



# Caltrans Sustainability

by

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# Mission & Vision

## Mission:

Provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability.

What we do

Why we do it

## Vision:

A performance-driven, transparent and accountable organization that values its people, resources and partners, and meets new challenges through leadership, innovation and teamwork.



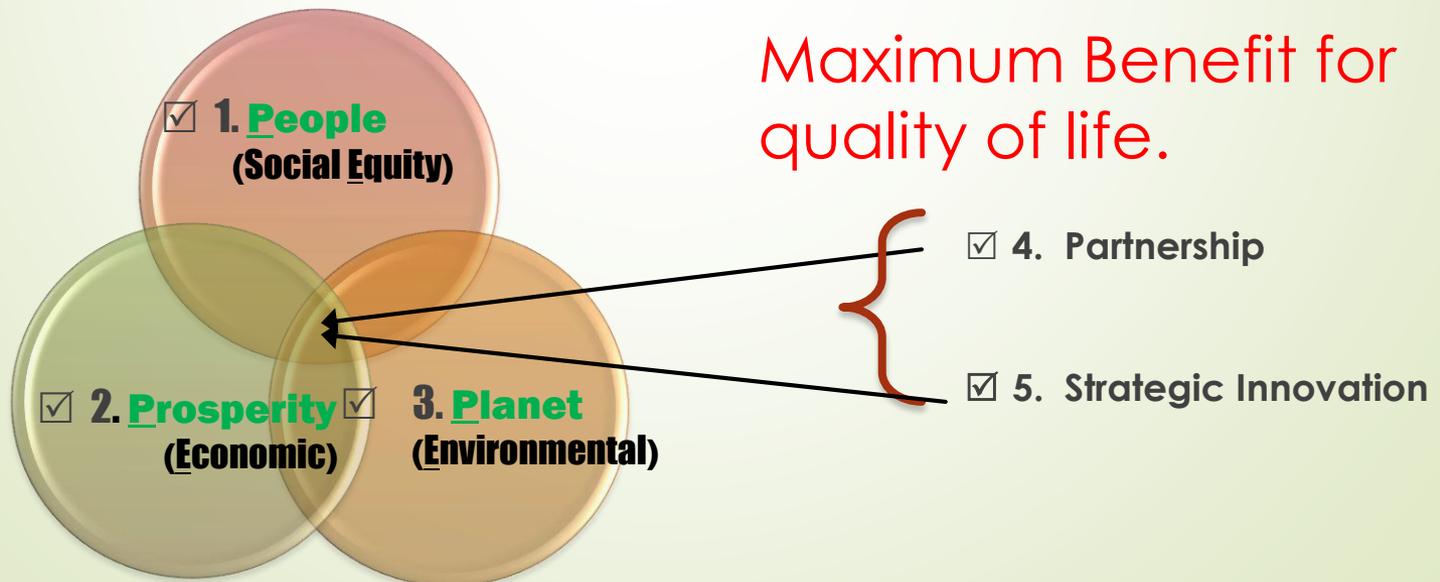
# Goals

- ▶ **GOAL 1: Safety and Health** - Provide a safe transportation system for workers and users and promote health through active transportation and reduced pollution in communities.
- ▶ **GOAL 2: Stewardship and Efficiency** - Money counts. Responsibly manage California's transportation-related assets.
- ▶ **GOAL 3: Sustainability, Livability and Economy** - Make long-lasting, smart mobility decisions that improve the environment, support a vibrant economy, and build communities, not sprawl.
- ▶ **GOAL 4: System Performance** - Utilize leadership, collaboration and strategic partnerships to develop an integrated transportation system that provides reliable and accessible mobility for travelers.
- ▶ **GOAL 5: Organizational Excellence** - Be a national leader in delivering quality service through excellent employee performance, public communication, and accountability.



# Sustainability, Livability, and Economy Goal

Make long-lasting, smart mobility decisions that improve the environment, support a vibrant economy, and build communities, not sprawl.





# Objectives

- ▶ **OBJECTIVE 1: PEOPLE:** Improve the quality of life for all Californians by providing choice in alternatives to single occupant car trips, increasing accessibility to all modes of transportation and creating transportation corridors not only for conveyance of people, goods and services, but also as livable public spaces.
- ▶ **OBJECTIVE 2: PLANET:** Reduce environmental impacts from the transportation system with emphasis on supporting a statewide reduction of greenhouse gas emissions to achieve 80% reduction from 1990 levels by 2050.
- ▶ **OBJECTIVE 3: PROSPERITY:** Improve economic prosperity of the State and local communities through a resilient and integrated transportation system.

# Sustainability, Livability and Economy Goal

**3. Sustainability, Livability and Economy Goal** - Make long-lasting, smart mobility decisions that improve the environment, support a vibrant economy, and build communities, not sprawl.

**OBJECTIVE - PEOPLE:** Improve the quality of life for all Californians by providing mobility choice, increasing accessibility to all modes of transportation and creating transportation corridors not only for conveyance of people, goods, and services, but also as livable public spaces.



Performance Measures	Targets
<p>Percentage increase of non-auto modes for:</p> <ul style="list-style-type: none"> <li>• Bicycle</li> <li>• Pedestrian</li> <li>• Transit</li> </ul>	<p>By 2020, increase non-auto modes*:</p> <ul style="list-style-type: none"> <li>• Triple bicycle;</li> <li>• Double pedestrian; and</li> <li>• Double transit.</li> </ul> <p>(2010-12 California Household Travel survey is baseline.)</p>
<p>Accessibility Score. (To be determined considering e.g., multi-modal transportation proximity to jobs, disadvantaged communities, housing services, transit-oriented communities, etc.)</p>	<p>By December 2016, develop and adopt Caltrans Accessibility Score.</p>
<p>Livability Score. (To be determined considering e.g., quality of life, noise, safety, localized emissions, environmental justice concerns, etc.)</p>	<p>By December 2016, develop and adopt Caltrans Livability Score.</p>
<p>Percentage of top 25 priority corridor system master plans completed to enhance sustainability of transportation system. (Priority corridors to be determined considering: mobility, freight, highways, transit, rail, bike, pedestrian, aviation, etc.)</p>	<p>By 2017, complete corridor system plans for all State routes.</p> <p>By 2020, complete top 25 corridor system management plans.</p>

# Sustainability, Livability and Economy Goal

3. **Sustainability, Livability and Economy Goal** - Make long-lasting, smart mobility decisions that improve the environment, support a vibrant economy, and build communities, not sprawl.

**OBJECTIVE - PLANET:** Reduce environmental impacts from the transportation system with emphasis on supporting a statewide reduction of greenhouse gas emissions to achieve 80% below 1990 levels by 2050.



Performance Measures	Targets
Per capita vehicle miles traveled. (Reported statewide by District.)	By 2020, achieve 15% reduction (3% per year) of statewide per capita VMT relative to 2010 levels reported by District.
Percent reduction of transportation system-related air pollution for: <ul style="list-style-type: none"> <li>Greenhouse gas (GHG) emissions</li> <li>Criteria pollutant emissions</li> </ul>	<p>15% reduction (from 2010 levels) of GHG to achieve 1990 levels by 2020.</p> <p>85% reduction (from 2000 levels) in diesel particulate matter emissions statewide by 2020.</p> <p>80% reduction (from 2010 levels) in NOx emissions in South Coast Air Basin by 2023.</p>
Percent reduction of pollutants from Caltrans design, construction, operation, and maintenance of transportation infrastructure and building for: <ul style="list-style-type: none"> <li>Greenhouse gas (GHG) emissions</li> <li>Criteria air emissions</li> <li>Water pollution</li> </ul>	<p>By 2020, reduce Caltrans' internal operational pollutants by District from 2010 levels (from planning, project delivery, construction, operations, maintenance, equipment, and buildings) including:</p> <ul style="list-style-type: none"> <li>15% reduction by 2015 and 20% reduction by 2020 of Caltrans' GHG emissions per EO-B-18-12.</li> <li>10% reduction in water pollutants.</li> </ul> <p>By 2020, 85% reduction (from 2000 levels) in diesel particulate matter emissions statewide.</p> <p>By 2023, 80% reduction (from 2010 levels) in NOx emissions in South Coast Air Basin.</p>
Percent increase in transportation projects that include green infrastructure. Weighting mechanism to be developed.	By 2020, increase by 20% (5% per year) incorporating green infrastructure into transportation projects relative to 2010 levels.

# Sustainability, Livability and Economy Goal

**3. Sustainability, Livability and Economy Goal** - Make long-lasting, smart mobility decisions that improve the environment, support a vibrant economy, and build communities, not sprawl.

**OBJECTIVE - PROSPERITY:** Improve economic prosperity of the State and local communities through a resilient and integrated transportation system.



Performance Measures	Targets
Prosperity score. Score to be determined considering, e.g., gross State/regional product, freight system competitiveness, transportation system efficiency, return on transportation investment, etc.	By 2016, develop and adopt Caltrans prosperity score.
Freight System Efficiency. Improve freight system efficiency to enhance freight competitiveness and support a sustainable, low emissions freight system.	By 2020, 10% increase in freight system efficiency.
Resiliency Score for: <ul style="list-style-type: none"> <li>Climate change resiliency (e.g., vulnerability to flood, sea level rise, etc.)</li> <li>System resiliency (e.g., adaptability from emergencies, disasters, etc.)</li> <li>Financial resiliency (e.g., ensure funding considering maintenance, operations, modernization, disasters, financial stability, etc.)</li> </ul> Resiliency Score to be determined considering, e.g., asset management, emergency and risk management, climate change, sea level rise, vulnerability, adaptation, etc.)	By December 2017, develop and adopt Caltrans Resiliency Score.
Reduction of resource consumption by: <ul style="list-style-type: none"> <li>Reduction of materials taken to landfills (reduction of virgin materials used, reuse of existing materials for construction, recycling of building, construction, and roadside trash)</li> <li>Reduction of potable water use</li> </ul>	By 2020, reduce resource consumption from 2010 levels by District: <ul style="list-style-type: none"> <li>15% reduction of materials taken to landfills</li> <li>15% reduction of potable water use</li> </ul>

# California Political Landscape

- ▶ **AB 32: Global Warming Solutions Act**
  - ▶ Mandates GHG reductions (1990 by 2020 and beyond).
  - ▶ Active discussions about 2030 and 2050 targets
- ▶ **SB 375: Sustainable Communities**
  - ▶ Mandates regional GHG targets adopted by CARB and regional development of sustainable community strategies to achieve targets
- ▶ **SB 391: California Transportation Plan**
  - ▶ Mandates Caltrans develop CTP and update every 5 years. Primary goal of reducing GHG to 80% below 1990 levels by 2050
- ▶ **SB 743: Environmental Quality, Transit Oriented Infill**
  - ▶ Mandates evaluation of alternatives to “level of service” for evaluating transportation impacts of development projects. Alternatives include VMT and VMT/capita
- ▶ **SB 1077: Vehicle Road Charge Pilot Program**
  - ▶ Mandates evaluation of alternatives to motor vehicle fuel tax and development of road charge pilot program
  - ▶ Active discussions about new funds for transportation maintenance/infrastructure

# State Requirements for GHG Reductions

- ▶ **Caltrans 2015-2020 Strategic Management Plan**
  - ▶ 15% emissions reduction from 2010 levels to achieve 1990 levels by 2020
- ▶ **Executive Order B-30-15**
  - ▶ GHG reduction target of 40 percent below 1990 levels by 2030
  - ▶ ultimate goal of reducing emissions 80 percent under 1990 levels by 2050
- ▶ **Executive Order B-32-15**
  - ▶ develop an integrated action plan by July 2016 that establishes clear targets to improve freight efficiency, transition to zero-emission technologies, and increase competitiveness of California's freight system
- ▶ **2015 State of the State -5 pillars :** next 15 years, California will
  - ▶ increase one-third to 50 percent electricity derived from renewable sources;
  - ▶ reduce today's petroleum use in cars and trucks by up to 50 percent;
  - ▶ double efficiency savings from existing buildings & make heating fuels cleaner;
  - ▶ reduce release of methane, black carbon & other pollutants across industries;
  - ▶ manage farm & rangelands, forests & wetlands so they can store carbon.

# Highlighted Strategies

- Movement of People & Freight
- Bike, Pedestrian and Transit connectivity
- Zero Emission Vehicles (ZEV)
- Green Fleet
- Demand Management
- Improved safety for all modes
- Intelligent Transportation System (ITS)
- Managed Lanes policy
- Integrated planning and delivery
- Smart Mobility Framework
- Complete Streets and active transportation
- Wildlife habitat, biodiversity, and connectivity of ecosystems
- Zero emission Freight corridors

# Bike/Ped/Transit Implementation Strategies

- Teams developing Strategies to implement the performance measure under the Sustainability Goal.
- Bike/Ped/Transit Team lead- Tracey Frost is working with a team of internal and external members to identify strategies to increase mode-share for Bike/Ped/Transit.  
(see attached fact sheet with draft strategies)
- ATLC welcome to provide feedback to Tracey Frost on the draft strategies.

# Sustainability Policy

## Director's Policy (DP-33)

- Policy approved July 1, 2015.
- **Defines Sustainability:**  
Preserve or enhance California's people, planet, and prosperity to improve the quality of life by meeting the present generation needs without compromising future generation's ability to meet their own needs.
- Policy goes beyond Caltrans activities and includes how we impact the system in California.
- Policy requires partnership and innovation to achieve the goals in the Strategic Management Plan and CTP2040.
- Policy seeks to integrate Sustainability into all decision-making, policies and procedures.

# Investment Opportunities

## Greenhouse Gas Reduction Fund (GGRF) 2014 – Beyond

Category	Department	Program	2014-15	2015-16
Sustainable Communities & Clean Transportation	High-Speed Rail Authority	High-Speed Rail Project	\$250 m	25%
	Caltrans	Low Carbon Transit Operations Program	\$25 m	5%
	Transportation Agency	Transit & Intercity Rail Capital Program	\$25 m	10%
	Strategic Growth Council	Affordable Housing & Sustainable Communities Program	\$130 m	20%
	Air Resources Board	Low Carbon Transportation	\$200 m	
<b>TOTAL</b>			<b>\$630 m</b>	<b>60%</b>

**\$2 B**

- 60% of future cap & trade auction proceeds go towards transforming transportation and land use through continuous appropriation.

# Questions



- Steven Cliff, Assistant Director of Sustainability
  - Email [Steven.Cliff@dot.ca.gov](mailto:Steven.Cliff@dot.ca.gov)
- Melissa Thompson, Sustainability Program Manager
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  - on Twitter.com [@SSCLIFF](https://twitter.com/SSCLIFF)
  - Sustainability Newsletter -Send request to: [Sustainability@dot.ca.gov](mailto:Sustainability@dot.ca.gov)
  - Sustainability Blog coming soon
  - Sustainability Website coming soon