



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

AGENDA: 3

# Authorization to Execute Contract Amendments for Production System Software

Board of Directors Special Meeting  
September 15, 2021

**Blair L. Adams**  
Information Systems Officer  
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Assistant Manager  
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# Outcome



Status update and recommendation to  
approve contract amendments



## Software Development Status

- Completed and remaining modules
- Software demonstration

## Key Measures

- Web traffic and digital payments

## Forecasts

- Schedule and budget

# Requested Action



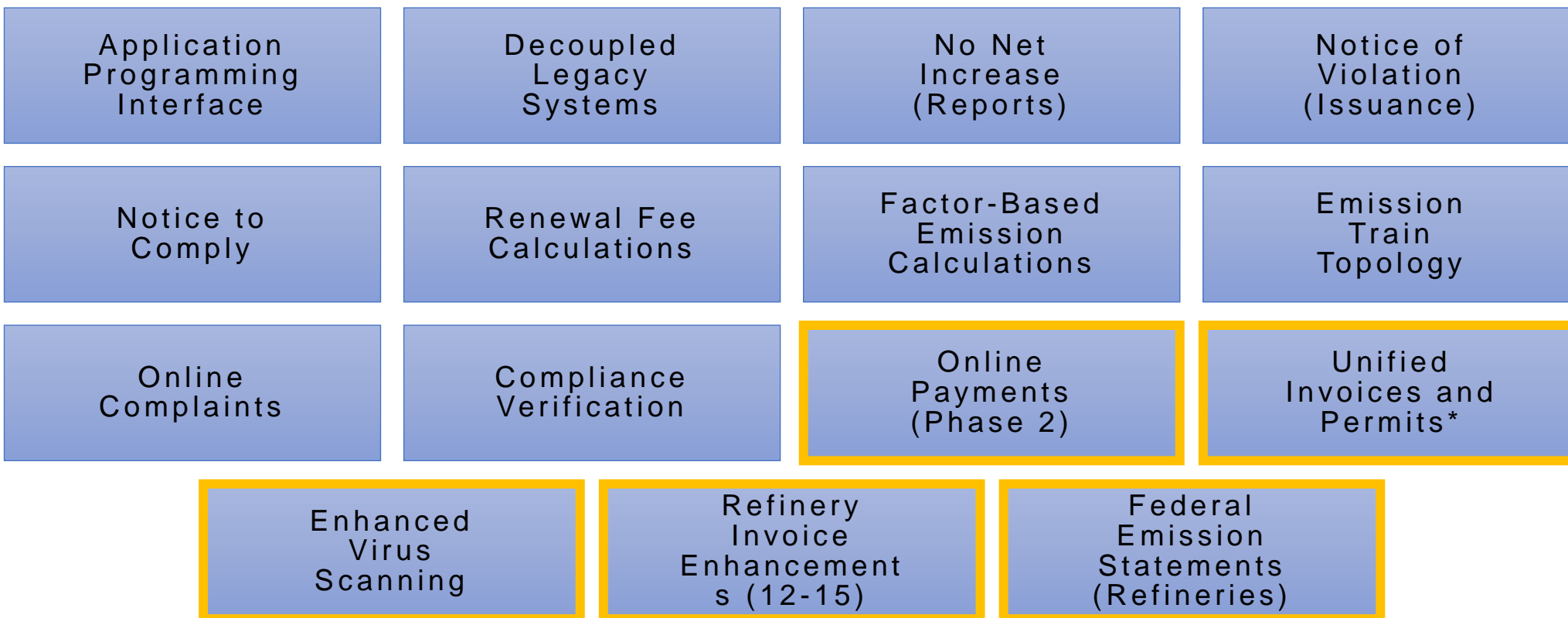
Authorize the Executive Officer/APCO to execute contract amendments, in an amount not to exceed \$1,915,540.

# Permitting and Compliance System: Current Features In Production



Gas Stations	Dry Cleaners	Autobody Shops	Charbroilers
Mobile Refinishing	Graphic Arts	Small Boilers	Agricultural Diesel Engines
Internal Combustion Engines	Public Complaints	Wood Smoke	Grants
Asbestos	Facility Inspections	General Investigations	Financial System Integration
Payment Reconciliation	Stipulated Abatement Orders	Online Payments (Phase 1)	Renewal Fee Update (FYE 2021)

# Permitting and Compliance System: Recent Accomplishments



# Remaining Permitting Features



## Databank

Device Input  
Forms\*

Source  
Modifications

Transfer of  
Ownership

Application  
Fees

No Net  
Increase  
(Administrative  
Interface)

Emissions  
Calculations  
(Offline)

Application  
Interface  
Enhancements

Conditions  
Manager

Toxics and  
Health Risk  
Assessments

CEM  
Data

Major Facility  
Application  
Interface

# Remaining Compliance Features



## Ingres Relational Information System (IRIS)

Reports  
(IRIS)\*

Area  
Assignment

Radio  
Telephone  
Operators  
(Dispatch)

Complaint  
Investigation

Mutual  
Settlement

Reportable  
Compliance  
Activities  
(Episodes)

Permit  
Applications

Transfer of  
Ownership

Hearing  
Board



# Internal Combustion Engine Permit Demo

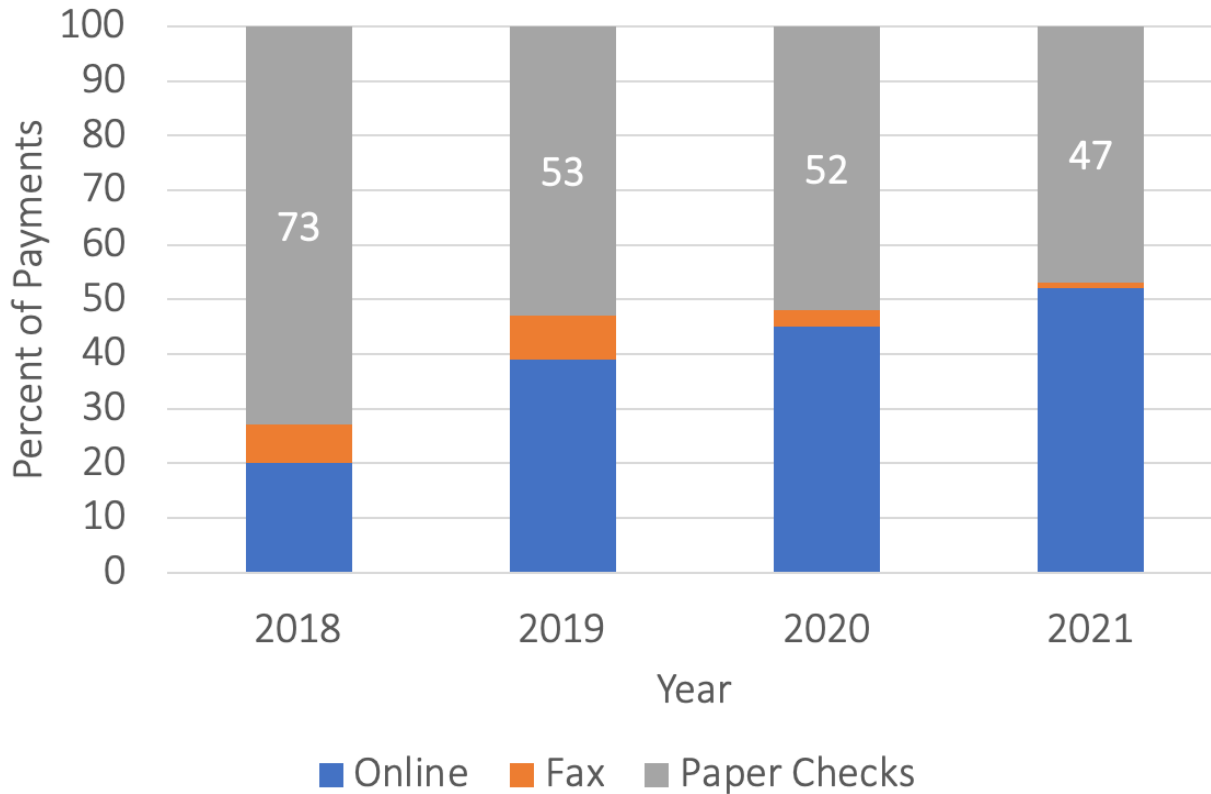


**Customer Submits a Permit Application**

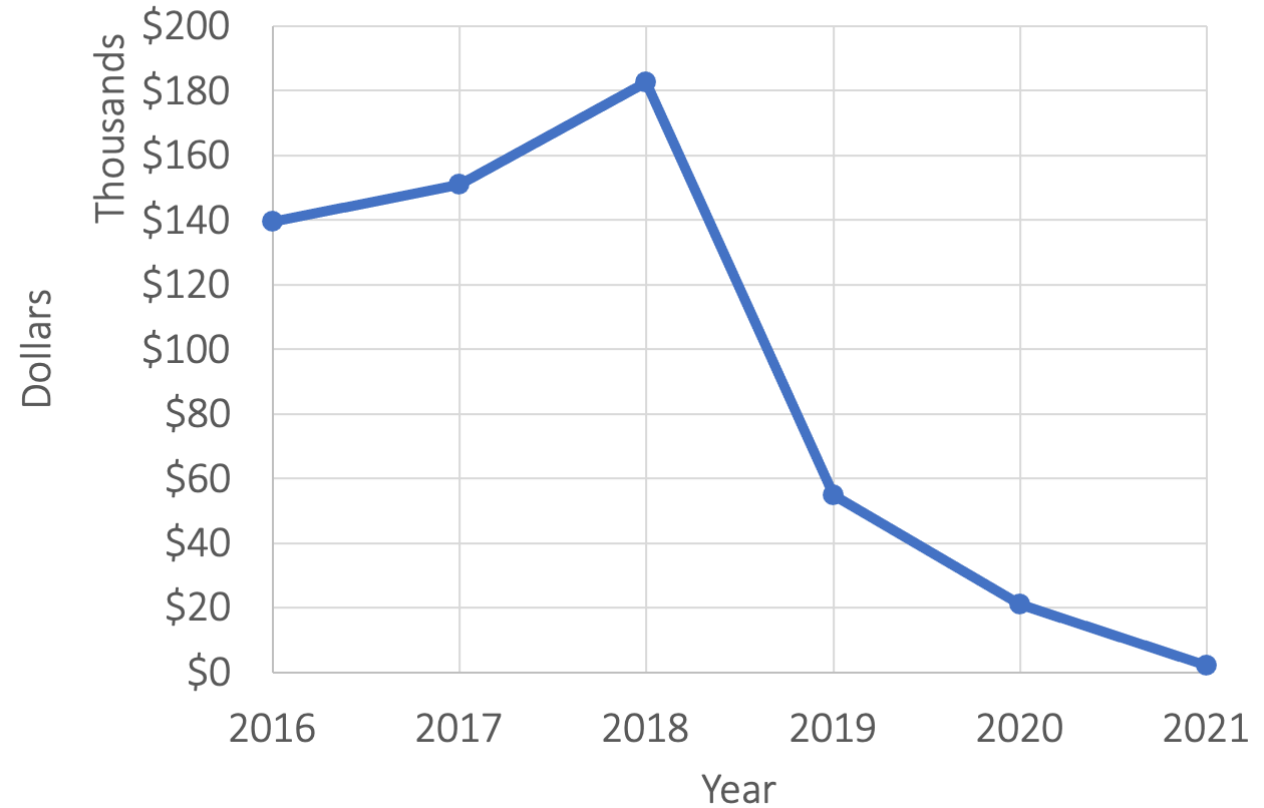
# Online Payments



### Online Payments



### Service Fees





# Web Traffic

3/1/2021

8/30/2021

**726K**

Sessions

**659K**

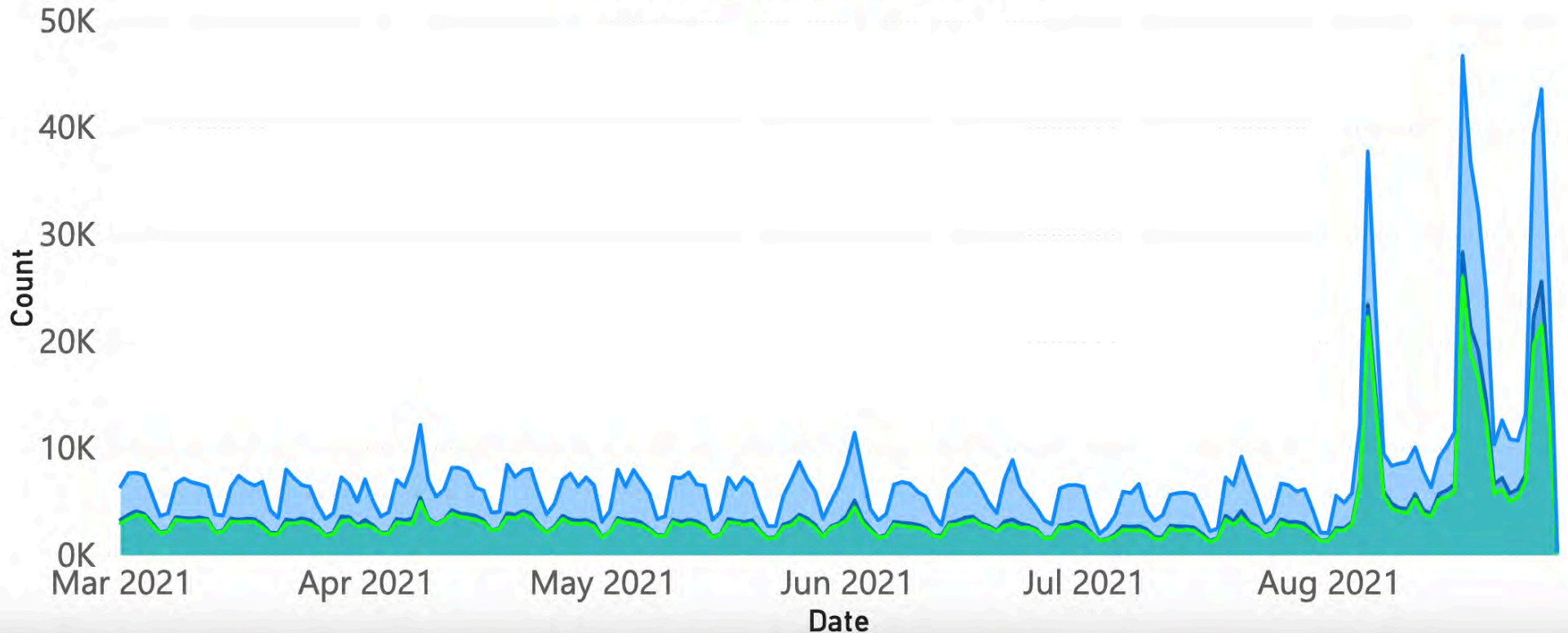
Users

**1M**

Pageviews

## District Website Usage

● Sessions ● Users ● Page Views

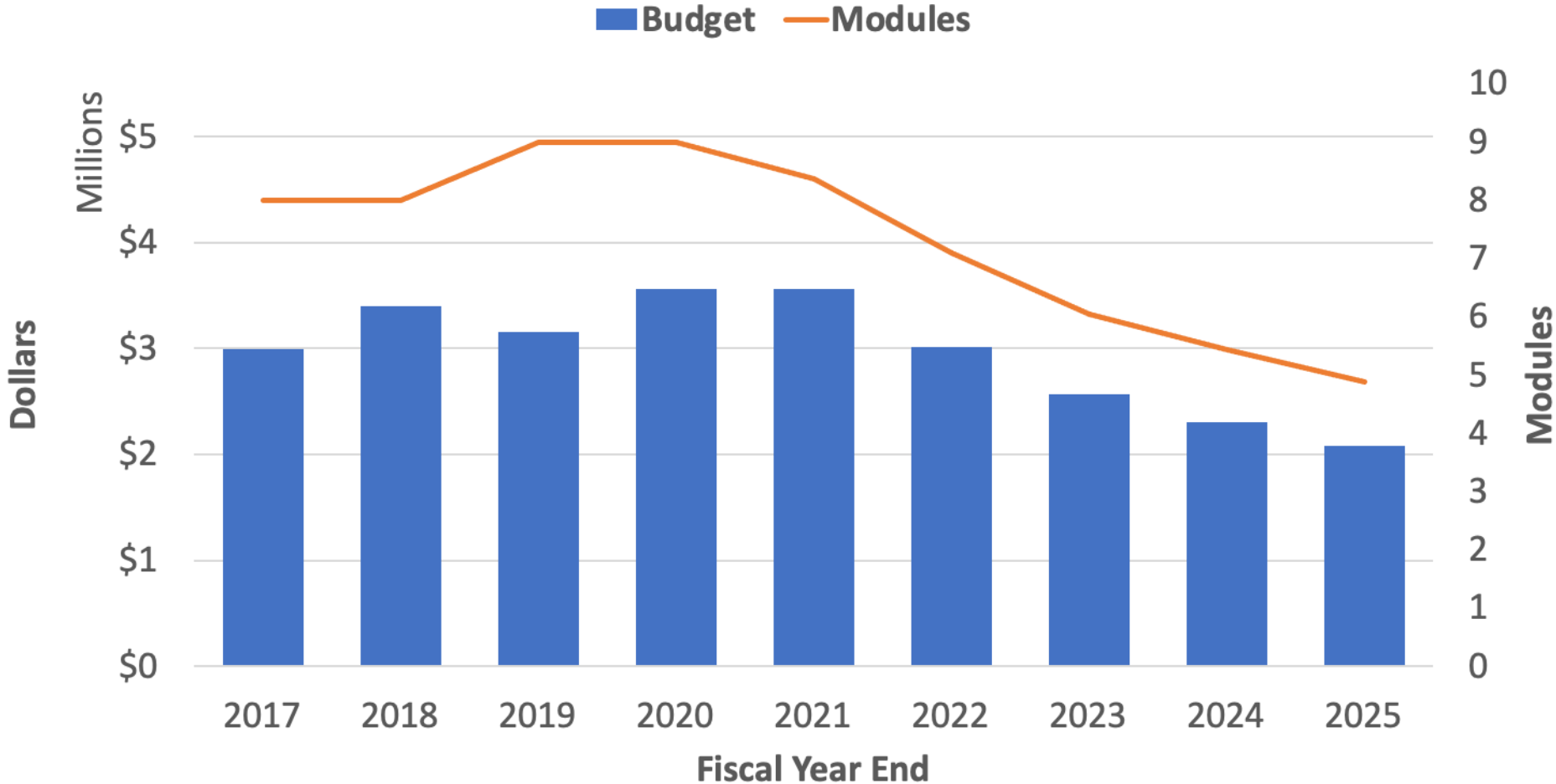


# Legacy Transition Roadmap Summary



Description	2020	2021	2022	2023
Major Facility Renewals				
Unified Payments, Permits and Invoices				
Facilities Cutover				
Legacy Deprecation				

# Budget: Past Actuals and Future Estimated



# Feedback Requested/Prompt



Authorize the Executive Officer/APCO to execute contract amendments, in an amount not to exceed \$1,915,540.



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AGENDA: 5

# Targeting Emissions Reductions from Single Occupancy Driving, *Flex Your Commute* and Expanded Broadband Internet

Board of Directors Special Meeting  
September 15, 2021

Lisa Fasano  
External Affairs Officer  
[lfasano@baaqmd.gov](mailto:lfasano@baaqmd.gov)

# Outcome



Plan to reduce single occupancy car trips reducing transportation emissions and greenhouse gases (GHG) throughout the Bay Area



Flex Your Commute to highlight benefits of providing a transportation program



Expansion of high-speed broadband internet access throughout the Bay Area



# Outline



- I. Setting the stage - Plan Bay Area 2050 Measures
- II. Flex Your Commute Program
- III. Broadband Internet Expansion - Bridging the Digital Divide

# Requested Actions



- Authorize the Executive Officer/APCO to transfer \$250,000 to the *Flex Your Commute* program account from the general fund to build out an employer focused messaging and partnership program; and
- Authorize the Executive Officer/APCO to sign a motion requesting party status with the California Public Utilities Commission (CPUC) to enable the Air District to submit formal written comments to the CPUC in its deliberative process to ensure investment in the broadband infrastructure and equitable build out of the “middle mile” connectivity.



Source: [Plan Bay Area](#)

# Plan Bay Area 2050



## Environmental Initiatives:

- EN7 – Expand commute trip reduction programs at major employers
- EN8 – Expand clean vehicle initiatives
- EN9 – Expand transportation demand management initiatives



Source: [Plan Bay Area](#)

# Plan Bay Area 2050 (cont.)



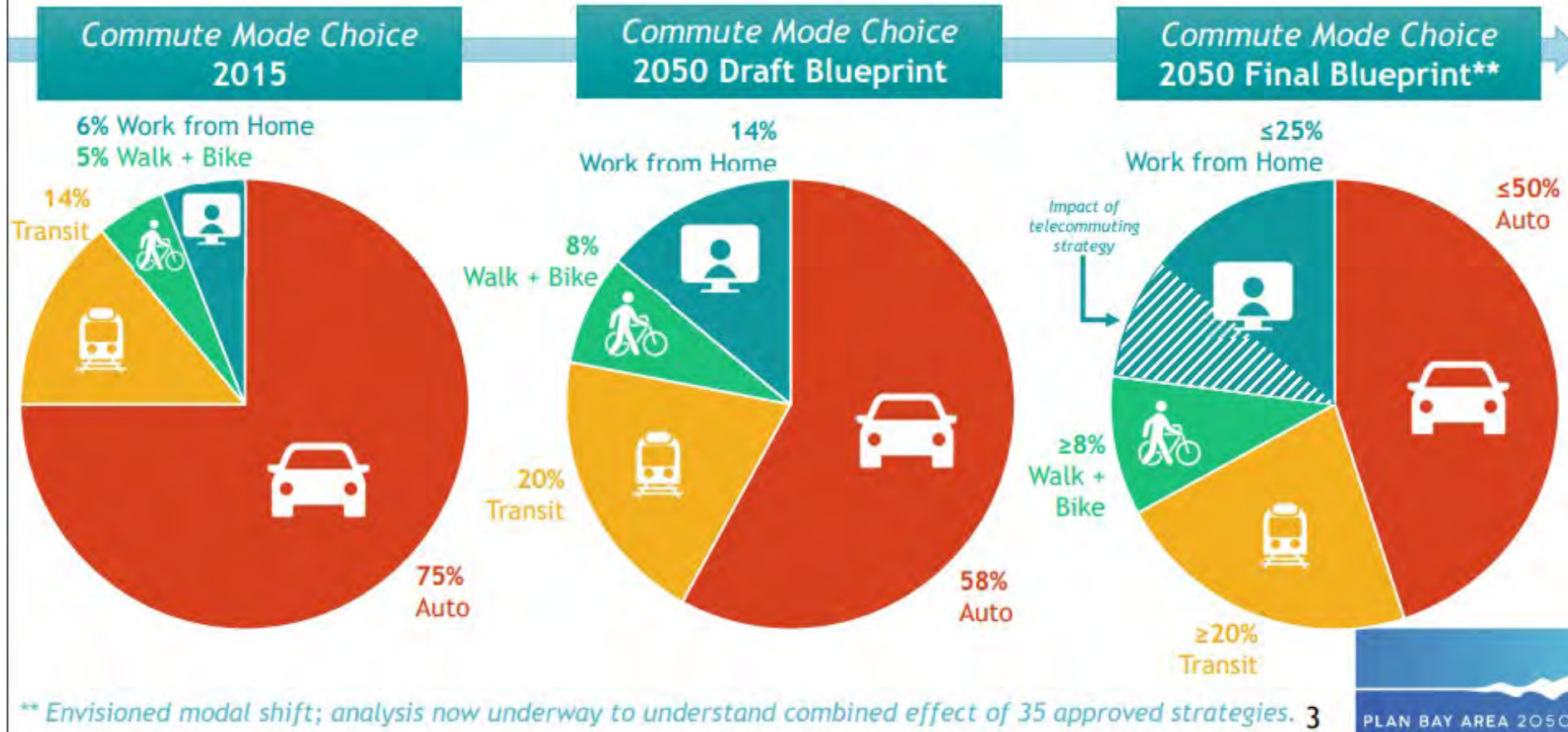
## Transportation Initiatives:

- T1 – Restore, operate and maintain existing transit infrastructure
- T2 – Support community-led transportation enhancements in Equity Priority Communities
- T3 – Enable a seamless mobility experience
- T4 – Reform regional transit fare policy
- T5 – Implement per-mile tolling on freeways with transit alternatives
- T8 – Build a complete streets network
- T10 – Enhance local transit frequency, capacity and reliability
- T11 – Expand and modernize regional rail network

# Plan Bay Area 2050 (cont.)



## Recap: Intent of Telecommuting Strategy (EN7)



Source: [Plan Bay Area](#)

# Flex Your Commute



**FLEX YOUR  
COMMUTE**  
*A BETTER WAY TO WORK*

Source: [Bay Area Air Quality Management District](#)

*Flex Your Commute* will improve air quality and reduce greenhouse gases through promotion of smart commute choices including **transit, telework, biking, carpooling, and vanpooling** to eliminate driving alone to work.

# Flex Your Commute (cont.)



## Program Elements:



Messaging – promoting commuting partnership



- Eliminate drive-alone commuting trips
- Motivate a culture of commuting innovation
- Advocate for safe, accessible, accommodation for all commuters

Training – commute partnership, successful programs, benefits



- Recognize reduced commuting stress leads to better quality of life
- Improve air quality and the environment through sustainable commute choices

# Broadband Internet Expansion



## Before the Public Utilities Commission:

- Order instituting rulemaking regarding broadband infrastructure deployment and support service
- Rulemaking 20-09-001
- CPUC provides locations for statewide open-access middle-mile broadband network
- CPUC required to solicit public comments



Source: [California Public Utilities Commission](https://www.cpuc.ca.gov/)



# Broadband Internet Expansion



- On March 11<sup>th</sup>, the President signed the American Rescue Plan Act of 2021
- Includes funds for states to deploy last-mile broadband internet networks
- SB 156 creates account, directs CPUC allocate \$2,000,000 to connect unserved and underserved communities by federal deadlines
- **Executive Officer/APCO requires Board approval to file a motion to become a party to provide formal written comments to the CPUC**

# Requested Actions



- Authorize the Executive Officer/APCO to transfer \$250,000 to the *Flex Your Commute* program account from the general fund to build out an employer focused messaging and partnership program; and
- Authorize the Executive Officer/APCO to sign a motion requesting party status with the California Public Utilities Commission (CPUC) to enable the Air District to submit formal written comments to the CPUC in its deliberative process to ensure investment in the broadband infrastructure and equitable build out of the “middle mile” connectivity.



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AGENDA: 6A

# Accept \$2 million in California Attorney General's Office Automobile Emissions Research and Technology Fund Grant

Board of Directors Special Meeting  
September 15, 2021

Idania Zamora, PhD  
Assistant Manager

[izamora@baaqmd.gov](mailto:izamora@baaqmd.gov)



# Outcome



- Provide context by describing the Community Clean Air Incentives framework; and
- Provide information about the Bay Area Healthy Homes Initiative; and
- Obtain the Board's support and approval to accept up to \$2 million from the California Attorney General's Office (AG's Office) to implement the Bay Area Healthy Homes Initiative with our partners

# Outline



- Background
  - AB 617 and Community Clean Air Incentives
  - Contra Costa County's Asthma Mitigation Project
- Bay Area Healthy Homes Initiative
  - Introduction
  - Partners and Clients
  - Actions and Benefits
- Recommendations



# Requested Action



## Recommend the Board of Directors:

1. Adopt a resolution authorizing the Executive Officer/APCO to accept, obligate, and expend up to \$2 million from the California Attorney General's (AG's) Office for the Bay Area Healthy Homes Initiative; and
2. Authorize the Executive Officer/APCO to enter into all agreements necessary to accept, obligate, and expend this funding.

# Community Health Protection Program (AB 617)



The Air District's **Community Clean Air Incentives** address social determinants of health and help vulnerable populations, including



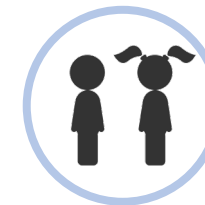
**Low-income**



**Seniors**



**Unhoused**



**Children**



**Pre-existing conditions**

# Community Clean Air Incentives Roadmap



## COMMUNITY CLEAN AIR INCENTIVES

Wildfire Smoke

Asthma Triggers

Transportation + Local Emissions  
*(incl. DPM)*

Climate Pollutants

Clean Air Filtration Program

Bay Area Healthy Homes Initiative

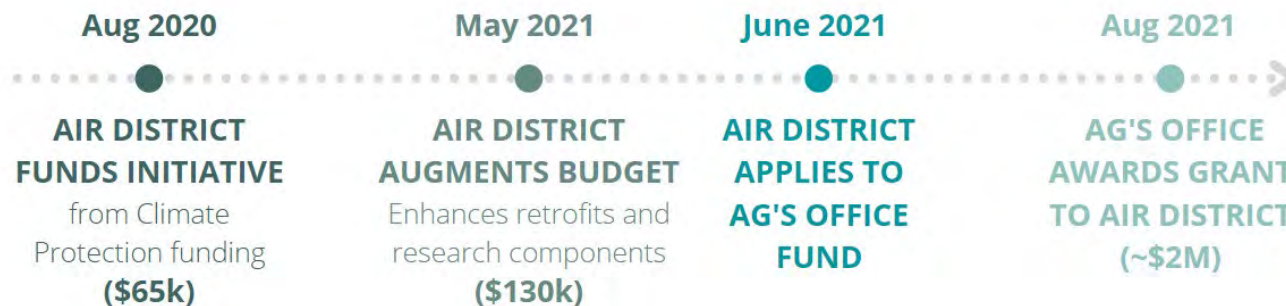


# Contra Costa (CC) County's Asthma Mitigation Project



This pilot integrates various **climate** and **health** interventions to improve outcomes of high-risk asthma patients

- Started by CC County, with its partners, in 2018
- Comprehensively addresses climate protection and cumulative pollution exposure for vulnerable groups



# Bay Area Healthy Homes Initiative



California AG's Office awarded Air District ~\$2 million grant from Automobile Emissions Research and Technology Fund

This grant would:

- Enhance program in Contra Costa County
  - 70 additional participants in 2 years
- Expand program to Alameda County
  - 35 participants in 2 years
- Build program's capacity and proficiency to serve as blueprint for the Bay Area region



# Initiative Partners and Clients



## Bay Area Healthy Homes Initiative (\$2M)

**Contra Costa  
Asthma Mitigation Project (>\$1M)**

**Alameda County  
Indoor Air Quality Improvement Initiative (<\$1M)**

OUR  
PARTNERS



OUR  
CLIENTS

### PATIENT SELECTION PATHWAY (Both programs)

- ❶ High-risk asthma patients (adults & children)
- ❷ Community impacted by air pollution
- ❸ < 1000 ft from major transportation sources



### RESIDENT SELECTION PATHWAY (Alameda County)

# Initiative Actions and Benefits



## INITIATIVE AREAS

## INITIATIVE COMPONENTS

## INITIATIVE BENEFITS

Home Asthma Education and Mitigation

Home visits for asthma education and asthma trigger assessment  
e.g., Coordinate with primary care provider on Asthma Action Plan

Consumer supplies to reduce asthma triggers  
e.g., green cleaning supplies, integrated pest management

Remove asthma triggers from home  
e.g., address moisture issues, allergens, and irritants

Energy Efficiency and Weatherization

Energy efficiency assessment  
e.g., determine measure needed and match needs to funding sources

Lower energy bills and improve home comfort  
e.g., heat pumps, HVAC, energy-efficient appliances, insulation

Outdoor Pollution Exposure Reduction

Prevent exposure to automobile/outdoor emissions  
e.g., window replacements, building envelope improvements, enhanced air filtration

Indoor Air Monitoring

Air quality measurements of indoor concentrations of CO, NO<sub>x</sub>, and PM on selected homes



**Improve Health**



**Reduce Climate Pollutants**



**Reduce Exposure**



**Quantify Benefits**

# Feedback Requested/Prompt



## Recommend the Board of Directors:

1. Adopt a resolution authorizing the Executive Officer/APCO to accept, obligate, and expend up to \$2 million from the California Attorney General's Office for the Bay Area Healthy Homes Initiative; and
2. Authorize the Executive Officer/APCO to enter into all agreements necessary to accept, obligate, and expend this funding.



**Questions?**



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AGENDA: 6B

# **Move \$1 million in Reserves from the Pandemic Contingency to the Wildfire Mitigation Designation**

**Board of Directors Special Meeting  
September 15, 2021**

**Tracy Lee, Manager  
Compliance and Enforcement Division  
[tracylee@baaqmd.gov](mailto:tracylee@baaqmd.gov)**

# Outcome



- Seeking additional funding to further enhance the Wildfire Air Quality Response Program in 2022.



# Outline



- Community Clean Air Incentives Roadmap
- Overview of Wildfire Air Quality Response Program and Key Initiatives
- Clean Air Filtration Funding and Project Locations
- Next Steps – 2022 Wildfire Program Outlook
- Reserves Designation
- Requested Action

# Requested Action



Recommend the Board of Directors:

- Authorize the Executive Officer/APCO to allocate an additional \$1 million to the Wildfire Mitigation Reserves Designation and to reduce the Pandemic Reserves Designation by \$1 million.

# Community Clean Air Incentives Roadmap



COMMUNITY CLEAN AIR INCENTIVES

## Clean Air Filtration Program

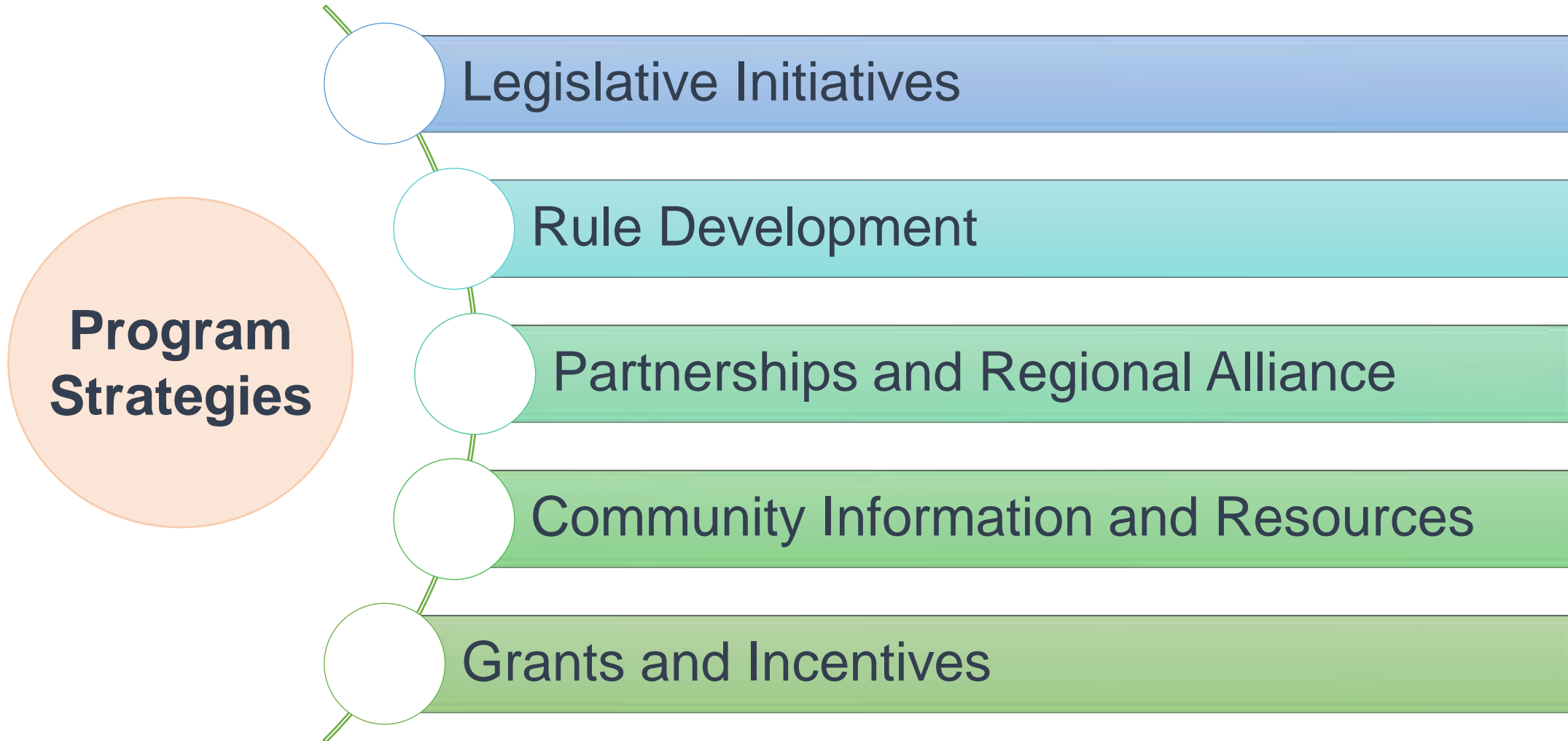
Home Air Filtration Program

Air Filtration for Wildfire Evacuation, Sheltering and Congregate Centers

Clean Air Centers for Vulnerable Populations [Assembly Bill 836]

School Air Filtration Supplemental Environmental Projects (SEP)

# Wildfire Air Quality Response Program (WAQRP)



# Program Initiatives



## Wildfire Prevention and Preparedness

- Wildfire Prevention Chipping Pilot Program
- Fire Hazard Reduction (Reg 5)
- Year-round Mandatory Burn Ban (Rule 6-3)
- Air Quality Monitoring and Forecasting
- Communications, Education and Outreach and Access to Informational Resources

## Clean Air Filtration (CAF)

- Home Air Filtration Program
  - Partnership with Regional Asthma Management and Prevention
  - *New* – Shelters for the unhoused
  - *New* – Expand program to Marin, Napa and Solano Counties
- Partnerships with county Office of Emergency Services
- Cleaner Air Centers – Assembly Bill 836
- Pilot program and partnership with American Red Cross
- *New* – Solicitation for donations
- School air filtration supplemental environmental project (SEP)

# CAF Funding and Locations



<b>Home Air Filtration Program</b> <ul style="list-style-type: none"> <li>- Partnership with Regional Asthma Management and Prevention (RAMP)</li> <li>- <b>New</b> – Program expansion in Marin, Napa and Solano counties</li> <li>- <b>New</b> – Shelters for the unhoused</li> </ul>	\$350,000
<b>Partnerships with County Office of Emergency Services</b>	\$900,000 (\$100,000 to each county)
<b>Pilot Program and Partnership with American Red Cross</b>	\$25,000
<b>Clean Air Centers – Assembly Bill 836</b>	\$3 million
<b><i>New</i> – Solicitation for Donations</b>	n/a
<b>School Air Filtration SEP</b>	\$2 million
<b>Total</b>	<b>\$6,275,000</b>



# CAF Funding and Locations (cont.)



<b>Home Air Filtration Program</b> <ul style="list-style-type: none"> <li>- Partnership with Regional Asthma Management and Prevention (RAMP)</li> <li>- <b>New</b> – Program expansion in Marin, Napa and Solano counties</li> <li>- <b>New</b> – Shelters for the unhoused</li> </ul>	\$350,000
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<b>New – Solicitation for Donations</b>	n/a
<b>School Air Filtration SEP</b>	\$2 million
<b>Total</b>	<b>\$6,275,000</b>



# CAF Funding and Locations (cont'd)



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# CAF Funding and Locations (cont.)



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# Next Steps – 2022 Wildfire Program Outlook



- Continue to strengthen partnerships to improve health equity across region
  - Host public workshop with Air District partners to solicit community input on wildfire program efforts
- Expand projects and provide access to clean indoor air to those most vulnerable in all nine counties
- Enhance public education and informational resources
- Leverage Air District funds with federal and state dollars
- Report back to the Board on enhanced program in January 2022

# Reserves Designations



GENERAL FUND RESERVES	
	\$M
<b>Reserves Balance at June 30, 2020</b>	<b>54.0</b>
<b><u>Less: Designations</u> *</b>	
Community Benefits	-3.0
Pension Liability	-3.0
Wildfire Mitigation	-2.0
Revolving Loan Program	-3.4
AB 617 Staffing Contingency	-6.0
Pandemic Contingency	-7.0
Economic Contingency (20% of Budget)	-23.3
<b>Total Designations</b>	<b>-47.7</b>
<b><u>Less: Use of Reserves</u></b>	
Use to Balance FY2021 Budget	-5.2
Use to Balance FY2022 Budget	-0.5
<b>AVAILABLE GENERAL FUND RESERVES</b>	<b>0.6</b>
<i>* Designations subject to change at Board's Direction</i>	

# Requested Action



Recommend the Board of Directors:

- Authorize the Executive Officer/APCO to allocate an additional \$1 million to the Wildfire Mitigation Reserves Designation and to reduce the Pandemic Reserves Designation by \$1 million.



# Questions?