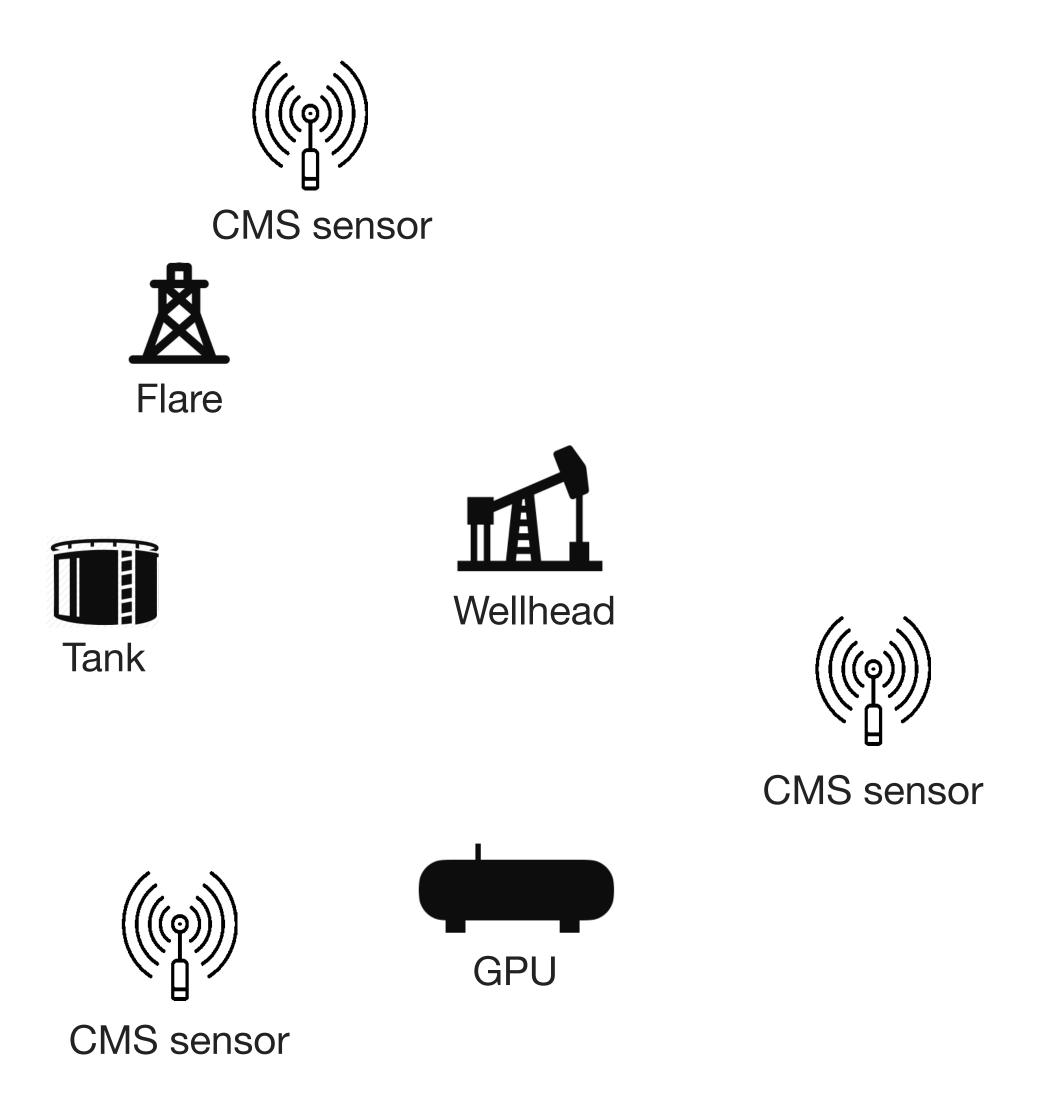




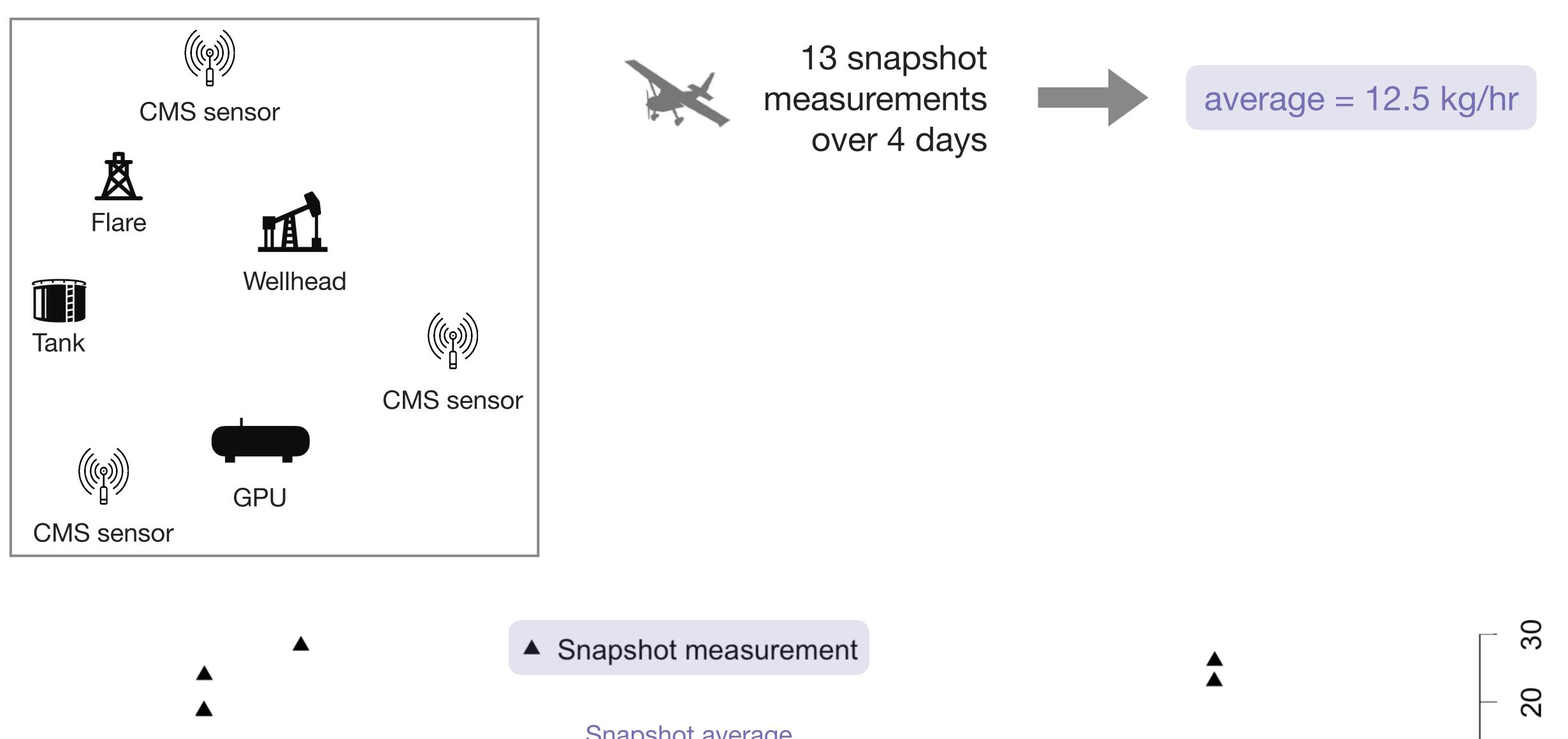
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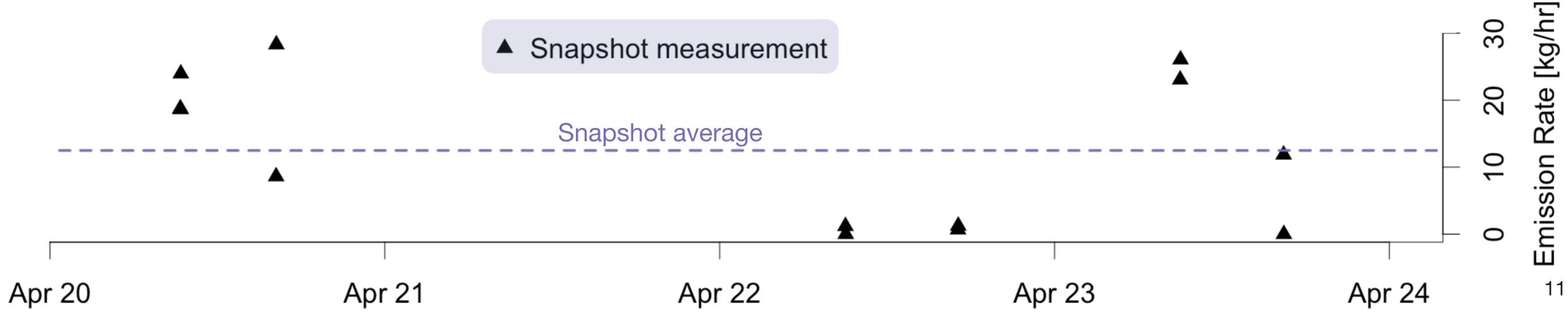
Chapter 2:

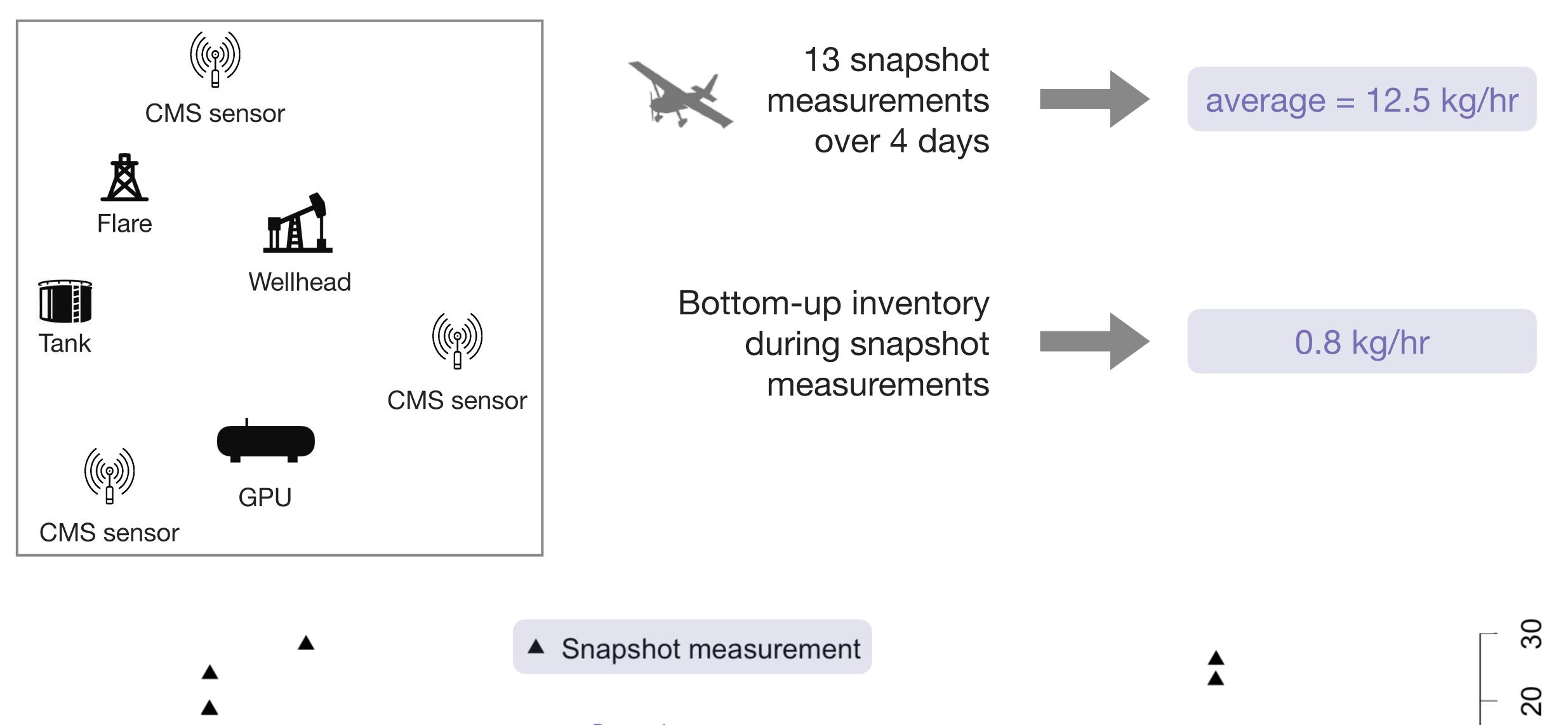
Reconciling aerial measurements and bottom-up inventories

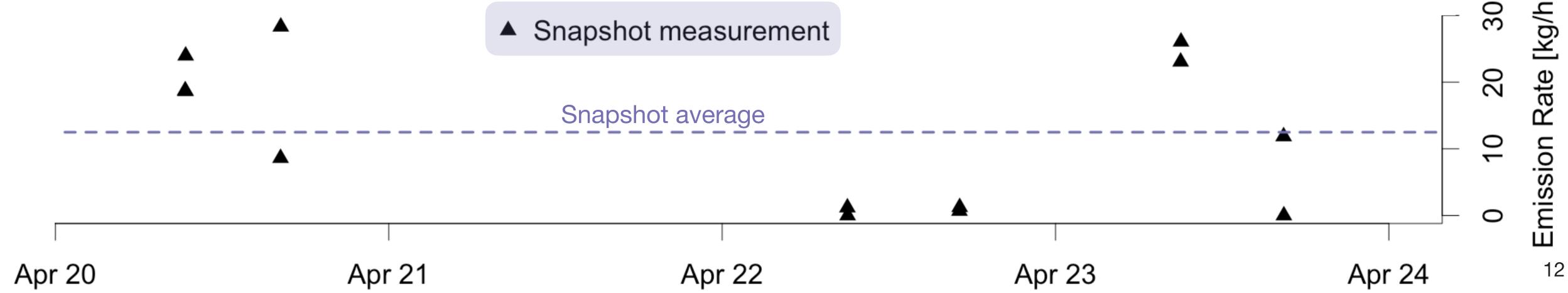


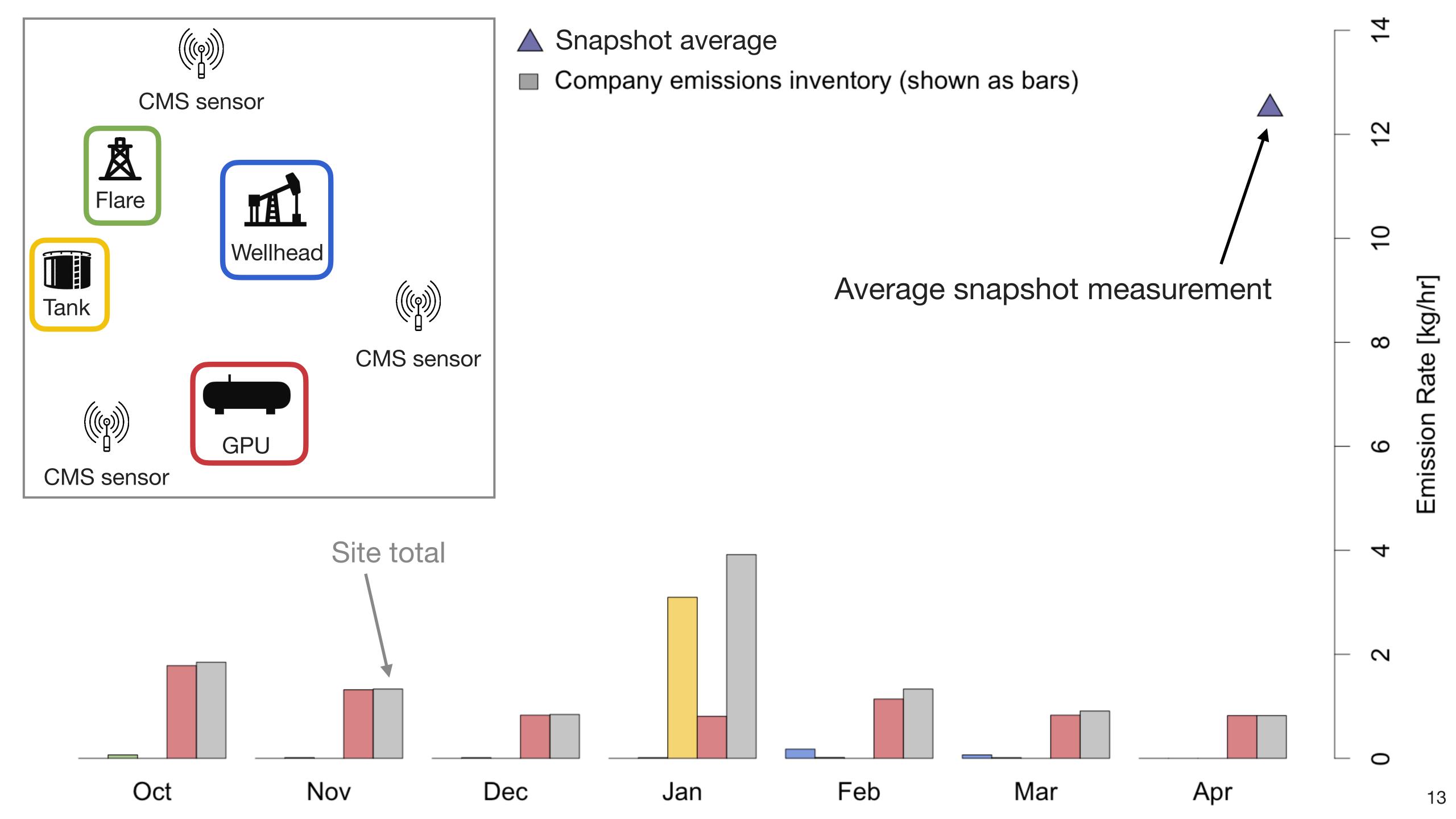
Bottom-up top-down reconciliation case study

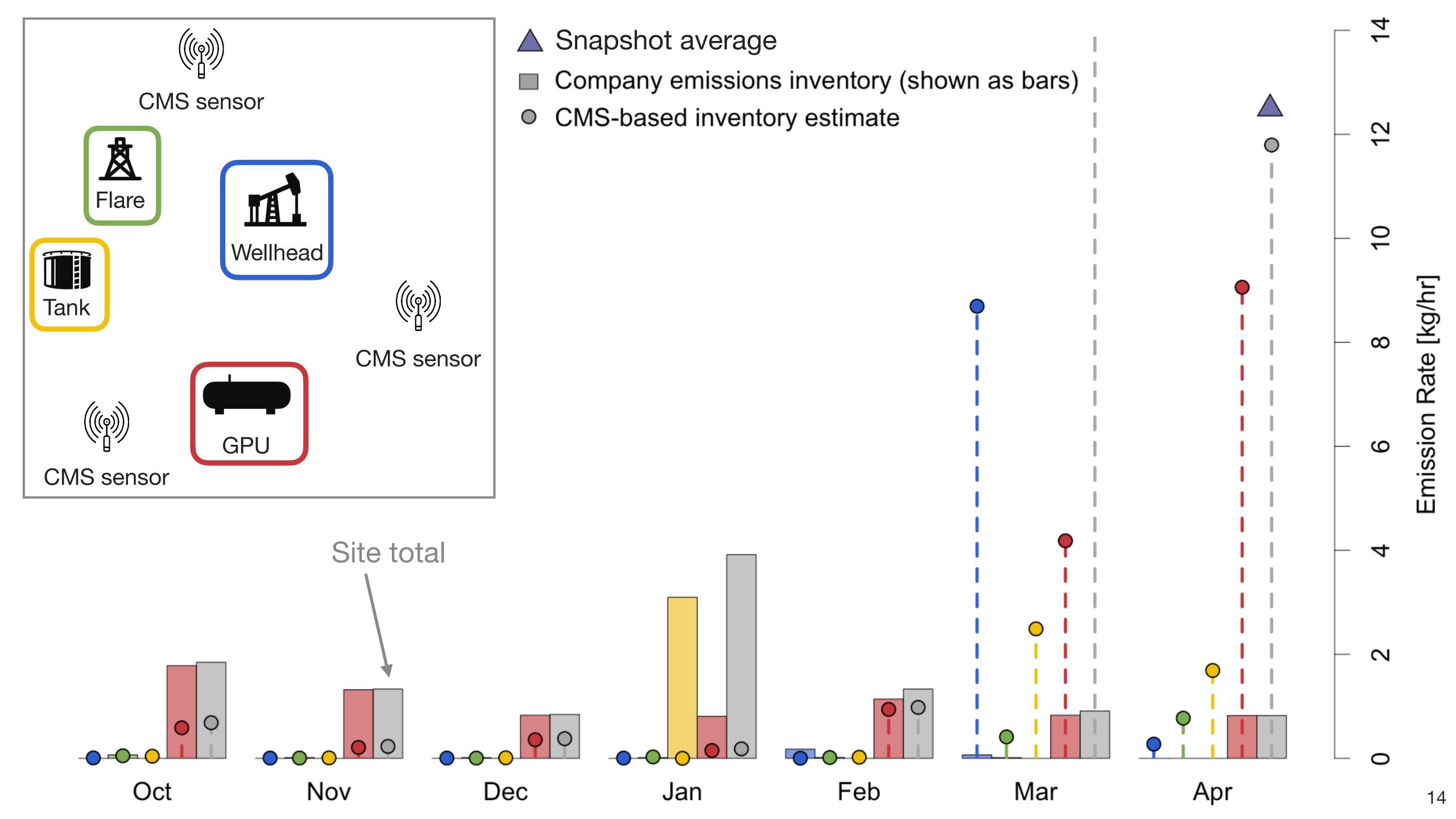


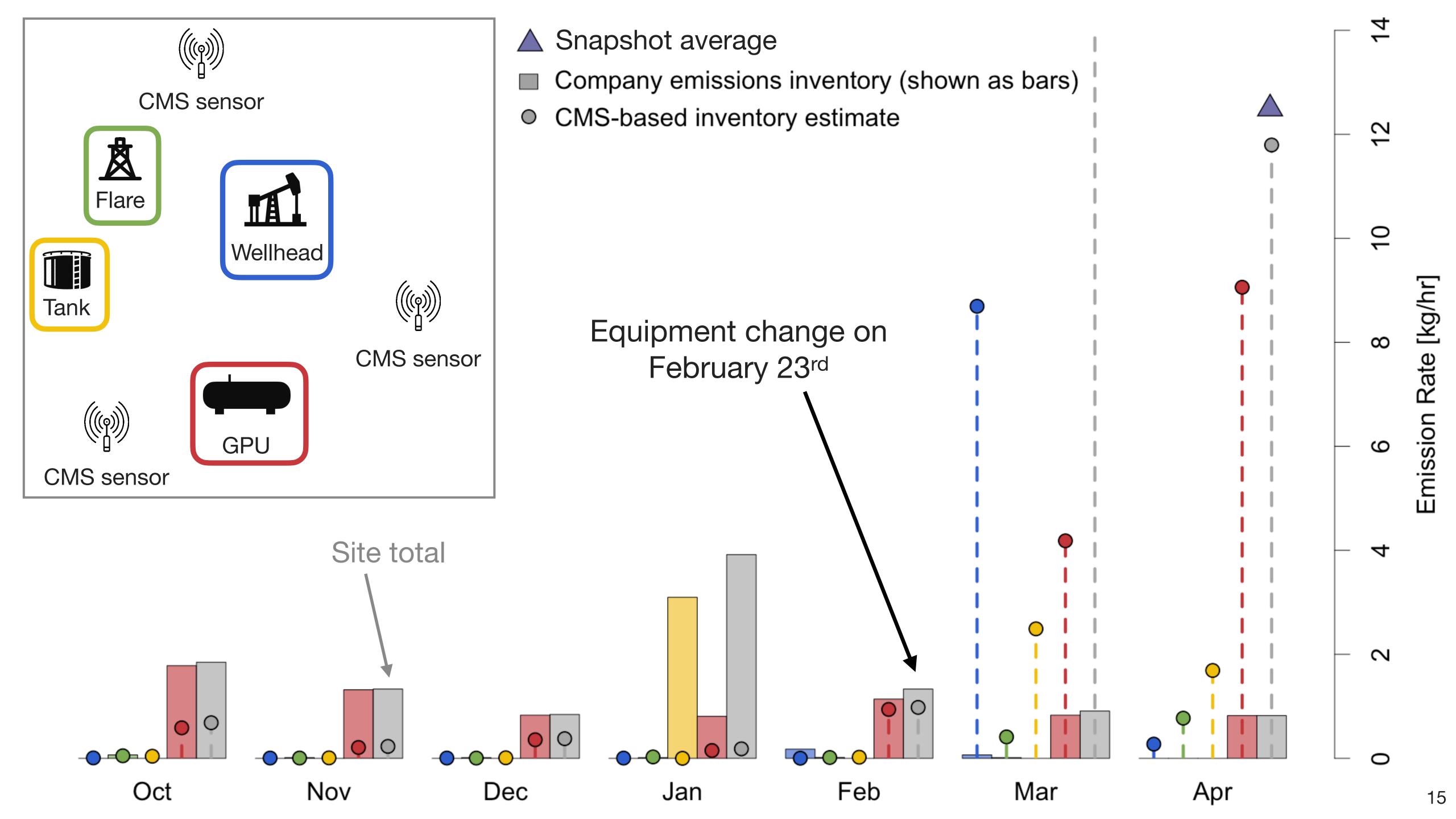


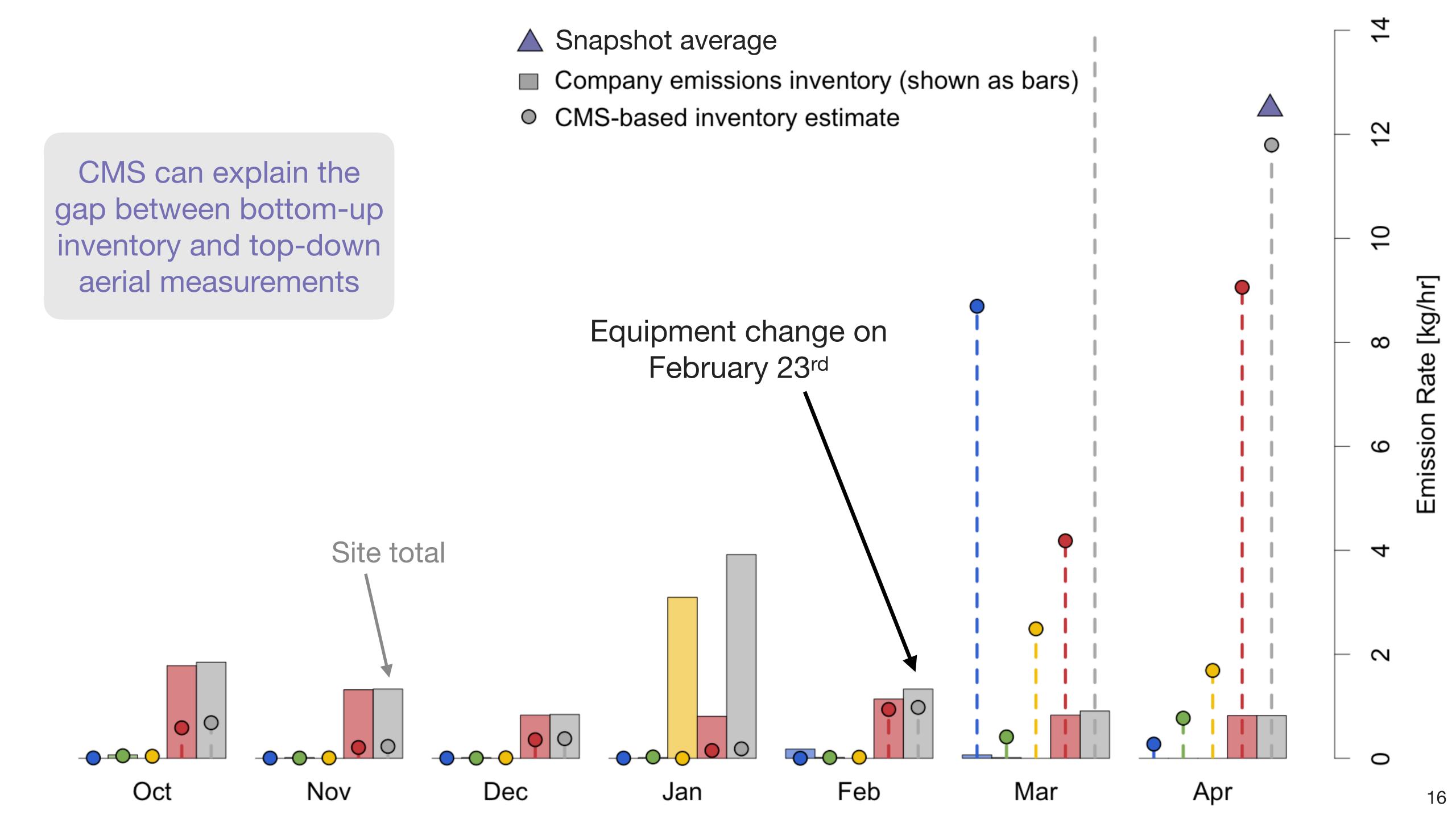












CMS Series #2:

Reconciling aerial measurements and bottom-up inventories

Towards multiscale measurement-informed methane inventories: reconciling bottom-up site-level inventories with top-down measurements using continuous monitoring systems.

William Daniels, Jiayang (Lyra) Wang, Arvind Ravikumar, Matthew Harrison, Selina Roman-White, Fiji George, Dorit Hammerling. *Environmental Science and Technology*, 57(32), 11823-11833, (2023).

Multi-scale methane measurements at oil and gas facilities reveal necessary framework for improved emissions accounting.

Jiayang (Lyra) Wang, William Daniels, Dorit Hammerling, Matthew Harrison, Kaylyn Burmaster, Fiji George, Arvind Ravikumar. *Environmental Science and Technology*, 56(20), 14743-14752, (2022).

Thank you!







