

The logo features a stylized sunburst or fan shape composed of several overlapping, curved segments in shades of blue, green, yellow, orange, and red. To the right of this graphic, the word "California" is written in a large, bold, purple serif font. Below it, the words "TRANSPORTATION PLAN" are written in a smaller, blue, sans-serif font, and "2040" is written in a very large, bold, blue, sans-serif font.

# California

TRANSPORTATION PLAN

# 2040

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OLMSTEAD COMMITTEE  
MEETING  
Sacramento, CA  
November 8, 2017

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Office of State Planning



# Agenda

1. What is the CTP 2040?
2. Vision and Framework for California's Transportation System
3. The Transportation System
4. Modeling Theoretical Transportation Scenarios
5. Achieving Success
6. What's Next

# What is the CTP 2040?



# What is the CTP 2040?

A statewide, long-range transportation plan that:

- Is done every 5 years with a 20-year horizon
- Defines goals, policies, and strategies and the future statewide, multimodal transportation system
- Integrates statewide modal plans
- Builds upon Regional Transportation Plans and Sustainable Communities Strategies
- Analyzes future alternatives and policies using robust modeling tools

# State Legislation

- **AB 32, the Global Warming Solution Act of 2006**, requires reduction of greenhouse gas emissions to 1990 levels by 2020.
- **SB 375** requires sustainable communities strategies (SCS).
- **SB 391** requires Caltrans to update the CTP every five years to show how to achieve statewide greenhouse gas emission (GHG) reduction consistent with Executive Order S-3-05.
- **AB 857 – State Planning Priorities** requires equity, economy, & environment be considered in all planning.
- **SB 743** changes the California Environmental Quality Act (CEQA) criteria to implement GHG emissions reduction.
- **Executive Order S-3-05** calls for emissions to be reduced to 80% below 1990 levels by 2050.

# Why it is Important

1. Better understand **interregional travel patterns** and promote system cohesiveness
2. Summary of **trends, challenges** and themes from around the State
3. Forum to **elevate issues** to policy and decision makers and better coordination in general
4. Models what kind of system is needed to reach California's **GHG reduction goals**



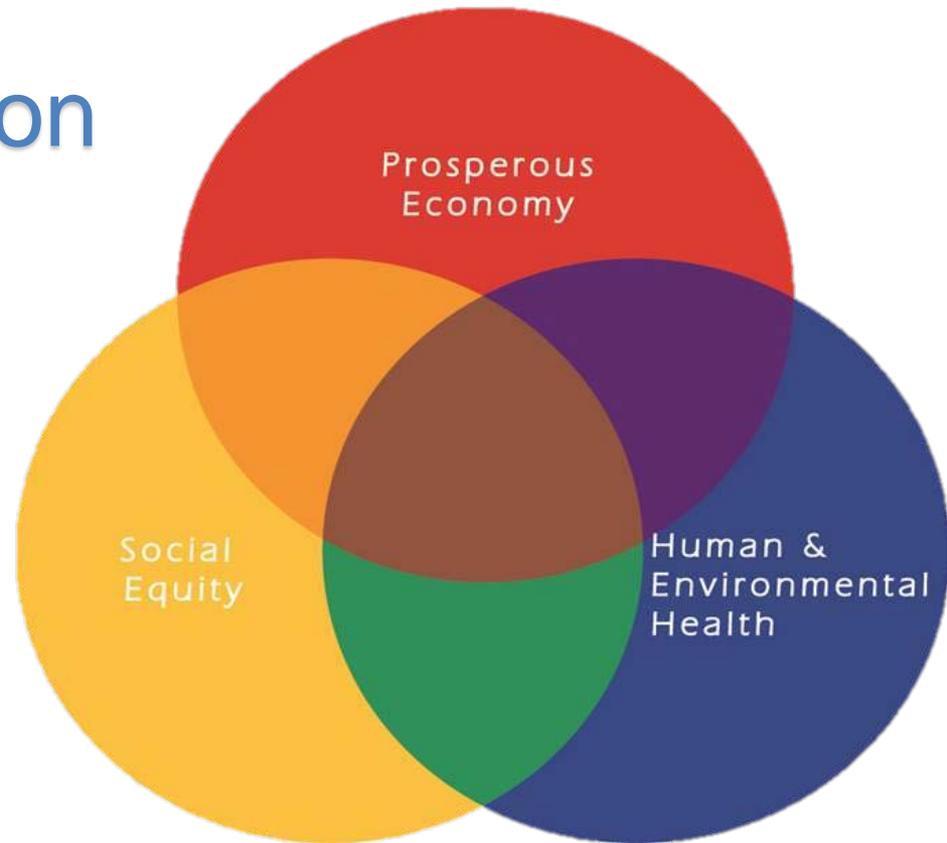
# Vision and Framework for California's Transportation System

# The CTP 2040 Vision

California's transportation system is **safe**, **sustainable**, universally **accessible**, and **globally competitive**. It provides **reliable** and **efficient mobility** for people, goods, and services, while meeting the State's greenhouse gas emission reduction goals and **preserving** the unique character of California's communities.

# CTP – The Next 25 Years

Key to this vision  
is the 3 Es of  
sustainability:





# THE VISION SUSTAINABILITY

California's transportation system is safe, sustainable, and globally competitive. It provides reliable and efficient mobility and accessibility for people, goods, and services while meeting our greenhouse gas emission reduction goals and preserving community character. This integrated, connected, and resilient multimodal system supports a prosperous economy, human and environmental health, and social equity.

## THE GOALS

- 1** Improve Multimodal Mobility and Accessibility for All People
- 2** Preserve the Multimodal Transportation System
- 3** Support a Vibrant Economy
- 4** Improve Public Safety and Security
- 5** Foster Livable and Healthy Communities and Promote Social Equity
- 6** Practice Environmental Stewardship

## THE POLICIES

<b>POLICY 1</b> Manage and Operate an Efficient Integrated System	<b>POLICY 1</b> Apply Sustainable Preventative Maintenance and Rehabilitation Strategies	<b>POLICY 1</b> Support Transportation Choices to Enhance Economic Activity	<b>POLICY 1</b> Reduce Fatalities, Serious Injuries, and Collisions	<b>POLICY 1</b> Expand Engagement in Multimodal Transportation Planning and Decision Making	<b>POLICY 1</b> Integrate Environmental Considerations in All Stages of Planning and Implementation
<b>POLICY 2</b> Invest Strategically to Optimize System Performance	<b>POLICY 2</b> Evaluate Multimodal Life Cycle Costs in Project Decision Making	<b>POLICY 2</b> Enhance Freight Mobility, Reliability, and Global Competitiveness	<b>POLICY 2</b> Provide for System Security, Emergency Preparedness, Response, and Recovery	<b>POLICY 2</b> Integrate Multimodal Transportation and Land Use Development	<b>POLICY 2</b> Conserve and Enhance Natural, Agricultural, and Cultural Resources
<b>POLICY 3</b> Provide Viable and Equitable Multimodal Choices Including Active Transportation	<b>POLICY 3</b> Adapt the Transportation System to Reduce Impacts from Climate Change	<b>POLICY 3</b> Seek Sustainable and Flexible Funding to Maintain and Improve the System		<b>POLICY 3</b> Integrate Health and Social Equity in Transportation Planning and Decision Making	<b>POLICY 3</b> Reduce Greenhouse Gas Emissions and Other Air Pollutants
					<b>POLICY 4</b> Transform to a Clean and Energy Efficient Transportation System

# Policy Included in CTP 2040

- **Goal 5 – Foster Livable and Healthy Communities and Promote Social Equity**
- **Policy Recommendation:** Ensure transportation strategies and investments consider the needs of all people to move by all modes regardless of income, age or physical ability.

# Modal Plans

## INTEGRATES MODAL PLANS



# Programs

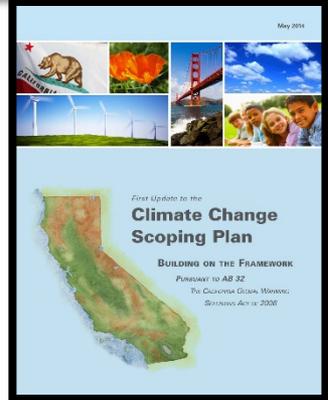
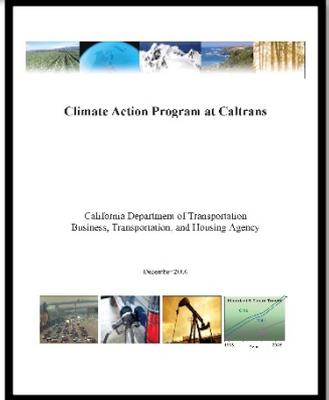
## INTEGRATES STATEWIDE PROGRAMS



CALIFORNIA HIGH-SPEED  
RAIL



CLIMATE ACTION  
PROGRAM



CLIMATE CHANGE  
SCOPING PLAN

# Regional Transportation Plans

## INTEGRATES REGIONAL PLANS AND SUSTAINABLE COMMUNITIES STRATEGIES



# The Transportation System



# The Transportation System

- Statewide
- Tribal
- Regional and Local
- Opportunities and Challenges
  - Demographic trends
  - Uptick in walking, biking, transit
  - Per capita VMT
  - Technology

# Modeling Theoretical Transportation Scenarios

## STATEWIDE GHG EMISSIONS: ALTERNATIVE 2

Well-to-Wheel (WTW) GHG Emissions by Sector



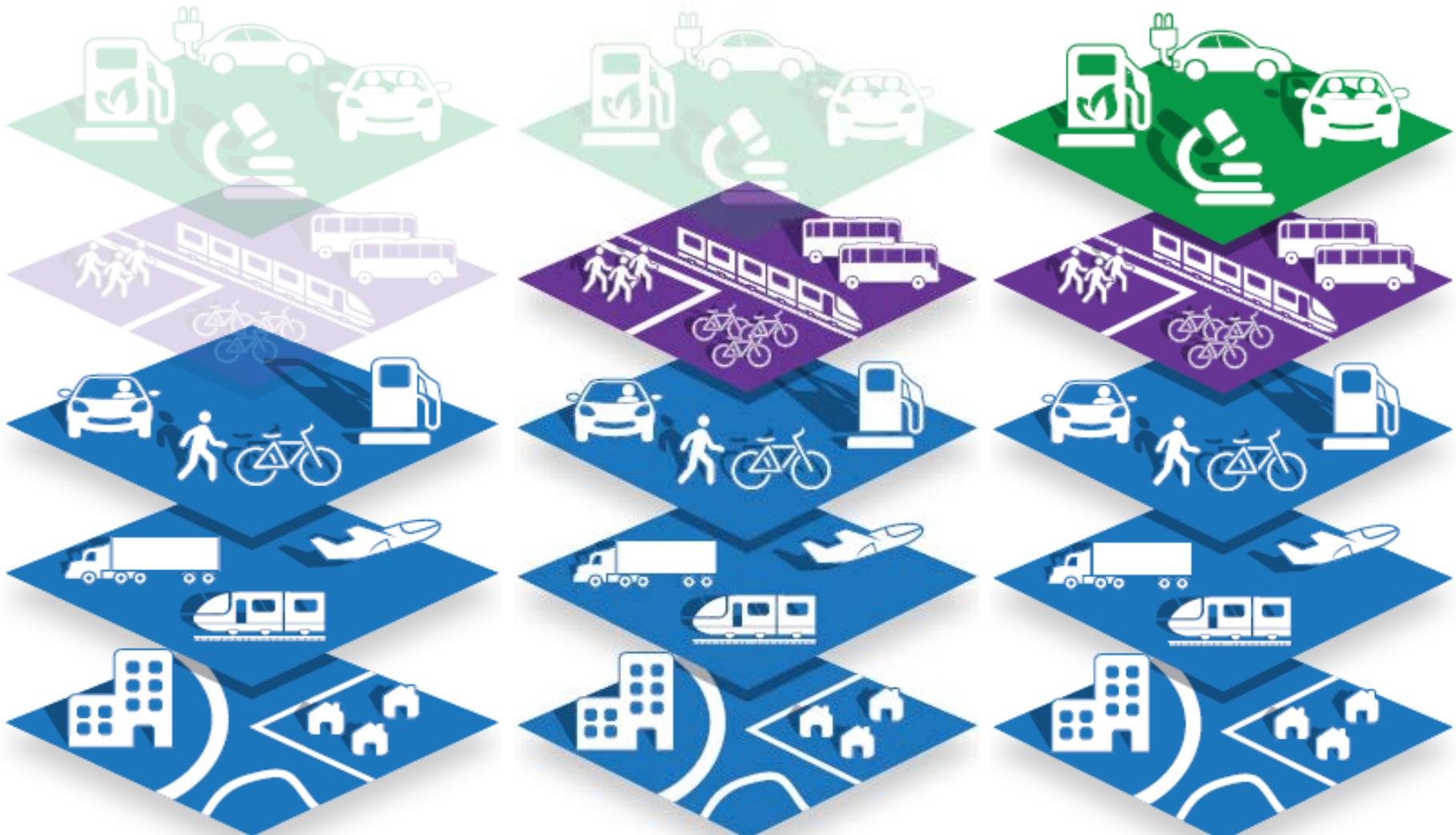
Marco Gonzalez  
Caltrans

# SB 391

How will the state achieve maximum feasible emission reductions in order to meet:

- 1990 GHG levels by 2020 (AB 32)
- 80% below 1990 by 2050 (Gov. EO)

# CTP Scenarios



SCENARIO 1:  
CURRENT MPO AND STATE MODAL PLANS

SCENARIO 2:  
CURRENT PLANS + PROPOSED STRATEGIES

SCENARIO 3:  
MEETING THE GOALS

# Scenario 1: MPO and State Modal Plans



## Components:

- MPO Sustainable Communities Strategies land use and transportation plans, effective Spring 2013.
- Caltrans' Modal Plans, including
  - Aviation
  - Freight
  - Interregional Transportation
  - Rail
  - Transit
- The current mix of fuel efficiency and vehicle technology were determined by the ARB Advanced Clean Cars and In-Use Standards.

# Scenario 2: Current Plans and Proposed Strategies



## Components:

- MPO Sustainable Communities Strategies (same as Scenario 1).
- Caltrans' Modal Plans (same as Scenario 1).
- Fuel and vehicle technologies (same as Scenario 1).
- CTP 2040 package of GHG reduction transportation strategies.

# Scenario 3: Meeting the Goals

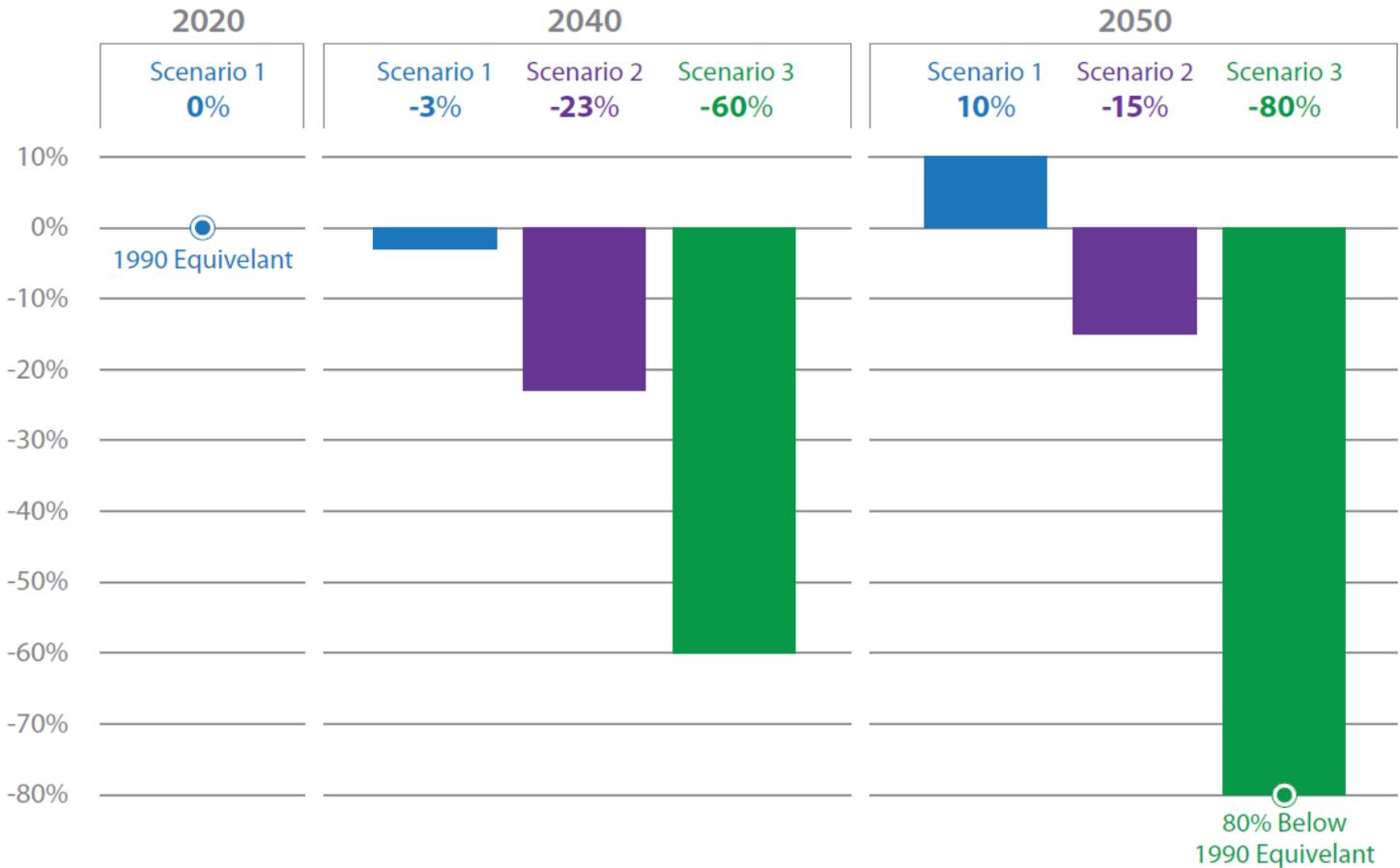


## Components:

- MPO Sustainable Communities Strategies (same as Scenario 1).
- Caltrans' Modal Plans (same as Scenario 1).
- Fuel and vehicle technologies (same as Scenario 1).
- CTP 2040 package of GHG reduction transportation strategies (same as Scenario 2).
- A fleet mix of additional future fuel efficiencies and vehicle technologies, as assessed by ARBs Vision for Clean Air model, designed to meet GHG emission reduction goals for 2020 and 2050.

# Transportation GHG Reduction by Scenario

## California Greenhouse Gas Emissions Change



# Achieving Success



# Chapter 4

## *Achieving Success*



# Chapter 4

## *Implementation Highlights*

- Improve transit/complete HSR Phase 1 by 2029
- Fix it First
- Improve efficiency and technologies of highways and roads
- Improve freight efficiency and the economy
- Improve communities
- Reduce transportation-system deaths and injuries
- Expand the use and safety of bike and pedestrian facilities
- Make our vehicles and transportation fuels cleaner
- Improve public health and achieve climate/environmental goals
- Secure permanent, stable, and sufficient transportation revenue

# What's Next



# CTP Guidelines

- **SB 486** authorizes the California Transportation Commission and Caltrans to establish guidelines for preparing the CTP.
- **May 2017** – CTC Finalized and adopted.
- The Guidelines serve to identify statutory requirements for the CTP and prescribe study areas for analysis and evaluation



# CTP 2050

## CTP 2050 Development

- Kick off in 2018 - Policy Advisory and Technical Advisory Committees being formed in early 2018
- Undertaking a Future of Mobility Study with UC Berkeley
- Working on preliminary modeling scenarios to lay the foundation of the CTP 2050 scenarios
- CTP 2050 will be finalized December 2020

# CTP 2050

## Get Involved

- Policy Advisory Committee and Technical Advisory Committee
- Visit [CaliforniaTransportationPlan.org](http://CaliforniaTransportationPlan.org)
- CTP 2050 Workshops
- Public Review Drafts

# For More Information...



***Check out the CTP 2050 Website at:***  
***[www.californiatransportationplan.org](http://www.californiatransportationplan.org)***

For individuals with sensory disabilities, this document is available in alternative formats. For information, call (916) 654-5782 (voice) or 711 (TTY) or write:

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