

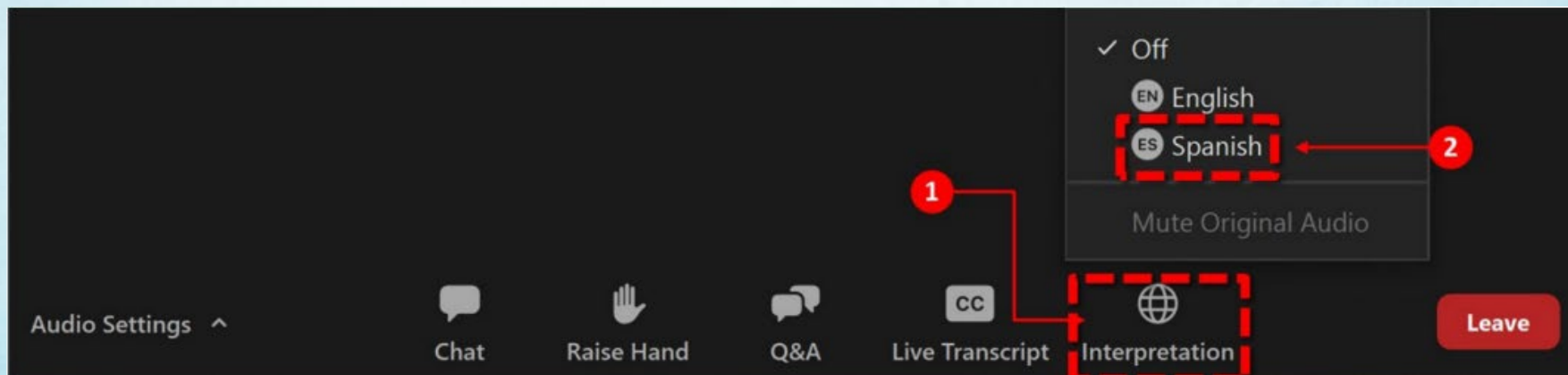


2025 Mobile Source Strategy

Public Webinar
January 23, 2024
4 pm PST

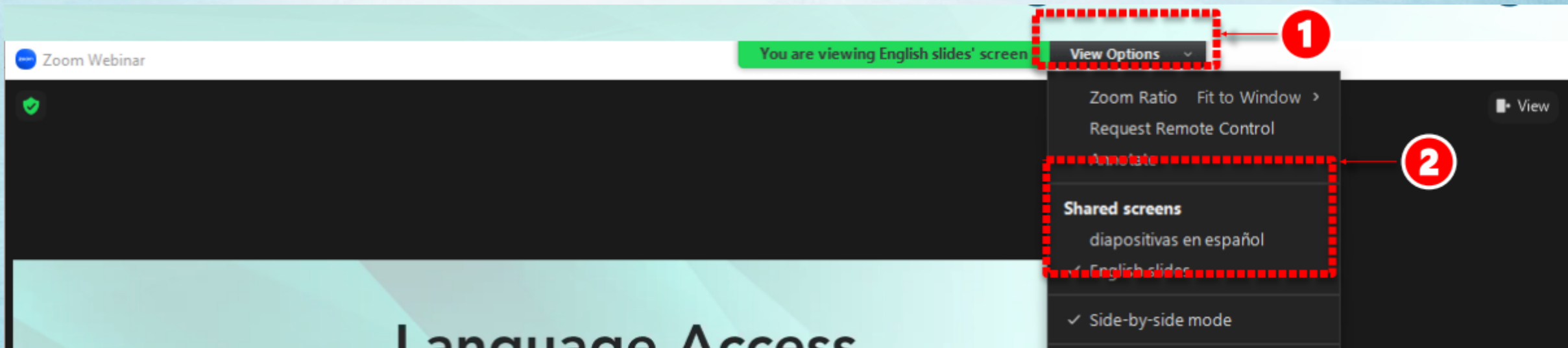
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Purpose of Today's Webinar

- Inform the public about the development of the 2025 Mobile Source Strategy
- Provide a summary of staff's initial thoughts on potential focuses
- Discuss the proposed public engagement process
- Solicit feedback on potential focuses, and additional ideas or concepts to be considered



Today's Agenda

- Background
- Public Engagement and Outreach
- Baseline Mobile Emissions
- Potential Focuses & Opportunities
- Timing
- Questions & Feedback
- Next Steps

Background

What is the Mobile Source Strategy?



- Identifies the pathways for mobile source reductions needed to meet CARB's air quality, climate, and community risk reduction goals via a conceptual planning document
- Uses scenario planning tools to model levels of clean technologies needed
- Identifies regulatory and programmatic concepts to achieve cleaner technologies
- Updates every 5 years due to SB 44 (2019)

New Policy Drivers since the 2020 MSS

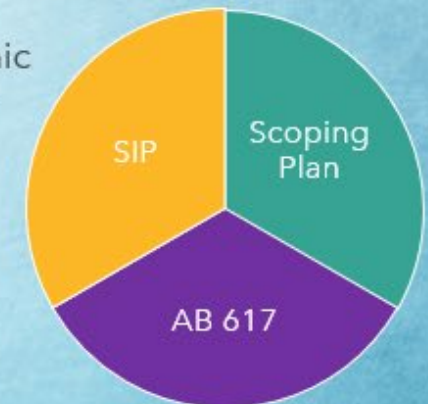
Criteria Pollutant

- Attainment for 70 ppb 8-hour ozone (2037)
- Updated attainment year for 12 ug/m³ annual PM_{2.5} standard (2030)
- Attainment for new annual PM_{2.5} standard (likely 2032)

Community Focus

- 6 new communities selected under Community Air Protection Program
- New Community Emission Reduction Programs with future target years
- Blueprint 2.0 and focus on consistently nominated communities

California's Air Quality, Climate, and Community Air Protection Goals



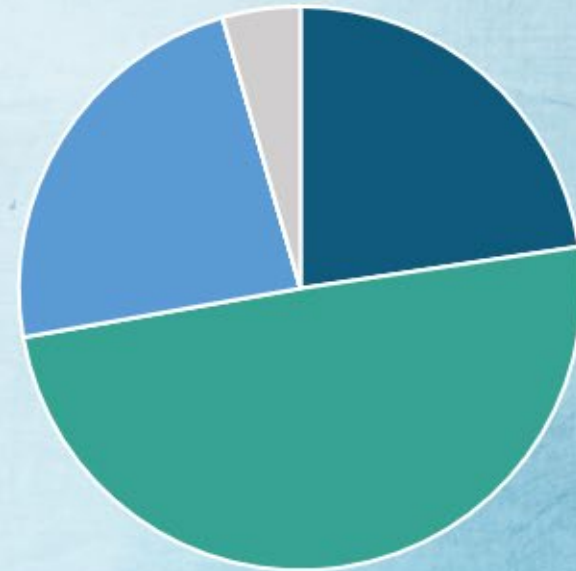
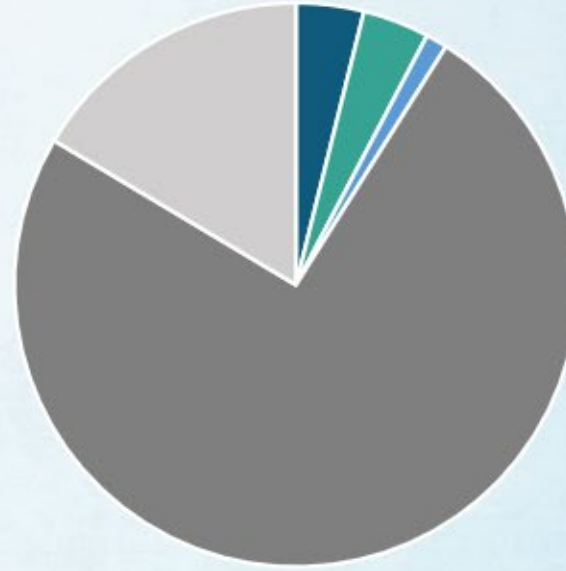
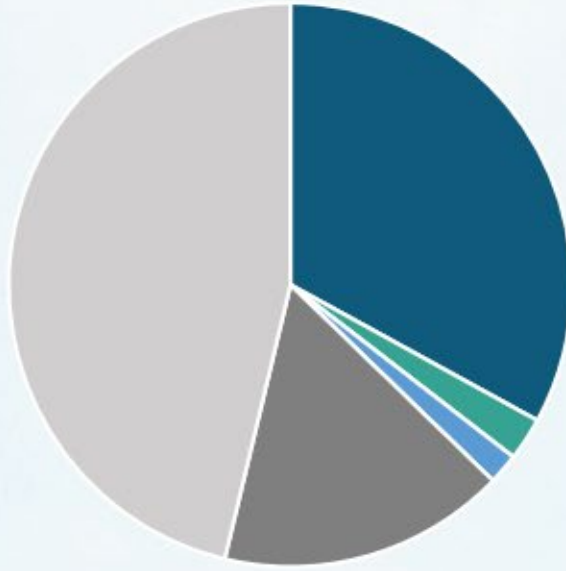
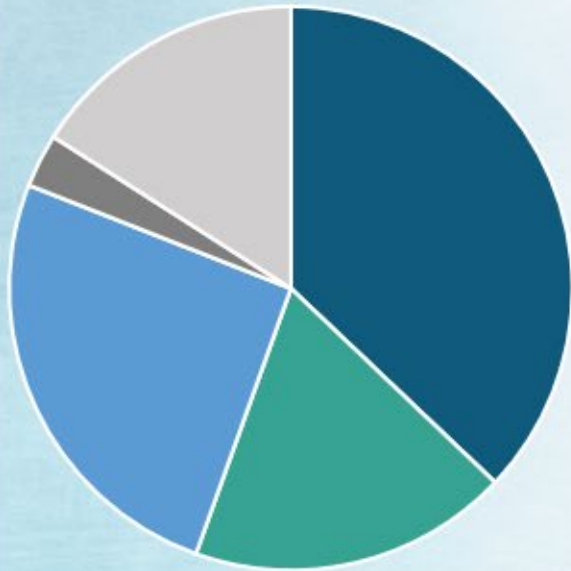
Importance of Mobile Source Emissions

2020 NOx

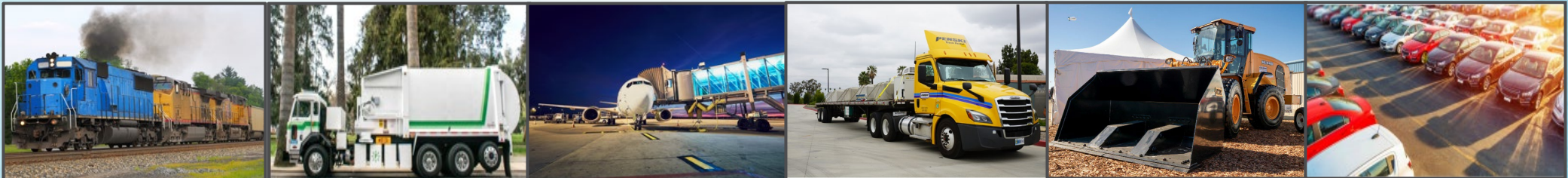
2020 GHG

2020 Direct PM2.5

2020 DPM



■ On-Road Mobile
 ■ Off-Road Mobile
 ■ Primarily Federally Regulated Mobile
 ■ Areawide
 ■ Stationary



Governor's Executive Order N-79-20

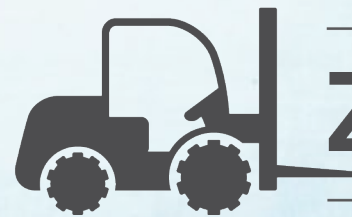


100% ZEV sales by 2035

Full transition to
ZEV short-haul/drayage trucks
by 2035



Full transition to **ZEV buses &
heavy-duty long-haul trucks**
by 2045*



Full transition to
ZE off-road equipment
by 2035*

*where feasible

2025 Mobile Source Strategy

- Builds on 2020 MSS
 - 2037 and 2045 still the furthest target years
- Updates scenario modeling and potential future technology mixes
- Will reflect ZEV goals and requirements under SB 44
- Will inform future policy development



Racial Equity and Environmental Justice

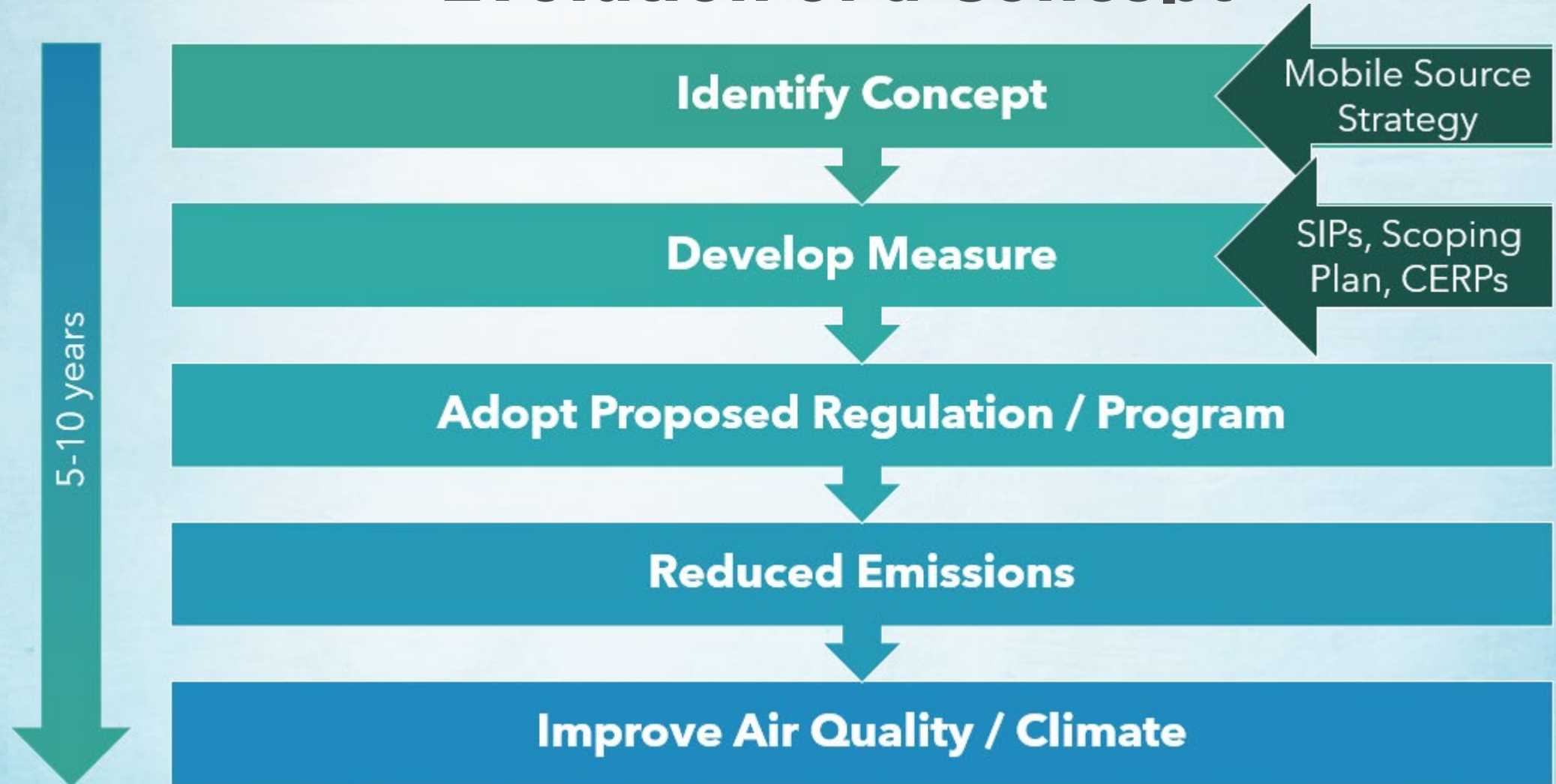
- CARB is continuing efforts to advance racial equity
- Staff will be considering equity and EJ throughout development of the scenarios and concepts in the 2025 MSS
- Utilize Racial Equity Lens (REL)



Importance of Integrated Planning



Evolution of a Concept



Public Engagement and Outreach

Public Engagement and Outreach

- Efforts to date
 - Factsheet and webpage
 - U.S. EPA Region 9 Tribal Conference
 - Participating in existing stakeholder meetings
- Staff is looking to engage with all interested parties about the 2025 MSS
 - Existing meetings
 - New recurring small group, or 1:1 meetings



Planned Public Releases and Webinars



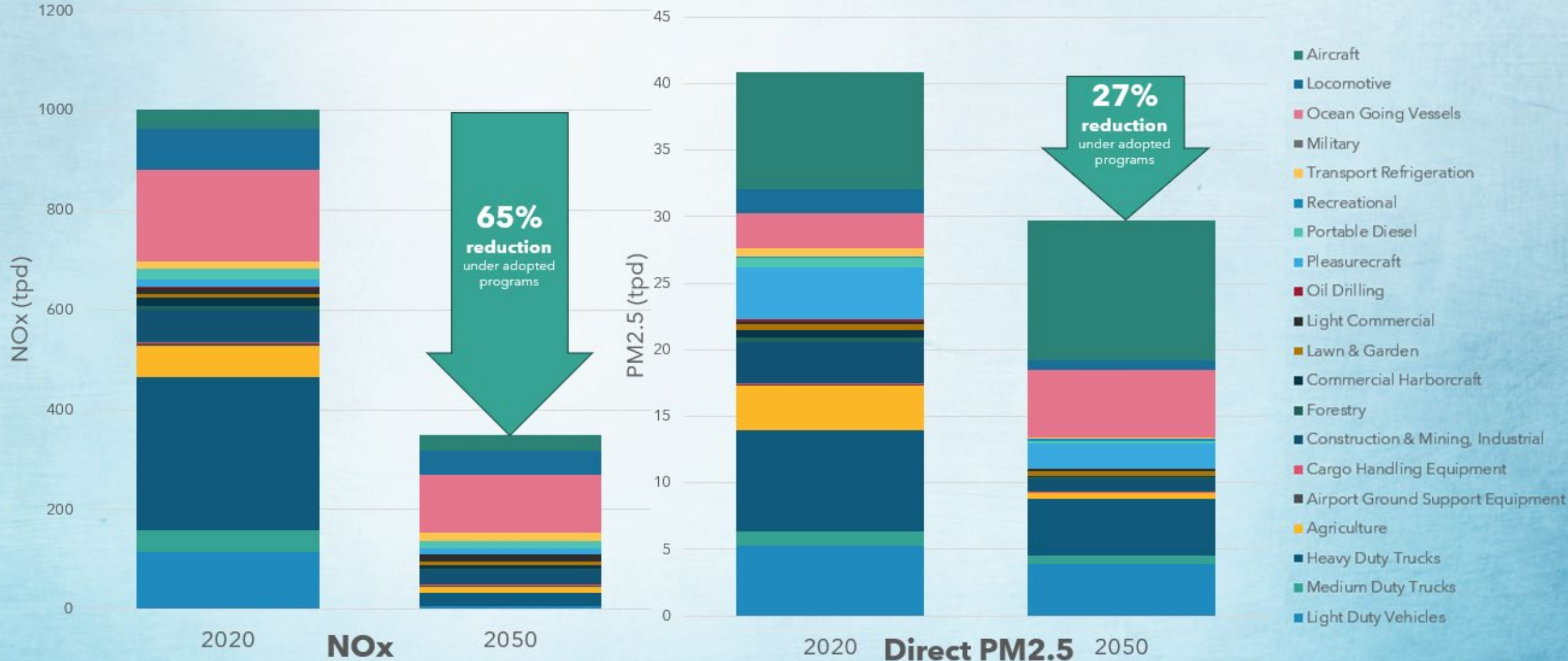
Baseline Mobile Emissions

Baseline Mobile Emissions

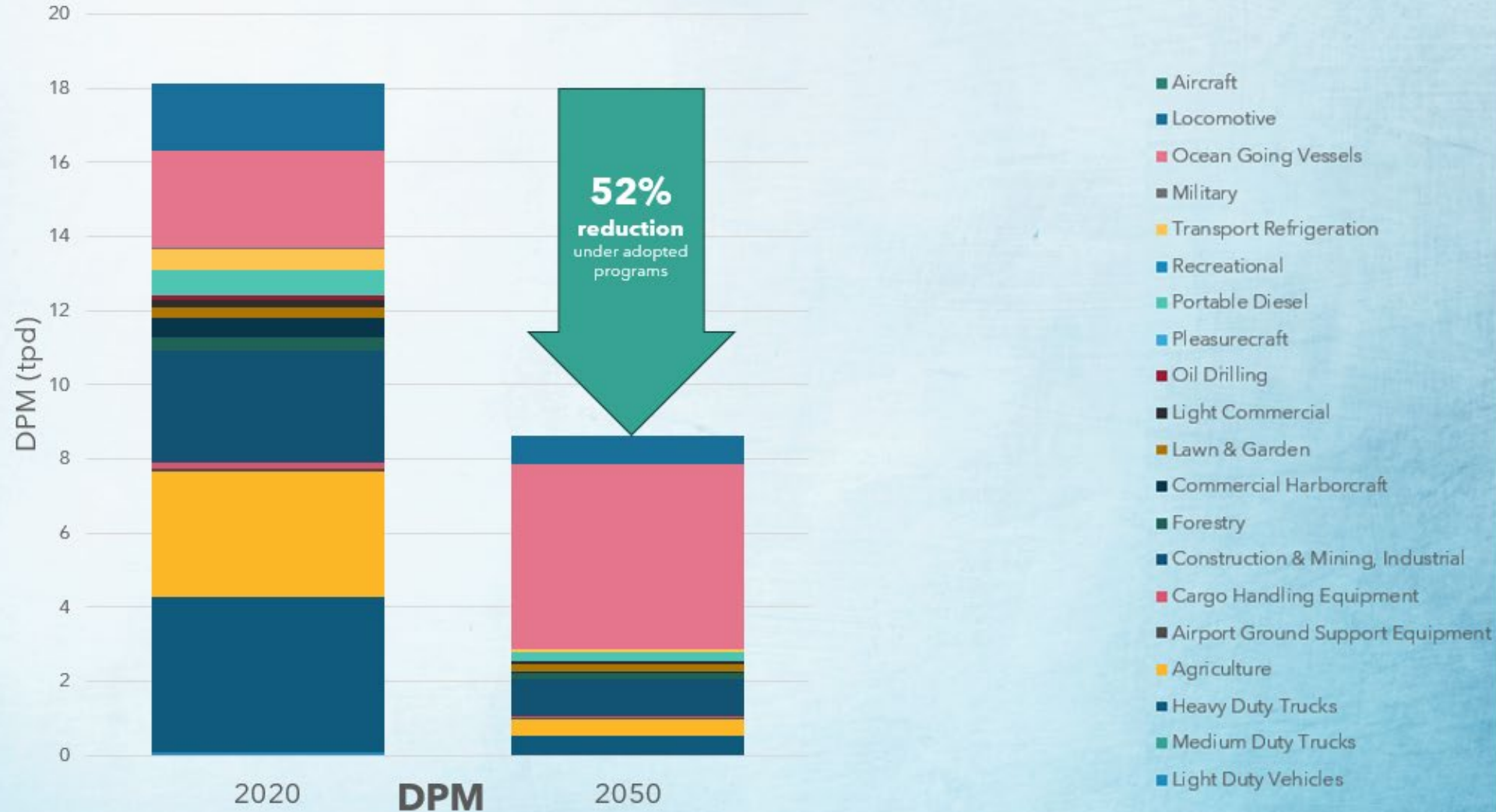
- 2025 MSS baseline emissions inventory will include CARB regulations adopted through December 2023
- Builds on many regulations originally identified as concepts in the 2020 MSS:
 - Advanced Clean Trucks
 - Clean Truck Check (Heavy-Duty Inspection & Maintenance)
 - Heavy-Duty Omnibus
 - Advanced Clean Fleets
 - Small Off-Road Engines
 - In-Use Locomotive
 - Advanced Clean Cars II
 - Commercial Harbor Craft
 - Transport Refrigeration Unit Part I
 - In-Use Off-Road Diesel-Fueled Fleets



Statewide Baseline Mobile Emissions

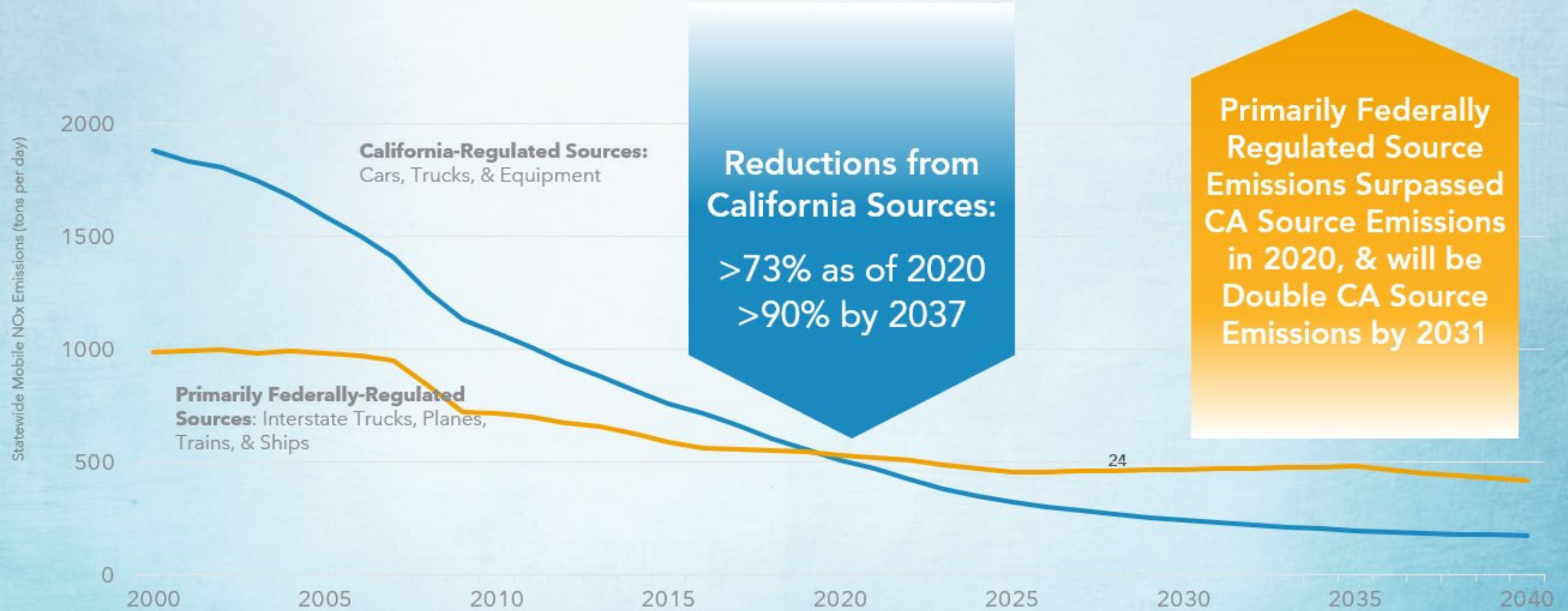


Statewide Baseline Mobile Emissions



Federal Action Increasingly Critical

(Statewide NOx Emissions)



Potential Focuses & Opportunities

On-Road Opportunities

- Zero-Emission Truck Measure – ZEV requirements for the fleets not covered by Advanced Clean Fleets via:
 - Differentiated registration fees
 - Zero-emission zones
 - Indirect source rules
 - Replace at end of useful life
- Advanced Clean Cars II Amendments
 - Lower GHG standards for light-duty vehicles
 - Harmonize emission standards with U.S. EPA and Clean Truck Partnership Agreement
- Clean Fuels



On-Road Opportunities

Reducing vehicle miles traveled

- Even meeting ZEV goals, a significant portion of passenger vehicles will still rely on internal combustion engines in future years
- Brake and tire wear growing
- 2020 MSS, 2022 Scoping Plan, and 2022 State SIP Strategy identify concepts, strategies, and policies to reduce VMT



Off-Road Opportunities

- Measures in progress
 - Transport Refrigeration Units Part 2
 - Tier 5 Off-Road Standards
 - Off-Road Targeted Manufacturer
- Newer areas of focus
 - Ocean Going Vessels in transit
 - Aircraft
 - Cargo Handling Equipment
 - Agricultural equipment
- Clean Fuels



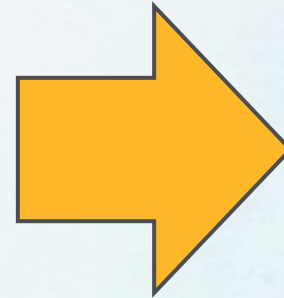
Additional Considerations

- Infrastructure coordination & challenges
- Racial Equity & Environmental Justice
- Health benefits

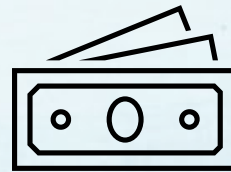
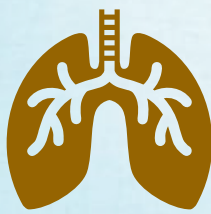
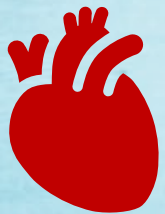


Potential Expanded Analysis of MSS Health Benefits

| Previous List |
|------------------------------------|
| Mortality |
| Cardiovascular Hospital Admissions |
| Respiratory Hospital Admissions |
| Respiratory ED Visits |

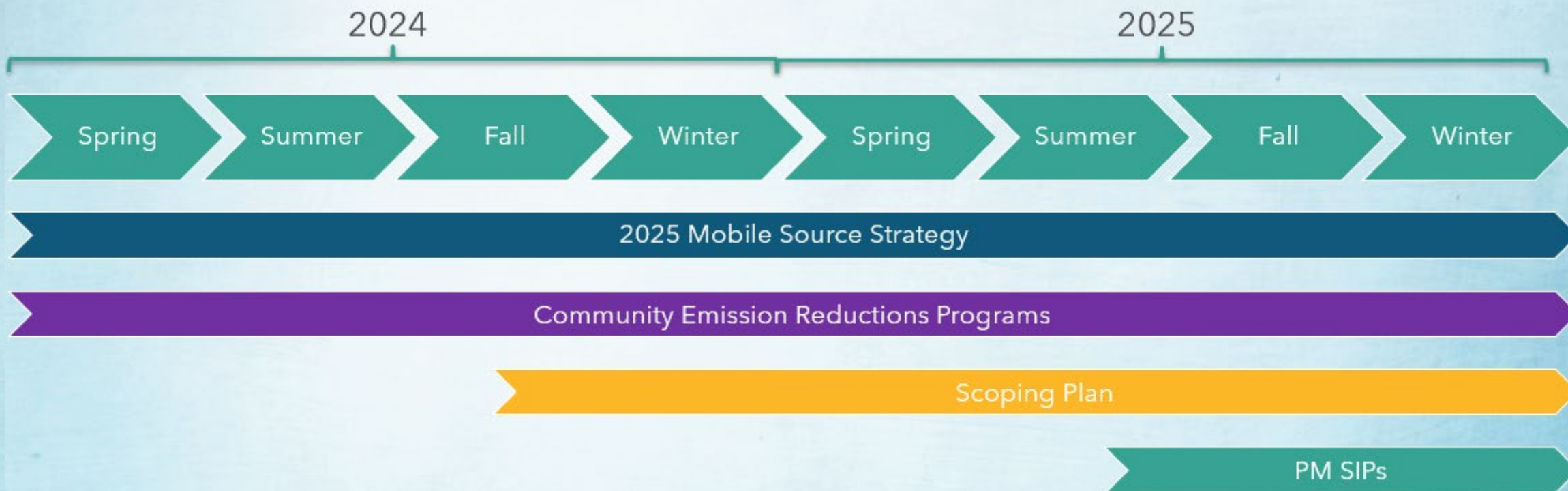


| New/Updated List |
|---------------------------------------|
| Mortality |
| Cardiovascular Hospital Admissions |
| Cardiovascular ED Visits |
| Acute Myocardial Infarction, Nonfatal |
| Respiratory Hospital Admissions |
| Respiratory ED Visits |
| Asthma Onset |
| Asthma Symptoms / Exacerbation |
| Lung Cancer Incidence |
| Lost Work-Days |
| Alzheimer's Disease |
| Parkinson's Disease |



Timing

2025 Mobile Source Strategy Timeline & Related CARB Efforts



Questions & Feedback

Questions for Consideration

Engagement Opportunities

- What ongoing meetings that you participate in should CARB join to discuss the 2025 MSS?
- Would you be interested in regularly-scheduled meetings in a small group or 1:1 with CARB staff to discuss the 2025 MSS?

Concepts/Focuses

- Are there concepts/focuses listed that you strongly support, or don't think are necessary?
- What additional ideas or concepts would you like CARB to explore or consider?

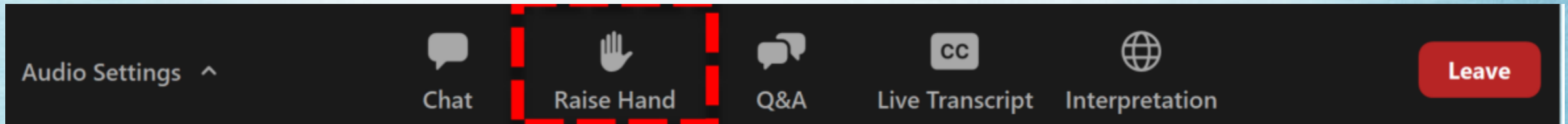
Questions & Feedback

Zoom:

Use "Raised Hand"
feature, or
type "Q&A" box

Phone:

#2 to "Raised Hand"
&
*6 to Unmute/Mute



Next Steps

Next Steps and Staying Connected

- Next Steps: Release Discussion Draft and Webinar in Spring 2024
- Website: <https://ww2.arb.ca.gov/resources/documents/2025-mobile-source-strategy>
- Listserv: Subscribe to CARB's Mobile Source Strategy GovDelivery topic to stay informed:
https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=mobilesourcestrategy
- Questions: email MSS@arb.ca.gov