



# Transportation Modeling Forum

Transportation Analysis & Modeling | Data Science  
March 10, 2026

# Agenda



**Welcome**



**2025 Regional Plan**



**Data Dissemination**



**ABM3 Application**



**ABM3 Development Update**



**Questions & Discussion**

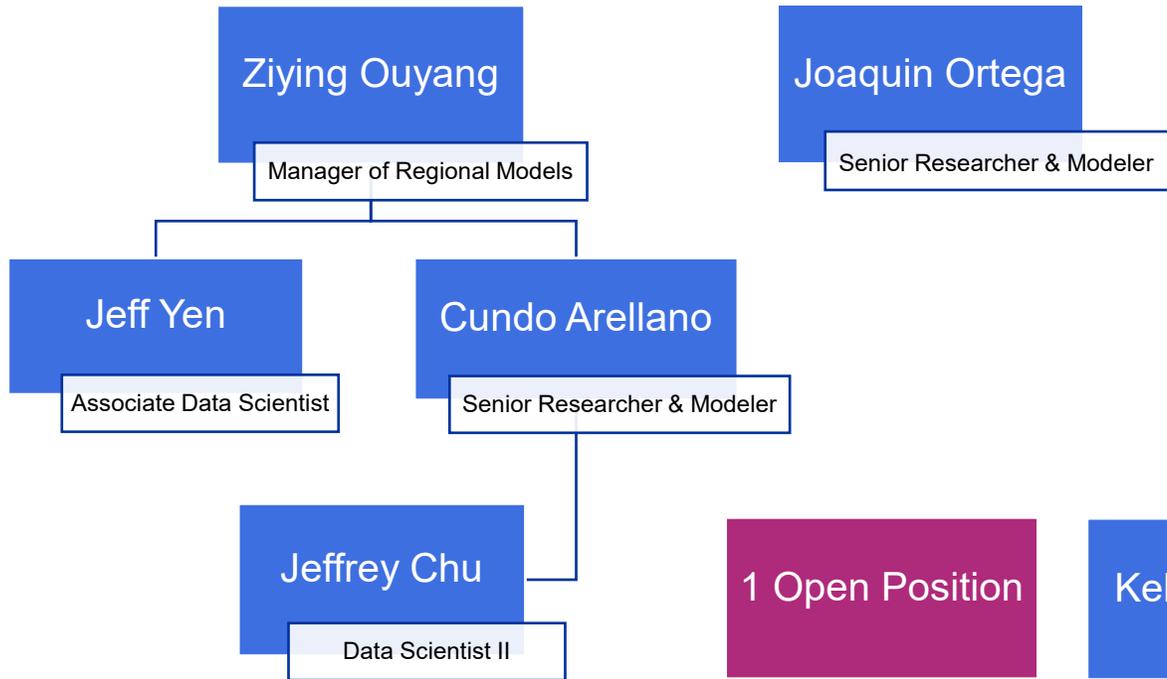
# Welcome

- 26<sup>th</sup> Transportation Modeling Forum
- Grace Miño (Senior Director of Data Science and IT )
  - Opening Remarks
  - Data Science Dept. Updates

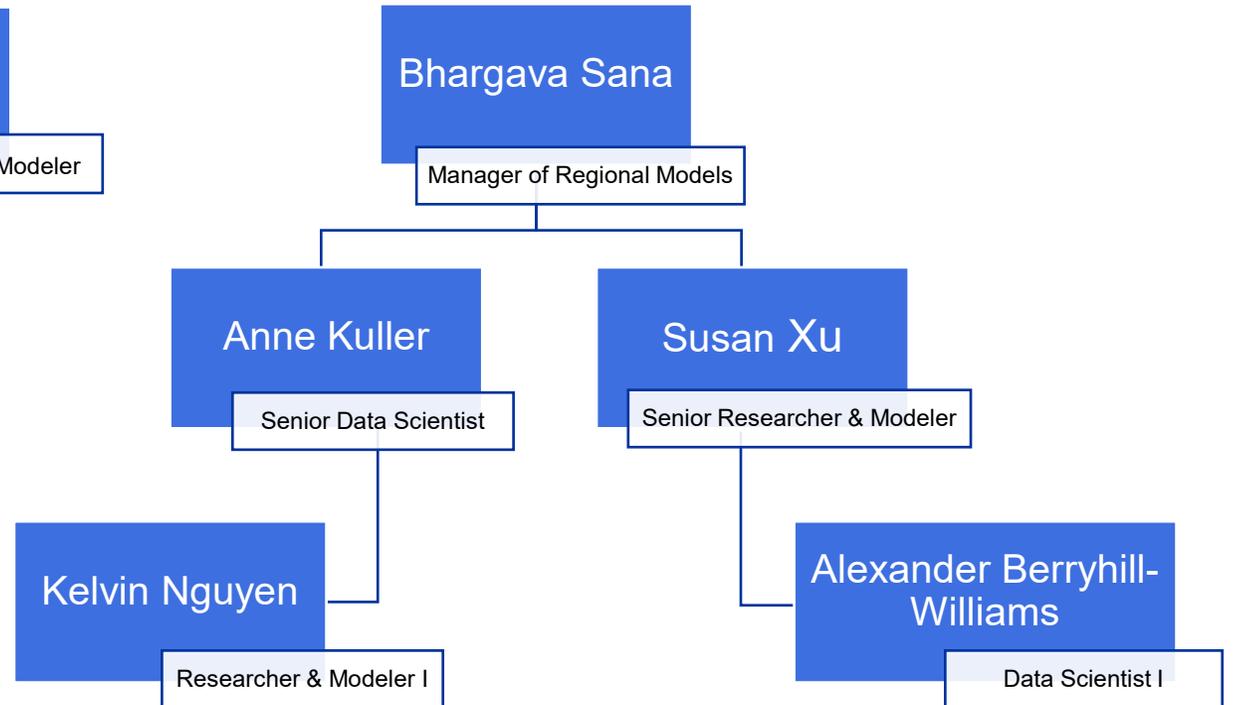


# Welcome – Transportation Analysis & Modeling

## TAM - Application



## TAM - Development



# 2025 Regional Plan (RP) Sustainable Communities Strategies (SCS)

Ziying Ouyang

# 2025 RP SCS Adopted



## SB375 Greenhouse Gas (GHG) Reduction Target\*

Target Year	CARB Target	GHG
2035	19%	19.35%
2050	N/A	19.38%

\*SB375 GHG emission reductions are from passenger and measured against the 2005 baseline.

GHG per capita reduction includes on model, off-model and induced demand adjustments

# 2025 RP Scenario Name Elements

- RP Models

	Final 2025 RP	Amended 2021 RP
ABM Model	ABM3 (ActivitySim)	ABM2+ (CT-RAMP)
ABM Version Release	15.3.1	14.2.2
Base Year	2022	2016
RP Years	2035, 2050	2025, 2035, 2050
Land Use Version	Series 15 Regional Growth forecast	Series 14 Regional Growth forecast

- TAZ & MGRA numbering different between Series 15 and Series 14
  - TAZ = Traffic Analysis Zone, MGRA = Master Geographic Reference Area

# Data Dissemination

Jeff Yen

# Data Dissemination

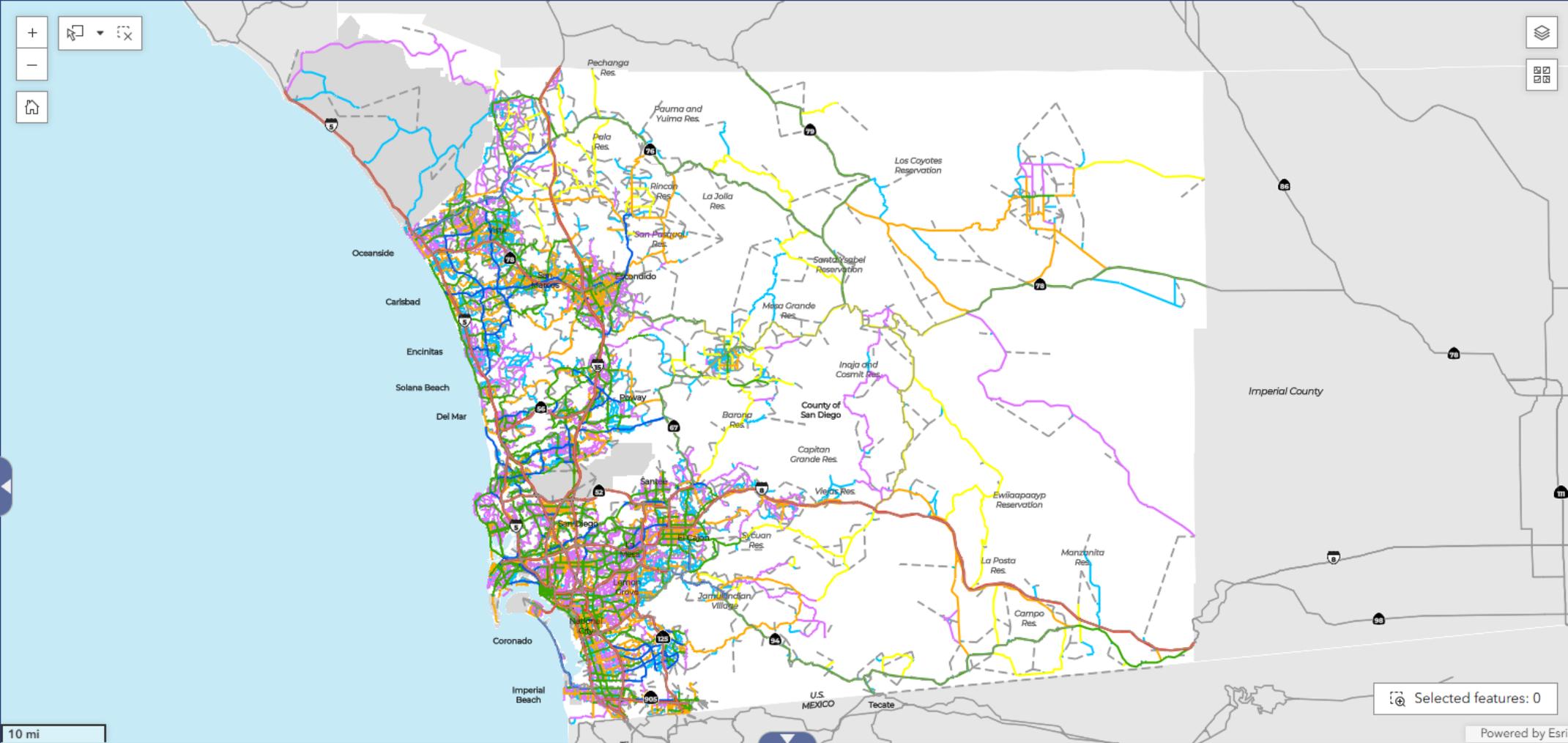
- **Transportation Forecast Information Center (TFIC)**
  - High-level traffic forecasts produced by the model at the roadway link level.
- **SB743 VMT Online Map Viewer**
  - Provide an estimate of personal vehicle travel by residents and employees within the San Diego region.
- **Mode Choice Report**
  - An estimate of demographics and travel mode choices for residents within each jurisdiction in the San Diego region.
- **SANDAG GitHub Repository**
  - SANDAG's Activity-Based Model code repository
- **ABM3 Wiki / User Guide**
  - A user guide of SANDAG's latest Activity-Based Model.

Search by address/keyword

Functional Class is any of  
0 Selected

Model Year is  
2022

Enter a single TAZ number between 1 and 4947  
Search TAZ



- TFIC Viewer Map**
- 1: Freeway
  - 2: Prime Arterial
  - 3: Major Arterial
  - 4: Collector
  - 5: Local Collector
  - 6: Rural Collector
  - 7: Local (non-circulation elem)
  - 8: Freeway Connector Ramp
  - 9: Local Ramp
  - 10: Zone Connector

Selected features: 0

TFIC Viewer Map TAZ15

Search

Name	Forecasted Volum...	Functional Class	Posted Speed	Lanes (bi-directional)	Way (1 or 2)	Median Type	Vehicle Miles Trav.
ROSE	8.3	Collector	30	2	2	No Median	435
W 15TH	1.5	Local (non-circulation ele...	25	2	2	No Median	143

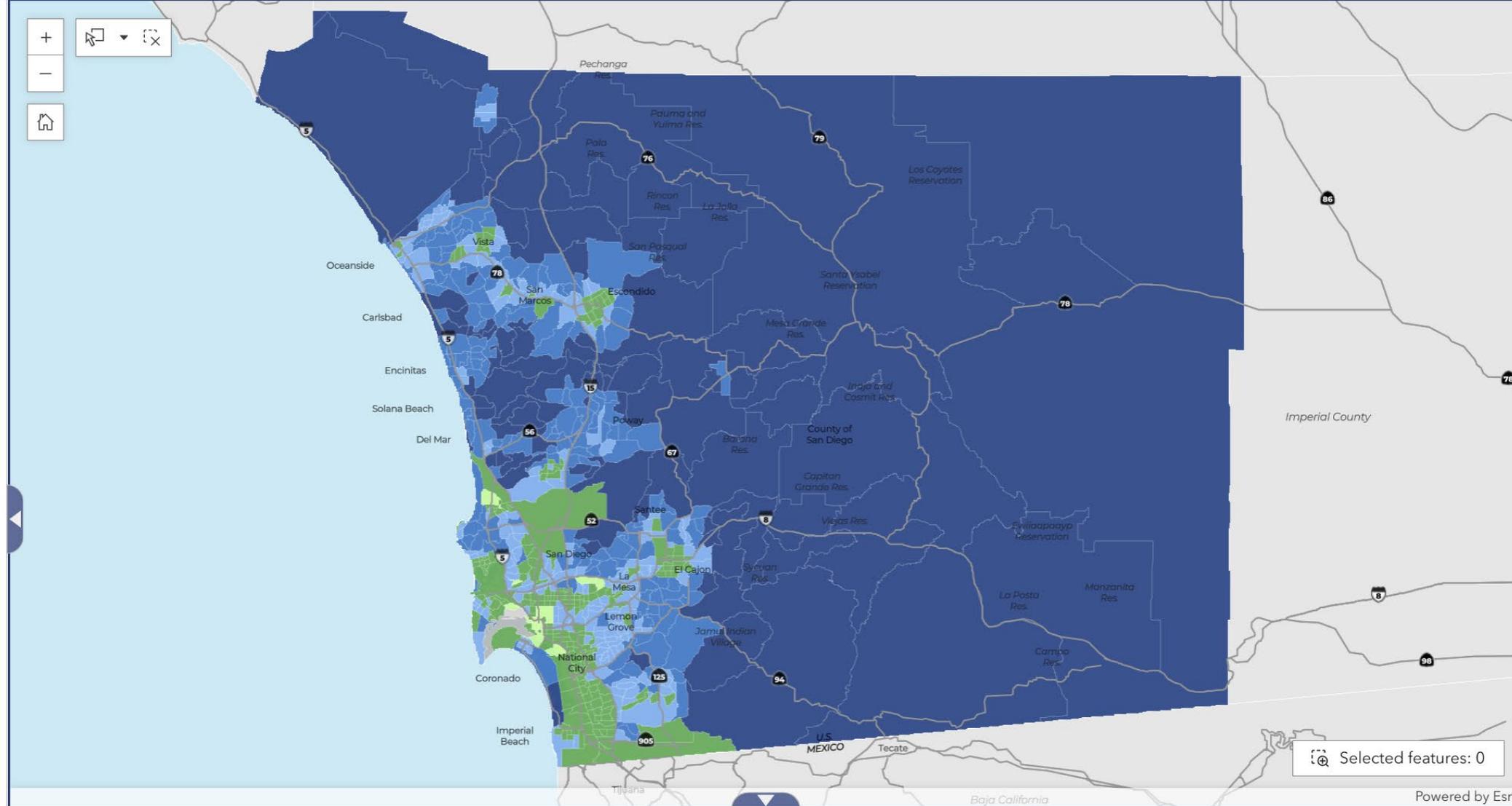
Total: 40,720 | Selection: 0

Search by keyword

Geography Type is

Model Year is

Resident or Employee VMT



**San Diego Region SB743 Vehicle Miles of Travel (VMT)**

- More than 125% of Regional Mean
- 100% to 125% of Regional Mean
- 85% to 100% of Regional Mean
- 50% to 85% of Regional Mean
- Less than 50% of Regional Mean
- Not Enough Data
- No Resident or Employee

San Diego Region SB743 VMT Selected features: 0

Year	Geography	Name	Persons	VMT per Capita	Percent of Mean
2022	Census Tract	1	2,878	15.94350338	95.2%
2022	Census Tract	2,041	4,295	12.94511111	77.0%

# Jurisdiction Mode Choice Report

Filters (2) [Clear All](#)

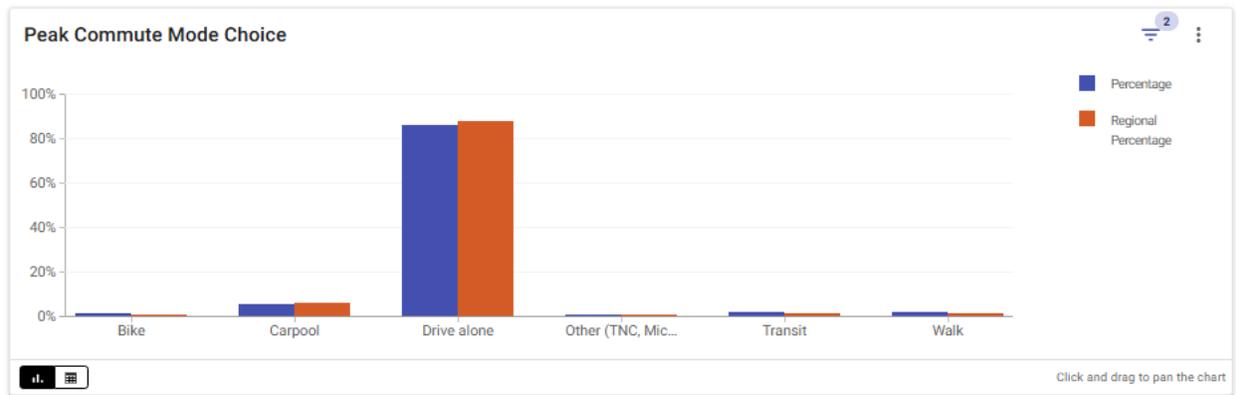
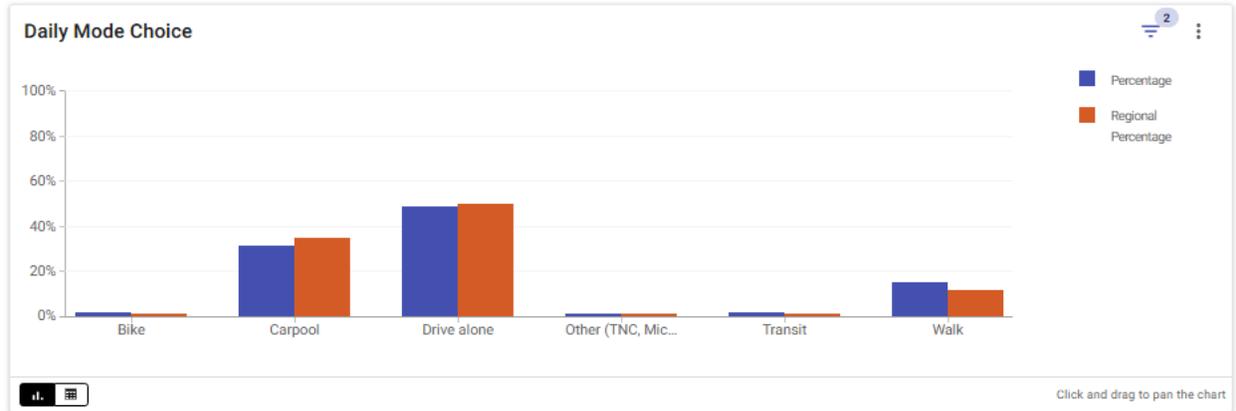
Year:  Jurisdiction:

### Selected Jurisdiction

### Demographics

Metric	Amount
Population	1,374,790
Households	516,414
Employees	1,128,965

1 to 3 of 3



# ABM3 Application

Cundo Arellano

# ABM Applications



CoSD Plan: <https://www.sandiego.gov/planning/work/general-plan>



Otay Mesa: <https://www.sandiego.gov/sites/default/files/planning-work-programs.pdf>



SAN Logo: <https://www.san.org/>



I-15 Express Lanes: <https://511sd.com/>

# Requests & Custom Modeling

- Member Agency Modeling Requests
  - Handled by Service Bureau
  - Email [car@sandag.org](mailto:car@sandag.org)
- ABM3 Wiki
  - Available at: <https://sandag.github.io/ABM/>
- Off-the-Shelf Data Requests
  - Handled by [Data Request Form](#)
  - or [data@sandag.org](mailto:data@sandag.org)
- Land Use Converter for ABM3
  - Under development



SANDAG 2025 Regional Plan  
Modeling Data Request Form



# ABM3 Development Update

Bhargava Sana

# What's Next for ABM?

- Update San Diego International Airport model
- Convert remaining Java programs
- Improve computational efficiency & runtime
- Upgrade to ActivitySim v1.5.0
- New base year for 2029 RTP
- Enable use of VMs on Azure



# Questions & Discussion

# Survey Response

- Bi-National Border Transportation Model
  - ABM3 Crossborder Model
- Schedule for providing land use inputs for next model iteration
- Availability of city-level VMT data from ABM3 / 2025 RP

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