

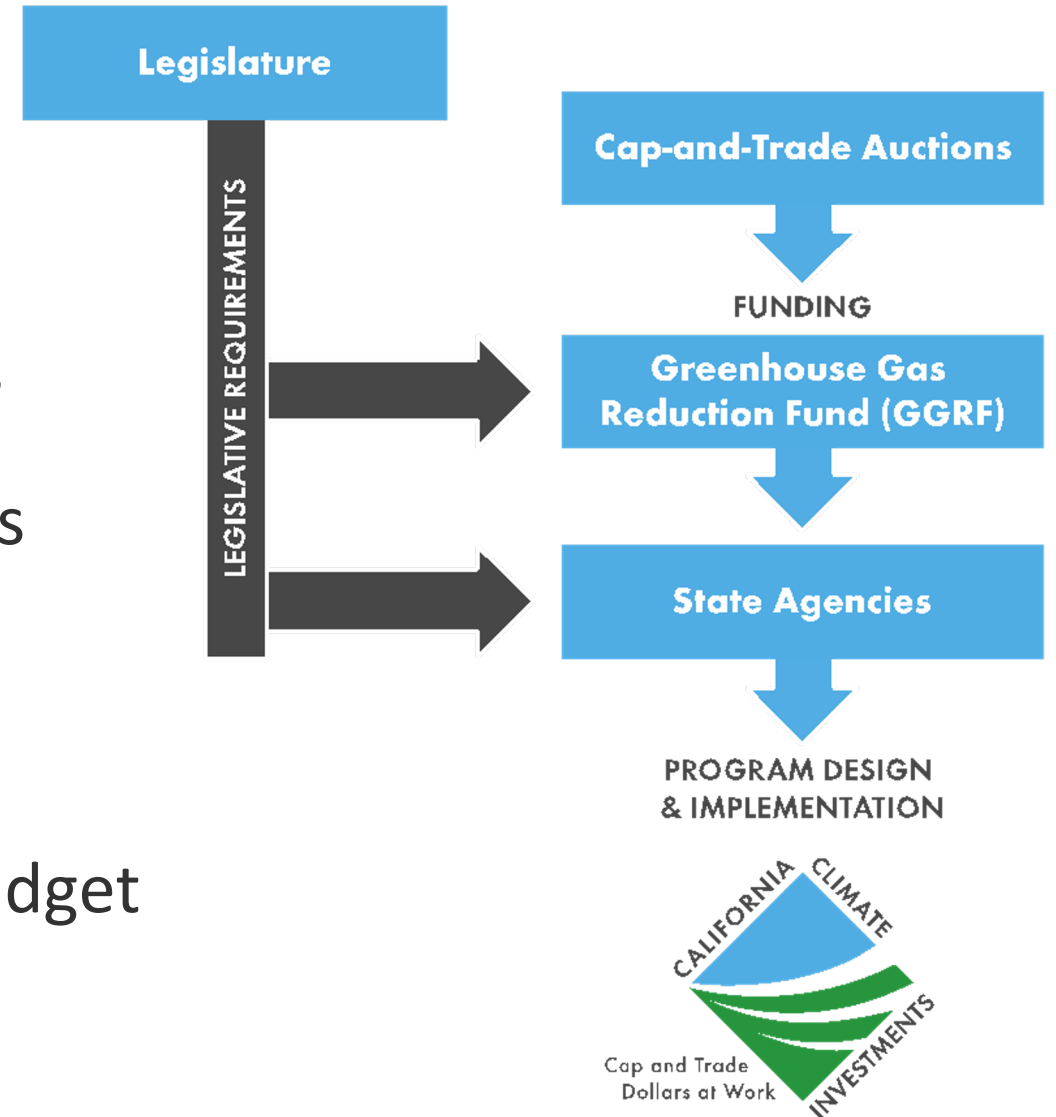
CALIFORNIA CLIMATE INVESTMENTS

Cap and Trade Dollars at Work



Program Overview

- **Legislative framework requires:**
 - Transparency of fund use
 - Programs pursue specific goals (GHGs, disadvantaged communities)
 - CARB to develop guidance for agencies
 - Annual Report on project outcomes
 - Triennial Investment Plan
- **Appropriation process:**
 - 65% continuous; remainder annual Budget process
 - \$18.3 billion appropriated



Administering Agencies



Ten Years Later: Lessons Learned

- Coordination and partnership with implementing agencies
- Technical assistance and capacity building
- Targeting benefits to priority populations
- Defining benefits and equity metrics
- Estimating and reporting benefits
 - Clear metrics
 - Clear expectations



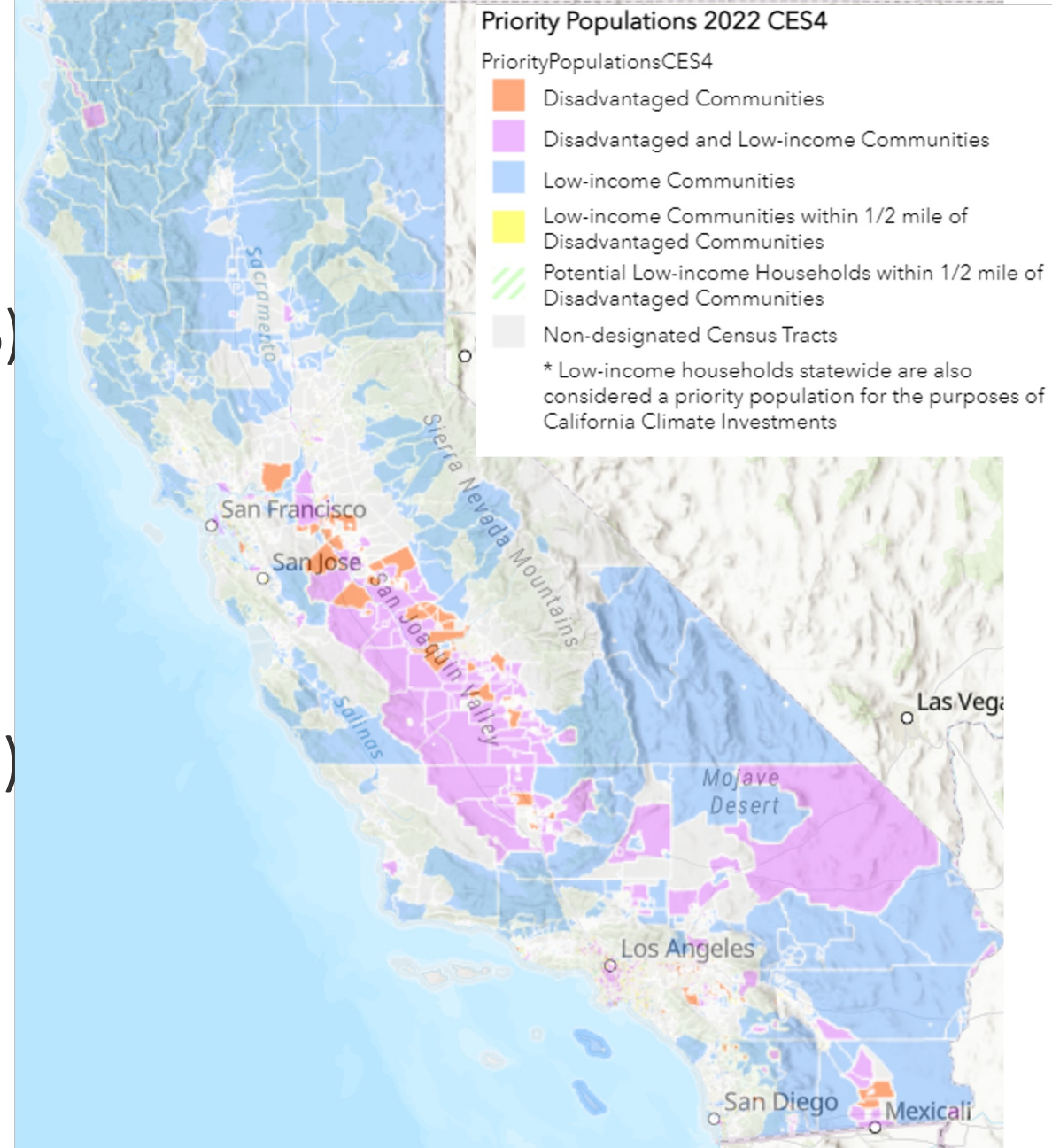
Coordination with Agencies

- CARB's Funding Guidelines:
 - Set guiding principles and requirements
 - Used by agencies as they design programs
 - Support accountability and transparency
- Regular coordination meetings
 - Community outreach and engagement
 - Social media and newsletters
- Technical assistance and capacity building



Priority Populations

- Assembly Bill 1550
 - Disadvantaged communities (25%)
 - Low-income communities and households (5%)
 - Low-income communities and households within ½ mile of disadvantaged communities (5%)
- CalEnviroScreen v4.0 (launched 2022)
 - Designations updated
 - Added Tribal lands
- CARB sets investment targets for individual programs



Defining Equity Benefits

- Require agencies to evaluate project benefits
- To be counted as a benefit, a project must:
 - Provide direct, meaningful, and assured benefits
 - Address a community need
 - Meet defined criteria, specific to project type
 - Avoid substantial burdens
- Public input on benefits and needs
- Benefit only one category



Estimating and Reporting Benefits

- Quantification methodologies for GHG and co-benefits
- Prospective analysis, project-level
- Web-based reporting platform

Equation 3: Emission Reductions from Solar PV Generation

$$\text{Emission Reductions} = \sum_{n=1}^{30} (1 - R_{\text{degradation}})^{n-1} (PV_{\text{production}}) (EF_{\text{electricity}})$$

<i>Where,</i>		<u>Units</u>
<i>n</i>	= Any given year	
30	= Estimated useful life of solar PV systems ⁴	years
$R_{\text{degradation}}$	= Rate of system degradation (0.5)	% per year
$PV_{\text{production}}$	= Annual electricity generated based on PVWatts Calculator	kWh per year
$EF_{\text{electricity}}$	= Emission factor for electricity	MTCO _{2e} per kWh; lbs per kWh

California Air Resources Board

Quantification Methodology

Department of Community Services and Development

Low-Income Weatherization Program:
Single-Family Energy Efficiency and Solar Photovoltaics
Multi-Family Energy Efficiency and Renewables

California Climate Investments



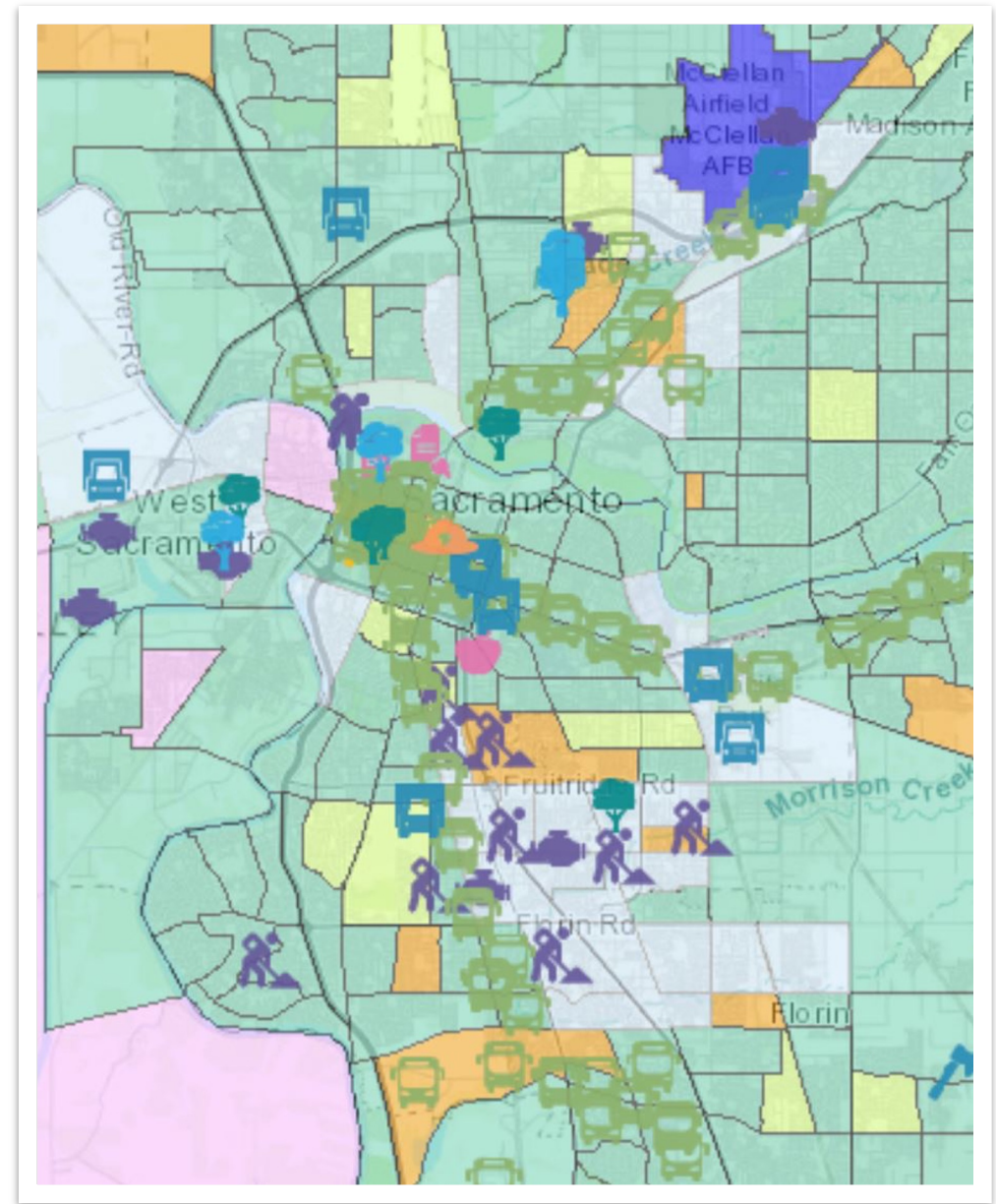
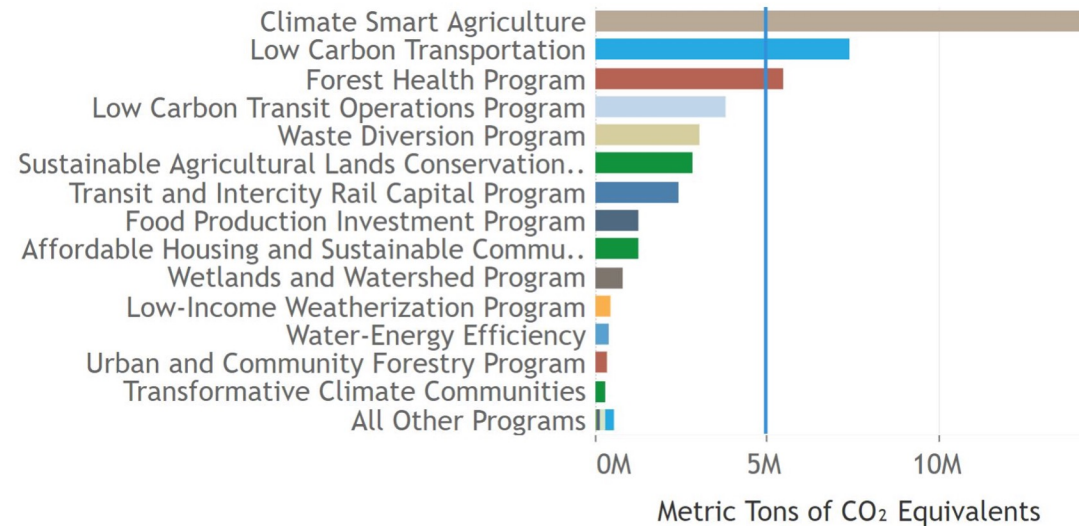
January 22, 2019

Reporting Outcomes

Overview	GHG Reductions and Annual Investments	Project Investments	State Budget Appropriations	Additional Benefits
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Estimated Greenhouse Gas (GHG) Reductions

Projects are expected to provide the estimated GHG reductions over time periods ranging up to 100 years. GHG reductions and funding amounts are displayed by default for all investments.





Cumulative Project Outcomes

California Climate Investments programs are reducing GHG emissions at an average cost of **\$138 PER MTCO₂e**



50% of funding benefiting priority populations (\$5.2 billion+)



800+ transit agency projects funded, adding or expanding transit service



563,812 individual projects implemented



419,000 rebates issued for zero-emission and plug-in hybrid vehicles



8,939 affordable housing units under contract



721,000 acres of land preservation or restoration



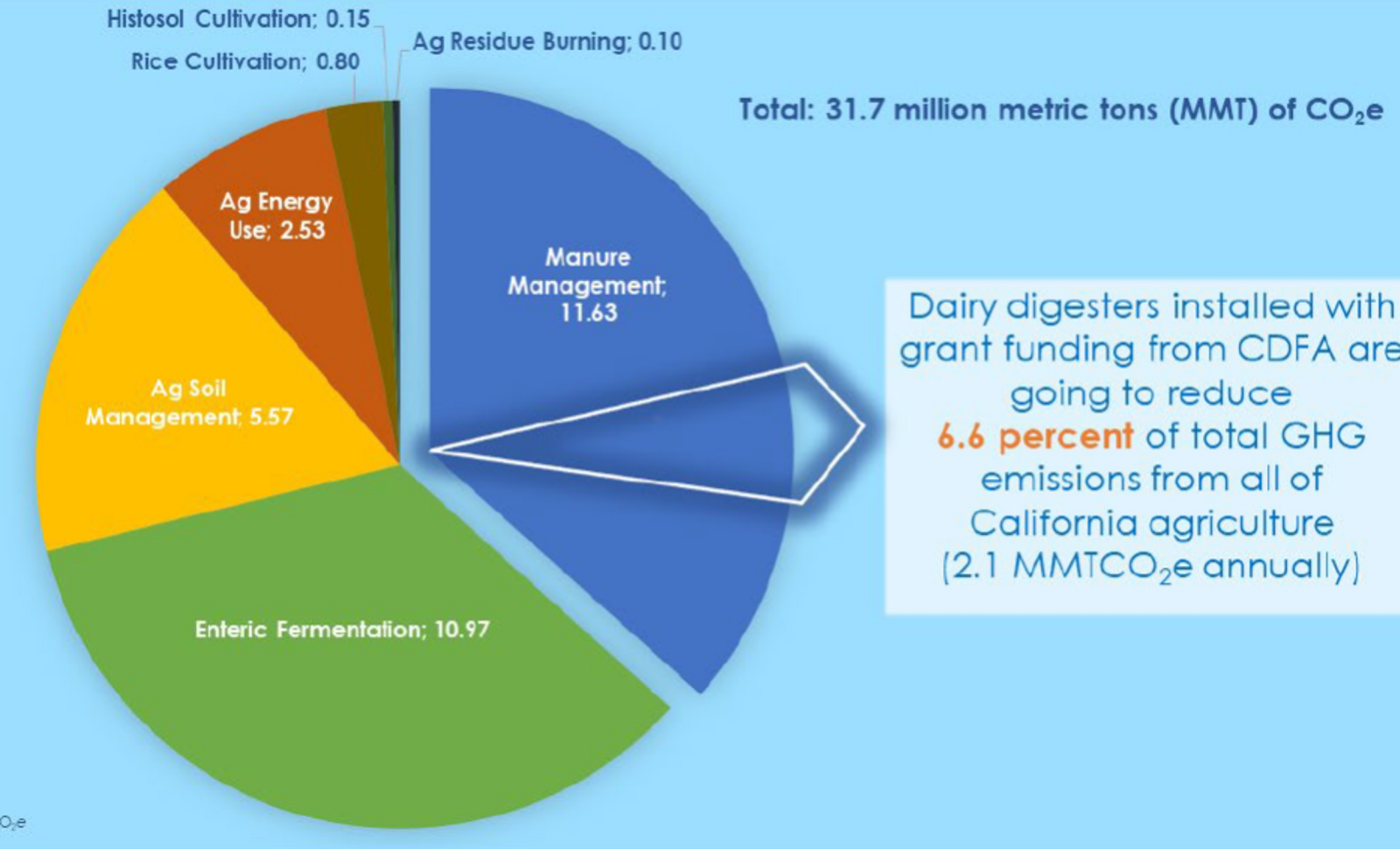
170,000 urban trees



70,000 tons of criteria air pollutant reductions

Dairy Digester Program (CDFA)

Annual GHG Emissions from Agriculture in California



Cumulative Outcomes

As of November 30, 2021

\$289.1 million collectively allocated to this program and the Alternative Manure Management Program

\$195.3 million implemented

\$130.1 million benefiting **priority populations**

21,006,554 MTCO₂e estimated GHG emissions reductions

118 projects implemented

17,731,714 gallons of fuel generated

Forest Health Program (CAL FIRE)



Cumulative Outcomes

As of November 30, 2021

\$382.1 million implemented

\$143.2 million benefiting **priority populations**

14,430,536 MTCO₂e GHG emissions reductions

203 projects implemented

48,575 acres of forest restored

3,673,640 trees

240,521,601 kWh renewable energy generated

Clean Cars 4 All (CARB)



Cumulative Outcomes

As of May 30, 2021

\$177.0 million allocated

\$89.7 million implemented

\$81.3 million benefiting **priority populations**

79,979 MTCO₂e estimated GHG emissions reductions

11,340 projects implemented

\$57.5 million benefiting low-income households

7,242 projects benefiting low-income households

Clean Cars 4 All (CARB)

- Distributed to regional air districts
- Income threshold
 - 4X Federal poverty limit
- Location limitations
 - Disadvantaged community residents
- Eligible vehicles
 - Purchase or lease
 - New or used
 - Hybrid, plug-in hybrid, or battery-electric
 - Alternative mobility options



CCI Resources

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