



2020 CARB Program Priorities

Air Quality and Climate Progress Amidst Changing Landscapes

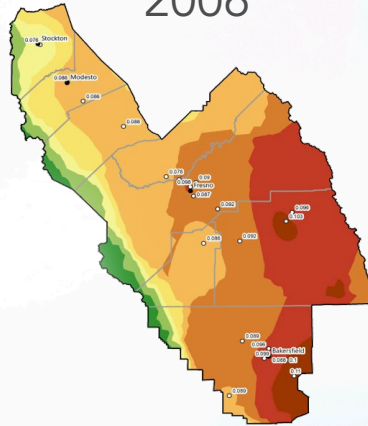
2019 Accomplishments

- ✓ Implemented AB 617 Community Air Protection Program
- ✓ Executed Scoping Plan and State Implementation Plans
- ✓ Approached Transportation Holistically
- ✓ Progressed Towards Carbon Neutrality
- ✓ Strengthened Collaboration with States and Nations

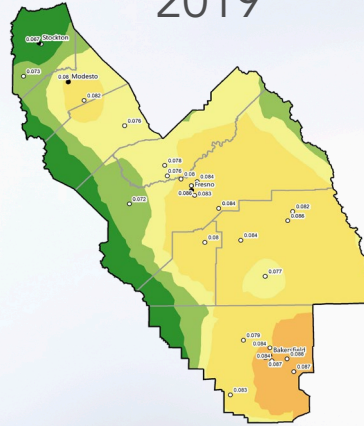
Ozone Progress

San Joaquin
Valley

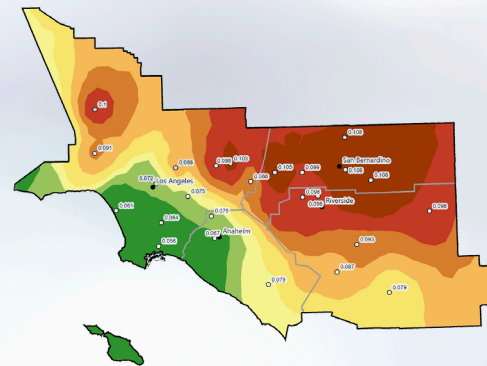
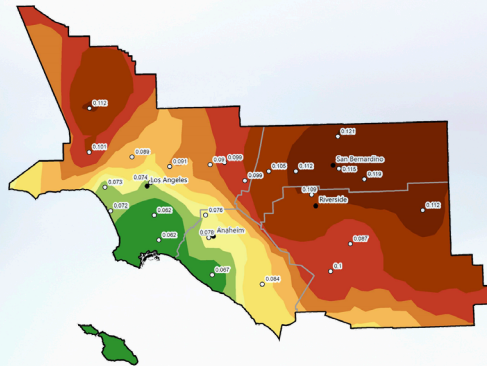
2006



2019



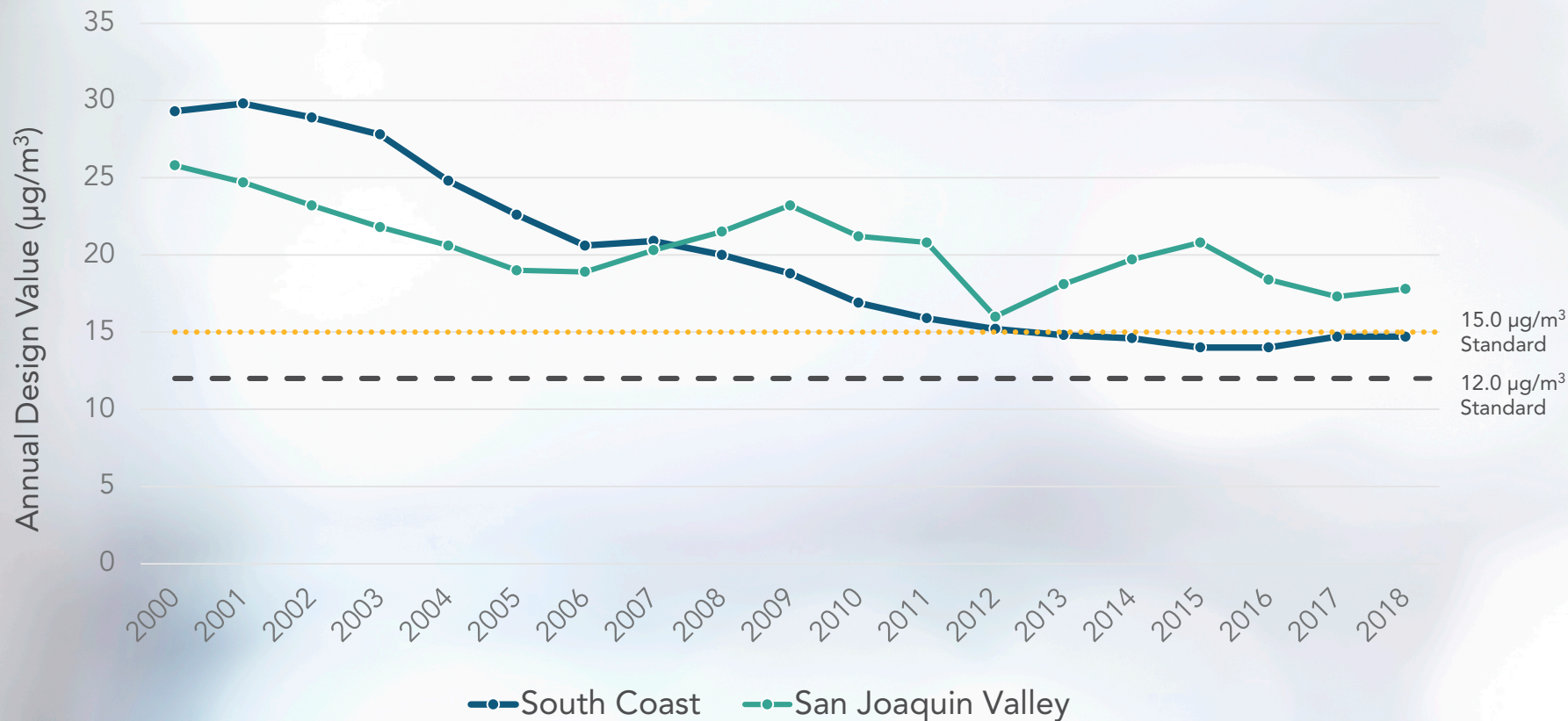
South Coast



Ozone (ppm)
8-hr Design Values



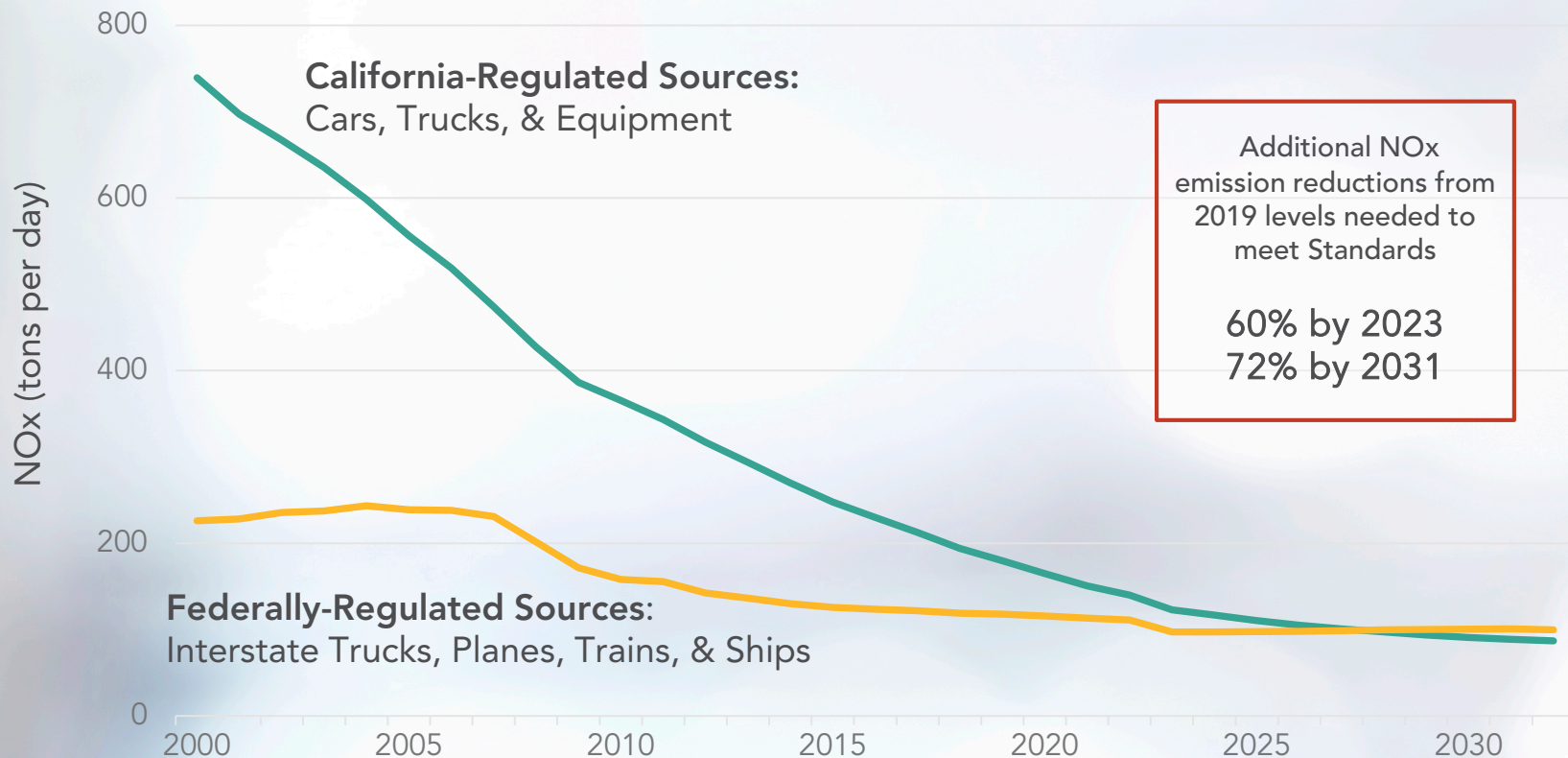
PM_{2.5} Progress



Air Quality and Climate Challenges

- Attaining Ozone Standards in 2023 and 2031 in South Coast
- Attaining PM_{2.5} Standards in 2024 and 2025 in San Joaquin Valley
- Reducing disproportionate air quality burden in highly impacted communities
- Accelerating GHG emission reductions to meet climate goals
 - └ 40% below 1990 levels by 2030 and carbon neutral by 2045
- Climate change exacerbates air quality challenges

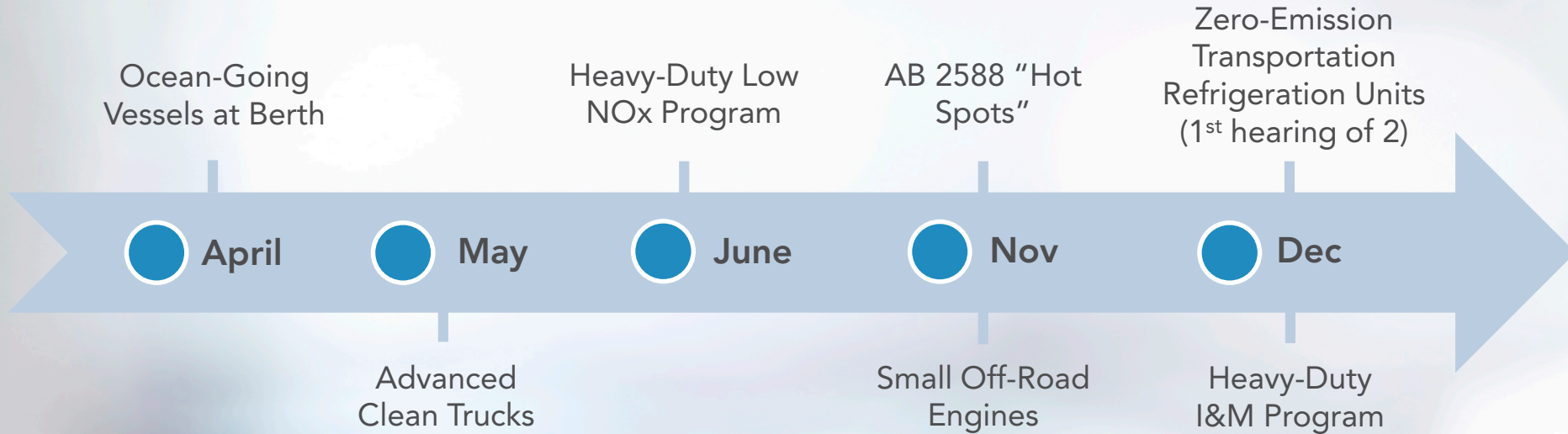
South Coast Highlights Need for Federal Action



2020 Priorities



Major Upcoming Regulatory Board Items



Governor's Proposed Climate Budget

- Integrated, collaborative, comprehensive investments in climate mitigation and adaptation:
 - Climate Resiliency Bond – \$4.75B over 5 years
 - Greenhouse Gas Reduction Fund
 - Climate Catalyst Fund – \$1B over 5 years
 - General Fund and Other Expenditures – \$466M

GGRF Expenditure Plan for CARB

(Dollars in Millions)

Program	Actual 19-20	Proposed 20-21
AB 617 - Community Air Protection	\$245	\$200
AB 617 – Local Air District Implementation	\$20	\$25
AB 617 – Technical Assistance to Community Groups	\$10	\$10
Clean Vehicle Rebate Program	\$238	\$125
Clean Trucks, Buses, and Off-Road Freight Equipment	\$182	\$150
Transportation Equity Projects	\$65	\$75
Agricultural Diesel Engines (FARMER)	\$65	\$50
Total	\$825	\$635

Driving for Cleaner Transportation

Testing and Promoting Cleaner Technologies



Low NOx Heavy-Duty
and Off-Road Engines



Zero-Emission Vehicle
Infrastructure



Zero-Emission Lawn
Equipment Program

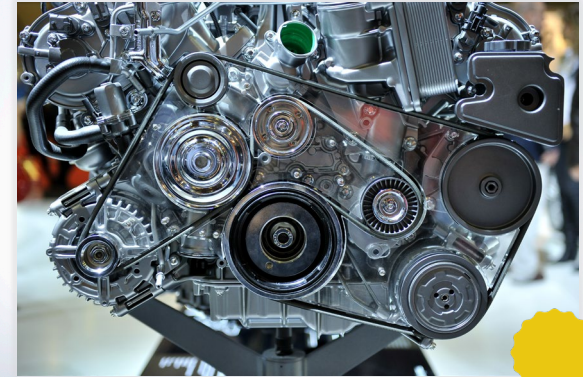
Establishing New Regulations and Benchmarks



Advanced Clean Trucks



Clean Miles Standard



Powertrain Certifications

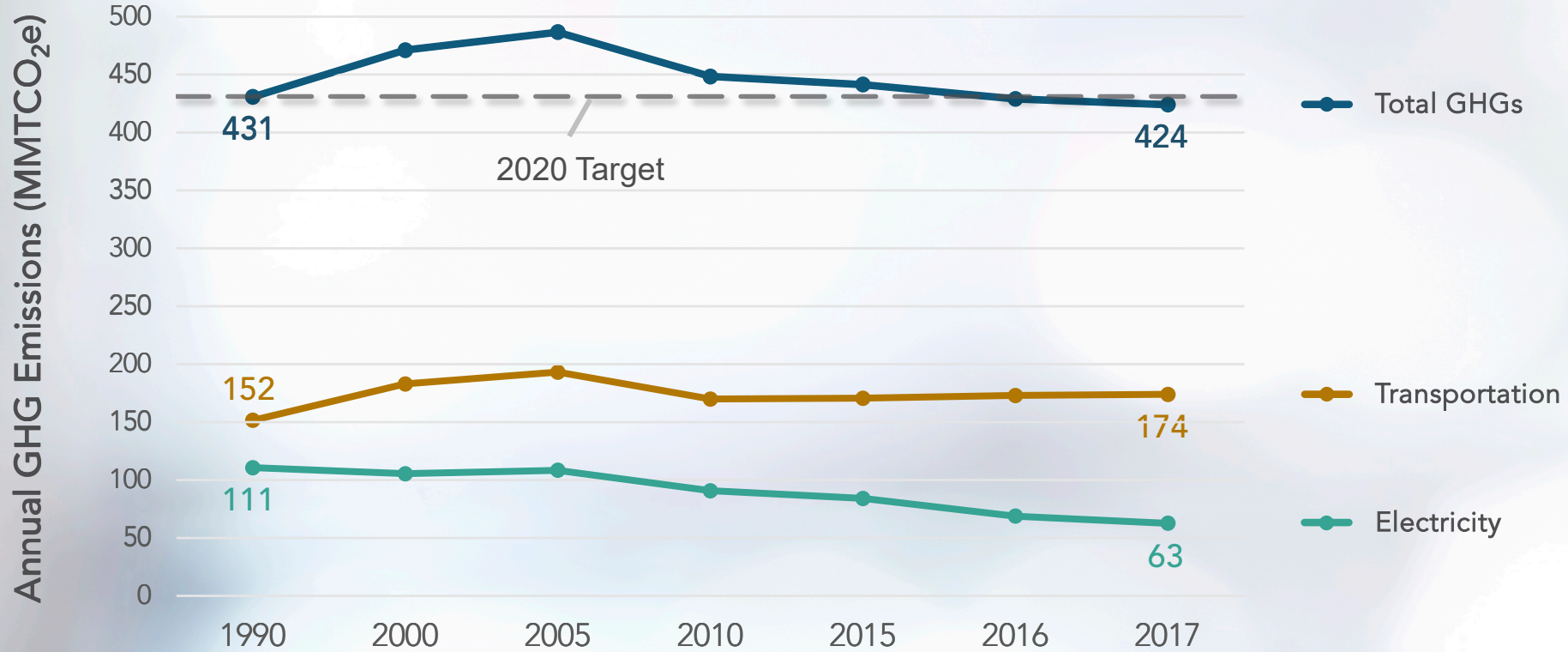
Reducing VMT

- Improving link between transportation, housing, and climate policies through State agency collaboration
- Tracking regional progress on sustainable community goals
- Expanding research on travel behavior and strengthen tools
- Evaluating transportation and land use development projects



Continuing Climate Progress

Achieving GHG Targets



Climate Programs Update



Over \$2.6B invested in priority communities



Over 628,000 ZEVs and plug-in hybrids deployed



Estimated 14.3B gallons of petroleum-based fuels displaced



Over 11,000 methane leaks repaired



Estimated 34% of electricity generated from renewable sources

Achieving Carbon Neutrality Goal

Increase pace of GHG reductions

- Fossil energy and industry with transportation focus
- Natural and working lands

Increase sequestration

- Natural and working lands
- Carbon capture
- Direct air capture



Promoting Community-Driven Air Quality Solutions

AB 617 Community Air Protection Progress

- 10 initial communities selected by Board in 2018
- Implementing 7 Air District-approved Community Emissions Reduction Programs
- Expanding program with 3 new communities:
 - Southwest Stockton
 - Eastern Coachella Valley
 - South East Los Angeles



Focus on Toxics at Community Level

- Control Measure for Ocean-Going Vessels at Berth
- Zero-Emission Transportation Refrigeration Units Regulation
- AB 2588 "Hot Spots" Amendments
- Criteria and Toxics Reporting Regulation



Minimizing Freight Impacts on Communities



Locomotive and Railyard



Commercial Harbor Craft



Freight Handbook

Supporting Communities with Improved Data Access

- Study of Neighborhood Air near Petroleum Sources (SNAPS) launched
- Enforcement Data Visualization System launched
- AB 617 tools under development
 - Community Air Quality Viewer (AQview)
 - Emissions Inventory
 - Technology Clearinghouse



Investing with Communities

- Community Air Protection Funds
- Clean Mobility Options
- Sustainable Transportation Equity Project (STEP)
- Continue strengthening relationships with community organizations



Strengthening Environmental Justice

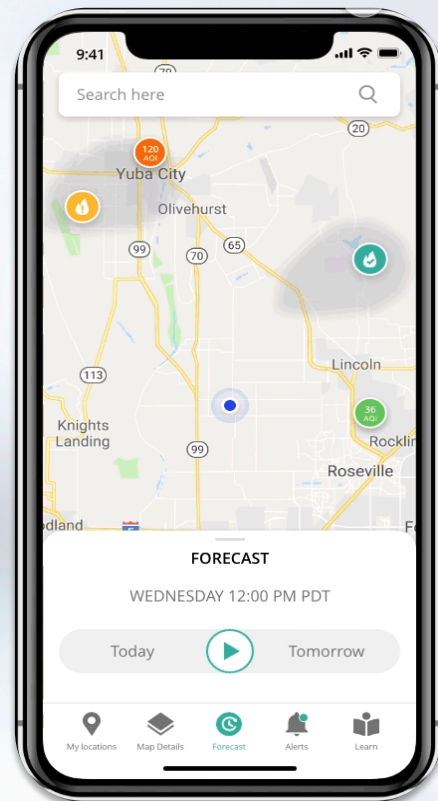
- AB 1628 (Rivas) – Revised “Environmental Justice” definition
- Community Air Grants 2019 (2nd year)
 - 29 projects across seven air districts awarded \$5 million in funding
- California-Mexico Border Emissions Reduction



Assessing Wildfire Impacts

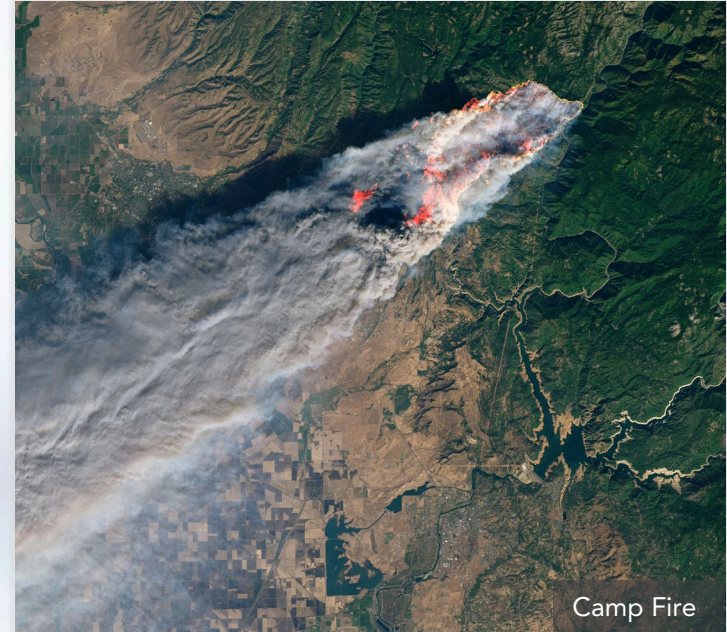
Mitigating Smoke Exposure

- Public safety power shutoffs
- Clean Air Shelters Pilot Program (AB 836)
- Developing wildfire smoke air pollution emergency plan with air districts
- Smoke App launches in 2020



Improving Exposure Estimates

- Improving wildfire emissions inventory
- Emerging research on air quality impacts of wildfires
- Launched Prescribed Fire Monitoring Program



Strengthening Our Organization

New Leadership

Executive Office



Annette Hebert

Emissions Certification & Compliance



Allen Lyons

Industrial Strategies



Rajinder Sahota

New Leadership

Mobile Source
Laboratory



Mark Fuentes

Research



Elizabeth Scheehle

Sustainable Transportation
& Communities



Jennifer Gress

Transportation
& Toxics



Heather Arias

Looking to the Future



- Emerging Leaders
- Career Center
- Succession Planning
- Addressing Diversity



Leveraging New Data and Approaches

- Big Data and Machine Learning
- Satellite data
- Expanding meteorological and GHG measurements
- Low-cost sensors
- Automated License Plate Readers + Portable Emissions Acquisition Systems



Collaborating for Success



- Air Districts
- Industry
- Researchers
- State and Federal Agencies
- Community Organizations
- Small Businesses