



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 4

Solicitation for Electric Charging Infrastructure for Medium- and Heavy-duty Vehicles and Equipment

**Mobile Source & Climate Impacts
Committee Meeting
June 14, 2023**

**Minda Berbeco, PhD
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Action Item



Action item for the Committee to consider recommending to the Board of Directors:

- Approve the process and selection criteria for a new competitive solicitation for electric charging infrastructure for medium- and heavy-duty vehicles and equipment.

Outline



- Background on Solicitation
- Program Overview
- Proposed Process and Selection Criteria
- Tentative Timeline
- Recommendation

Background



- Adoption of zero-emission medium- and heavy-duty equipment and vehicles is in early stages
- Charging infrastructure takes time to deploy and is critical for successful adoption of electric vehicles and equipment
- California Air Resources Board (CARB)-adopted guidelines for incentive programs provide additional flexibility for competitive solicitations that include selection criteria approved by an air district's board

Background



Goal: To spur the deployment of zero-emission vehicles and equipment in the Bay Area by funding permanent infrastructure installations

- **Develop pilot to fund ready and needed, cost-effective projects**
- **Remove barriers** that have been experienced in other solicitations
- **Expedite zero-emissions projects in priority communities**
- Learn and develop a **model to use for future solicitations** that can help spur the transition to zero-emission vehicles and equipment

Program Attributes



- \$30 million available
- Projects must comply with CARB-adopted Carl Moyer Program guidelines
- Public and private applicants are eligible
- Applications must demonstrate that project can be completed within two years from date of award and equipment is needed
- Award at least 80% of funding to projects in priority communities

Eligible Categories



Electric charging infrastructure that supports:



On-Road Vehicles

- Transit Buses
- School Buses
- Heavy-duty Trucks

Off-road Equipment

- Agricultural Equipment
- Construction Equipment
- Forklifts
- Cargo Handling Equipment

Marine & Locomotives

Proposed Selection Criteria

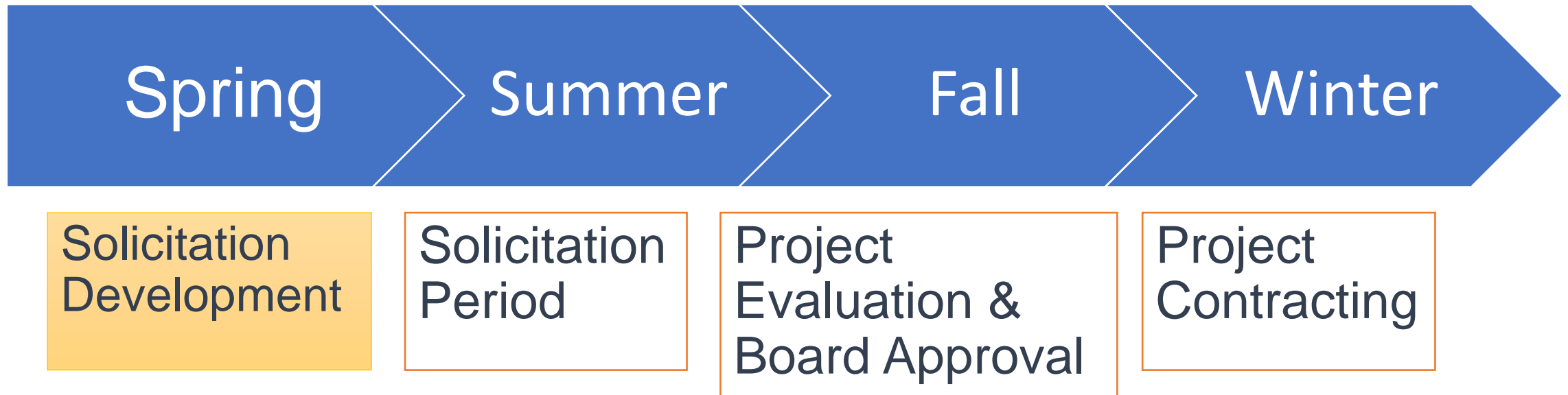


- ✓ Statement of Need
- ✓ Readiness
- ✓ Ratio of funds requested / kW available for charging
- ✓ At least 80% of the funding for projects located in priority communities



If oversubscribed, tiebreaker would consider proximity of project to sensitive receptor

Tentative Timeline



Recommendation



Committee to consider recommending the Board of Directors approve the process and selection criteria for a new competitive solicitation for electric charging infrastructure for medium- and heavy-duty vehicles and equipment.



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AGENDA: 5

Projects and Contracts with Proposed Awards over \$500,000

**Mobile Source & Climate Impacts
Committee Meeting
June 14, 2023**

**Jessica DePrimo, Supervising Staff Specialist
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Presentation Outcome



Action item *for the Committee to consider recommending the Board of Directors:*

1. Approve recommended projects with proposed grant awards over \$500,000 as shown in Attachment 1; and
2. Authorize the Executive Officer/Air Pollution Control Officer to enter into all necessary agreements with applicants for the recommended projects.

Presentation Outline



- Background
- Proposed projects with awards over \$500,000
- Status of incentive funding
 - Revenue sources
 - Community benefits & project locations
- Recommendations

CMP/MSIF, CAPP, and FARMER



Carl Moyer
Program
(CMP)

Funding Agricultural
Replacement Measures
for Emission
Reductions **(FARMER)**

Community Air
Protection Program
(CAPP)

Mobile Source
Incentive
Fund
(MSIF)

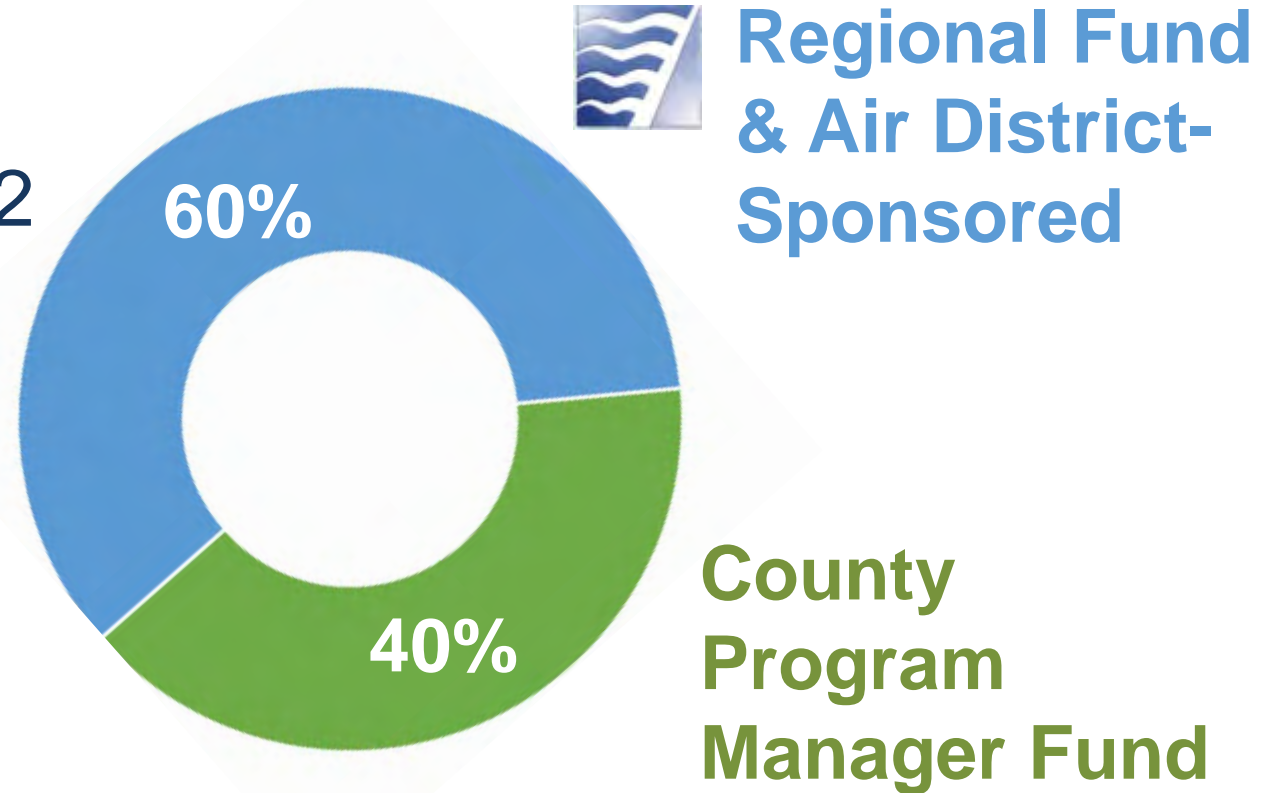
California Air Resources Board
\$76 million

DMV Fees
\$12 million

Transportation Fund for Clean Air (TFCA)



- Statutory authority set forth in California Health and Safety Code Sections 44241 and 44242
- Funding provided by a \$4 surcharge on motor vehicles



Proposed Projects



Recommend \$4,770,081 in awards for four projects that:

- Replace 8 diesel school buses with 8 electric buses & install supporting infrastructure*
- Install 12 DC fast chargers
- Replace a total of 9 Tier 1 & 2 diesel tractors with 9 Tier 4 final tractors



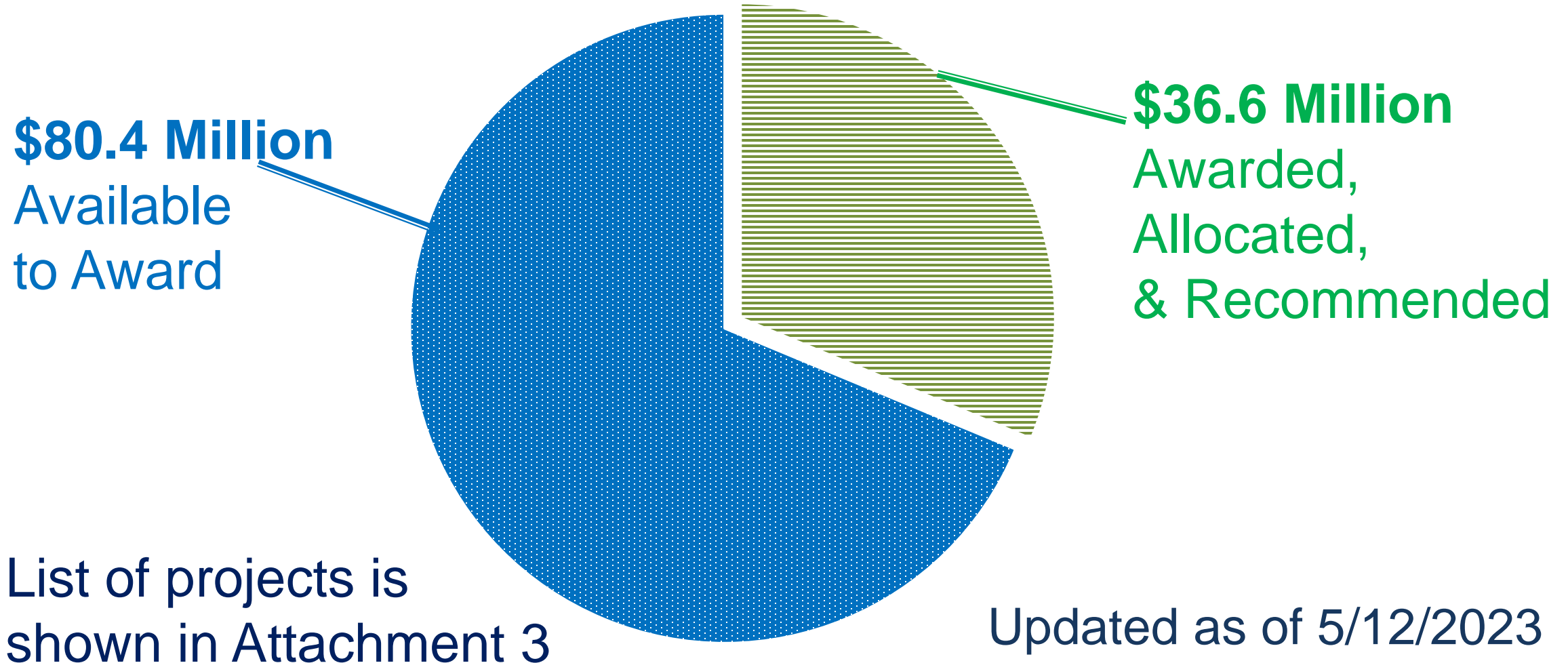
Emissions Reductions

- Over 2.1 tons per year of criteria pollutants

** 6 buses previously approved but requesting approval of funding for 2 chargers*



Incentive Funds Awarded & Remaining since July 2022



Funds Awarded by Project Category Since July 2022 (in Millions)



Total = \$36.6 Million



**Light-duty
Infrastructure
and Cars**

\$6.4

**Trucks
&
Buses**

\$4.6

**School
Buses**

\$15.8

**Off-road
Equipment**

\$7.4

**Marine
& Rail**

\$0

**Trip
Reduction**

\$2.4

Updated as of 5/12/2023

Funds Awarded by County since July 2022



\$36.6 million

Total Funds Awarded

41.8 tons/year

Total Emissions

Reductions

(NO_x, ROG, PM)

Note: reductions from
regional allocations not
reported

COUNTY	FUNDS AWARDED	
Alameda	\$ 7.7 million	21.2 %
Contra Costa	\$ 8.2 million	22.8 %
Marin	\$ 1.9 million	5.4 %
Napa	\$ 3.1 million	8.4 %
San Francisco	\$ 0.7 million	1.8 %
San Mateo	\$ 7.3 million	20.2 %
Santa Clara	\$ 3.9 million	10.7 %
Solano	\$ 1.5 million	4.3 %
Sonoma	\$ 1.9 million	5.2 %

Benefits to Priority Areas

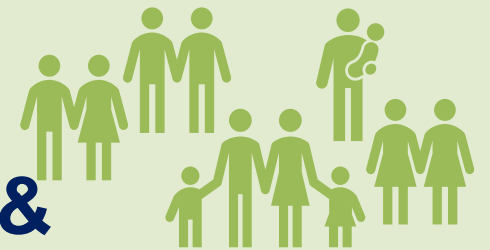


Total = \$36.6 Million



~\$3M allocated to regional grants

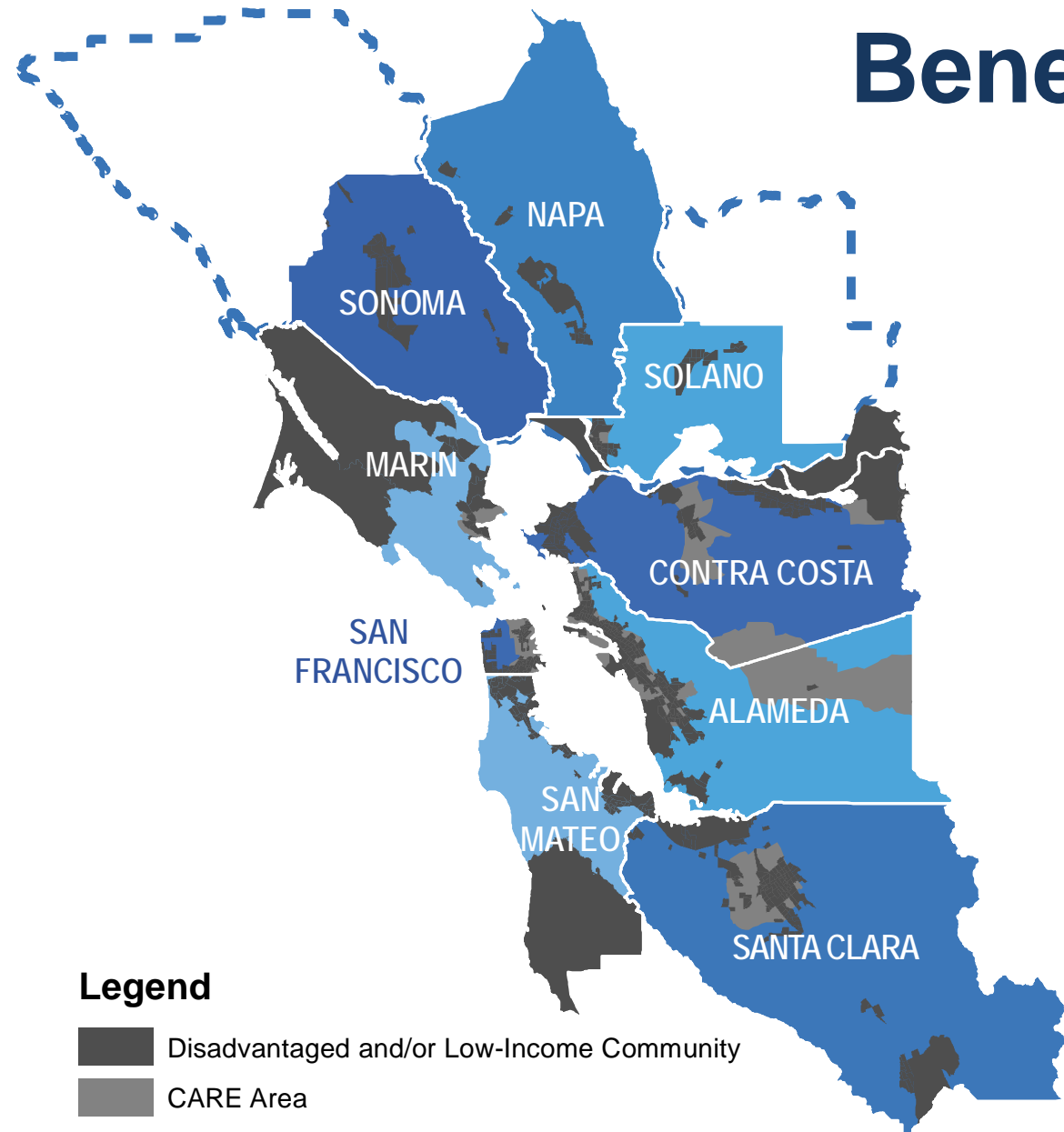
~\$30.3M to projects benefitting Priority Areas

- CARE areas
- Disadvantaged & low-income communities
- Low-income residents



Legend

-  Disadvantaged and/or Low-Income Community
-  CARE Area



Actions Requested



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