



# **SOUTH ORANGE COUNTY**

## **MULTIMODAL TRANSPORTATION STUDY**

# Study Objectives

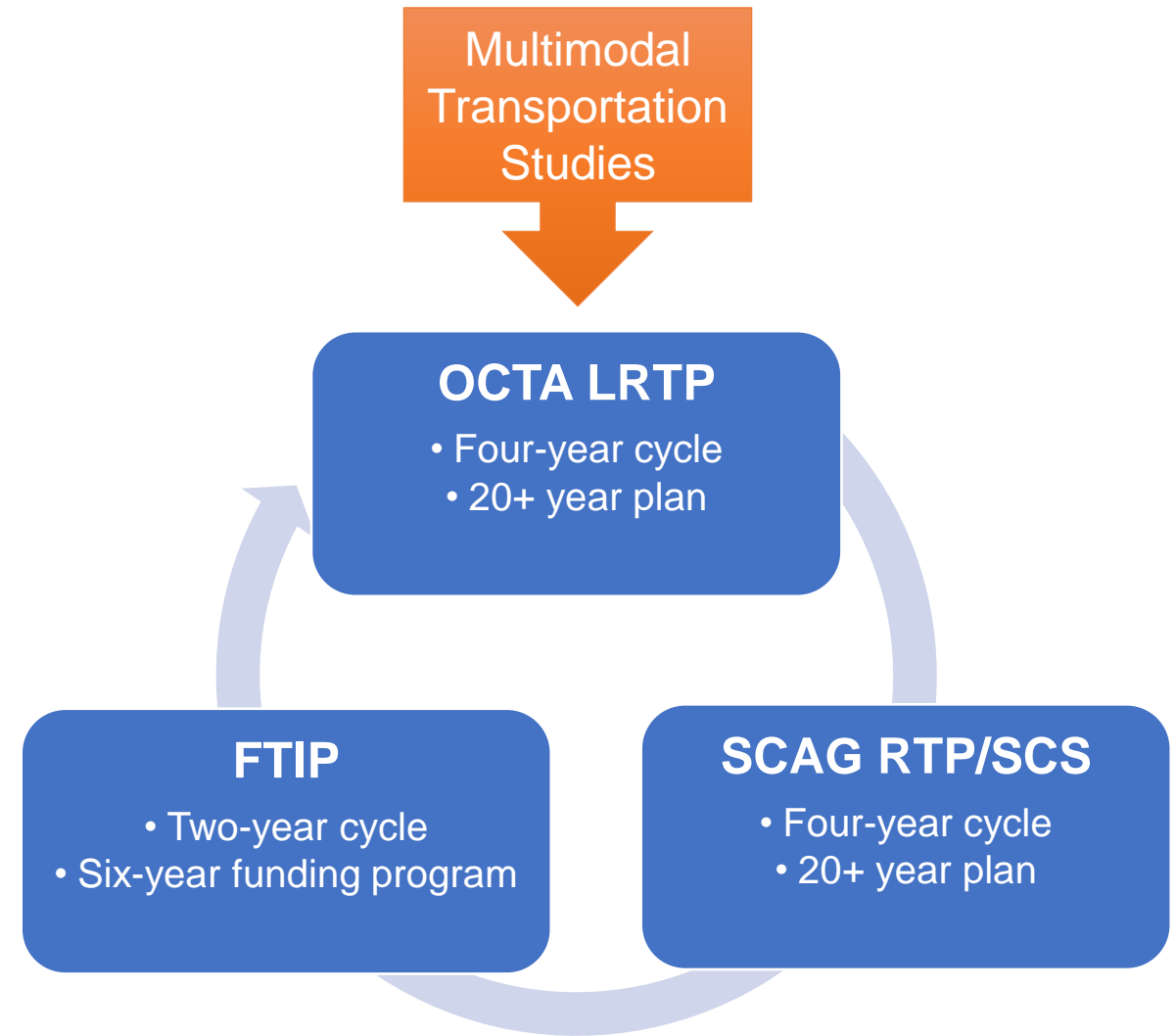
Develop community consensus on a set of long-term multimodal transportation improvements

- Update to the 2008 South Orange County Major Investment Study
- Reflect progress and latest planning assumptions



# Study Background

- Multimodal studies present a financially unconstrained vision for the transportation system to address long-term needs
- With consensus on a set of multimodal transportation strategies, projects can be considered in financially constrained planning and programming documents



# Study Scope Highlights

## Phase 1

- Identify Issues and Opportunities
- Develop Purpose and Need Statement
- Develop Initial Alternative Strategies

2020



## Phase 2

- Screening Alternative Strategies
- Select Reduced Set of Alternative Strategies



## Phase 3

- Analysis of Reduced Set
- Recommend a Locally Preferred Strategy

2021

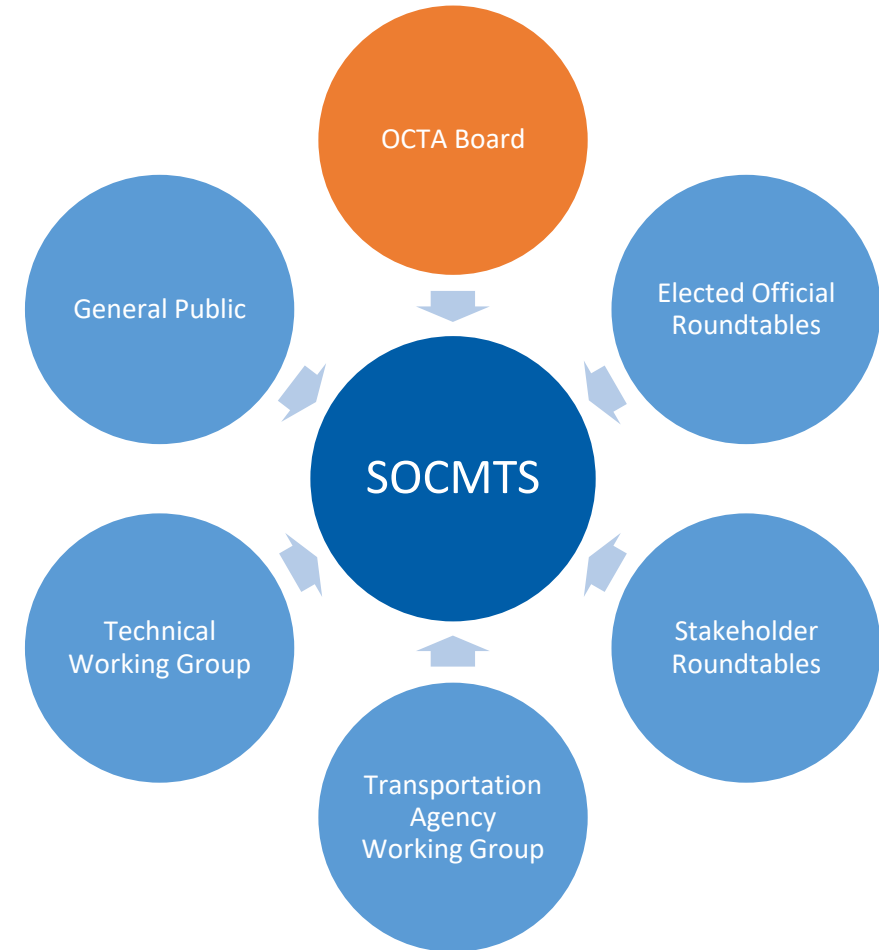
# Public and Partner Agency Engagement

## Study input solicited from:

- General Public
- Stakeholders
- Elected Officials
- Cities/County
- Partner Agencies

## Online survey and public webinar

- Online survey in English, Spanish, Mandarin, Korean, and Vietnamese
- Hotline available in multiple languages
- Digital media (social media, blogs, eblasts)



# Transportation Issues and Opportunities

## Highways, Toll Roads, and Arterials

Weekday, weekend, and seasonal congestion | Low travel-time reliability (unexpected delays) | Critical bottlenecks on Interstate 5 and Interstate 405 | Dependence on east-west arterials

## Transit

Limited transit accessibility attributable to low-density land-use patterns | Infrequent service, inconsistent reliability | Less convenient than driving (wait times, transfers)

## Active Transportation

Gaps in the active transportation network | Low usage due to circuitous road network, long trip distances | Safety concerns for pedestrians and bicyclists

## Transportation Demand Management (TDM)

Long-distance, peak-period commute trips to north Orange County and other counties (especially Los Angeles) | Low transit mode share in south Orange County

# Purpose and Need Statement

## Development patterns and transportation network favor driving

Increase availability of using non-single occupant vehicle modes | Provide convenient connections between travel modes | Provide options competitive to driving | Coordinate with land-use changes

## Growing travel demand on a constrained system

Reduce travel demand | Enhance transportation safety and efficiency | Better utilize available highway, managed lane, and arterial capacity

## Environmental and economic sustainability challenges

Increase zero-emission vehicles | Improve access to clean, affordable travel options | Improve transportation resilience | Minimize adverse environmental impacts | Support economic development and community enhancement

## Evolving travel behaviors in a rapidly changing world

Adopt flexible recommendations | Pursue proven technologies | Support equity and innovation



# Conceptual Strategies

Conceptual strategies that could be considered for evaluation



Active transportation



"Complete" freeways



Mobility-as-a-Service



Mobility hubs



New arterial capacity



Optimize existing capacity



Pricing



Increase transit appeal



Support sustainable technology



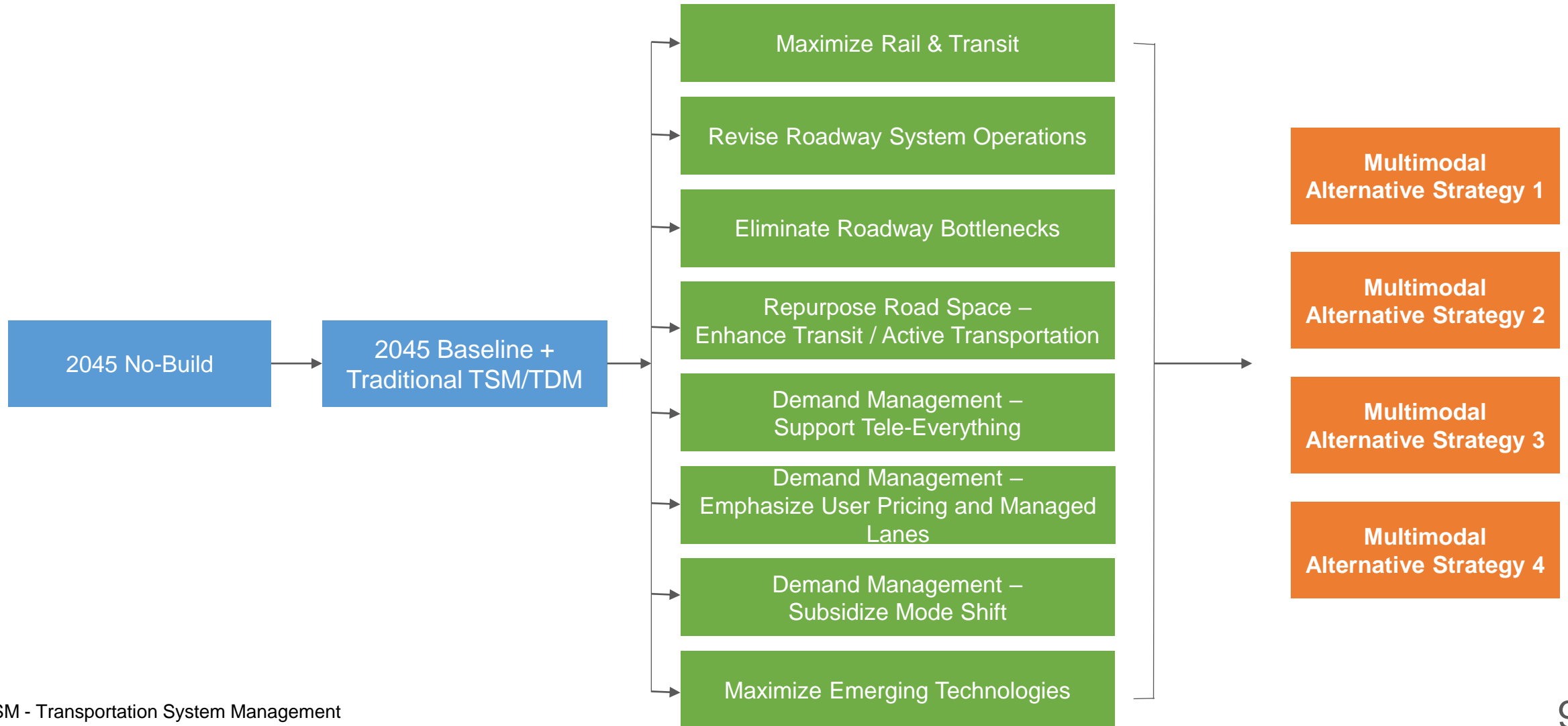
Manage transportation demand



# Initial Alternative Strategies - Scenarios

## INITIAL SCREENING

## DETAILED EVALUATION



# Next Steps

- Review scenario performance
- Engage with the public, stakeholders, and partner agencies on development of a reduced set of multimodal alternative strategies

