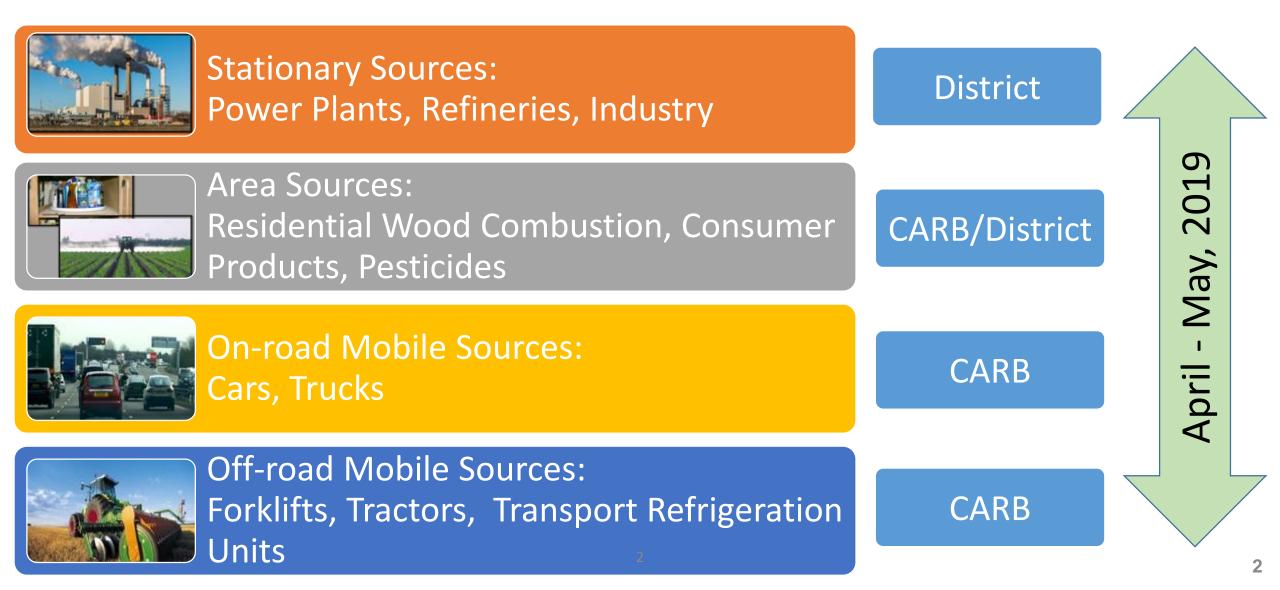


### Community Emission Inventory Update CARB Mobile and Area Source Emissions

### Shafter AB 617 Community Steering Committee Meeting May 13, 2019

<u>Alejandra Cervantes</u>, Jenny Melgo, Abhisek Dhiman, Adrian Cayabyab Air Quality Planning and Science Division California Air Resources Board

### Air District & CARB Staff Collaboration



### **DRAFT Community Emissions Summary**

Source Category	PM2.5		NOx		ROG		NH3	
STATIONARY	30.3	(12%)	19.8	(3%)	53.1	(5%)	0.87	(0.1%)
AREA	188.5	(75%)	49.7	(7%)	936.9	(80%)	1,360.4	(99.9%)
OFF-ROAD MOBILE	12.4	(5%)	163.1	(21%)	54.2	(5%)	0.1	(0.01%)
ON-ROAD MOBILE	20.1	(8)%	528	(69%)	126.4	(11%)	0	(0%)
TOTAL (tons/yr)	251.3		760.6		1,170.6		1,361.4	

- PM2.5: Particulate Matter 2.5 Microns or Smaller
  - NOx: Nitrogen Oxides
  - ROG: Reactive Organic Gases
  - NH3: Ammonia

### Inventory Development – What are we doing?

https://ww2.arb.ca.gov/resources/documents/emissions-inventory-enhancements

### **DRAFT Area Source Emissions**



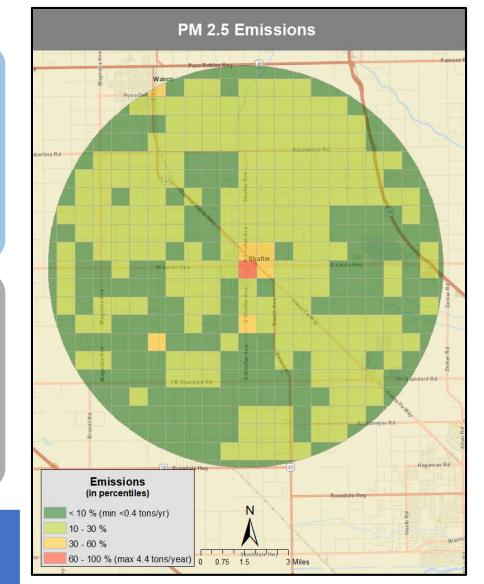
# Sources that can be moved to actual emission location:

Small emission sources spread over an area, but with specific locations (e.g., gas stations, dry cleaner, auto body shops, print shops)

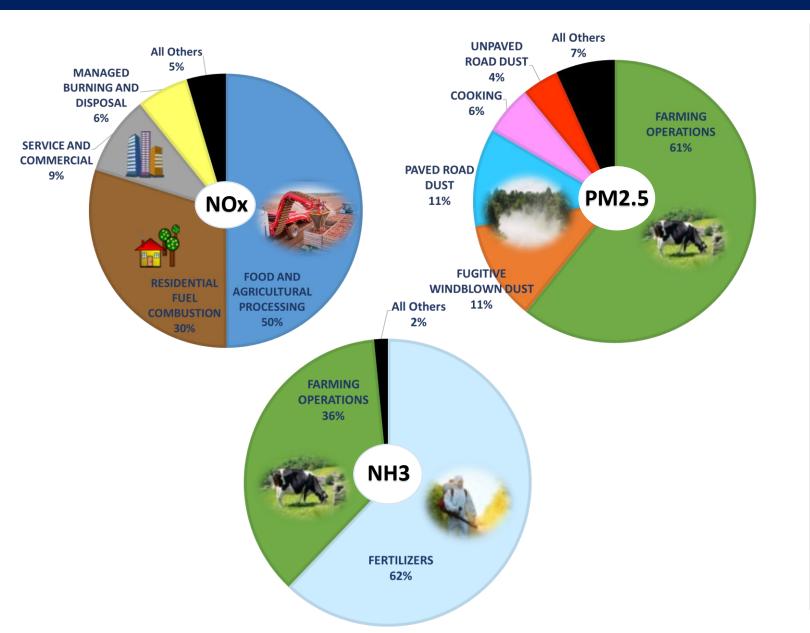


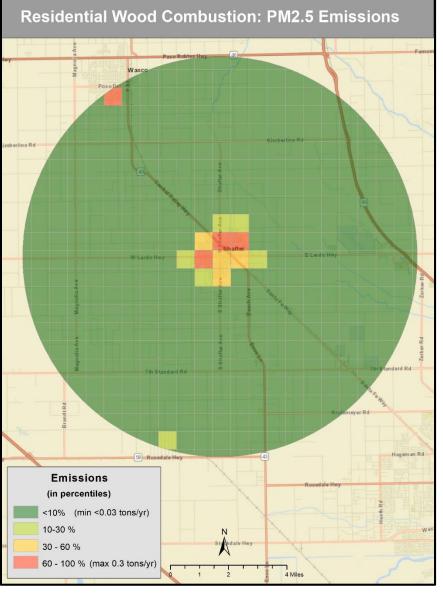
Sources that operate and emit over large areas: Emission sources that lack specific location detail (e.g., consumer products, road dust, architectural coating)

# Move sources to their actual emission location, when possible



### **DRAFT Area Source Emissions (Contd.)**



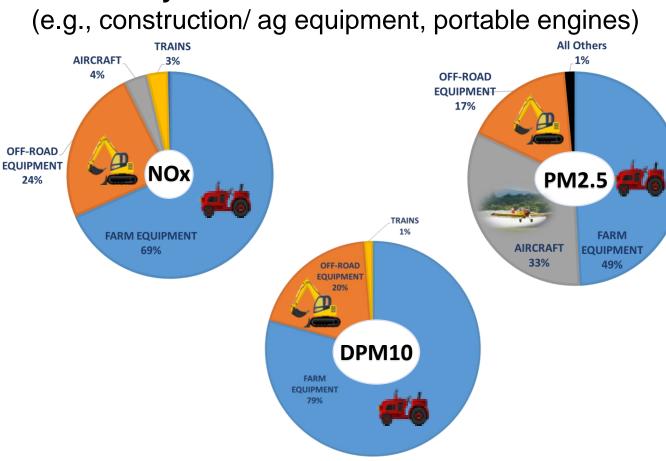


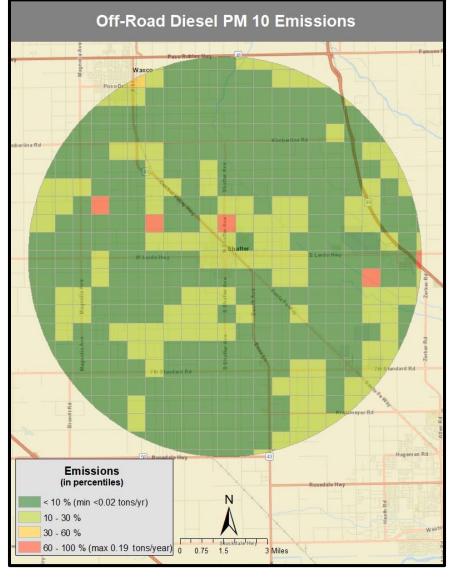
## **DRAFT Off-Road Mobile Source Emissions**

### **Facility Sources:**

(e.g., forklifts, cargo handling equipment, locomotives)

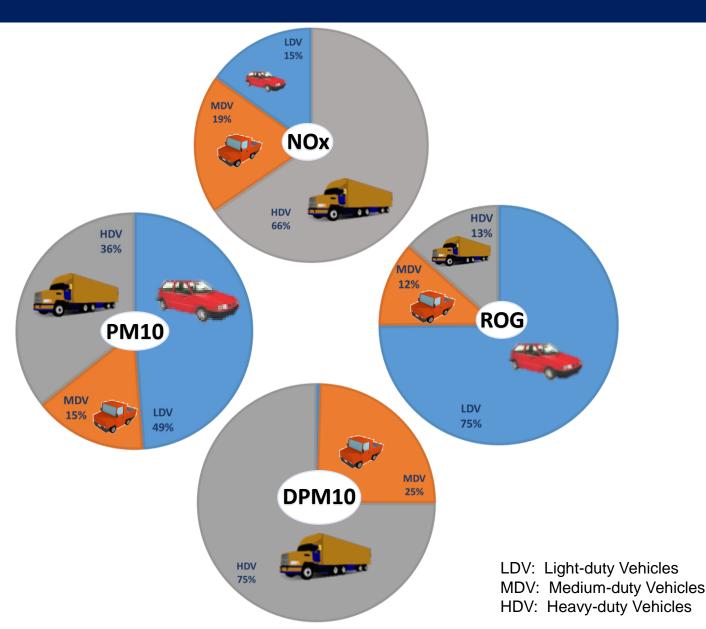
### **Non-facility Sources:**

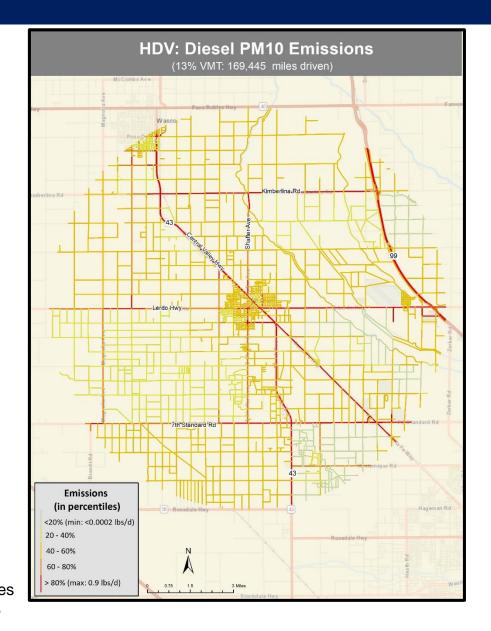




DPM10: Diesel Particulate Matter 10 Microns or Smaller

### **DRAFT On-Road Mobile Source Emissions**







## Highlights on Statewide Strategies to Control Emissions

### Shafter Community Steering Committee Meeting

May 13, 2019

# **Air Quality Agencies**

**Federal** 



**U.S. EPA** 

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



Ships



**State** 



### **CARB**

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

●■● Cars Trucks **Buses**  Local



### **Local Air Districts**

Regulate stationary and local sources of air pollution.





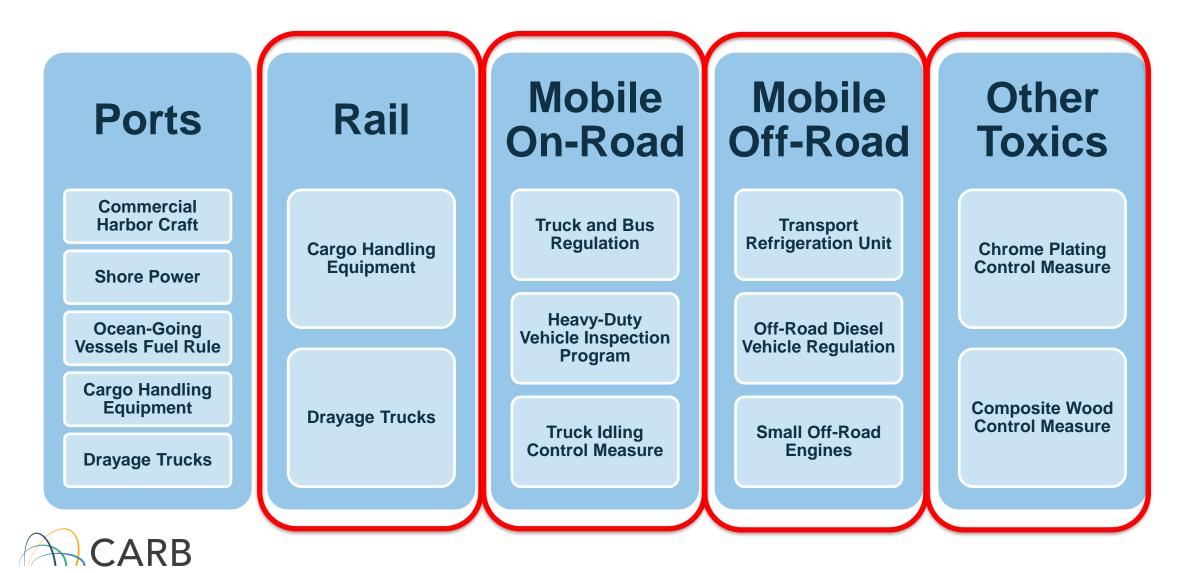


Factories Refineries

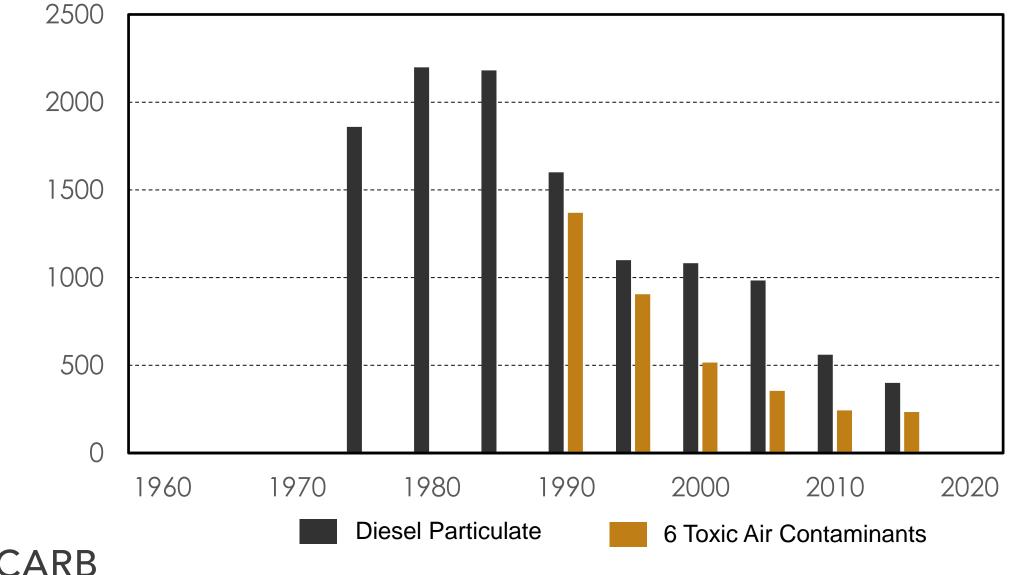
Residential woodstoves

RB

### **Existing Regulations and Control Measures**

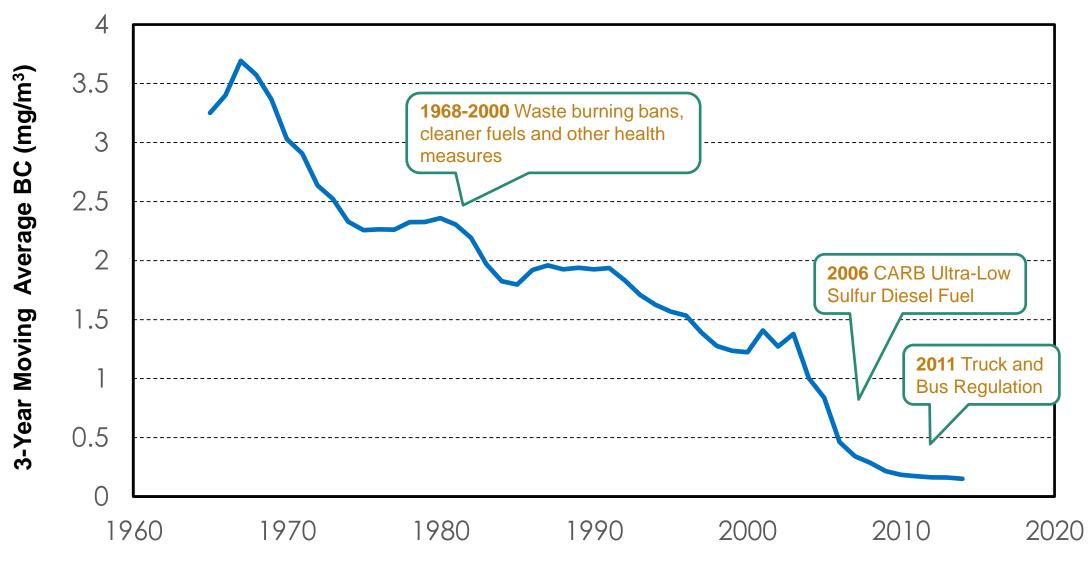


## **Statewide Toxic Health Risks**



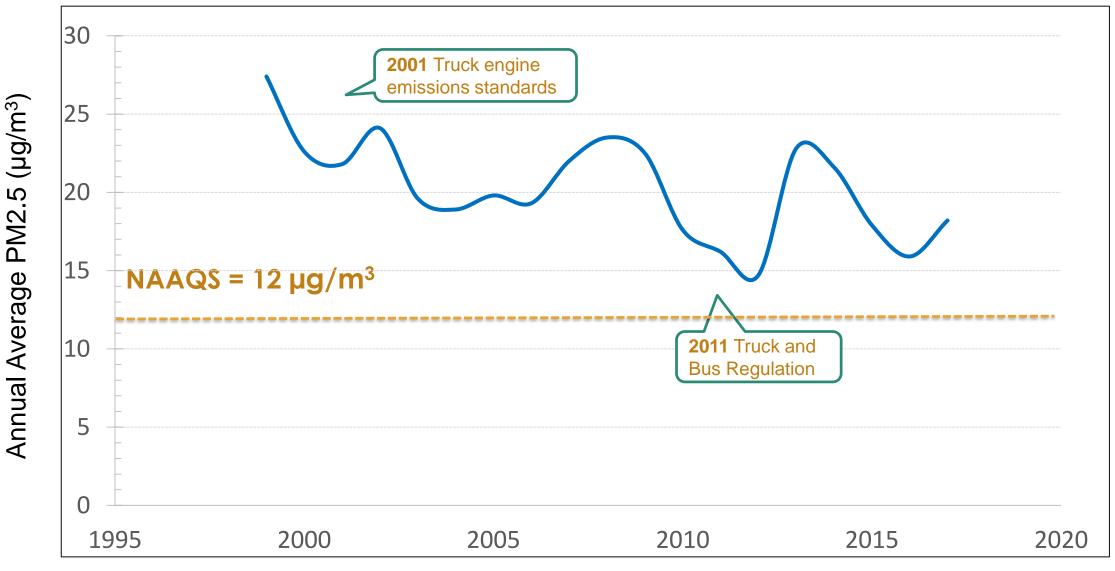
Increased Cancer risk per million residents

### **Statewide Black Carbon**





## Fine Particles (PM<sub>2.5</sub>) in Kern County





CARB ADAM Air Quality Database

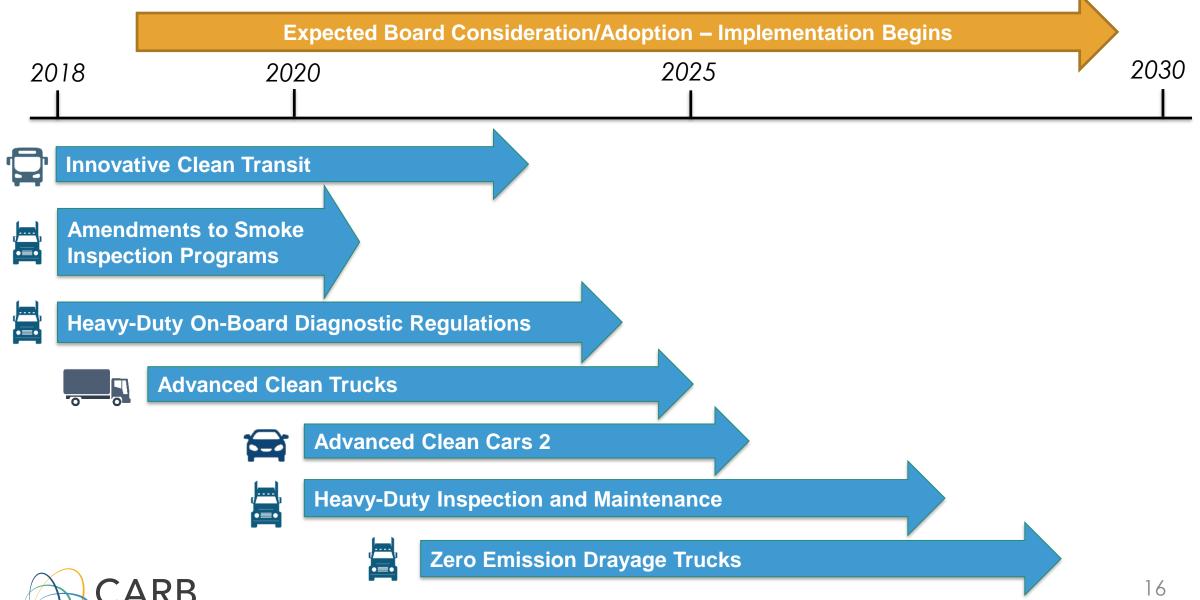
### **CARB EMISSIONS REDUCTION STRATEGIES**



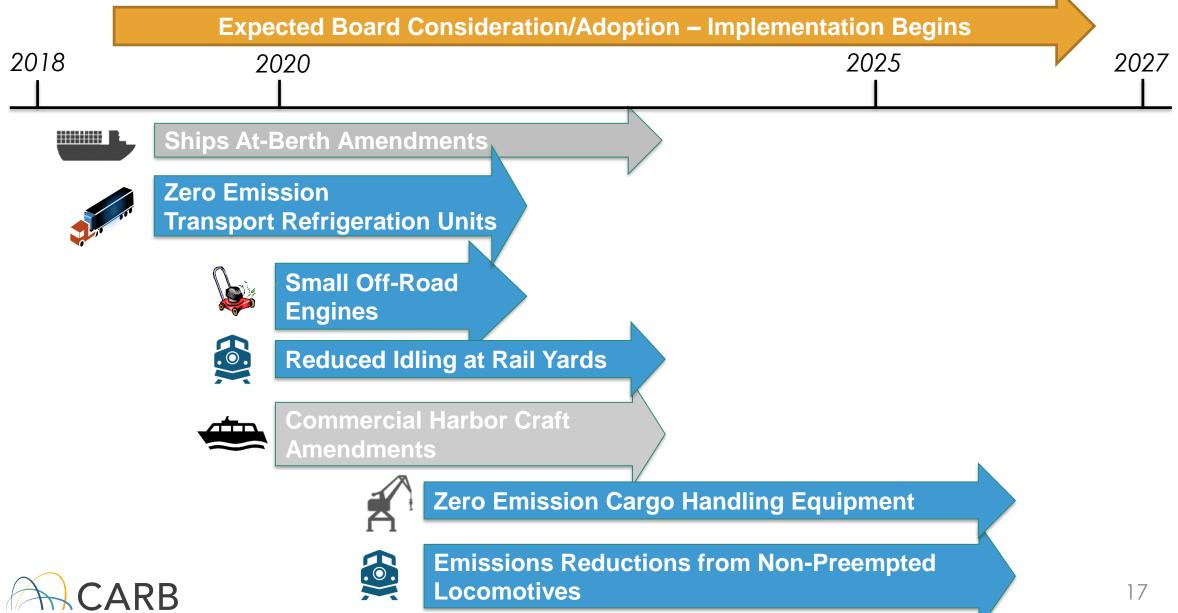
## **Recent Plans**



## **Proposed On-Road Mobile Source Measures**



### **Proposed Off-Road Mobile Source Measures**



### **Additional Proposed Control Measures**

- Chrome Plating Control Measure Amendments
- Composite Wood Products Control Measure Amendments
- Commercial Cooking Suggested Control Measure

### Expected Board Consideration Date= TBD



## **Contact Us**

Skott Wall, Community Liaison Office of Community Air Protection, CARB <u>skott.wall@arb.ca.gov</u> 916-323-0787

