

# SPUR

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#SpareTheAir



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# ***Spare the Air – Cool the Climate*** ***A Blueprint for Clean Air and Climate*** ***Protection in the Bay Area***

**SPUR – San Francisco Bay Area  
Planning and Urban  
Research Association**

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# Bay Area Air Quality Management District

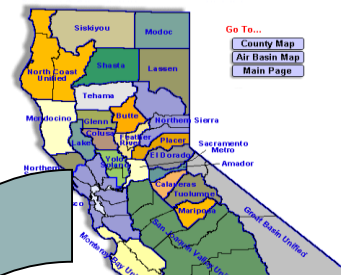
## Large, complex region:

- 9 counties / 101 cities
- 7 million people
- 2.6 million households
- 5 million vehicles

## Anticipated growth by 2040:

- 9 million people
- 3.4 million households
- 20% increase in driving

California Air Districts



A photograph of the Golden Gate Bridge in San Francisco, California, spanning across the water. The bridge is a suspension bridge with two large towers and cables. The sky is clear and blue, and the water is a deep blue. In the foreground, there are some green trees and a building.

# Regional Air Quality Planning

## Historic planning

- 1 pollutant at a time (ozone, particulate matter)
- Focus on meeting state & federal standards

## Growth in importance of other pollutants

- Local: toxic air contaminants
- Global: greenhouse gases

## Multi-pollutant planning

- Maximize co-benefits
- Minimize trade-offs
- 2010 Clean Air Plan



# Tools and Objectives

- Rules and permits
- Grants & incentives
- Partnerships
- Local government collaboration
- Community engagement
- Research



# Critical Challenges

## Climate Change

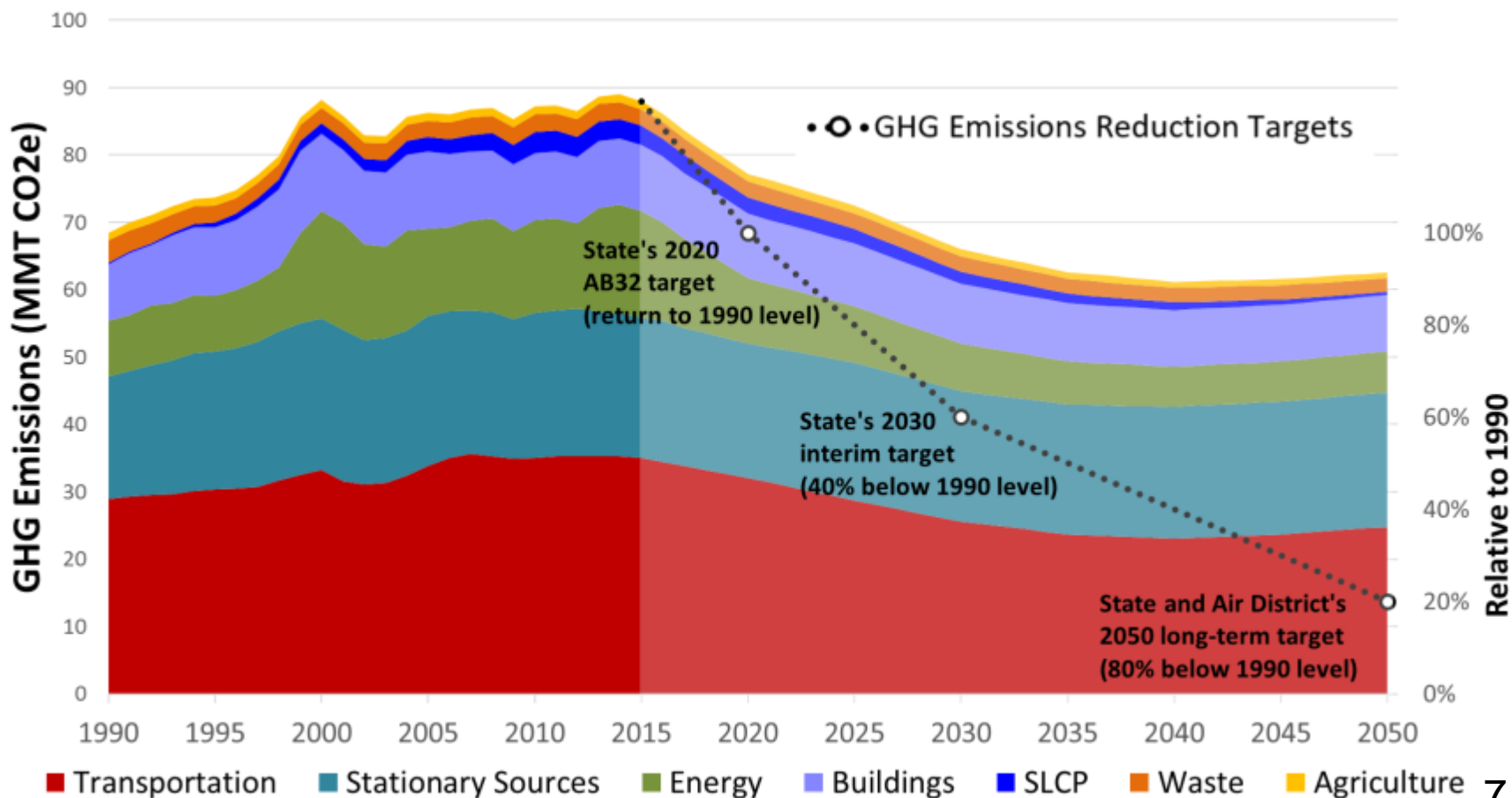
- The greatest common global challenge
- The biggest threat to our environment, economy, health and quality of life

## Health Inequities

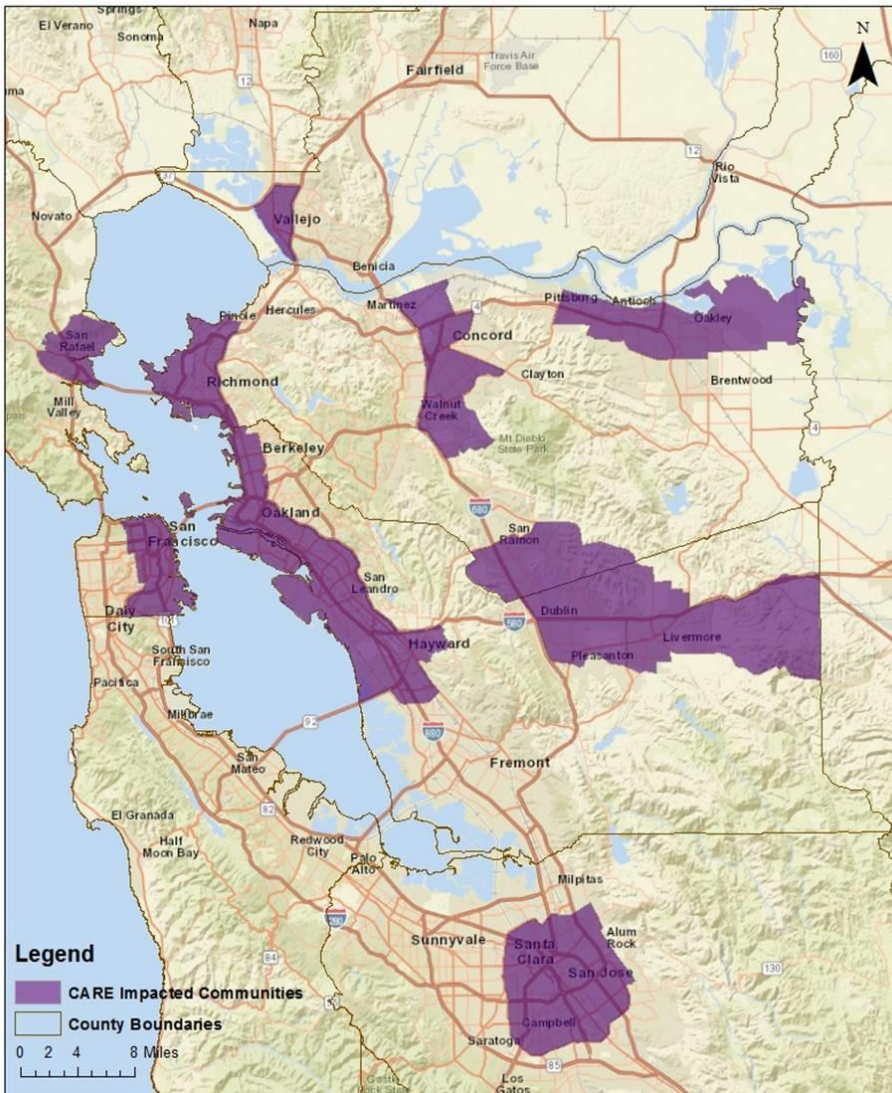
- Equal access to healthy air is a fundamental right that still eludes many Bay Area residents

# Climate Challenge in the Bay Area

## Bay Area GHG Projections to 2050 with Key State Programs



# Healthy Air for All Bay Area Residents



CARE Program identifies Bay Area communities most impacted by air pollution

Regionally: *reduce ozone and PM emissions* to assure long-term compliance with air quality standards

Locally: *eliminate disparities* in local exposure to air pollution





# What's in the Plan?

## Key Goals

- reduce ozone and fine particles
- reduce air toxics in impacted communities
- reduce GHGs toward long-range targets
  - 40% below 1990 levels by 2030
  - 80% below 1990 levels by 2050

Comprehensive strategy of 85 measures

Bold Vision for the Bay Area in 2050

# Where Do We Want To Be In 2050?

## Bold Vision for a future Bay Area

- Fossil fuel combustion is practically non-existent
- Buildings are fossil-fuel free
- Power supply is nearly 100% renewable
- Half of all trips are via transit, biking or walking
- Transportation based on EVs and renewable diesel
- Oil companies/refineries are part of the solution, producing renewable fuels
- Organics are cut from waste stream and put to productive use





# How Does This Plan Get Us To 2050?

Plan lays out specific actions over the next 3-5 years

## Priorities:

- Reduce fossil fuel demand and combustion
- Reduce pollutants and toxic air contaminants from all sources
- Reduce “super-GHGs” such as methane, black carbon, F-gases
- Improve energy efficiency
- Decarbonize the energy system/increase renewable energy
- Reduce transportation emissions via technology, reduced VMT

7.4

# Aligned Goals

- Consume less fossil fuel
- Electrify most energy uses
- Generate renewable electricity





# Economic Sectors

- Transportation
- Energy
- Agriculture
- Water
- Waste
- Buildings
- Industry
- Short-lived Climate Pollutants
- Natural & Working Lands

41.3

7.4

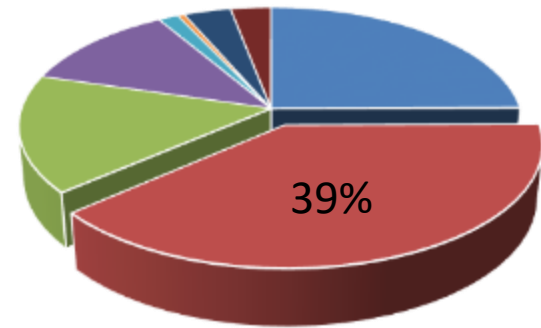
# Transportation

## Promote Electrification

- Fund electric vehicles (EVs) & charging stations
- Promote EV readiness in new development
- Fund low-carbon freight movement
  - hybrid drive trains for trucks
  - electric shore power for ships
- Electrify Caltrain regional commuter rail

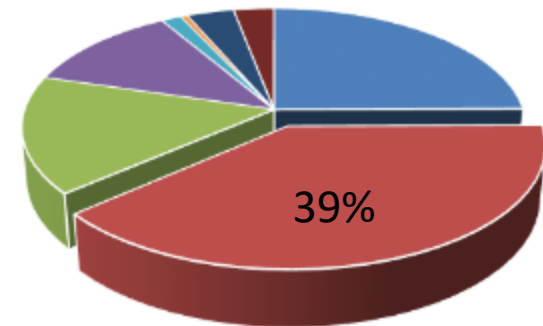
## Reduce Travel Demand & Promote Efficiency

- Promote public transit
- Expand ride-sharing, car-sharing, bike-sharing
- Require large employers to offer “commuter benefits”
- Fund bicycle and pedestrian facilities
- Fund Safe Routes to Schools and Safe Routes to Transit
- Promote parking and pricing strategies that reduce travel demand



# Transportation/Land Use

- Support aggressive Sustainable Communities Strategy (Plan Bay Area)
- Direct development to priority development areas
- Planning Healthy Places
- Indirect Source Review





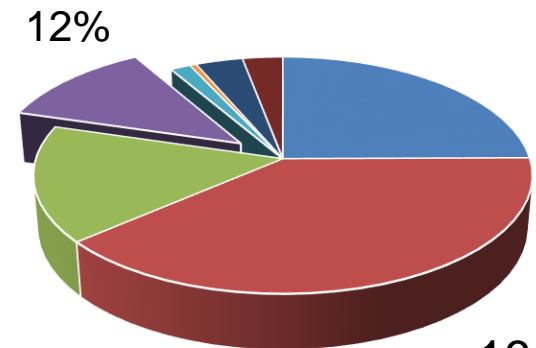
# Buildings

## Increase Energy Efficiency in Buildings

- Help local governments and school districts obtain funding for energy efficiency programs
- Help property owners identify funding for efficiency upgrades
- Develop model ordinances requiring energy assessments and/or upgrades at time of sale
- Promote measures such as cool roofs, cool parking, and shade trees to reduce urban heat island effects

## Decarbonize Building Energy Use

- Provide best practices, model ordinances, and incentives to promote low carbon technologies such as rooftop solar, solar water heating, and electric heat pumps
- Facilitate on-site renewable energy at schools







# Implementation

- Rule Development
- Support Local Governments
  - Model ordinances, guidance, technical assistance
  - Support Community Choice Energy programs
  - Provide networking and info-sharing opportunities
- Build upon successful Air District grants & incentives
  - Support EVs, infrastructure, and technology
  - \$4.5 million grant program proposed next fiscal year
  - Launch Technology Implementation Office
- Collaborative Partnerships



# Bay Area Leadership

- Many efforts underway:
  - SPUR!
  - Many non-profits and community organizations
  - Innovative private sector
  - 65 adopted Climate Action Plans (CAPs)
  - Regional partners
    - MTC/ABAG – Metropolitan Transportation Commission and the Association of Bay Area Governments
    - BARC – Bay Area Regional Collaborative
    - BCDC – Bay Conservation and Development Commission



# Bay Area Leadership

We are embarking on an unprecedented journey to lead the Bay Area to a better future

- Every household, business and individual has tremendous power to make a difference
- We can do this together! The Bay Area has:
  - The brightest minds
  - A culture of innovation
  - The most committed populace
  - A blueprint for the first leg of this journey

# Contact

Yvette DiCarlo

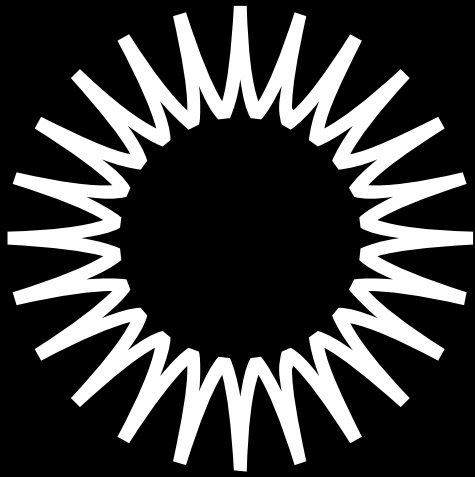
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