



# Orange County Transportation Authority

**Tam T. Nguyen, OCTA Chair**  
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## Orange County Highlights:

- **3<sup>rd</sup>** most populous county in California
- **2<sup>nd</sup>** densest county in California
- **Culturally diverse** communities
- **Thriving** business economy and a well-educated work force
- Home to a wide range of **tourist attractions**

# What is OCTA?



## Complete Streets

- Active transportation
- Signal synchronization
- OC Bridges
- City formula funding
- Local competitive grants funding



## Transit

- OC Bus and paratransit
- OC Streetcar
- OC Flex microtransit
- Community-based transit
- Metrolink
- LOSSAN managing agency



## Sustainability

- Zero-emission bus
- Air quality initiatives
- Innovative wildlife and habitat mitigation and preservation
- Water-quality grants
- Climate resiliency planning



## Highways

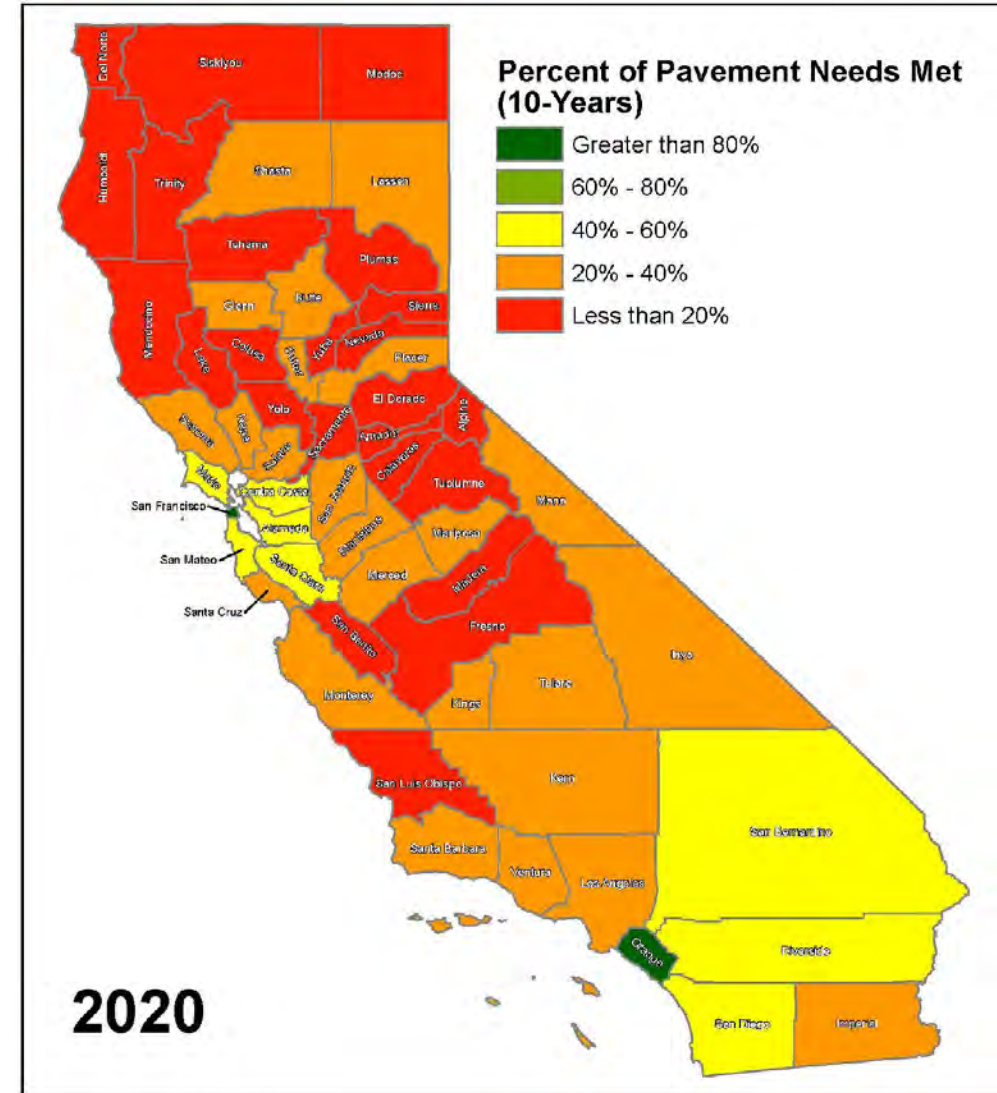
- Measure M projects
- HOV lanes
- General-purpose lanes
- Tolled express lanes
- Motorist services

# Maintaining Orange County Streets



Orange County's proactive approach to maintenance through its local sales tax measure sets a benchmark in pavement quality

- Orange County has the highest Pavement Condition Index (PCI) in the State at 79
  - Statewide average is 66



Source: California Statewide Local Streets and Roads Needs Assessment, March 2020



## OC STEP

### Safe Transportation Education Program

- Delivered walking and bicycling safety education program to 25 public elementary schools serving disadvantaged communities
- Providers worked with enrolled schools to:
  - Deliver menu of activities and services
  - Engage with parents
  - Continue with in-school activities
- City / school / parent SRTS committee meetings



## Complete Streets

- **\$25 million** awarded to 10 bikeway facility projects
- **\$67 million** in SCAG funding recommended for 20 projects to support bikeway planning, safety, safe routes to schools and bikeway facility projects

**Together, this represents the largest investment OCTA has made in complete streets.**

# OC Streetcar: Connecting Communities



**LEGEND**

STREETCAR ROUTE	MAINTENANCE AND STORAGE FACILITY (MSF)
STOP	ONE-WAY TRAVEL
WILLOWICK: POTENTIAL FUTURE STOP	CIVIC CENTER DISTRICT
SANTA ANA REGIONAL TRANSPORTATION CENTER	STATION DISTRICT
LOSSAN RAIL CORRIDOR	DOWNTOWN COMMERCIAL DISTRICT
CENSUS TRACTS IDENTIFIED AS ENVIRONMENTAL JUSTICE COMMUNITIES*	

\*Based on CalEnviroScreen 3.0 data published by CalEPA, as of May 2020.

# Climate Adaption & Sustainability Plan (CASP)



## CLIMATE ADAPTATION AND SUSTAINABILITY PLAN








Orange County Transportation Authority

- Builds upon OCTA's environmental stewardships efforts by compiling a comprehensive inventory of all efforts to date
- Establishes a framework of potential strategies in two areas:

### Climate Adaption

-  Air Quality & Emissions Management
-  Building & Infrastructure Development
-  Emergency Preparedness
-  Human Comfort & Health Enhancement
-  Greenery & Landscape Management
-  Energy Efficiency & Renewable Energy

### Sustainability

-  100% Zero-Emission Bus Fleet
-  Cleaner Non-Revenue Fleet
-  Facility Energy Efficiency
-  Facility Electrification
-  Onsite Renewables
-  Purchase Renewable Energy
-  Purchase Renewable Energy Credits

# Zero-Emissions by 2040



## 2020

- OCTA approves **Zero-Emission Bus Rollout Plan**
- OCTA debuts **Fuel Cell Electric Bus Pilot**, including
  - 10 hydrogen fuel-cell electric buses
  - Largest hydrogen fueling station for transit in the U.S.

## 2022

- OCTA launches **Battery Electric Bus Pilot**, including
  - 10 battery-electric buses

## Next Steps

- Continue **testing** both types of technology to determine which type works better for Orange County
- **Expanding the fleet**, including
  - 40 additional fuel cell buses
  - 10 additional battery-electric buses
  - 10 battery-electric paratransit vehicles
- **Enhancing infrastructure**, including
  - Second hydrogen fueling station
  - 10 additional battery-electric bus charging stations
  - Charging stations for paratransit vehicles





# Partnering for Resilient Rail Solutions



Emergency rail projects highlighted the critical role of partnerships in rapid response and restoration of services.

## Initial Response 2022

- These actions allowed OCTA to expedite work at Cyprus Shore to safely restore passenger rail service:
  - **Caltrans** declares state transportation emergency
  - **CTC** holds special meeting for emergency funding
  - **OCTA** Board declares emergency

## New Policy 2023

- **CTC** establishes new policy allowing for funding allocations for emergencies impacting publicly-owned rail facilities:
  - Policy influenced by **OCTA's** experience at Cyprus Shore

## Policy Outcomes 2023 - 2024

- New policy expedites approval and funding process for both Casa Romantica and Mariposa Point, allowing OCTA and Metrolink to quickly build walls to protect the tracks and safely resume passenger rail service

## Future Direction

- **OCTA** is underway on a study looking at near-term solutions to protect Orange County's coastal rail infrastructure

# I-405 Improvement Project



## Scope:

- Primarily within existing right of way
- Project stretching 16 miles between Costa Mesa and the LA County line
  - Measure M-funded regular lane improvements
  - Creation of 405 Express Lanes
- 18 bridge replacements
- Improvements to local streets and interchanges, including 11 new sidewalks and new bike lanes

## Status:

405 Express Lanes and new regular lanes opened **Dec. 1**





The Orange County Transportation Authority's 405 Express Lanes opened to traffic on Dec. 1, 2023, between SR-73 and I-605.

## TRIPS



The 405 Express Lanes has recorded **6.2 million trips** in its first five months of operations.

## ACCOUNTS



More than **6,700 accounts** have been opened with the 405 Express Lanes.

## TRAFFIC PATTERNS

### DAYS OF WEEK



The heaviest traveled days in April were **Wednesdays** and **Thursdays**. The least traveled were **Sundays**.

### TIME OF DAY



Peak **weekday** travel times are from **7-9 a.m.** and **3-6 p.m.** Peak **weekend** travel times are from **3-6 p.m.**



[405ExpressLanes.com](https://www.405ExpressLanes.com)

Thank you, California Transportation Commission, for more than \$137 million over the past year to keep Orange County residents moving.

