

South Coast Air Basin

* Los Angeles

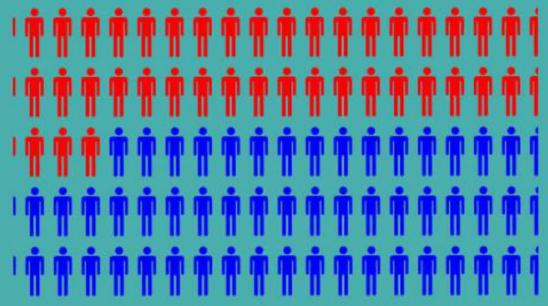
* Orange

* Riverside

* San Bernardino







South Coast Air Basin

Counties of

* Los Angeles

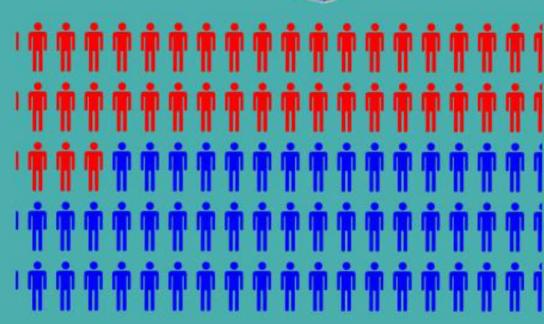
* Orange

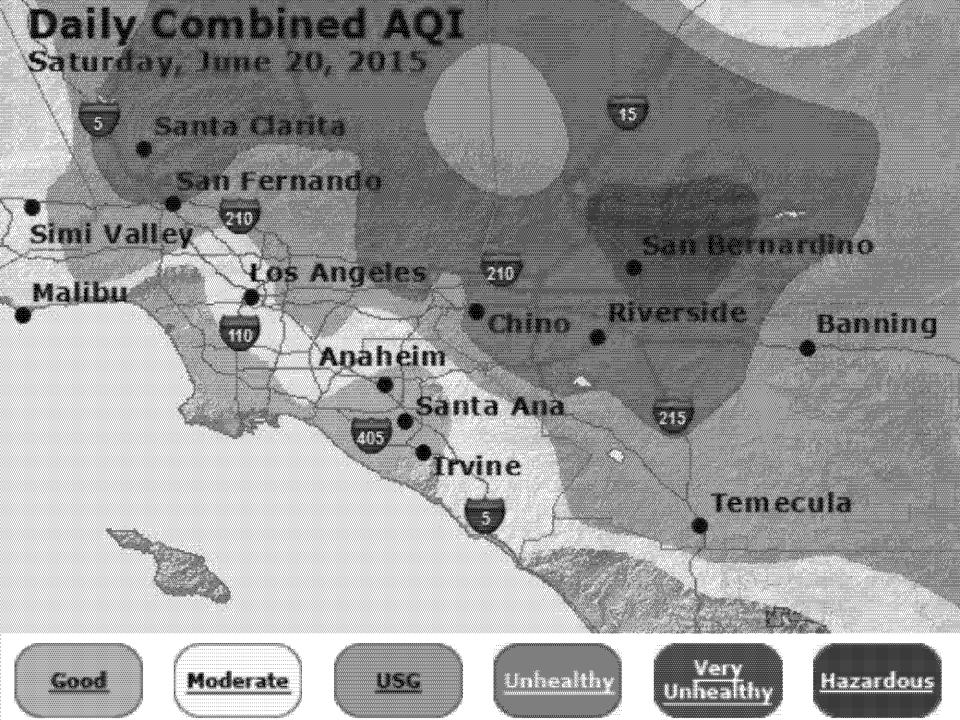
* Riverside

* San Bernardino

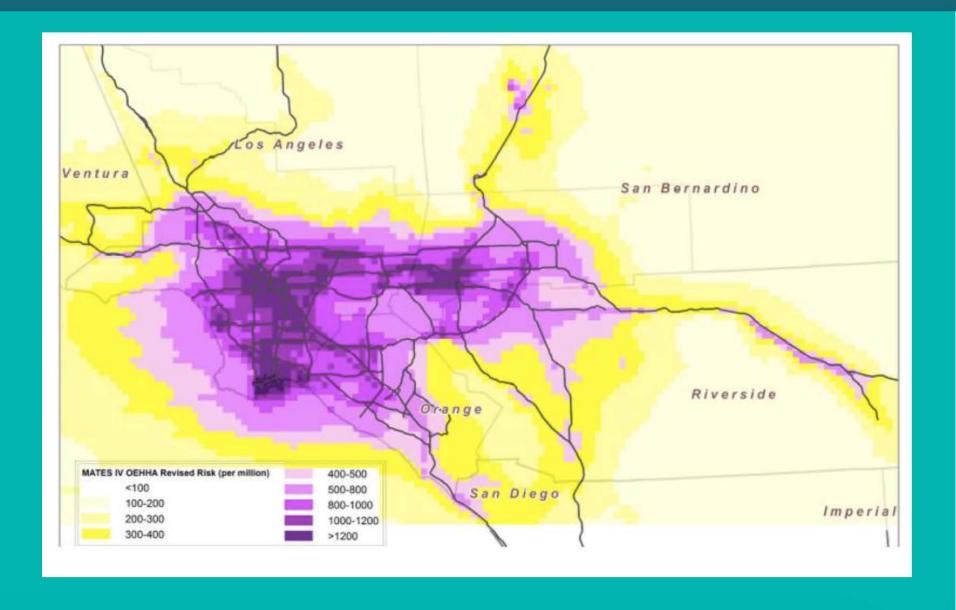








Risk with New OEHHA Methodology



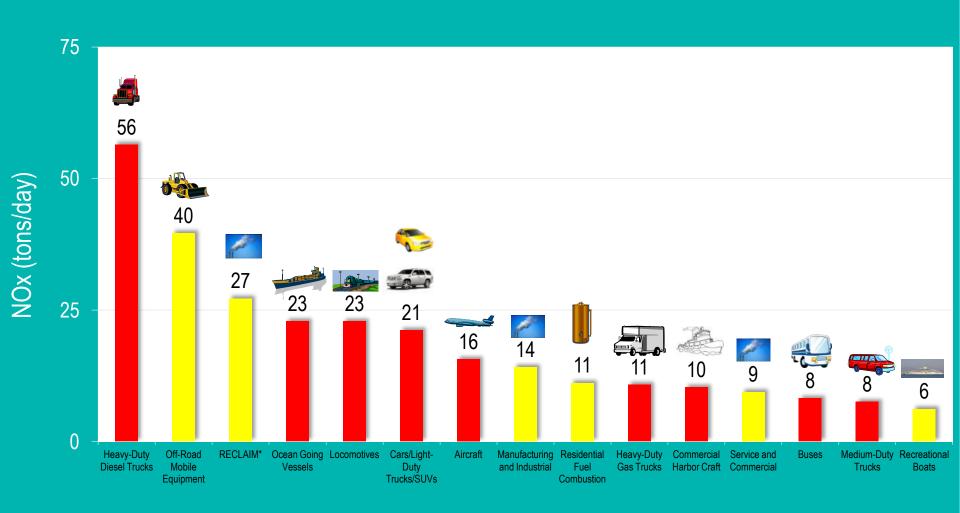


Additional costs include

- Hospitalization
- 13 s espiratory illness
 - School absences
 - Lost workdays

Source: SCAB cardiopulmonary mortality estimate: CARB 2015

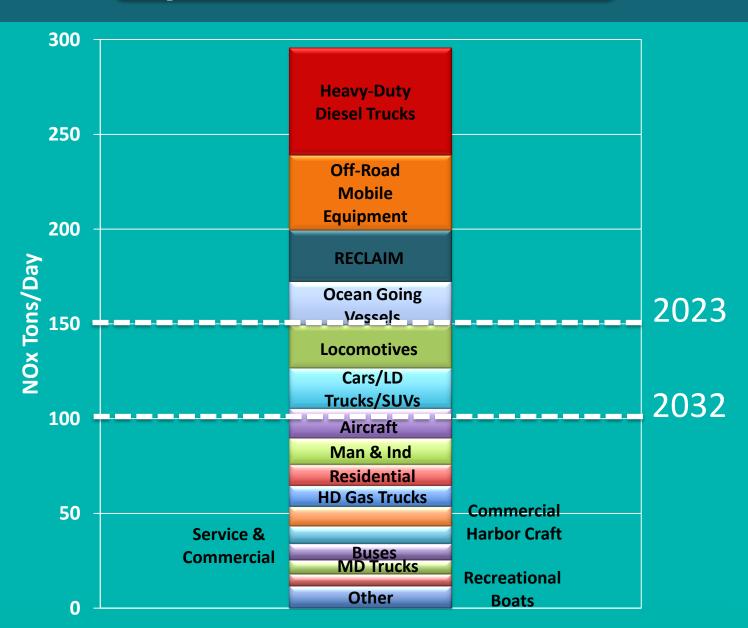
Top NOx Sources in 2023



*RECLAIM: 320 largest stationary sources, including all refineries and power plants

Source: Draft 2016 AQMP Emissions Inventory – June 2015

Top NOx Sources in 2023

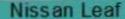


Zero Emission Mile Vehicles

MY 2015













Ford Fusion Energi



Ford CMax Energi



Toyota Prius Plug-in



Fiat 500e



BMW i3



Chevy Spark EV



Kia Soul EV



Hyundai Tucson Fuel Cell



Tesla Model S



Mercedes B Class



VW eGolf



HD NG Engines



Westport

8.9L



12L











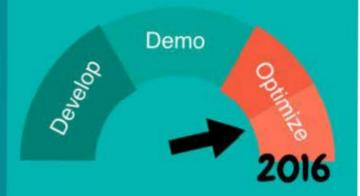




























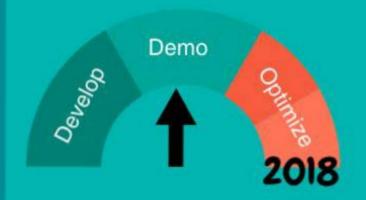














HD Plug-in Hybrids









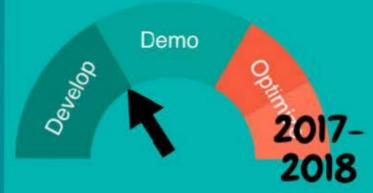














BAE SYSTEMS



eHighway

- Three different architectures
 - Diesel hybrid











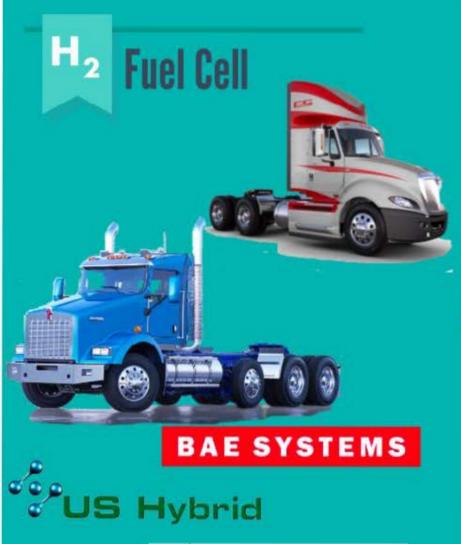
- Trucks can be used on or off catenary
- Investigate local and regional applicability















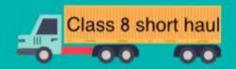


















Takeaways

- Criteria pollutant/toxics reductions needed now
- Technology advancements occurring
- Portfolio of architectures must be examined
- Same technologies mitigate climate change
- Will need political will and \$\$\$





