



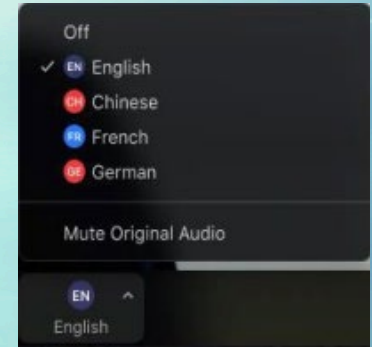
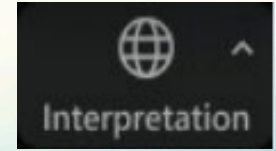
# **2022 State Strategy for the State Implementation Plan**

Public Workshop

July 27, 2021

# Zoom Language Selection

- Click “Interpretation” found at the bottom of the screen
- Click the language you would like to hear: English or Spanish.
- To only hear interpreted language (Spanish), click “Mute Original Audio”



# Zoom Webinar Details

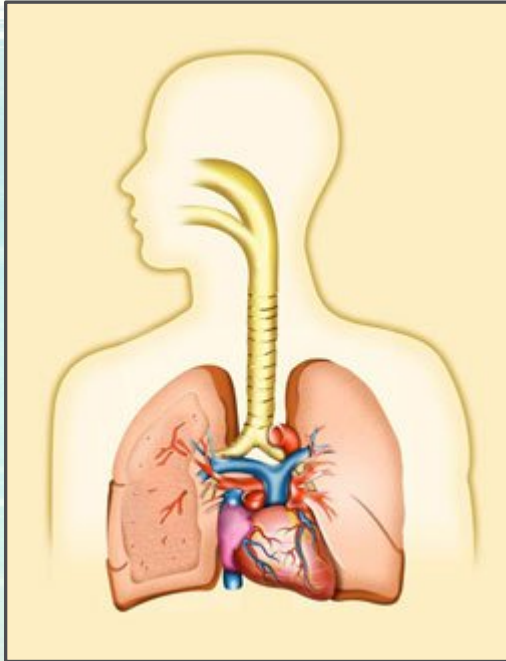
- Telephone Call-in: (877) 336-1831  
Access Code: 7673700
- Questions will be taken in the middle and at the end of the presentation
  - In Zoom: Use "Raise Hand" feature, or type in "Q&A" box
  - On phone:
    - #2 to "Raise Hand"
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# Today's Agenda

- Background and Purpose
- Progress since the 2016 State SIP Strategy
- Potential 2022 State SIP Strategy Measures
- Economic Analysis
- CEQA Environmental Analysis
- Moving Forward

# Background and Purpose

# Ground-level Ozone and Health



<https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution>

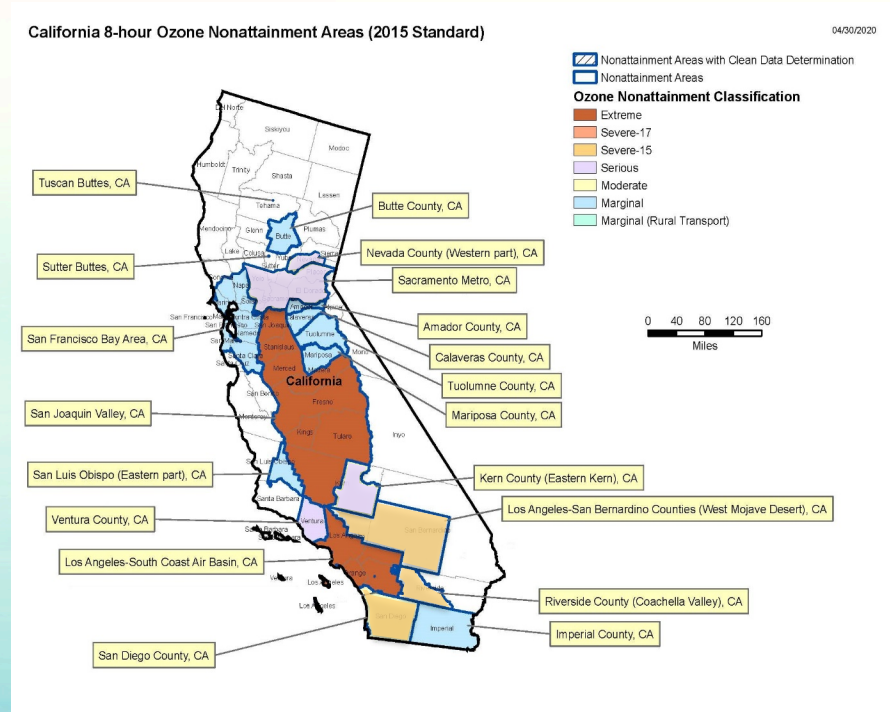
Health effects of ozone exposure:

- Respiratory symptoms
- Worsening of lung disease leading to premature death
- Damage to lung tissue



# 70 ppb 8-hour Ozone Standard

- U.S. EPA revised the 8-hour ozone standard to 70 ppb in 2015
- 19 areas in California are designated nonattainment
- State Implementation Plan (SIP) revisions required are dependent on classification



# Nine Areas Need an Attainment Plan

Nonattainment Area	Classification	Attainment Year
South Coast Air Basin	Extreme	2037
San Joaquin Valley	Extreme	2037
Western Mojave Desert	Severe	2032
Coachella Valley	Severe	2032
San Diego County	Severe	2032
Ventura County	Serious	2026
Sacramento Metro	Serious*	2026
Eastern Kern County	Serious*	2026
Western Nevada County	Serious*	2026

\*Pending U.S. EPA approval



# Attainment Plans and 2022 State SIP Strategy



# SIP Process has Significantly Improved California Air Quality

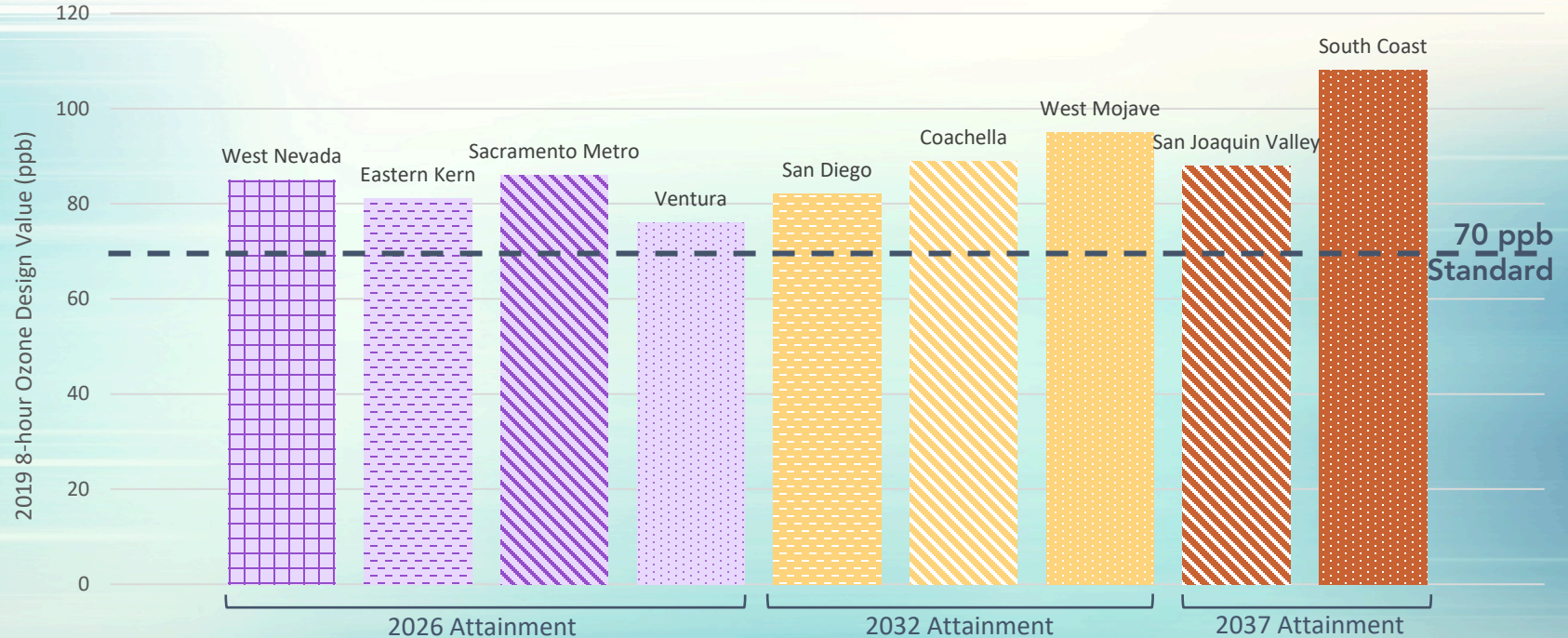


# Additional Progress is Needed

Nonattainment Area	Classification	2019 Design Value ppb
South Coast Air Basin	Extreme	108
San Joaquin Valley	Extreme	90
Western Mojave Desert	Severe	95
Coachella Valley	Severe	89
San Diego County	Severe	80
Ventura County	Serious	76
Sacramento Metro	Serious*	86
Eastern Kern County	Serious*	81
Western Nevada County	Serious*	85

\*Pending U.S. EPA approval

# Looking towards Attainment



# Shared Responsibilities

## FEDERAL



### US EPA

Sets & enforces national air quality standards.  
Regulates interstate transportation.



TRAINS



PLANES



SHIPS

## STATE



### CALIFORNIA AIR RESOURCES BOARD

Regulates mobile sources of air pollution,  
greenhouse gases & consumer products.



CARS



TRUCKS



BUSES

## LOCAL



### Local Air Districts

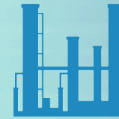
Regulates stationary & local  
sources of air pollution.



FIREPLACES



FACTORIES



REFINERIES

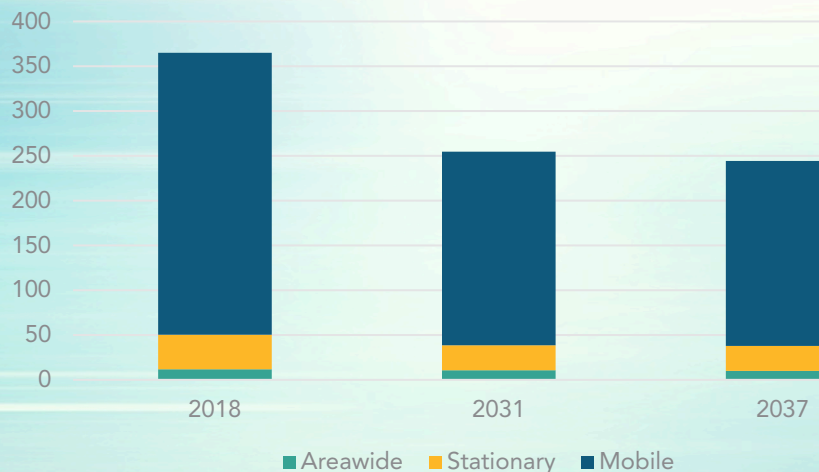


POWER PLANTS

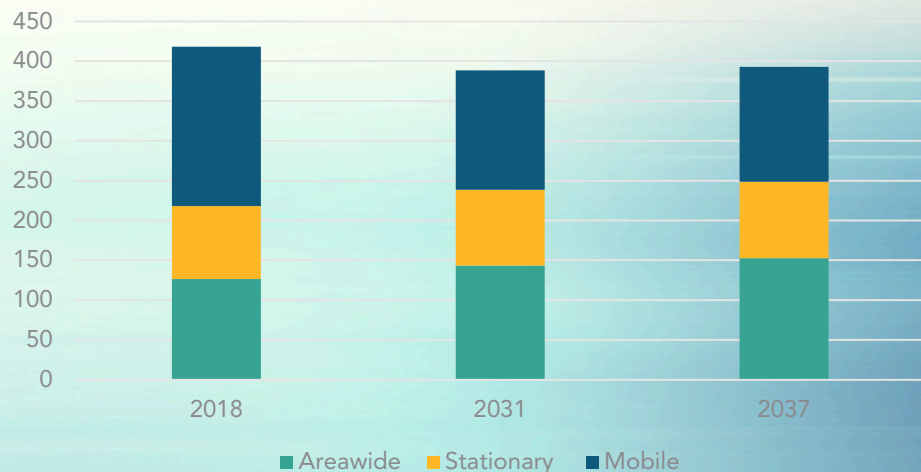
# South Coast Air Basin

## Extreme Nonattainment Area

NOx (tpd)



ROG (tpd)



Baseline emissions inventory including adopted control programs



# San Joaquin Valley

## Extreme Nonattainment Area



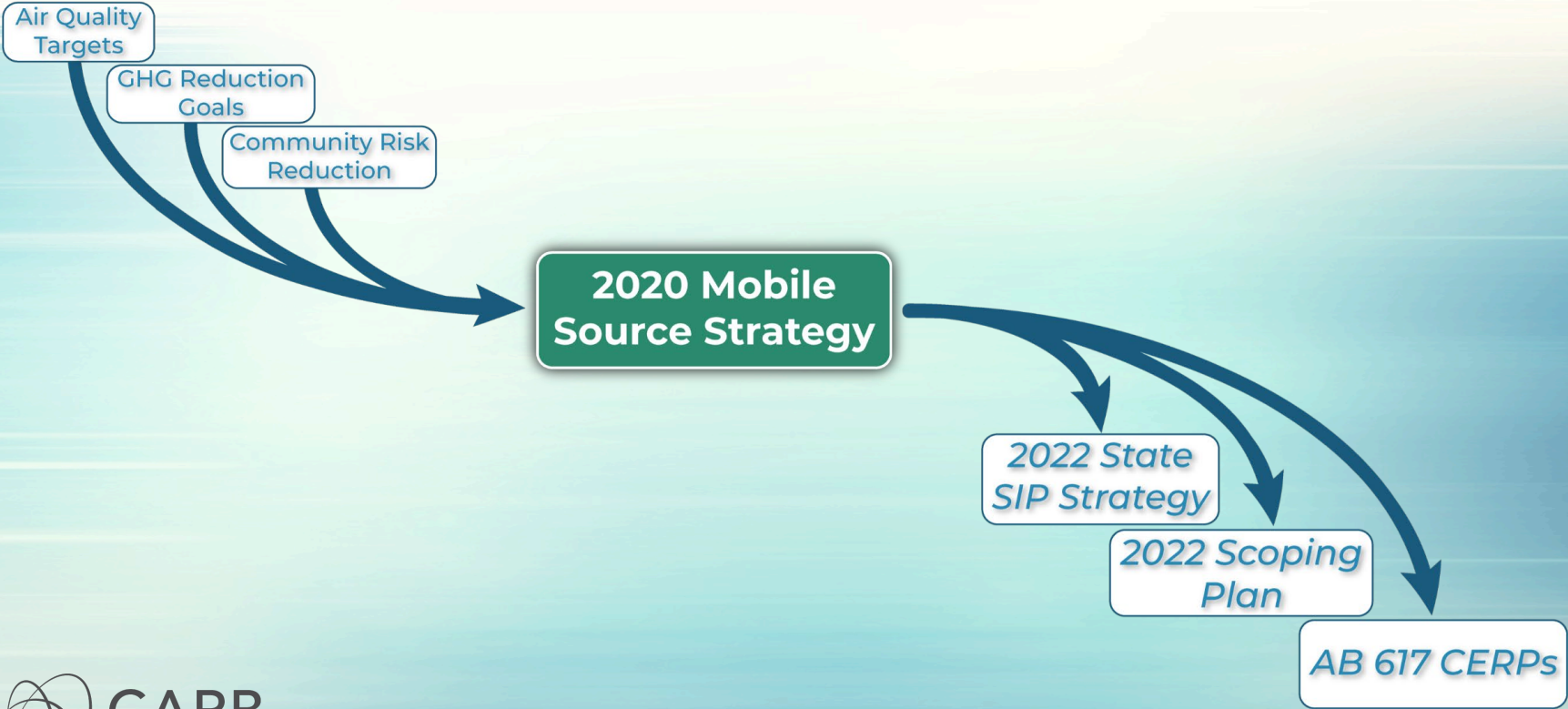
Baseline emissions inventory including adopted control programs

# Supporting Emissions Reductions in Communities

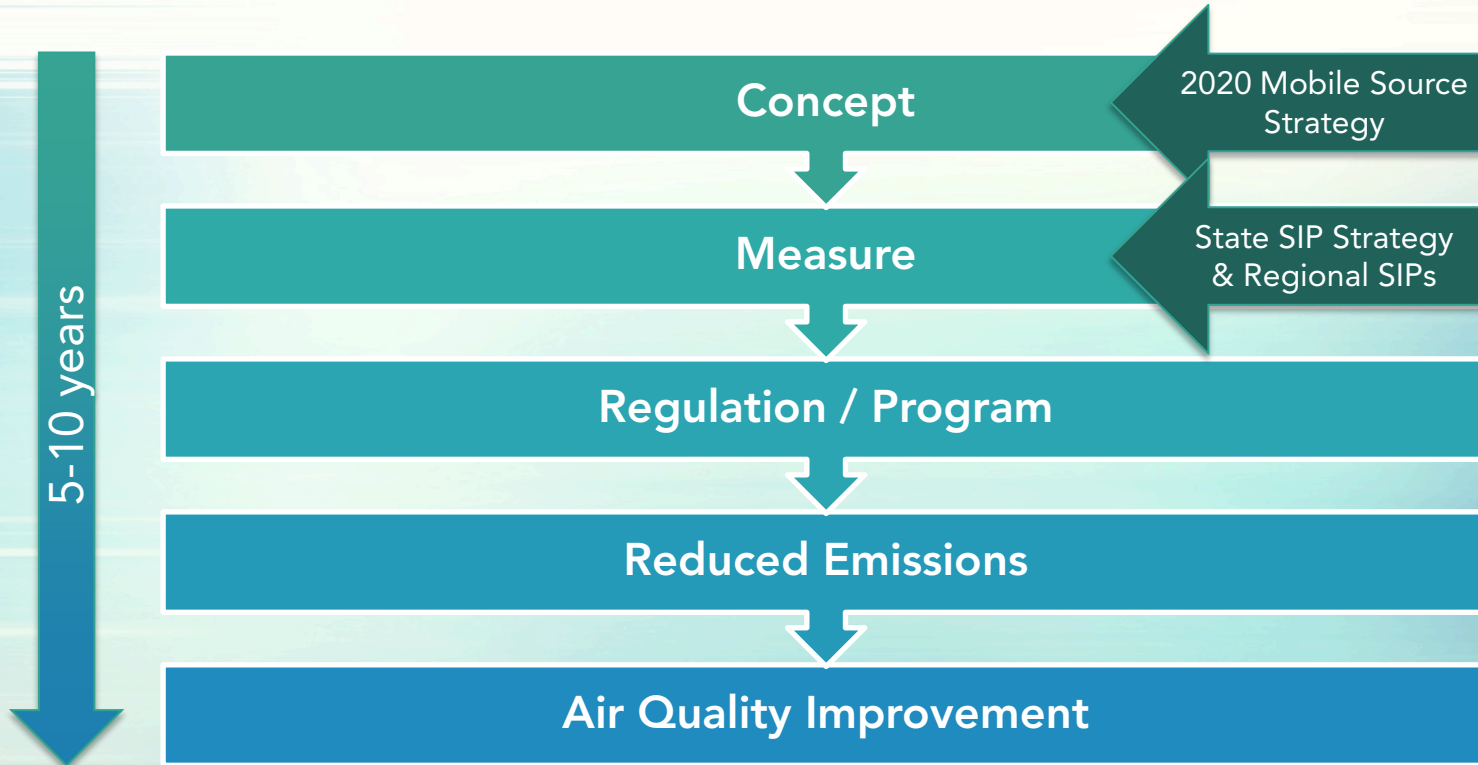


- Potential 2022 State SIP Strategy measures could reduce emissions in priority communities
- SIP will support AB 617 strategies & provide opportunities to accelerate benefits in priority communities

# Coordinated Planning



# Evolution of a Concept



# Incentives Key to Regulation Development

Pre-commercial  
demonstration  
project  
incentives

Early Pilot  
Demonstration  
Project  
Incentives

Broad Purchase  
Incentive

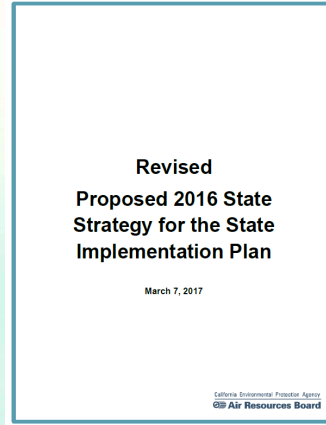
Regulation

# Progress since the 2016 State SIP Strategy



# 2016 State SIP Strategy

- 2016 State SIP Strategy was developed to support attainment of the 75 ppb 8-hour ozone standard
- CARB has adopted or is pursuing adoption of all control measures



# Adopted Measures

Measures	Adoption	Implementation
Amendments to HDVIP and PSIP (Lower In-Use Emission Performance Level)	2018	2019
Heavy-Duty GHG Phase 2	2018	2020
Innovative Clean Transit	2018	2023
South Coast On-Road Heavy-Duty Vehicle Incentive Measure	2018	2019
San Joaquin Valley Agricultural Equipment Incentive Measure 1	2019	2015
Zero-Emission Airport Shuttle Bus Regulation	2019	2027
Ocean Going Vessels At Berth	2020	2024
Heavy-Duty Omnibus (Low-NOx Engine Standard)	2020	2024
Advanced Clean Trucks (Last Mile Delivery)	2020	2024

# Measures Still in Development

Measures	Adoption	Implementation
Heavy-Duty Inspection & Maintenance Program	2021	2023
Small Off-Road Engines	2021	2024
Transport Refrigeration Units	2021	2024
Advanced Clean Cars II	2022	2026
Zero-Emission Forklift	2022	2025

# Questions?

Zoom:  
type in "Q&A" box

<https://ww2.arb.ca.gov/resources/documents/2022-state-strategy-state-implementation-plan-2022-state-sip-strategy>

# Potential New Measures for the 2022 State SIP Strategy

# On-Road Mobile Sources

- Clean Miles Standard Regulation
- Advanced Clean Fleets Regulation
- Greenhouse Gas Emissions Standards for Medium- and Heavy-Duty Engines and Vehicles (Phase 3)
- On-Road Motorcycles New Emissions Standards





# Off-Road Equipment

- Amendments to the In-Use Off-Road Diesel Fuel Fleets Regulation
- Tier 5 Off-Road New Compression-Ignition Engine Standards
- Off-Road Zero-Emission Targeted Manufacturer Rule
- Amendments to the Commercial Harbor Craft Regulation



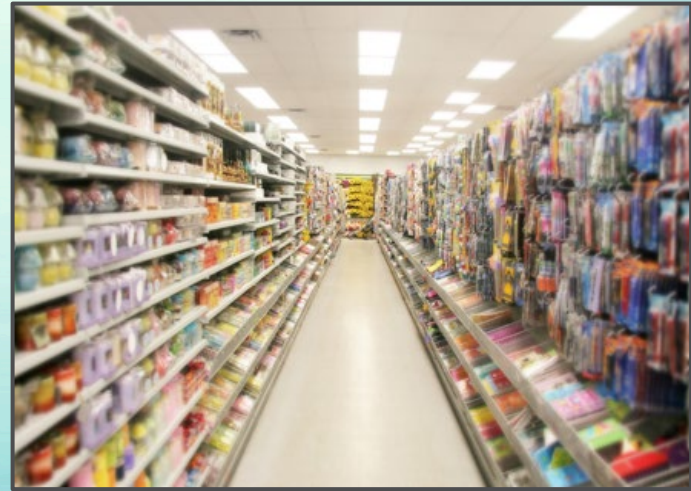
# Off-Road Equipment

- Amendments to the Mobile Cargo Handling Equipment Regulation
- Clean Off-Road Fleet Recognition Program
- Clean Off-Road Equipment Voucher Incentive Program – Construction (CORE-CON)



# Other Sources

- Spark-Ignition Marine Engine Standards
- Amendments to the Consumer Products Regulation



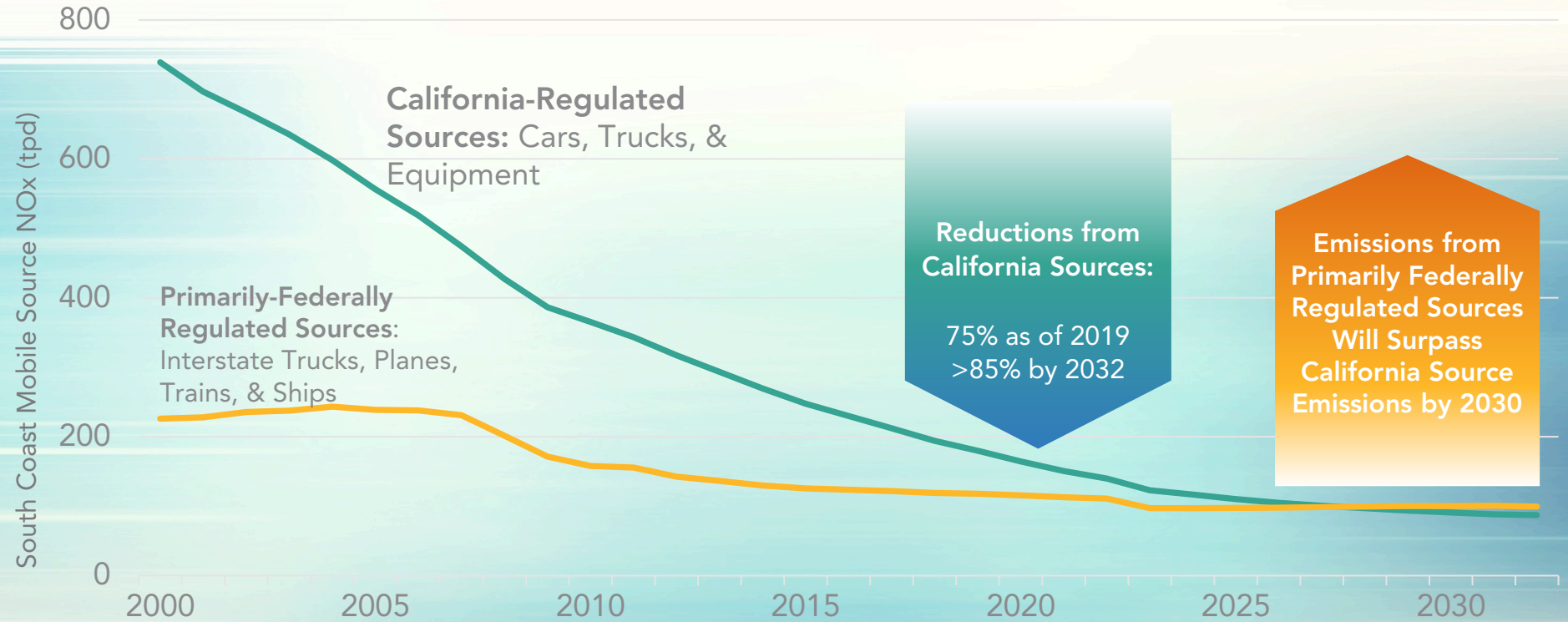


# Sources Primarily Regulated at the Federal and International Level

- In-Use Locomotive Regulation
- Future Measures for Aviation Emissions Reductions
- Future Measures for Ocean-Going Vessel Emissions Reductions



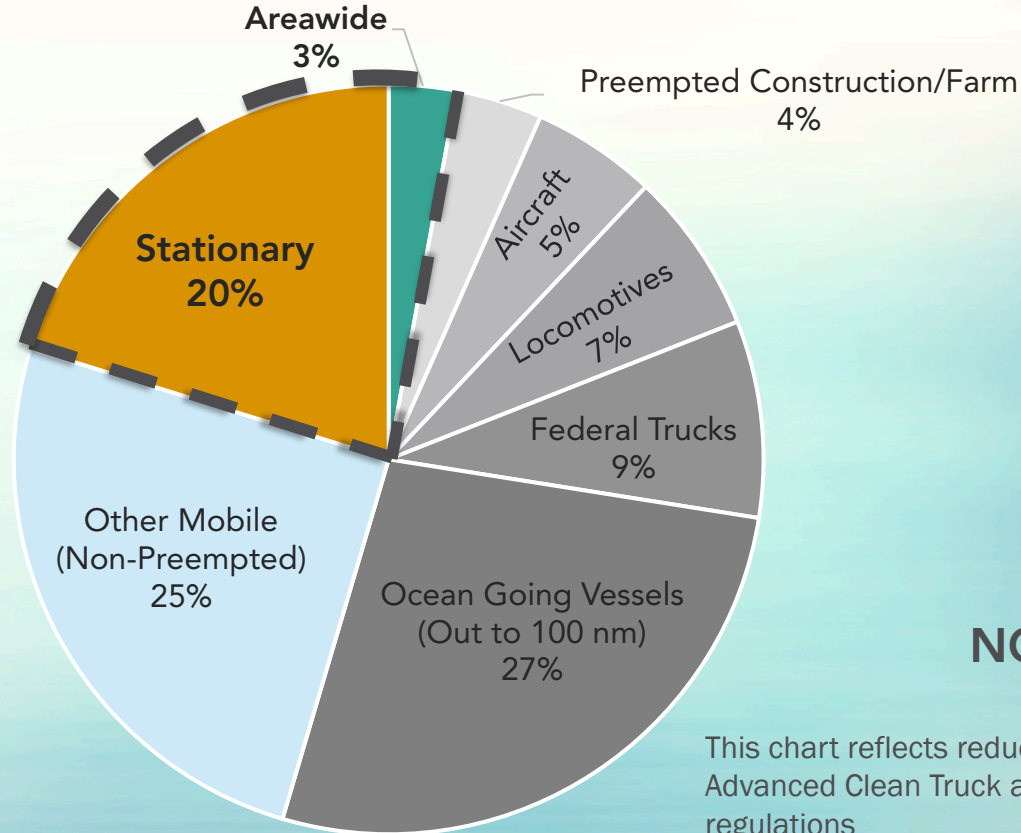
# Federal Action is Critical



Source: CARB, CEPAM 2016 SIP - Standard Emission Tool (v1.05),

# District Action is Also Needed

District sources projected to contribute around the same amount of NOx emissions as State sources in 2037



2037  
Statewide  
NOx Emissions

This chart reflects reductions from CARB's Advanced Clean Truck and HD Omnibus regulations



# Potential SIP Measures can Reduce Emissions in Priority Communities



Near-Road  
Communities



Near-Port  
Communities



Communities  
Near Industrial  
Facilities &  
Warehouses



# Economic Analysis

# Economic Analysis

- Staff will develop an economic analysis that includes the statewide costs and cost savings from the 2022 State SIP Strategy measures
- Regional Economic Models, Inc. (REMI) will be used to assess the economic impact to the California Economy through 2037

# CEQA Environmental Analysis

# Environmental Analysis

- Environmental Analysis (EA) being prepared analyzing potentially significant adverse impacts caused by reasonably foreseeable actions
- Meets requirements of CARB's certified program under the California Environmental Quality Act (CEQA)
- The CEQA Environmental Checklist (CEQA Guidelines Appendix G) is used to identify and evaluate potential indirect impacts
- The EA will be an appendix to the Staff Report

# Environmental Analysis to be Prepared

- The EA will include:
  - Description of reasonably foreseeable actions taken in response to the proposal.
  - Programmatic level analysis of potential adverse impacts caused by reasonably foreseeable actions
  - Beneficial impacts
  - Feasible mitigation measures to reduce/avoid significant impacts
  - Alternatives analysis
- Input invited at this early stage on appropriate scope and content of the EA
- Draft EA will be released for 45 day public comment period



# Moving Forward



# Timing & Next Steps

2 <sup>nd</sup> Workshop/Working Group	Fall 2021
Release Draft 2022 State SIP Strategy & Informational Update to the Board	Late 2021/Early 2022
3 <sup>rd</sup> Workshop/Working Group	Winter/Spring 2022
Release Proposed 2022 State SIP Strategy	Spring 2022
Board Hearing	Summer 2022

# Contact Us!

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- Ariel Fideldy, Manager  
[Ariel.Fideldy@arb.ca.gov](mailto:Ariel.Fideldy@arb.ca.gov)
- General SIP Questions: [SIPplanning@arb.ca.gov](mailto:SIPplanning@arb.ca.gov)

<https://ww2.arb.ca.gov/resources/documents/2022-state-strategy-state-implementation-plan-2022-state-sip-strategy>

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