

Ventura County Transportation Commission

Ventura County Transportation Model Update

Base Year 2025 – Forecast 2050

November 6th, 2026

VCTM Background

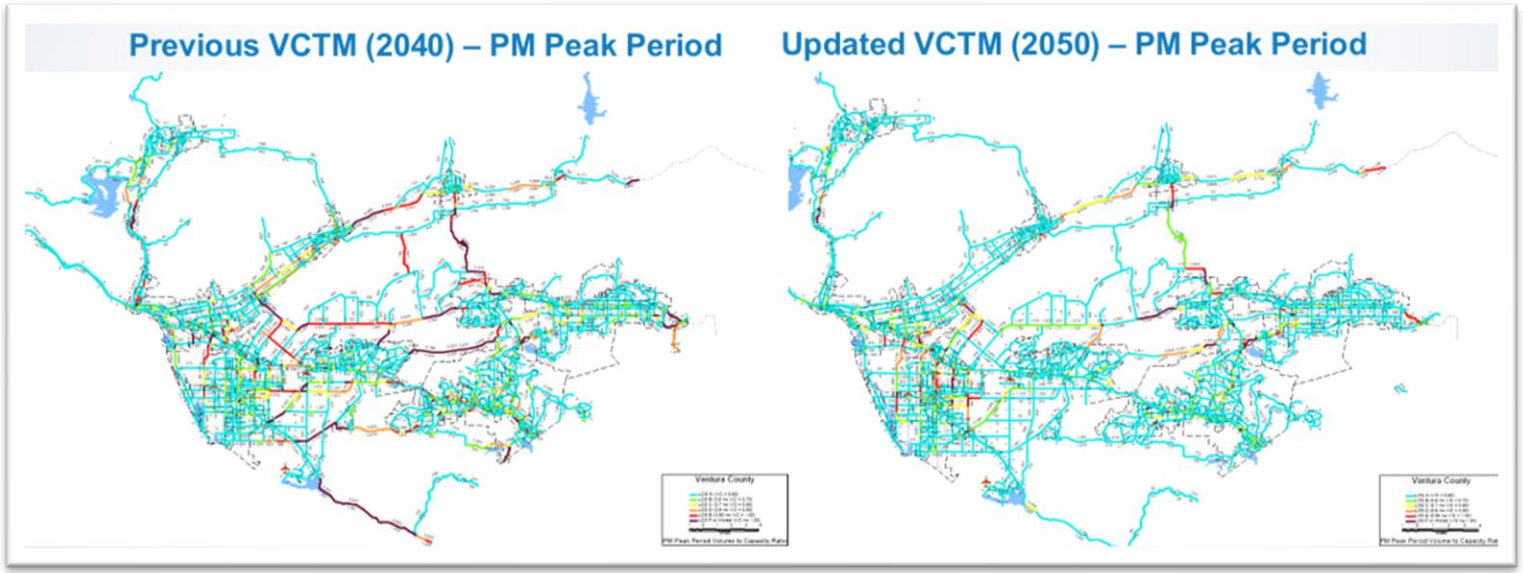


- Ventura County Transportation Model is a sub-regional deployment of the SCAG trip-based model refined for the countywide level.
- VCTM is a scenario planning tool for land use and transportation projects:
  - Simulates weekday trips beginning or ending in Ventura County.
  - Estimates project impacts to traffic volume, congestion, mode choice, etc.
  - Forecasts future travel demand on county road & transit network.
- VCTM updated every 5-7 years
- Updated version:
  - **Base Year Scenario 2025**
  - **Baseline Forecast Year Scenario 2050**
- Includes updates to socio-demographic data, land use, model parameters and forecast assumptions.
- Major improvements include the post-COVID base year and inclusion of the Santa Barbara County network into VCTM.

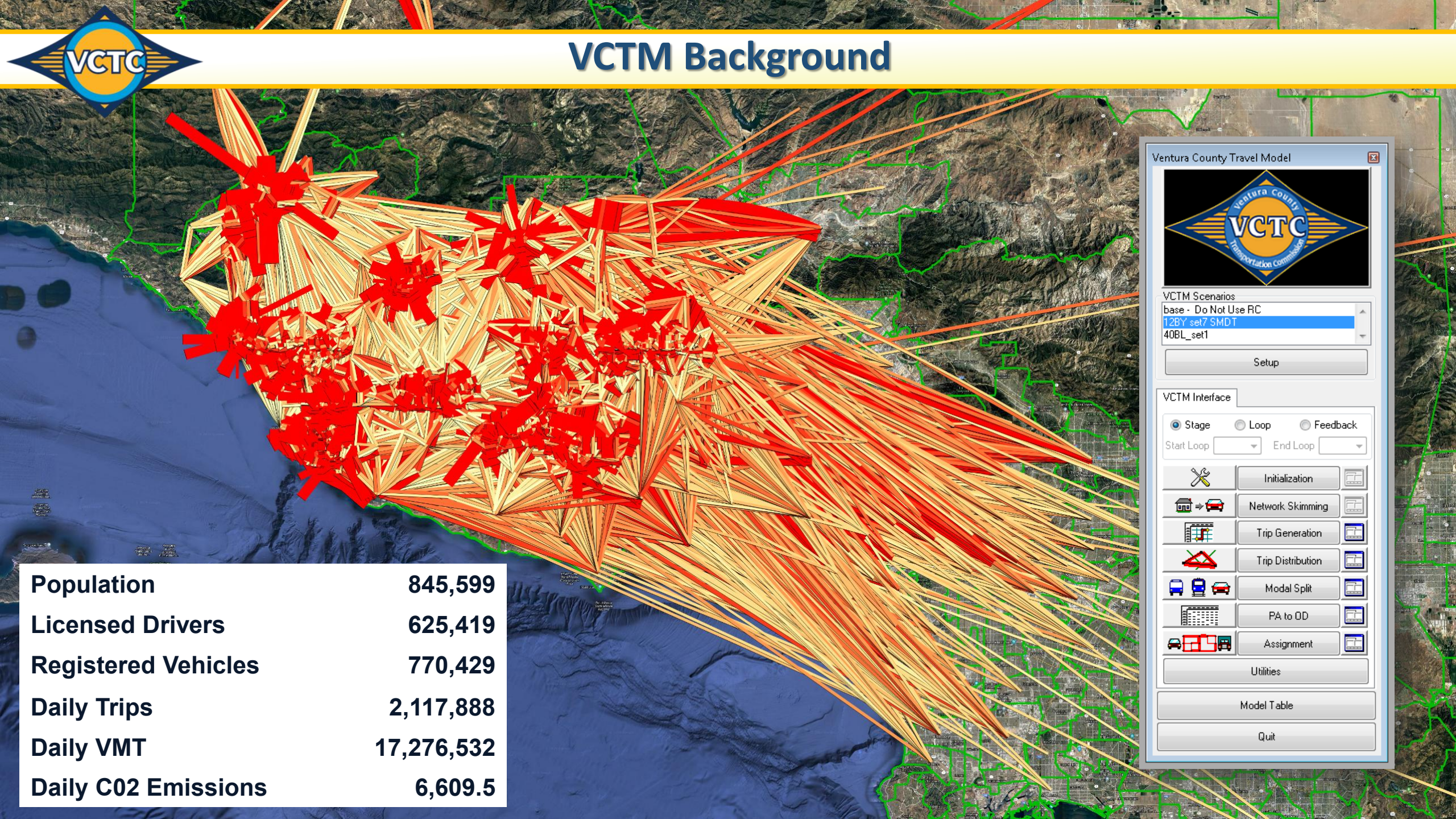
How VCTM Benefits the County



- Maintaining a Countywide TDM Reduces Costs to Partner Agencies
- Available to Stakeholders for Environmental Impact Assessment
- Supports Grant Applications for Transportation Projects
- In-House Planning & Policy Scenario Analysis
- Provides Granular VMT Data for CEQA Screening (SB743)
- Access to Countywide Transportation Data & Metrics



VCTM Background



Population	845,599
Licensed Drivers	625,419
Registered Vehicles	770,429
Daily Trips	2,117,888
Daily VMT	17,276,532
Daily C02 Emissions	6,609.5

VCTM BY 2025 – Camarillo PM Peak



VCTM Scenario 2025 –Sell City Hall to Developer



Camarillo

LOS A (V/C < 0.60)
LOS B (0.6 <= V/C < 0.70)
LOS C (0.7 <= V/C < 0.80)
LOS D (0.8 <= V/C < 0.90)
LOS E (0.90 <= V/C < 1.00)
LOS F or Worse (V/C >= 1.00)

.05 0 .05 .1 .15 .2

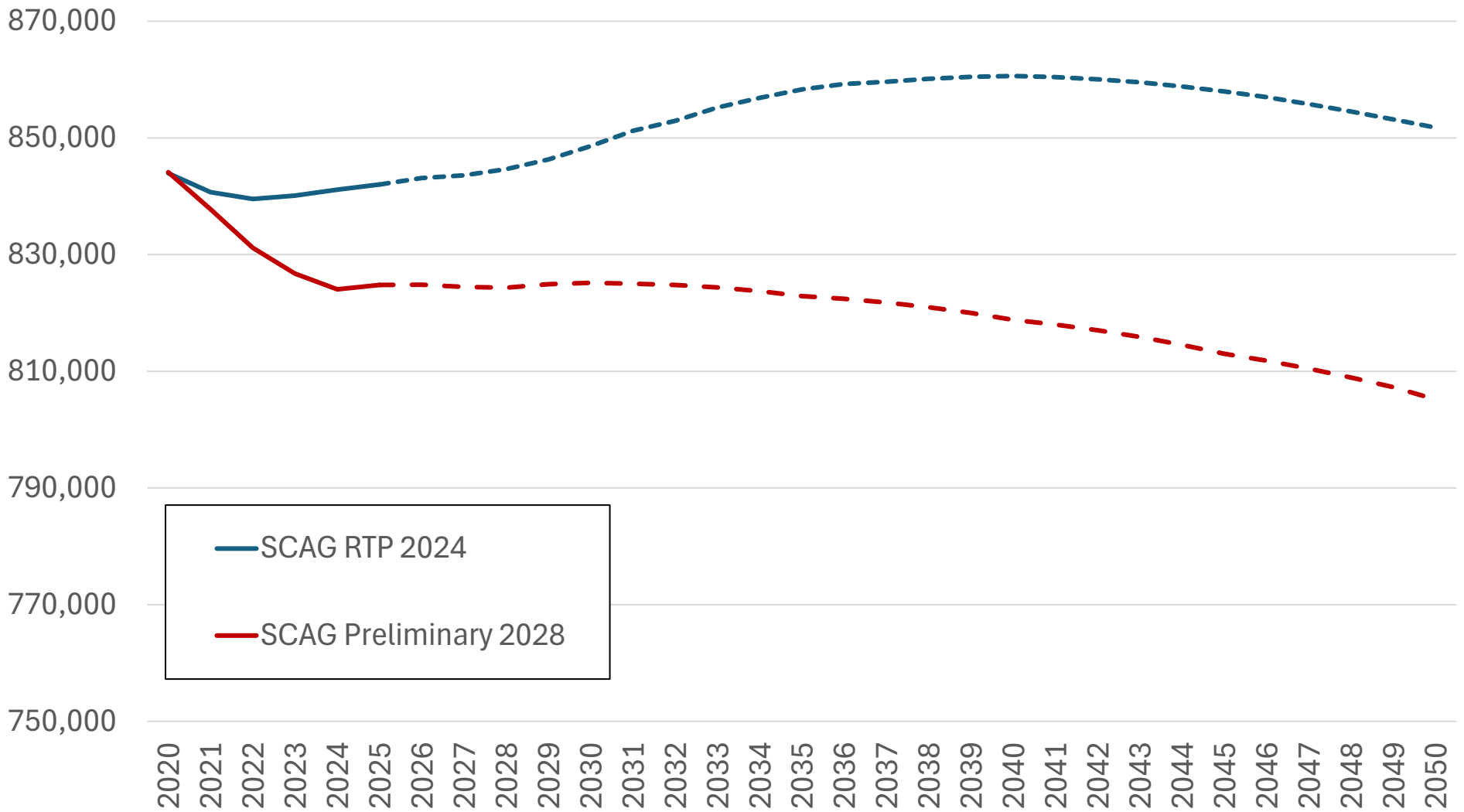
Miles

PM Peak Period Volume to Capacity Ratio

Countywide Demographic Forecast



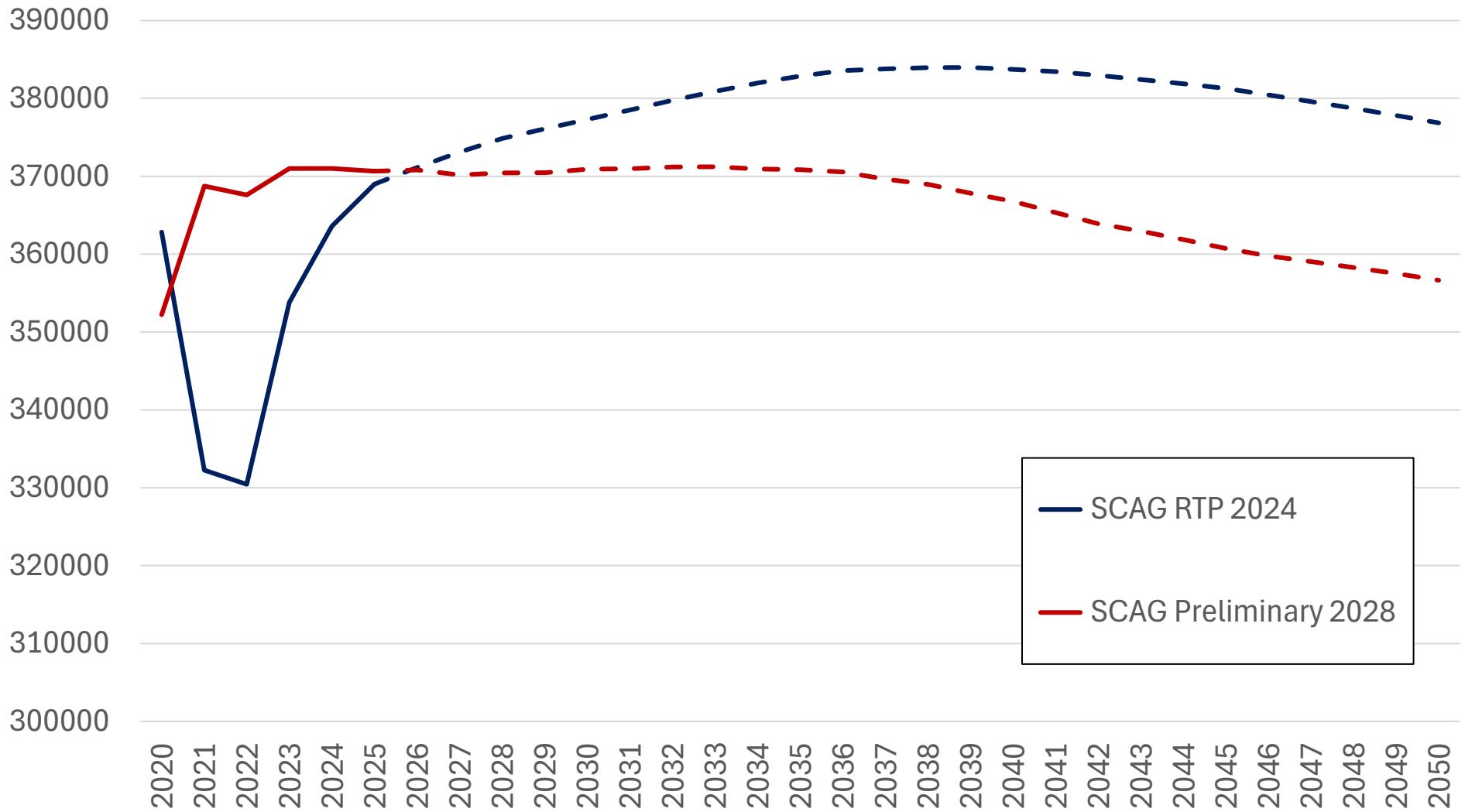
Ventura County Population Forecast



Countywide Demographic Forecast



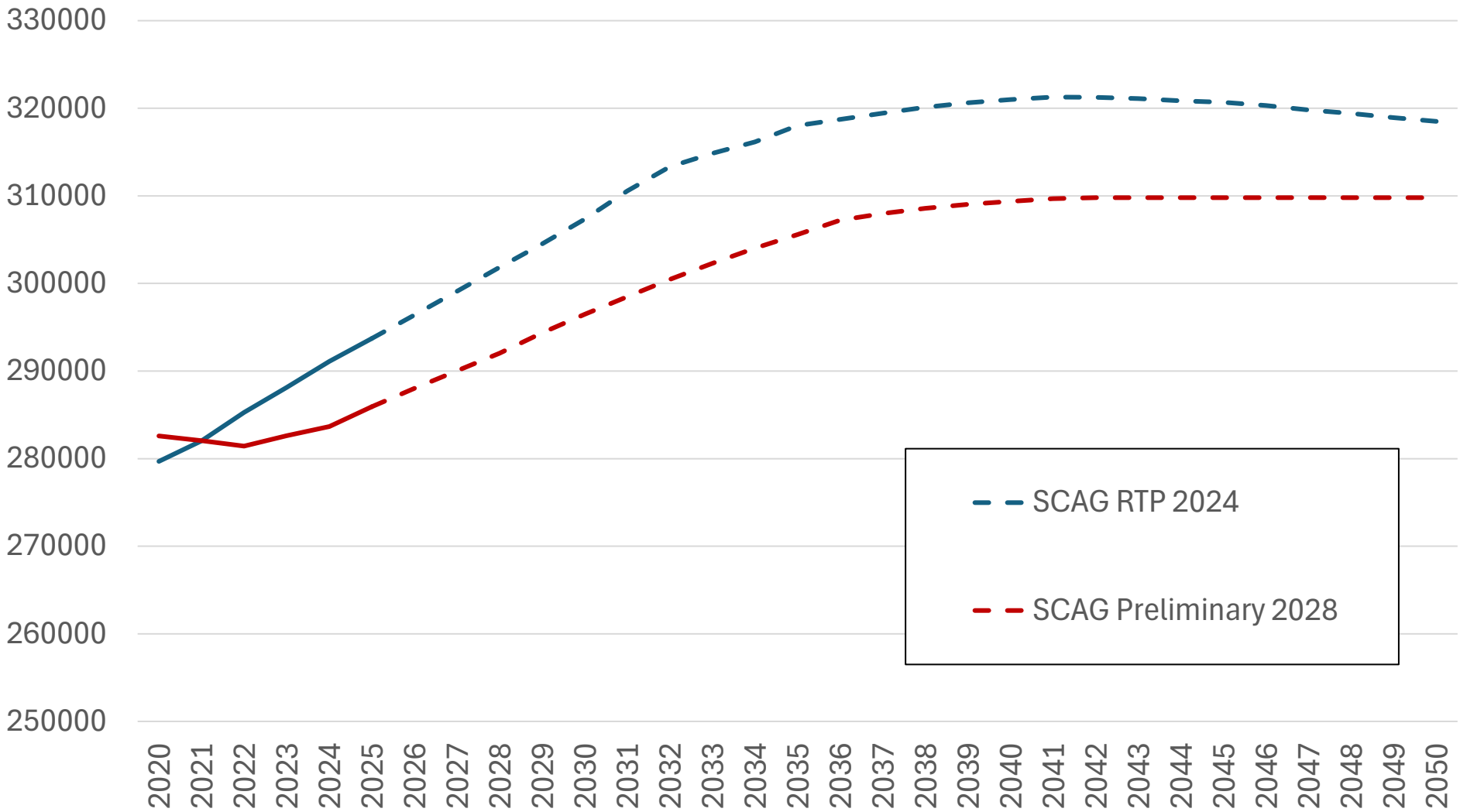
Ventura County Employee Forecast



Countywide Demographic Forecast



Ventura County Households Forecast



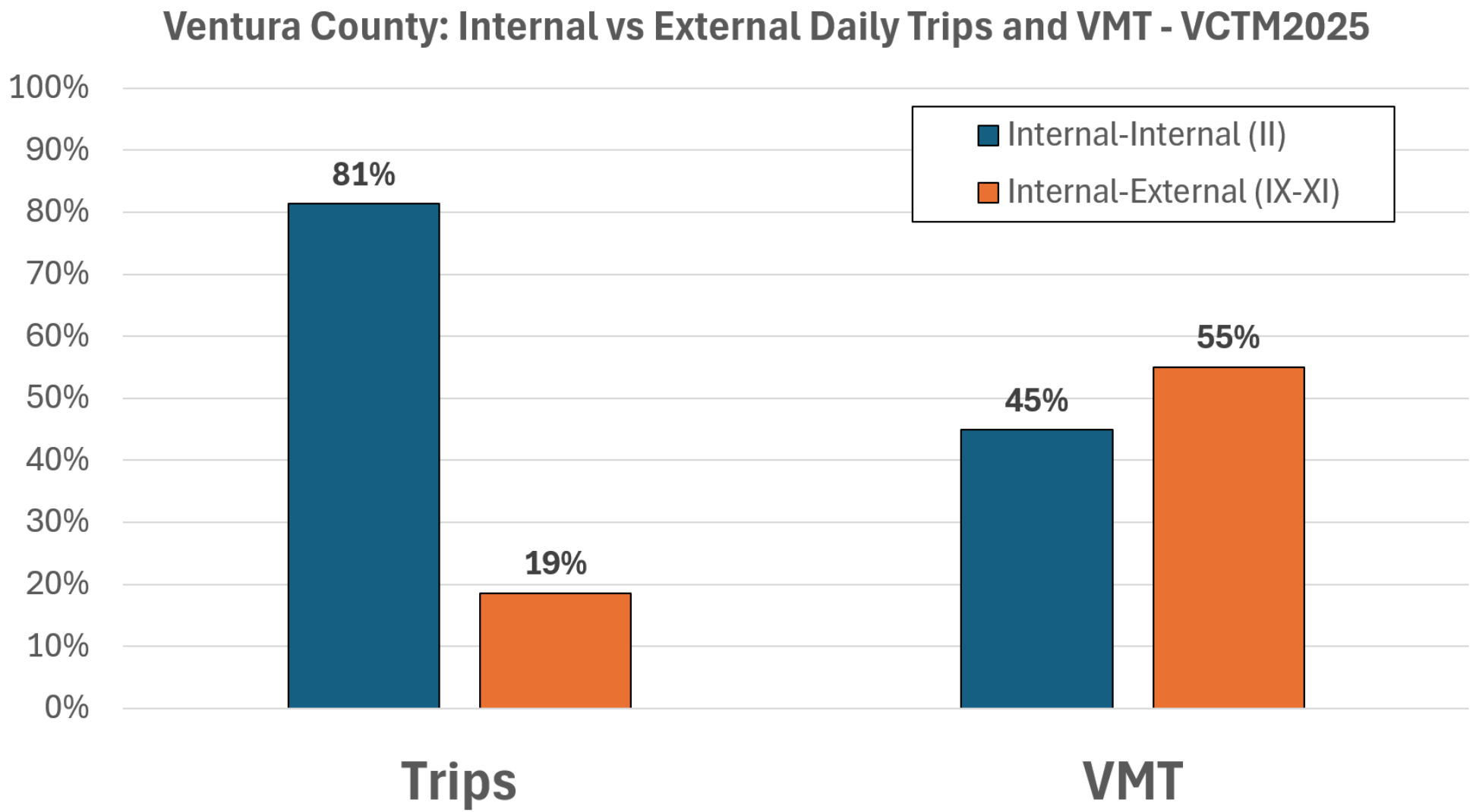
Countywide Travel Demand Forecast



Ventura County Daily VMT Forecast

Countywide Travel Demand Forecast

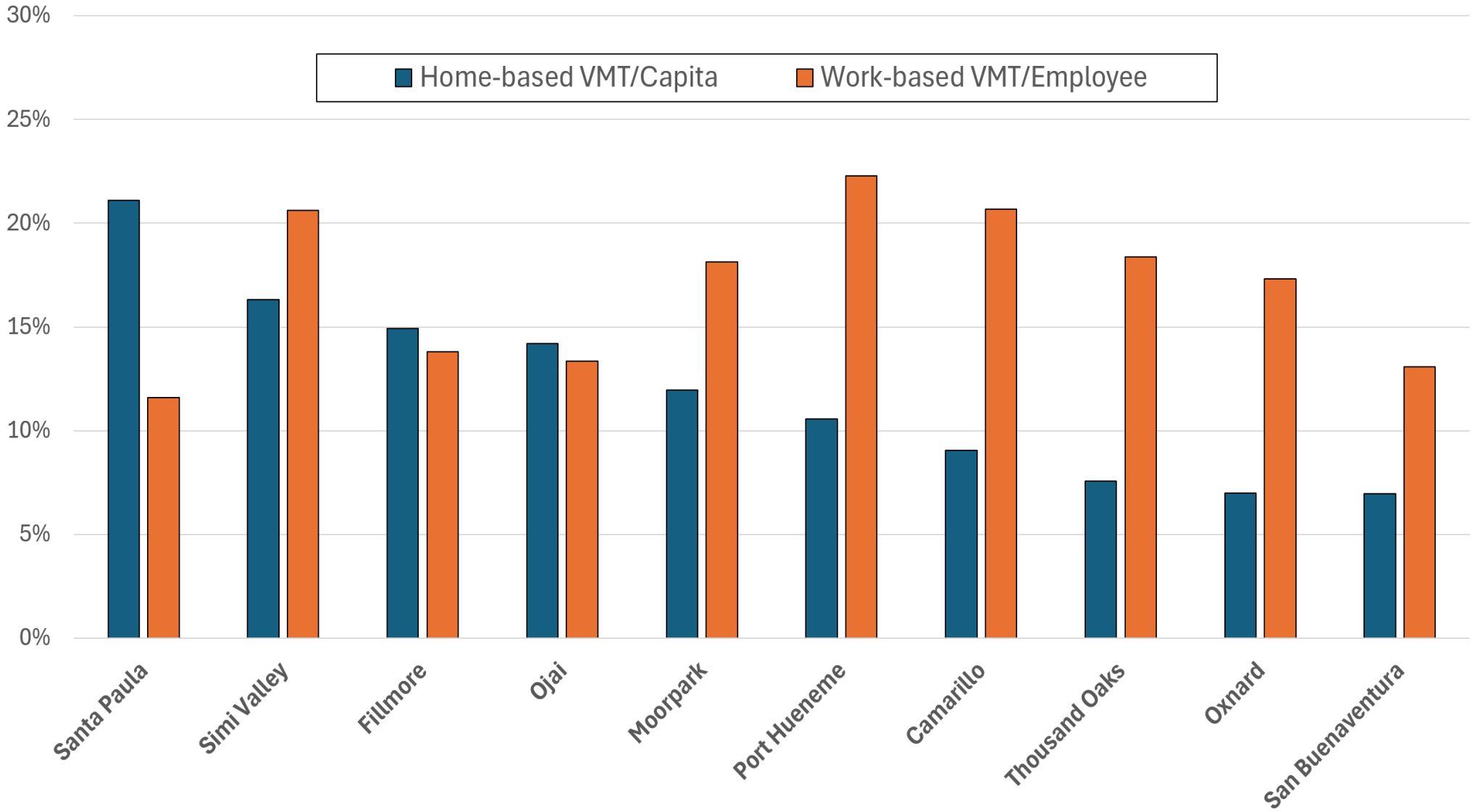




Countywide Travel Demand Forecast



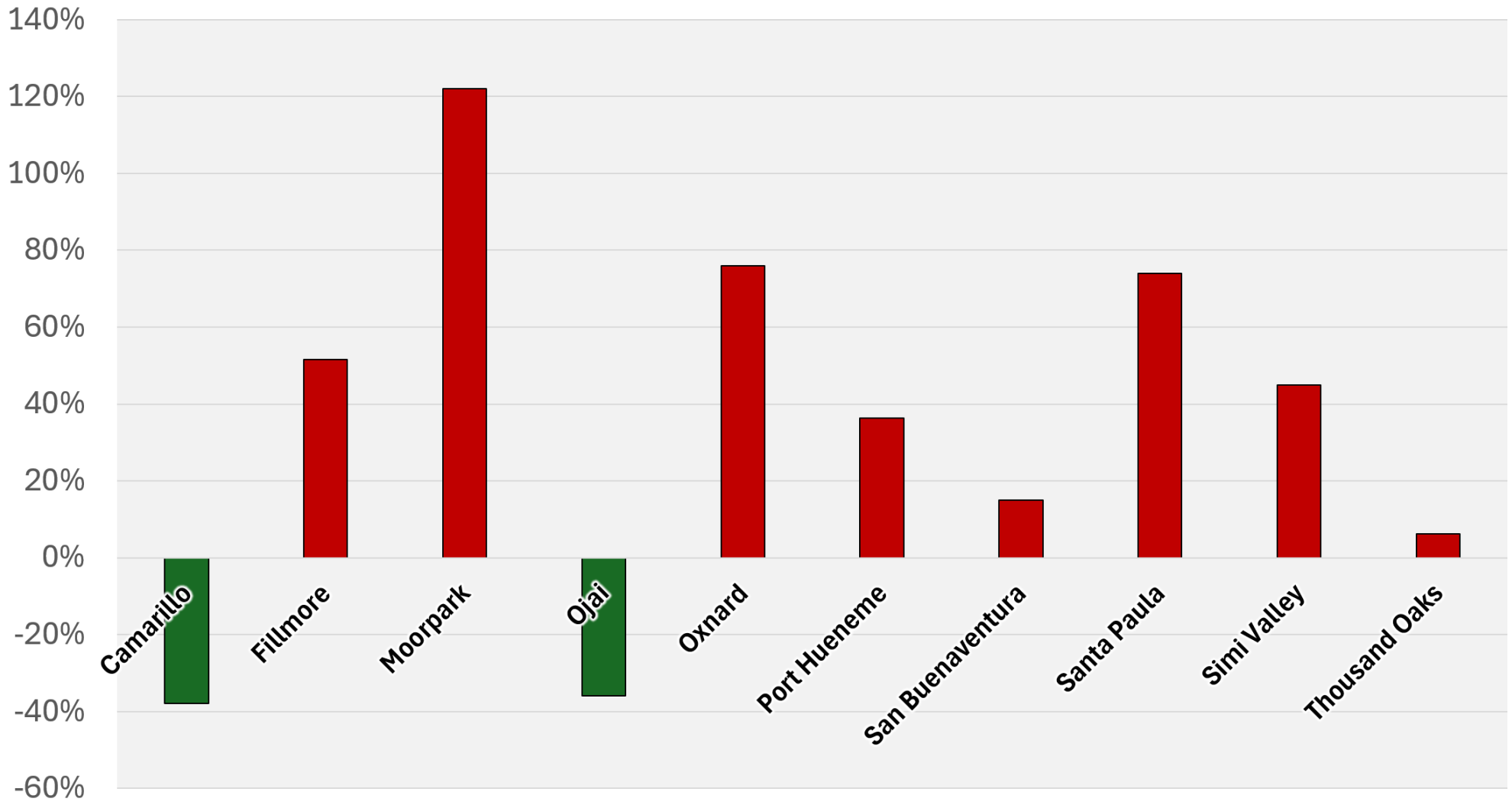
Forecast of SB743 VMT Perfomance Metrics by City (% Growth: 2025-2050)



Countywide Travel Demand Forecast

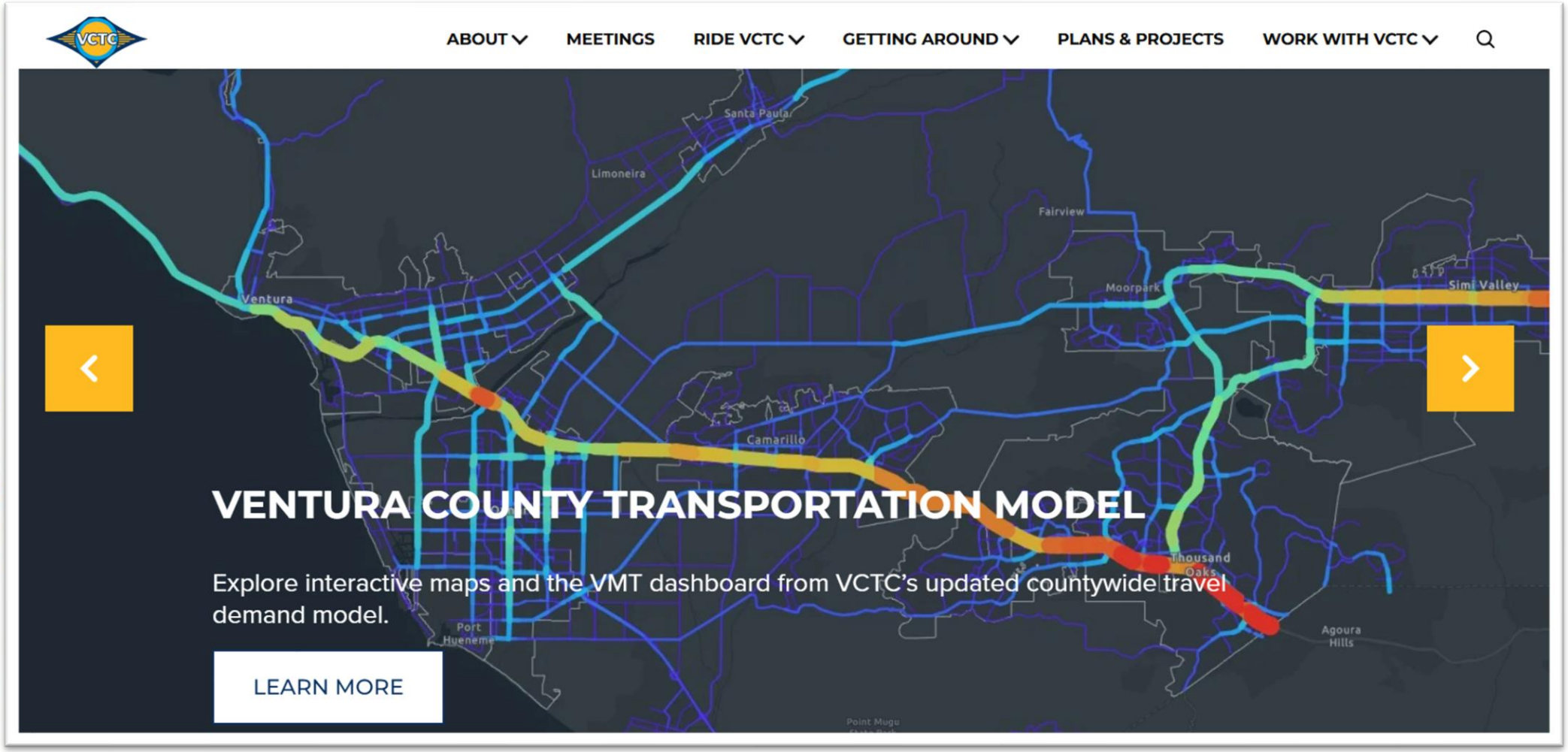


Forecast of Vehicle Hours of Delay (VHD) by City (VCTM 2025-2050)



VCTM Webpage





https://www.goventura.org/vctm/

VCTM Output Maps



VCTM VMT by TAZ

Find address or place

Basemap

Ojai
Mira Monte
Carpinteria
Oak View
Fillmore
Santa Paula
Ventura
San Buenaventura
Moorpark
Simi Valley
Camarillo
Oxnard
Port Hueneme
Thousand Oaks
Agoura Hills
Point Mugu State Park
Malibu Creek State Park
Malibu

VMT Layers

- HQTA
- City Boundary
- Home Based VMT per Capita

Filter: Home Based VMT per Capita

- Below Countywide Average
- 15% Below Countywide Average
- Camarillo - Below Citywide Average

Filter: Work Based VMT per Employee

- Below Countywide Average
- 15% Below Countywide Average
- Camarillo - Below City Average

Add or Export Data

- Export
- Add Data

VCTM Output Maps



VCTM OD Trips - Base Year 2025

OD Trips Filter

Origin

Origin is

Ventura Area

Destination

Destination is

- All -

Time

Time is

Daily

Mode

Filtered Origin - Destination Trips by Time

Ventura Are...

Los Angeles...

Ojai Area

Moorpark Ar...

Las Posas A...

Piru Area

0

200,000

VCTM Output Maps



VCTM Base Year 2025 Volumes

Volume FIlters

- 2025 AM Volumes Filter
  - 2025 AM Volume - All Modes Volume
  - 2025 AM Volume - Truck Volume
- 2025 PM Volumes Filter
  - 2025 PM Volume - All Modes Volume
  - 2025 PM Volume - Truck Volume
- 2025 Daily Volumes Filter
  - 2025 Daily Volume - All Modes Volume

Add or Export Data

Legend

2025 Daily Volumes Filter

2025 Daily Volume - All Modes Volume

Daily All Modes Volume - Total

> 96,452

< 0

Ojai
Mira Monte
Oak View
Carpinteria
VENTURA
Santa Paula
Ventura
Moorpark
Simi Valley
Camarillo
Oxnard
Thousand Oaks
Agoura Hills
Calabasas
Point Mugu State Park
Santa Monica Mountains National Recreation Area
Malibu

California State Parks, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS

Powered by Esri

VMT Dashboard



SB 743 VMT Dashboard
Ventura County Transportation Commission

Scenario: **2025 Base Year** Model run: **2026-05-07** 702 TAZs

Year: 2025 Base Year | Jurisdiction: All — Ventura County

Showing: **Ventura County (Total)** · 702 zones · Pop. 837,615.716 · Emp. 333,506

SB 743 KEY METRICS — 2025 BASE YEAR · VENTURA COUNTY (TOTAL)

HOME-BASED VMT / CAPITA
16.0 mi/person
837,615.716 residents · 13,382,599 daily VMT

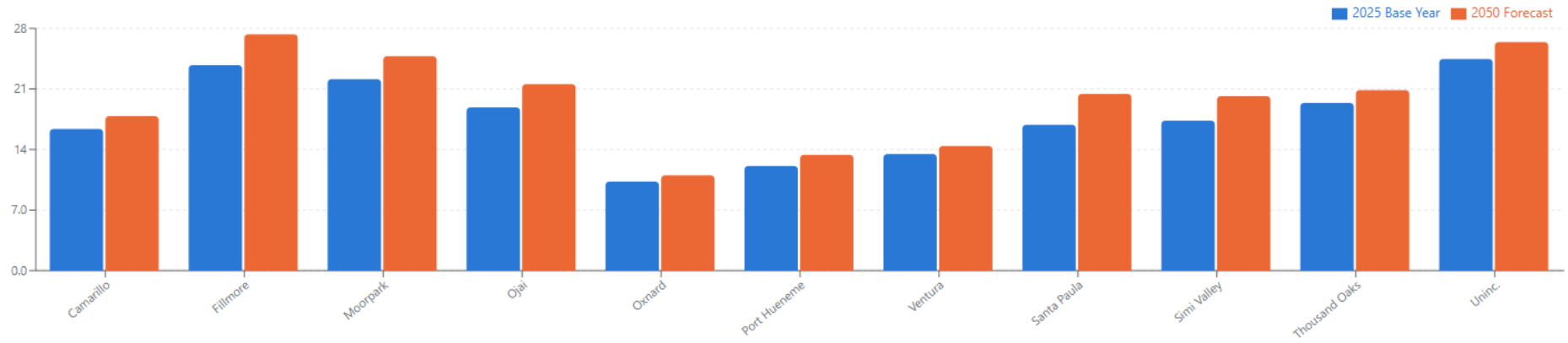
WORK-BASED VMT / EMPLOYEE
16.2 mi/emp
333,506 employees · 5,408,669 daily VMT

2025 → 2050 Growth — Ventura County (Total)

Compare: VMT / Capita

POPULATION	EMPLOYMENT	HOME-BASED DAILY VMT	WORK-BASED DAILY VMT
851,689 in 2050 ▲ +1.7%	**340,639** in 2050 ▲ +2.1%	**14,909,083** in 2050 ▲ +11.4%	**6,521,238** in 2050 ▲ +20.6%
2025: 837,616 · 2050: 851,689	2025: 333,506 · 2050: 340,639	2025: 13,382,599 · 2050: 14,909,083	2025: 5,408,669 · 2050: 6,521,238

2025 Base Year vs 2050 Forecast by jurisdiction. Click a bar to filter the dashboard to that city.



Looking Forward



Current VCTM is expected to serve Ventura County into the early 2030s.

Staff will need to evaluate two alternatives for development of the next iteration of VCTM:

1. Continue with major updates to the legacy SCAG sub-regional Travel Demand Model (TDM), a traditional 4-step model framework, which is no longer supported by SCAG.

2. Develop a countywide Activity-Based Model (ABM) based on the current SCAG regional model code base or an open-source alternative such as the "Activity Sim" ABM.

The Activity-Based Model design is a better approximation of traveler behavior and dynamics; however, is more expensive to develop and maintain. The value of upgrading to an ABM will largely depend on assessing the needs of model stakeholders.



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