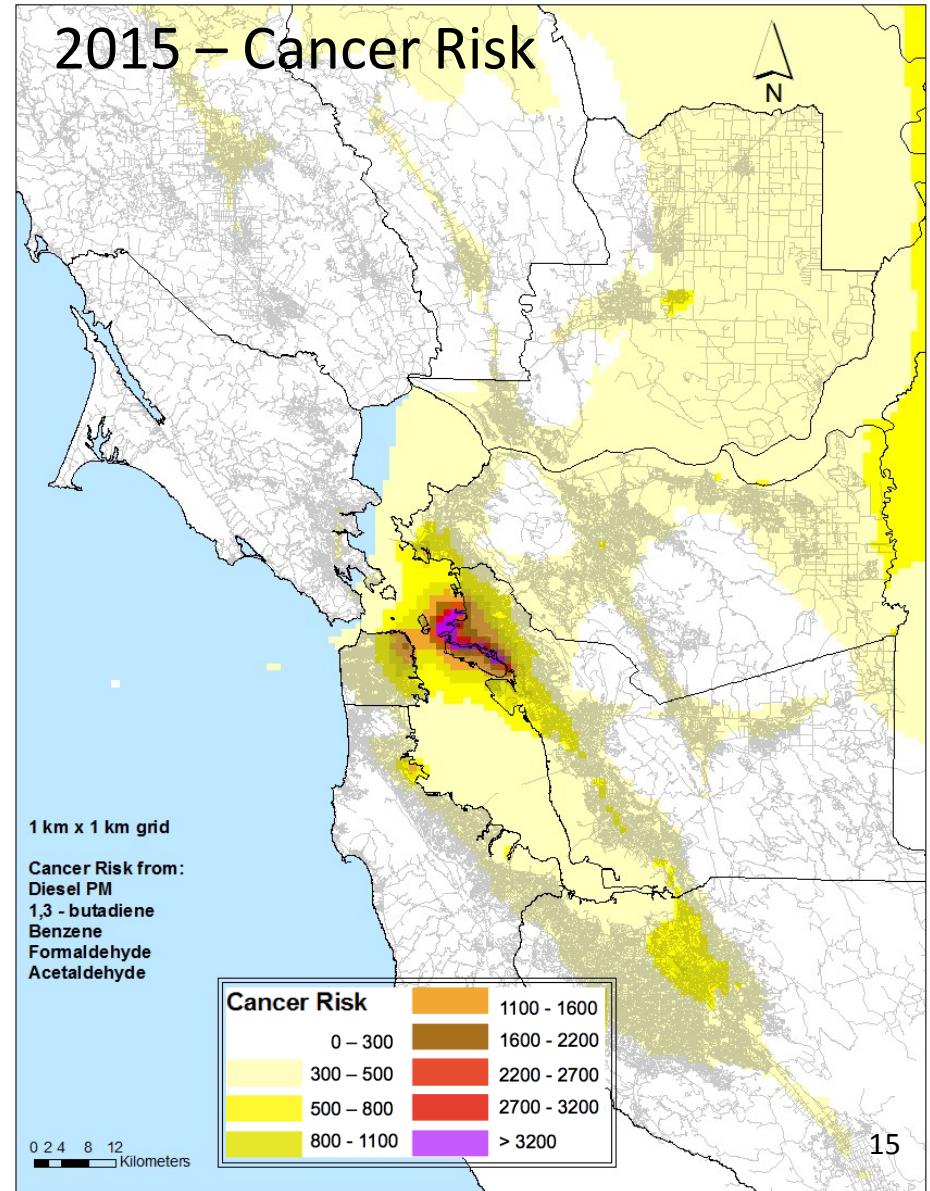
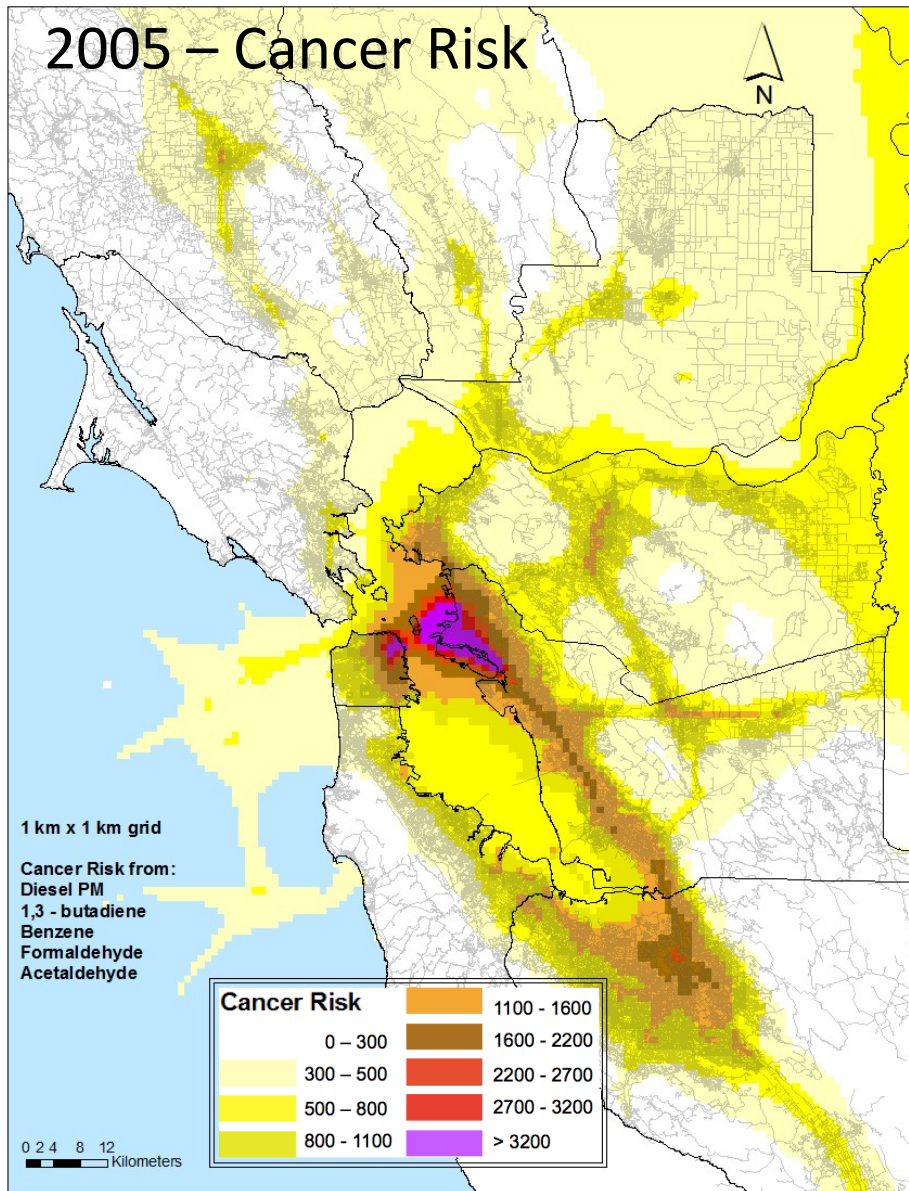


# Overall Air Pollution Down, but High Risks in Some Communities Remain





**AGENDA: 7**

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Bay Area Air Quality Management District  
Mobile Source Committee

# Update on Efforts to Further Reduce Emissions at the Port of Oakland and Former Oakland Army Base

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December 7, 2017

Damian Breen  
Deputy Air Pollution Control Officer



# Overview

- **New Legislative Mandates**
  - AB 617
  - AB 134
- **A Blueprint for Reducing Emissions in Communities of Concern**
  - Background on the West Oakland Community, Port of Oakland, and Oakland Army Base Redevelopment
  - Early actions and results
  - West Oakland
    - Results of Technology Review
    - CEQA and Community issues
    - Actions by Partners
- **Next Steps**



# AB 617 (2017)

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## Requires CARB to:

- Select areas to deploy community air monitoring systems and to implement community emission reduction programs.
- Provide grants to support community participation in developing community emissions reduction programs

## Requires local air districts to:

- Deploy community air monitoring systems
- Submit community air monitoring data to ARB to publish and emission reduction program to ARB for approval
- *Implement a community emissions reduction program*



## AB 134 (2017)

### Amends the 2017 budget act (AB 97) to include 2017 Greenhouse Gas Revenue Expenditure Plan

Investments include (statewide):

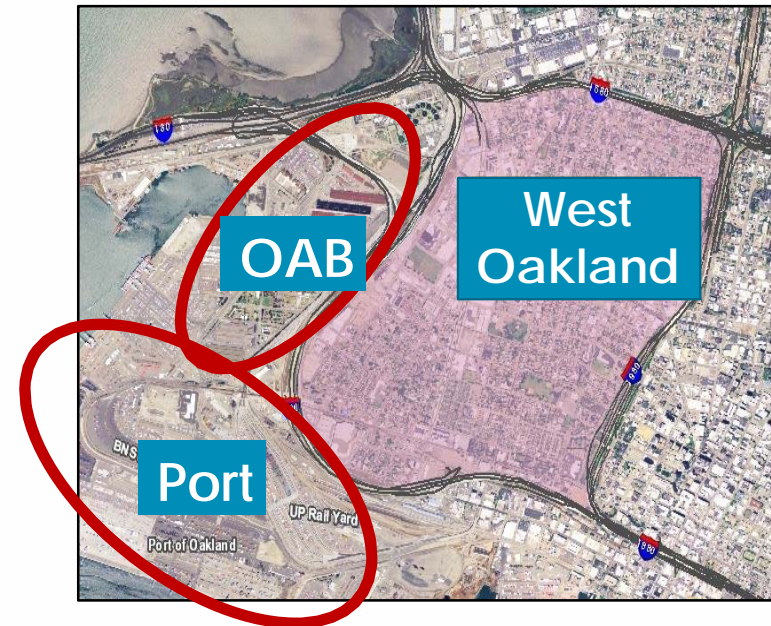
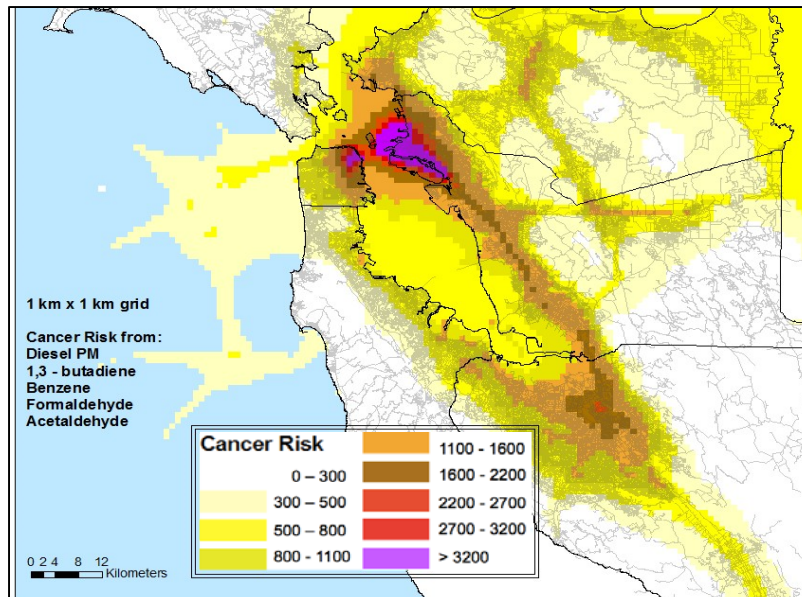
- **\$250 million** to air districts (*\$50 M to BAAQMD*) expand Carl Moyer Program
- **\$5 million** in grants to communities for AB 617 implementation activities
- **\$140 million** in funds to improve port equipment
- **\$180 million** for HVIP (clean trucks and buses)



# A Blueprint for Reducing Emissions in Communities of Concern

## West Oakland Overview

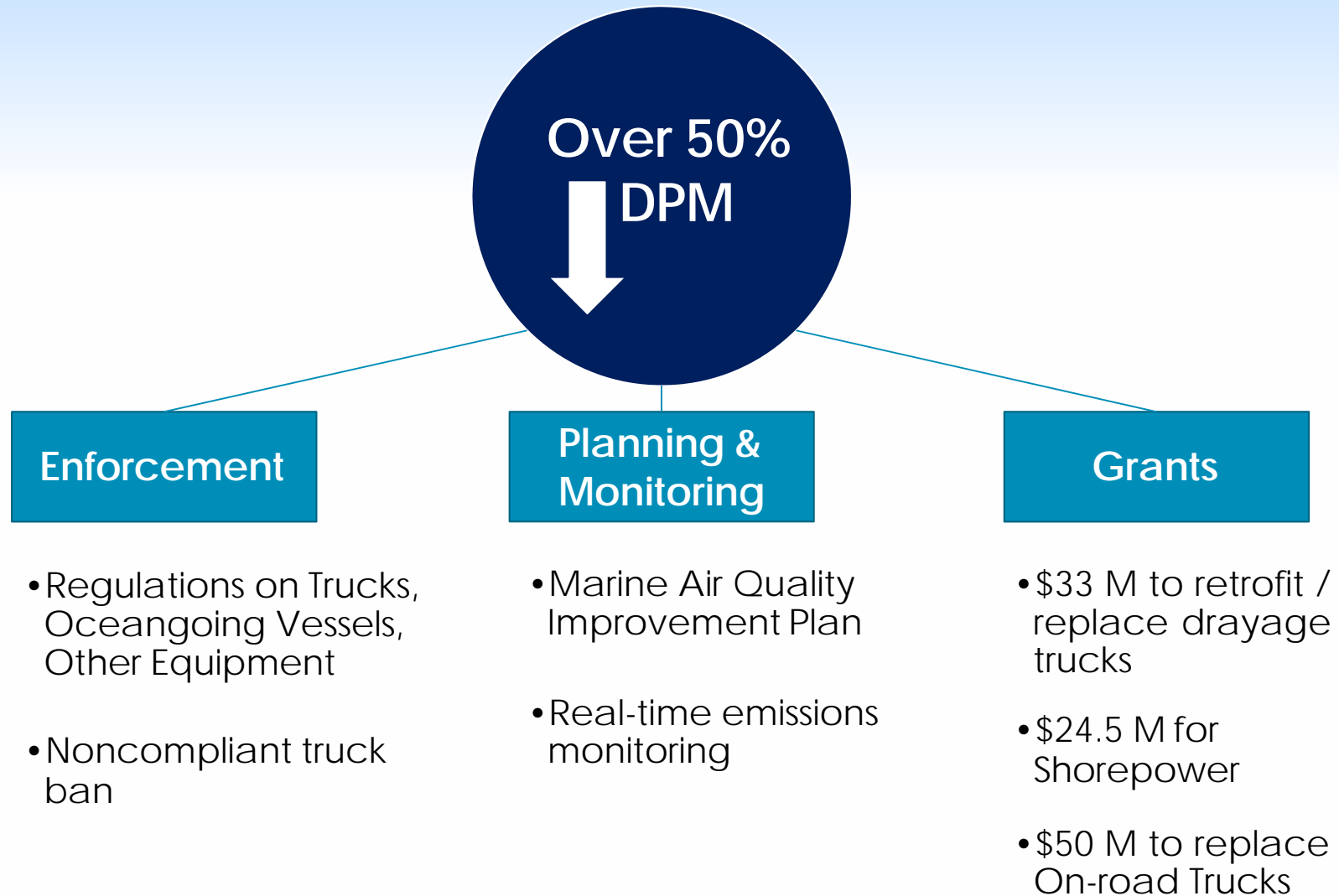
- Port of Oakland 5<sup>th</sup> largest in US; 2<sup>nd</sup> in California
  - 18 ship berths, 36 cargo cranes, 2 Rail Yards, 500 cargo handling equipment, 2,500 trucks
- 2008 HRA: cancer risk is ~3x higher than Bay Area average; primarily from Diesel Particulate Matter (DPM)
- 2009 BAAQMD CARE Report shows Port responsible for 29% of West Oakland Health Risk





# A Blueprint for Reducing Emissions in Communities of Concern

## Early Actions at Port of Oakland: 2008-2017



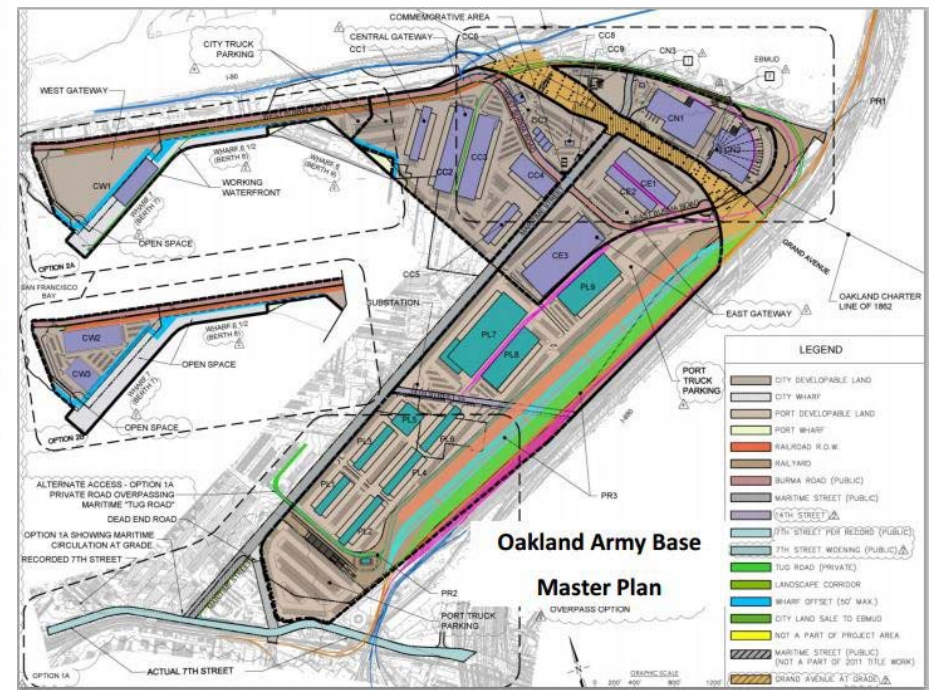


# A Blueprint for Reducing Emissions in Communities of Concern Former Oakland Army Base Development (OAB)



Prologis

Centerpoint







## A Blueprint for Reducing Emissions in Communities of Concern

# West Oakland Overview

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- Update equipment inventories from Port and other operators
- Understand OAB redevelopment efforts
- Review planning frameworks
- Examine potential actions by regulatory agencies (Port of Oakland (Port), City of Oakland (City), California Air Resources Board (ARB), etc.)
- Evaluate feasible technologies that can be deployed



# A Blueprint for Reducing Emissions in Communities of Concern

## Results of Technology Review

**Partners:** City, Port, Metropolitan Transportation Commission (MTC), Alameda County Transportation Commission (ACTC), Alameda County Public Health Department (ACPHD), ARB, United States Environmental Protection Agency (USEPA)

**Purpose:** Determine available technologies to rapidly reduce DPM

1. At the Port
2. At OAB as it is redeveloped

**Results:** 6 TPY DPM Reduction possible from current operations for \$220 million

- o Yard Trucks
- o Tug Boats
- o Top Pick Cranes
- o Drayage Trucks

Guidance Document on available technologies provided to Port and City



# Oakland Army Base Development CEQA and Community Issues

CEQA requires OAB redevelopment not to increase risk burden due to DPM from its operations

Port and City are committed to Actions provide they are “feasible” and that technologies are “available:”

- **Mitigation 4.4-3a:** Port to develop and implement program to reduce emissions from maritime and rail operations.
- **Mitigation 4.4-3b:** The City to administer a West Gateway Rail and Maritime Emissions Reduction Program.
- **Mitigation 4.4-4:** The City and Port to jointly create, maintain, and fund, a truck diesel emission reduction program.
- **Mitigation 4.4-5:** City and Port to work with major developers to fund BAAQMD Transportation Control Measures.
- **Mitigation 4.4-6:** City and Port shall implement sustainable development policies for new development
- **Mitigation Measure 5.4-1:** City and Port to encourage, lobby, and potentially participate in emission reduction demonstration projects that promote technological advances in improving air quality.
- **SCA AIR-3:** Exposure to Air Pollution (Toxic Air Contaminants: Particulate Matter) incorporate health-protective measures into project design to reduce the potential health risk due to exposure to diesel particulate matter (PM) both inside buildings and out-of-doors.
- **SCA GCC-1:** Greenhouse Gas (GHG) Reduction Plan: The Goal of this Plan shall be to increase energy efficiency and reduce GHG emissions by at least 20 percent with a goal of 36 percent below the project’s “adjusted” baseline GHG emissions.

Community has files Title 6 Complaint with Federal agencies USEPA, USDOT, etc.



# Actions by Partners (Local)

- **Port of Oakland:**
  - Commitment to Honor CEQA mitigations via 11/8/2017 letter on CenterPoint Lease
  - Seek Air District, Industry and Community input on feasible technologies to prevent emissions increases from new development
  - West Oakland Truck Management Plan
  
- **City of Oakland:**
  - Work with Air District on operations plan for Prologis site and future developments
  - Work with Air District on mitigation fund to offset future development
  - West Oakland Truck Management Plan
  
- **ACTC:**
  - \$4 Million - Intelligent Transportation Systems
  - Freight Planning
  - \$6 million in Measure BB Funding available for:
    - > Ocean-going vessel emission control technologies – Bonnet & Shore power
    - > Locomotives: advance newest technology rail switchers
    - > Cargo handling equipment: includes investments such as rubber tired gantry cranes at the Port of Oakland
    - > Trucks: expand deployment of zero and near zero emission vehicles with a focus on trucks that operate in Alameda County
  
- **ACPHD:**
  - Assist Air District in Identifying and Quantifying costs for a receptor mitigation program



# Actions by Partners (Regional, State and National)

- **MTC:**
  - Regional Freight Movement and Investment Strategy
  - \$10 Million for Zero Emissions Busses
- **ARB:**
  - Freight Emissions Reductions Strategy
  - Funding – Cap and Trade & VW Settlement Funds
  - Regulations – Shore Power, Class 5/6 Trucks, Cargo Handling Equipment, etc.
- **USEPA:**
  - Assist with community side outreach & Title 6 complaint review
  - DERA funding – \$0.6 Million for Locomotive Changeout



# A Blueprint for Reducing Emissions in Communities of Concern

## Next Steps

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### **West Oakland Initiative:**

Continue to engage stakeholders:

- January 2018: Community/Industry Meetings

Continue investments at the Port and West Oakland Community:

- Early 2018 – Port Electrification Solicitation (Reformulated Gasoline Settlement)
- February 2018 - Expenditure Plan Mobile Source Committee

### **617 Initiative: Expand to other communities of concern**

- January 2018 – Board of Director Retreat
- Early 2018 – 2020: Develop and begin implementing initiatives for all other Bay Area communities of concern



# Proposed Project

**June 23, 2017: District submitted proposal to EPA to replace one uncontrolled, high polluting, switcher locomotive with a low emission Tier 4 locomotive**

- Owned by Oakland Global Rail Enterprise, LLC.
- Expected in-service in 2019
- Total Project Cost: \$2,571,462
- Estimated lifetime emission reductions:
  - **118 tons NOx**
  - **6 tons Hydrocarbons**
  - **2.6 tons of PM**





# EPA Award

- July 26, 2017, EPA informed District of proposed \$639,670 award
  - Total project cost = \$2,571,462
  - Matching funds = \$1,931,792
  - Award includes \$14,670 for Air District administration
- Acceptance of funds requires adoption of Board resolution







# Recommendations

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## Recommend the Board of Directors:

- Adopt a Resolution authorizing the Air District to accept, obligate, and expend up to \$639,670 in funds from the U.S. Environmental Protection Agency (EPA) to replace one locomotive; and
- Authorize the Executive Officer/APCO to enter into all agreements necessary to accept and expend this funding.

# Campaign Highlights

- Wrapped four Oakland Broadway Shuttle buses
- Partnered with Capitol Corridor
- @ 75+ Bay Area events
- Bike outreach in 35 communities

