



2025 Regional Plan Modeling Process

Measuring Transportation Impacts

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What is a Regional Plan

Merges 3 Planning Documents

**Regional
Transportation
Plan**

**Sustainable
Communities
Strategy**

**Regional
Comprehensive
Plan**

Major Requirements



Equity

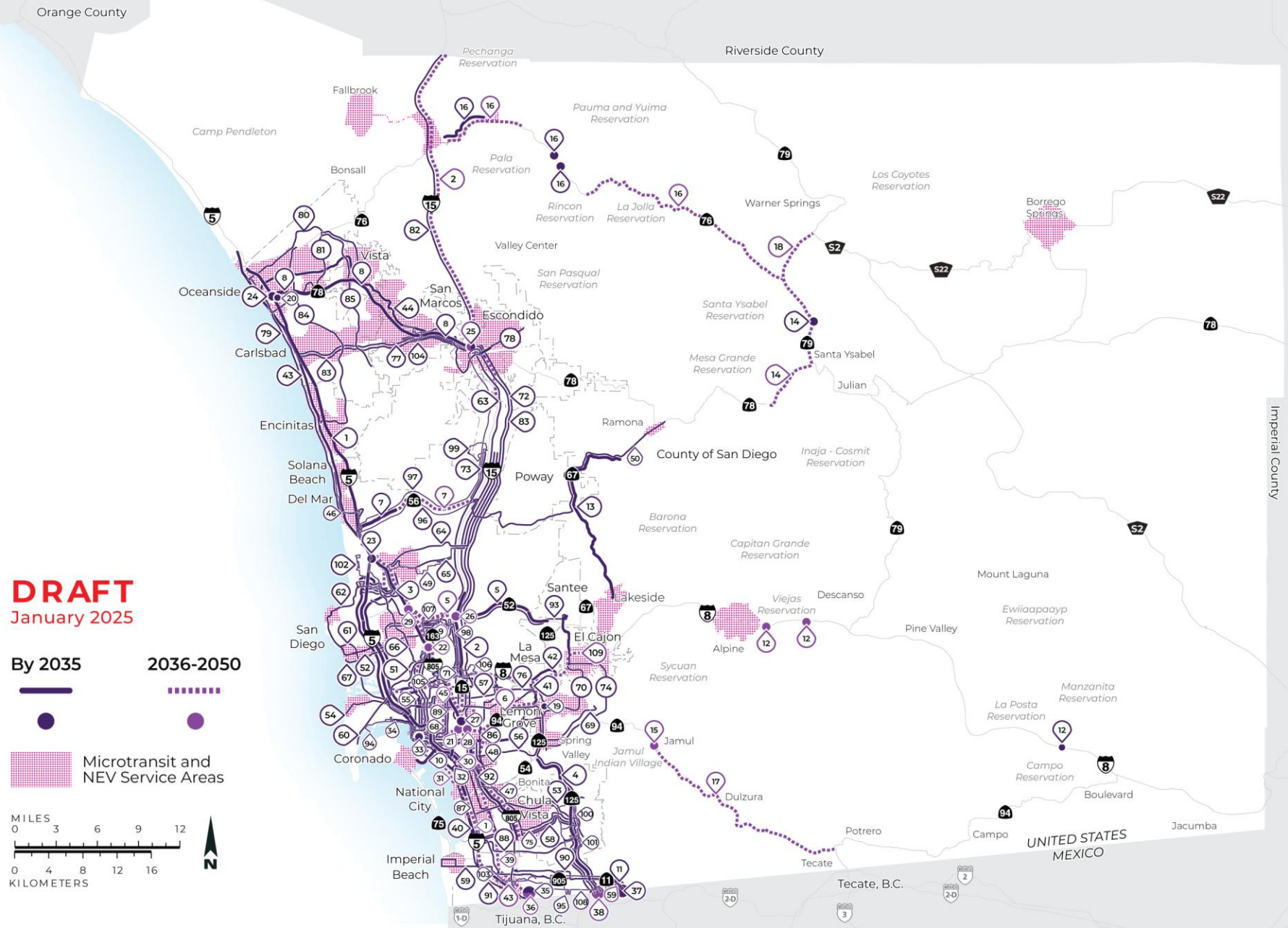


Air Quality



**Greenhouse Gas
Emissions/Vehicle Miles
Traveled**

Draft 2025 Regional Plan Transportation Network



DRAFT
January 2025

By 2035 2036-2050

Microtransit and NEV Service Areas

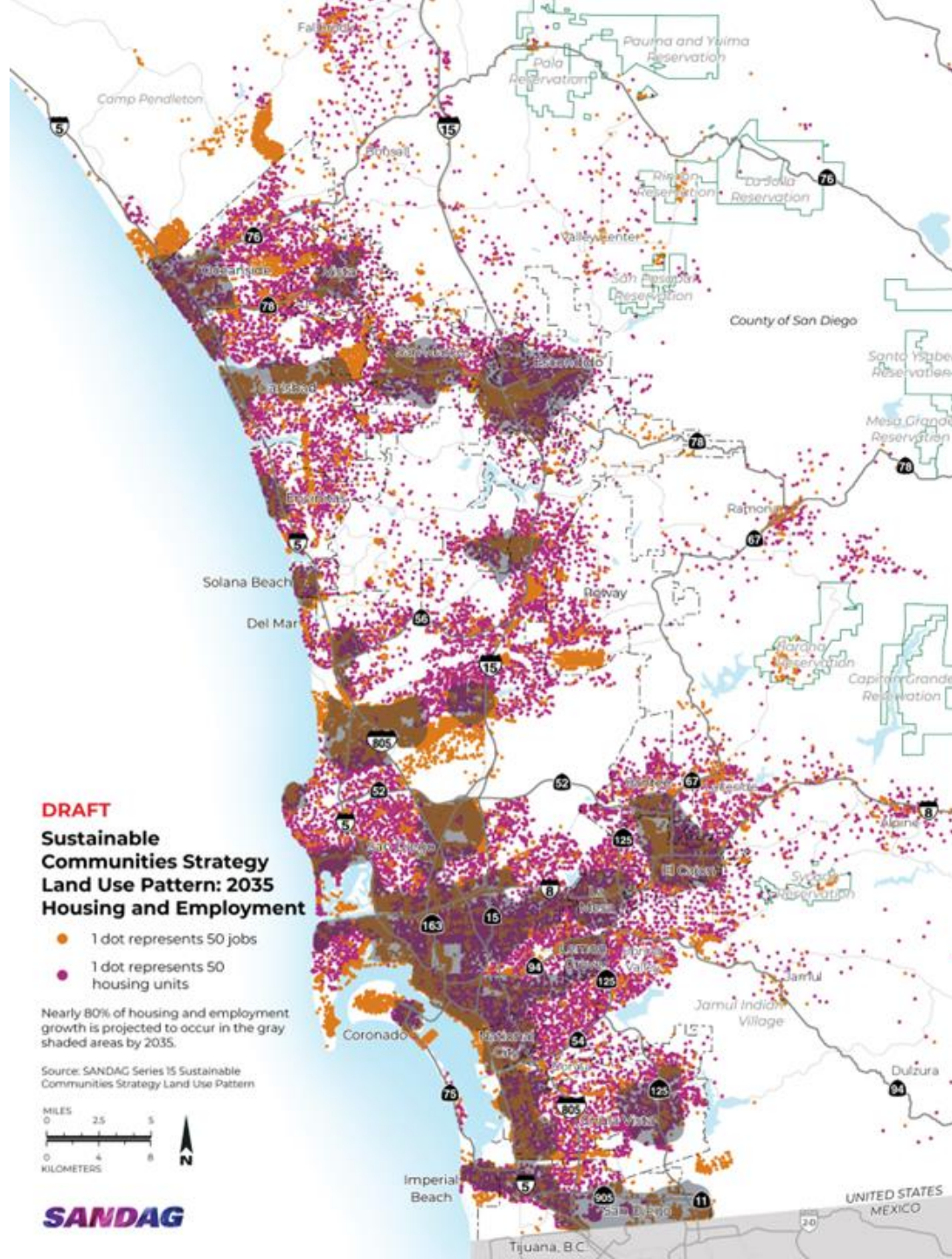
MILES
0 3 6 9 12

KILOMETERS
0 4 8 12 16

N

Sustainable Communities Strategy Land Use Pattern

80% of job and housing growth will occur in the gray shaded areas by 2035.



Policies and Programs



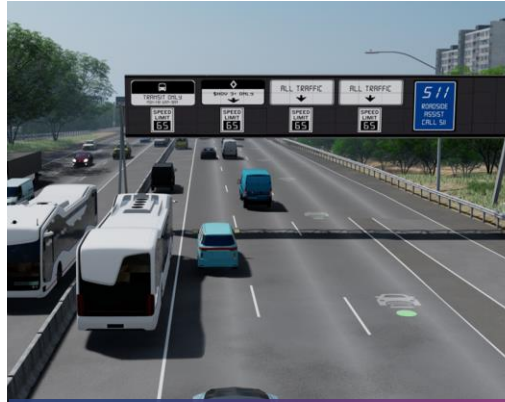
Pricing Strategies



Climate



Housing & Land Use



Transportation Technology



Transportation Demand Management (TDM)



Vision Zero



Digital Equity



Habitat Conservation

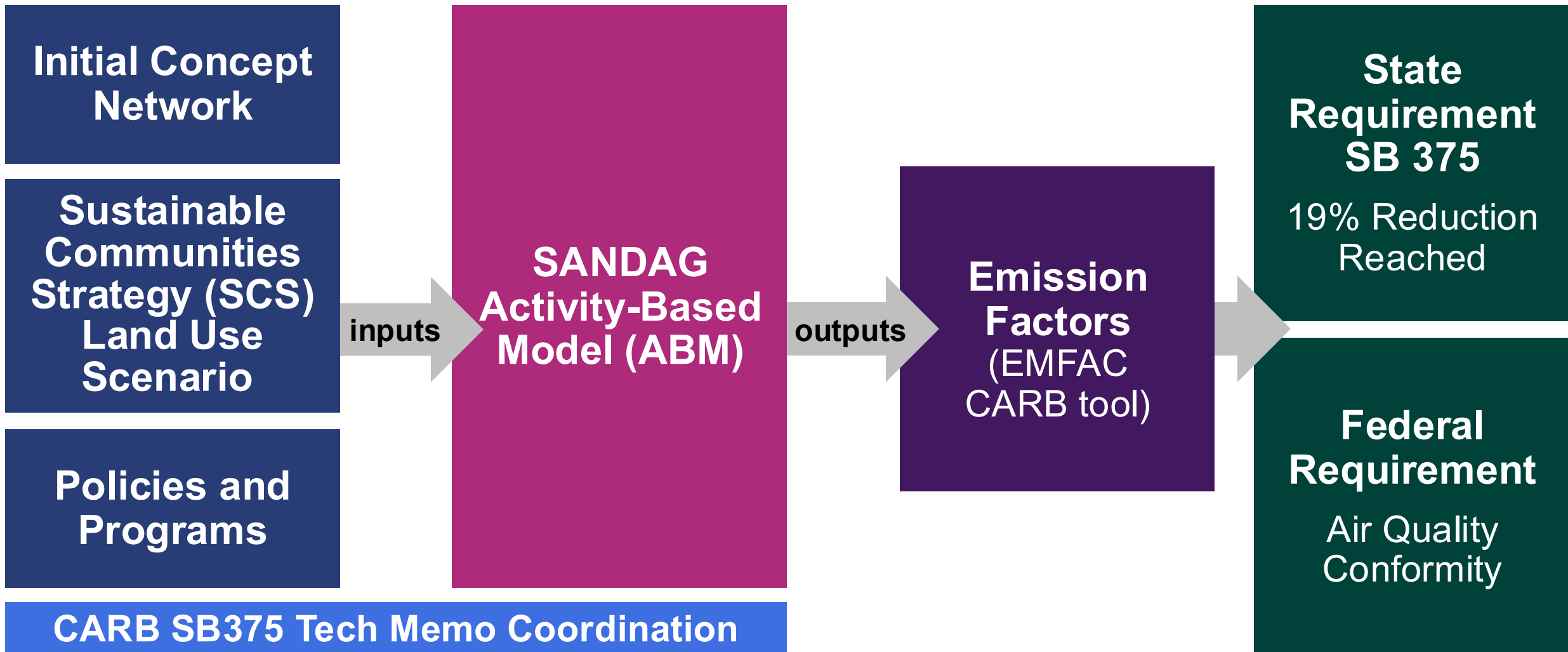


Fix it First

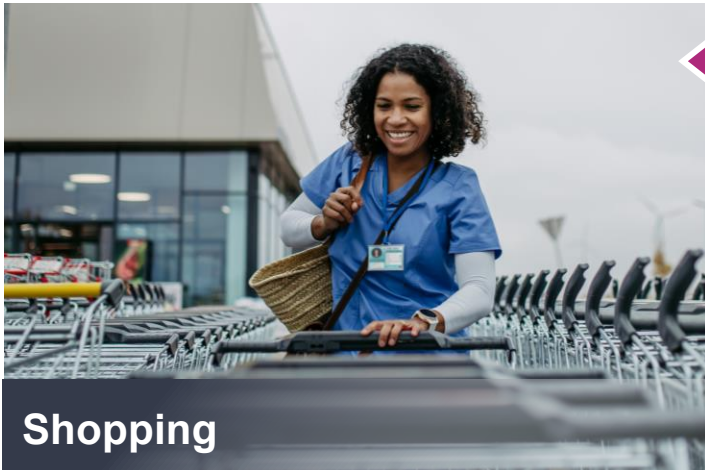


Health

Calculating If Our Concept Will Meet the Requirements



What is an Activity-Based Model?



How Does the ABM Work?

Inputs

- Land-Use Scenario
 - Socio-demographic attributes
 - Land-use and economic attributes
- Networks
 - Highway, Transit and Active Transportation
 - Travel times and costs

SANDAG Activity-Based Model (ABM)

Outputs

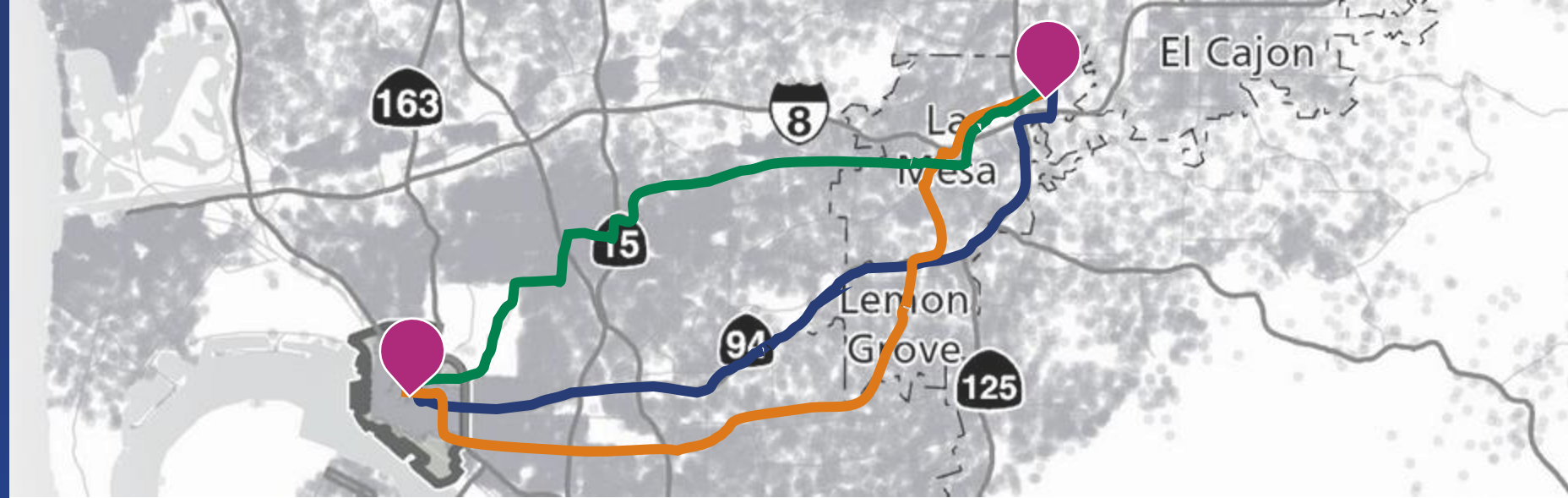
- Vehicle miles traveled
- Trips
- Mode of travel
- Traffic volumes
- Traffic congestion
- Transit ridership

ABM Example



“Lisa”

- 50 years old
- Lives in La Mesa
- Married
- Son (12 years old)
- Works downtown
- 2 car family
- Moderately high income



25 min
\$2 fuel & maintenance
\$8 parking
97.2%

- Added freeway capacity?
- Increased parking costs?
- Vehicle was AV?



50 min
\$2.50 fare
2.7%

- Increased travel speed?
- Decreased transit fares?
- Increase how often transit comes?



1 hour
free
0.1%

- Added Separated Bike Facilities?
- E-bikes?

Types of Travelers in San Diego

Residents



Visitors



Border Crossers



Air Passengers



Interregional Trips



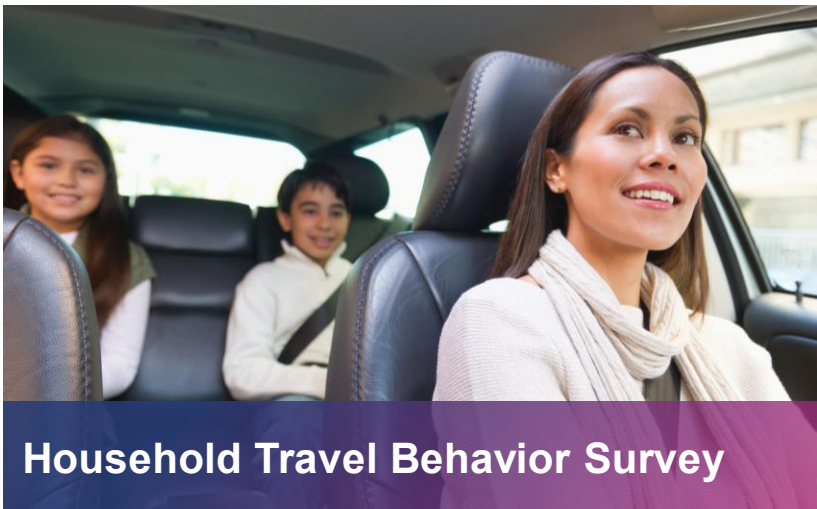
Commercial Vehicles



External Heavy Trucks

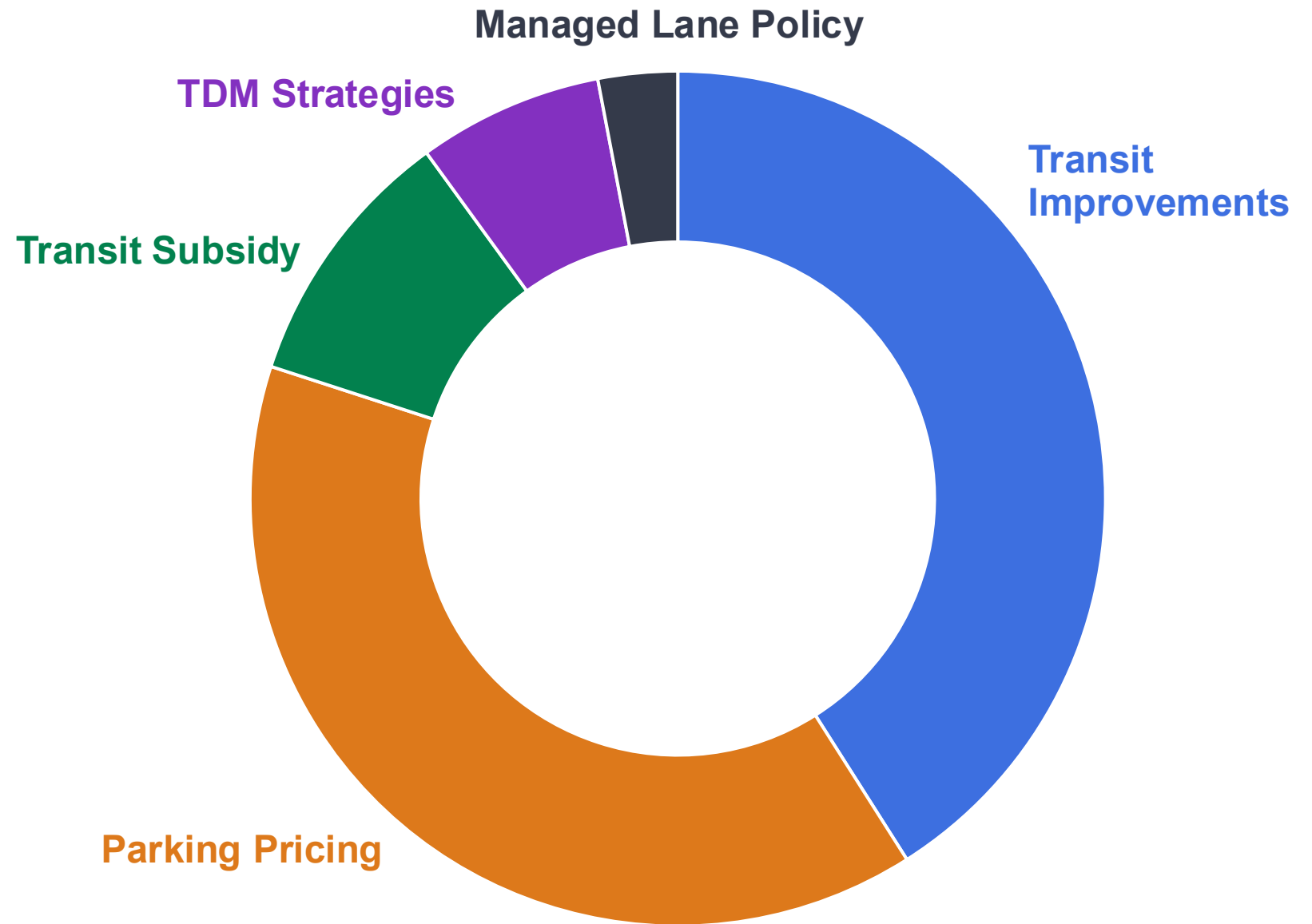


Collecting Data Not Available Elsewhere



Draft 2025 Regional Plan

What strategies did we use to meet our emission reduction target?



Performance Measures

Convenient



Decreased travel time for all modes including commercial vehicles

Equitable



Increased access to basic needs and opportunities

Healthy



Increase in transportation related physical activity

Safe



More safe active transportation infrastructure

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