



CH<sub>4</sub>

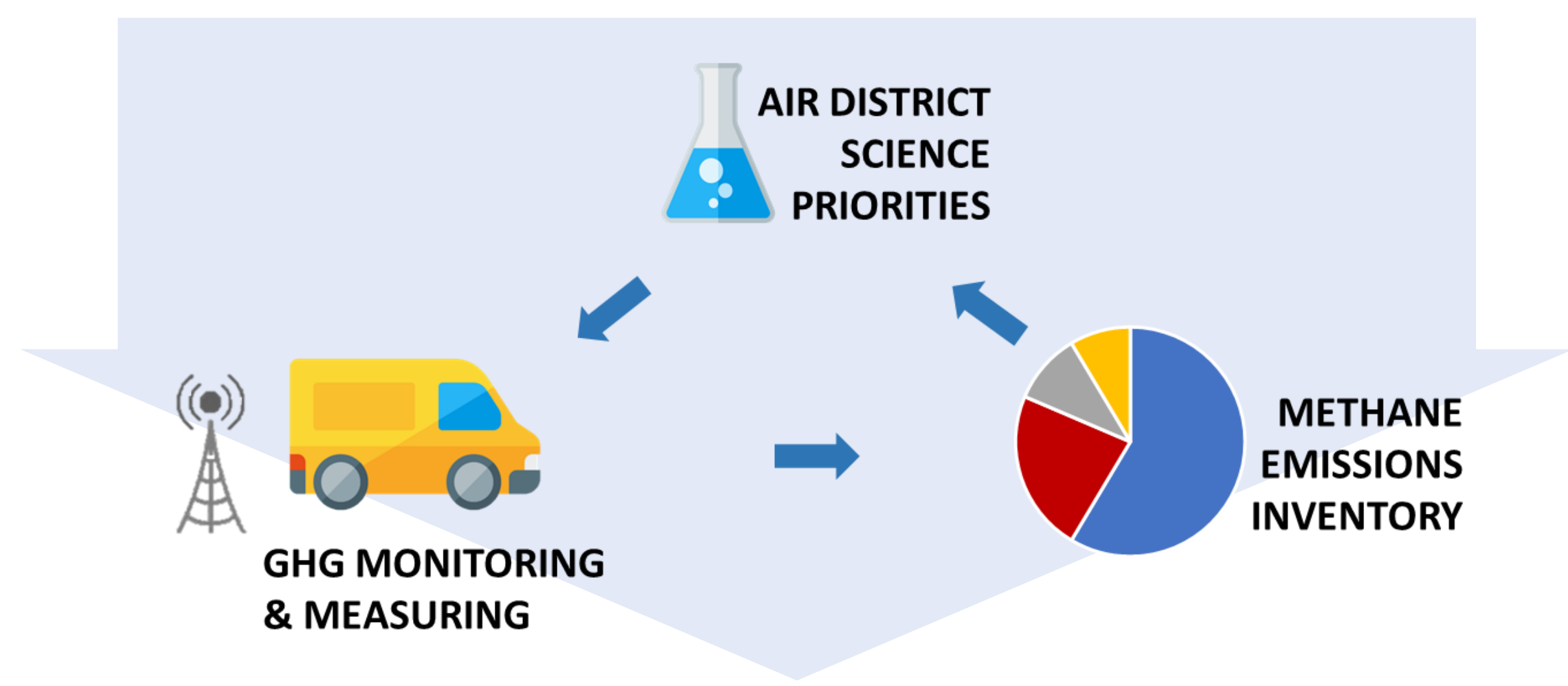
# AIR DISTRICT'S METHANE STRATEGY

## WHY FOCUS ON METHANE (CH<sub>4</sub>)?

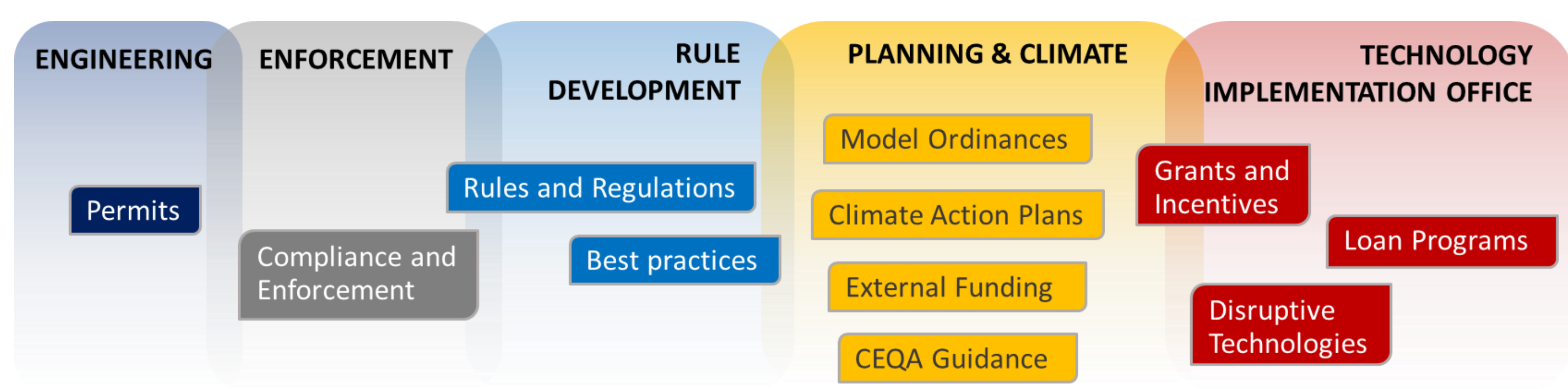
*It's A High Impact Strategy to Address Climate Change*

- It is 86 times more potent than carbon dioxide (CO<sub>2</sub>) [on a 20-year horizon]
- It is removed faster than CO<sub>2</sub> from the atmosphere
- Public health and further climate benefits may result from reduction of co-pollutants
- Economic benefits are expected from recovered energy and products
- Air Districts support State's CH<sub>4</sub> emissions reduction goal of 40% by 2030 (SB 1383)
- Air District has clear authority to regulate methane

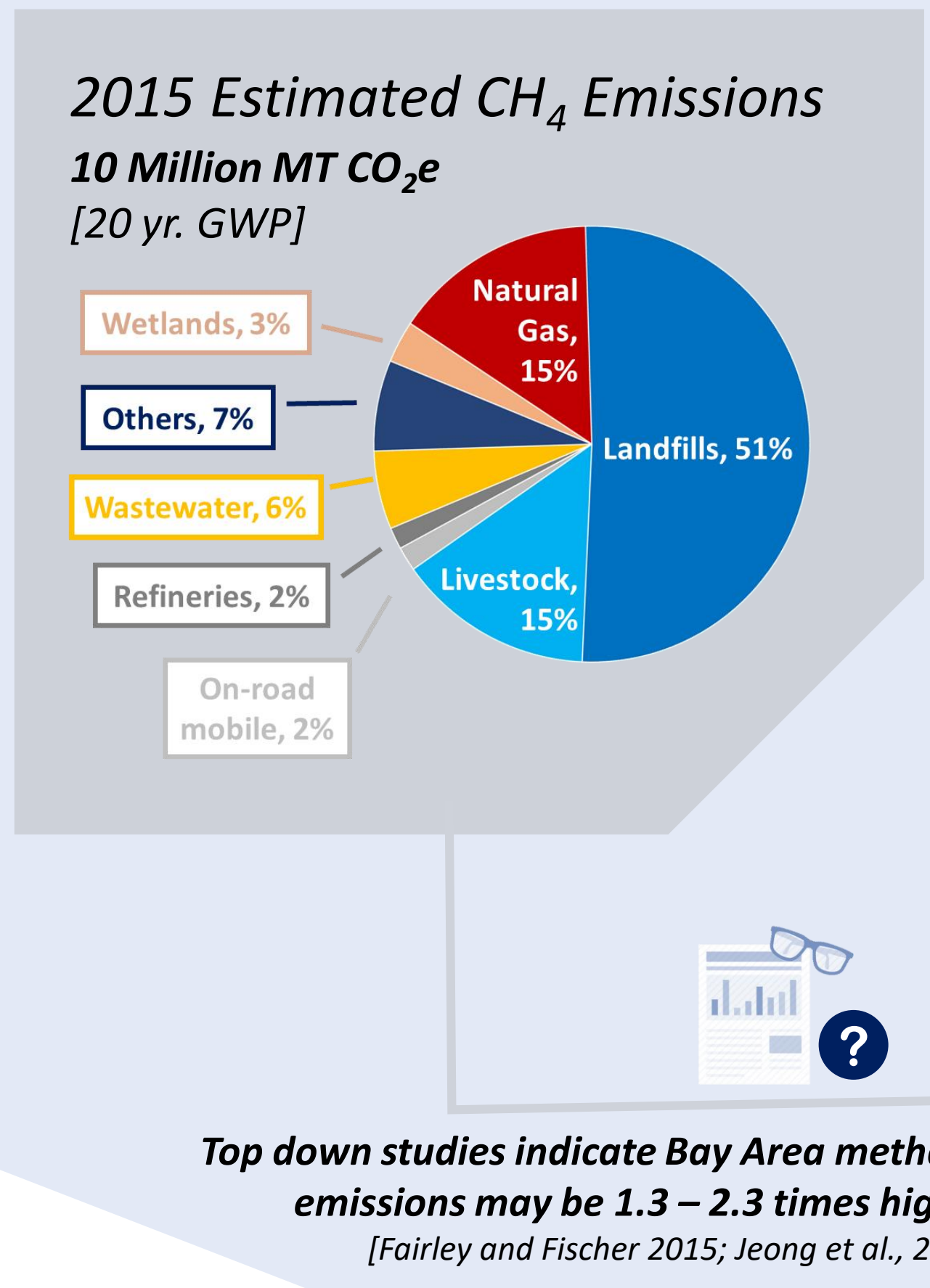
## METHANE QUANTIFICATION EFFORTS



## METHANE REDUCTION EFFORTS



## METHANE QUANTIFICATION EFFORTS



### Tiered Approach to Quantify Underestimated CH<sub>4</sub> Sources

- 1** "Methane curtain flights" estimate mass emissions at the facility level  
 An aircraft equipped with a methane instrument flies concentric circles around facility at different altitudes. Facility emissions are estimated assuming all methane passes through this "curtain".
- 2** Aircraft imaging surveys identify methane sources inside facilities  
 To identify large methane plumes, NASA JPL uses an airborne imaging spectrometer to survey vast areas of California with key infrastructure, such as landfills and natural gas pipes.
- 3** On-site leak detection (mobile van) and quantification (source testing)  
 The Air District uses different tools to quantify methane emissions from processes or equipment at facilities.

## METHANE REDUCTION EFFORTS



### ORGANICS RECOVERY STRATEGY

*Supporting the State's diversion goals while protecting public health*



#### CORE VALUES

- Support 50% organics diversion by 2020 and 75% by 2025
- Methane reduction without net greenhouse gas increase
- Robust local infrastructure and resilient supply chains
- Healthy regional and neighborhood air quality
- Partnership and ongoing learning

### METHANE RULE DEVELOPMENT

*Systematically Reducing Methane Emissions*

