



# SOUTHERN CALIFORNIA ASSOCIATION of GOVERNMENTS

## TECHNICAL WORKING GROUP (TWG)

Thursday, October 29, 2015: 1:00 p.m.

SCAG Offices  
818 West 7<sup>th</sup> Street, 12<sup>th</sup> Floor  
**Board Room**  
Los Angeles, CA 90017  
(213) 236-1800

**Teleconferencing Information: Number: 1-800-832-0736 – Participant Code: 7334636**

Please use for web connection: <http://scag.adobeconnect.com/twg91814/>

### AGENDA

#### Introductions

#### Receive and File

1. 2016 RTP/SCS Agenda Outlook (Attachment)

#### Information Items

2. Draft Update to General Plan Guidelines by OPR (Ma'Ayn Johnson) (No Attachment)
3. Draft 2016 RTP/SCS Performance Outcomes (Hasan Ikhata) (Attachment)

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SOUTHERN CALIFORNIA  
**ASSOCIATION of GOVERNMENTS**

Item 1 Attachment:  
2016 RTP/SCS Agenda Outlook

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## **Agenda Outlook for the Development of the 2016 RTP/SCS**

(Note: Revised to put the outlook in chronological order as suggested at the Sept. 2014 TWG)

- Strikethrough signifies item was not covered

### **June 2013**

- Potential approach/process, coordination between various technical working groups and policy committees, and updated overall schedule for the development of the 2016 RTP/SCS

### **January 2014**

- System Preservation and system operation focus in the 2012 RTP/SCS and our current efforts on Pavement and Bridge condition database/management

### **February 2014**

- System Performance Measures and MAP-21 requirements under Performance Based Planning and implications of MAP-21
- Local Input Process for Growth Forecast/Land Use (Scenario Planning) for 2016 RTP/SCS, including growth forecast and technology

### **March 2014**

- Performance Based Planning and implications of MAP-21: Safety Performance Measures
- Overview of baseline and innovative funding sources adopted in the 2012 RTP/SCS including underlying technical assumptions/methodology/analysis under Transportation Finance
- Overview of cost assumptions/cost modal for the 2012 RTP/SCS under Transportation Finance
- Model and Tools and Datasets to be used in the 2016 RTP/SCS
- Overview of Aviation program in the 2012 RTP/SCS with a focus on ground transportation improvements

### **May 2014**

- OCTA Draft Long Range Plan Update
- System Preservation Update
- Draft Paper on TOD benefits, challenges and best practices
- Active Transportation Program Update
- Local Input Survey Update
- MAP-21 Safety NPRM Update
- CalEnviro Screen Tool

### **June 2014**

- SCAG Active Transportation Results from the 2011 Household Travel Survey
- 2016 RTP/SCS Modeling variables matrix
- Statewide and MPO Planning Rules NPRM Update
- California Active Transportation Program Update

### **July 2014**

- 2016 RTP/SCS Modeling Variables Matrix

### September 2014

- 2016 RTP/SCS Development Agenda Outlook
- Status of Local Input for the 2016 RTP/SCS; Growth Forecast Update
- Modeling Update
- CAL LOTS Update

### October 2014

- Overview of SCS in the 2012 RTP/SCS
- Current status of SCS implementation (Local Implementation survey)
- Environmental Justice (First EJ Workshop will be held on 10/23)
- Map Collaborator Database (A web based tool to collect data and develop open space plan.)

### November 2014

- Discussion on existing and proposed Performance Measures
- Role of Technology in the 2016 RTP/SCS
- Development of alternative scenarios (Scenario Planning) for 2016 RTP/SCS, including growth forecast, technology
- Emerging issues/themes that could influence 2016 SCS
- ~~Zero/Near Zero/Clean Technology Applications, including Slow Speed/ Electric Vehicle programs (Nov. 2014)~~
- ~~Emerging New Technology Applications~~

### December 2014

- ~~Technical assumptions/methodology/data/analysis in the 2012 RTP/SCS~~
- ~~Potential changes in the 2016 RTP/SCS to technical assumptions/methodology/data/analysis~~
- ~~Updated forecast/land use distribution for 2016 RTP/SCS~~
- ~~Updated SCS for 2016 RTP/SCS~~
- ~~Overview of Active Transportation Strategy in the 2012 RTP/SCS~~
- ~~Progress update on Active Transportation Strategy and emerging issues and their implications to the 2016 RTP/SCS~~
- **Zero/Near Zero/Clean Technology Applications, including Slow Speed/ Electric Vehicle programs (Nov. 2014)**
- **Update on 2016 RTP/SCS Schedule**
- **Update on research and analysis for RTP/SCS strategies**

### January 2015

- ~~Asset Management and Infrastructure Performance Measures~~
- ~~Overview of Goods Movement (GM) Strategy in the 2012 RTP/SCS with a focus on technical assumptions (including technology assumptions)/data/analysis~~
- ~~Progress update on the GM Strategy with focus on emerging issues and implications on the 2016 RTP/SCS~~
- ~~Technical assumptions/methodology/data/analysis in the 2012 RTP/SCS~~
- ~~Potential changes in the 2016 RTP/SCS to technical assumptions/methodology/data/analysis~~

- ~~Updated forecast/land use distribution for 2016 RTP/SCS~~
- ~~Updated SCS for 2016 RTP/SCS~~
- ~~Overview of Active Transportation Strategy in the 2012 RTP/SCS~~
- ~~Progress update on Active Transportation Strategy and emerging issues and their implications to the 2016 RTP/SCS~~
- Draft 2016-2040 RTP/SCS Datasets for two Scenarios 1) Local Input 2) Updated 2012-35 RTP/SCS and analysis relative to HQTAs, TPAs and Local Specific Plans
- Preview of the Progress Report/General Framework presentation for the 2016 RTP/SCS to be given at the February 5 Joint Regional Council/Policy Committee Meeting

#### February 2015

- Program EIR
- Overview of RTP/SCS Transit Element
- Overview of RTP/SCS Passenger Rail Element
- **2015 Active Transportation Program**
- **Public Health Framework for 2016-2040 RTP/SCS**
- **Environmental Justice Framework**
- **Draft Scenario Planning Matrix**
- **2015 Local Profiles Status Update**
- **Best Practices Research Project Status Update**

#### March 2015

- **Affordable Housing Sustainable Communities Grant Criteria**
- **Draft Scenario Matrix**
- **2016 RTP/SCS Performance Measures**
- **Asset Management and Condition Overview**
- **Active Transportation Program (ATP) Regional Guidelines**
- **2016 RTP/SCS Active Transportation Progress Update**
- **California Transportation Plan 2040**
- ~~Public Participation Plan~~

#### April 2015

- **Progress Update on Active Transportation and the 2016 RTP/SCS**
- **Public Health Analysis Framework**
- **Scenario Planning Model**
- ~~Overview of Goods Movement (GM) Strategy in the 2012 RTP/SCS with a focus on technical assumptions (including technology assumptions)/data/analysis~~
- ~~Progress update on the GM Strategy with focus on emerging issues and implications on the 2016 RTP/SCS~~

#### May 2015

- Overview of Aviation Program Update in the RTP/SCS
- **2016 RTP/SCS Performance Measures**

- Scenario Planning Model- Performance Results
- Overview of Highways/Arterials in the RTP/SCS
- 2016 RTP/SCS Workshop Overview and Schedule
- Progress update on the PEIR development for the 2016 RTP/SCS

#### June 2015

- 2016 RTP/SCS Transportation Finance
- 2016 RTP/SCS Overview of HOV/HOT/Toll Roads/Express Lanes
- California's Active Transportation Program – Cycle 2 Update
- Governor's Climate Change Executive Order Update

#### July 2015

- Overview of the PEIR for the 2016 RTP/SCS
- Policy Growth Forecast: Local Review and Input Process
- Public Health Update

#### August 2015

- Summary of Findings from the 2016 RTP/SCS Workshops
- Local Input Coordination
- Environmental Justice Update
- PEIR Update

#### September 2015

- Policy Growth Forecast
- Draft 2016 RTP/SCS Public Health Strategies and Actions
- Draft 2016 RTP/SCS Active Transportation Plan
- Active Transportation Program (ATP) update
- OPR Proposed Updates to CEQA Guidelines (Preliminary Discussion Draft)

#### October 2015

- **Model/Tools, Assumptions and Model/Off-Model Results for Draft 2016 RTP/SCS**

#### October 2015 – Special Meeting

- **Draft 2016 RTP/SCS Performance Outcomes**
- **Draft Update to General Plan Guidelines by OPR**

#### November 2015

- **Draft 2016 RTP/SCS Components**
- **Draft PEIR**
- **Transportation Conformity**

Note: The Agenda Outlook is intended as a reference for TWG and is subject to change as needed and



appropriate as things progress.

Legend:

Light Grey Font: Items already presented

Regular Grey Font: Future Agenda Items

Bold Face Fonts: New or revised Agenda Items

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Item 2: No Attachment:  
Draft Update to General Plan Guidelines by OPR



**SOUTHERN CALIFORNIA  
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Item 3 Attachment:  
Draft 2016 RTP/SCS Performance Outcomes

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2016  
2040 RTPSCS

A PLAN FOR OUR FUTURE

November 5, 2015

Joint Policy Committee Meeting

## Presentation Outline

### **1. Regional Collaboration and Outreach in Development of the 2016 Regional Transportation Plan and Sustainable Communities Strategy (2016 RTP/SCS)**

Hon. Cheryl Viegas-Walker, President

### **2. Leadership and Guidance from SCAG's Policy Committees**

Hon. Alan Wapner, Chair, Transportation Committee

Hon. Bill Jahn, Chair, Community, Economic & Human Development Committee

Hon. Deborah Robertson, Chair, Energy & Environment Committee

### **3. Performance Outcomes of the Draft 2016 RTP/SCS**

Hasan Ikhata, Executive Director

### **4. Environmental Compliance**

Huasha Liu, Director, Land Use & Environmental Planning

## Public Outreach & Committee Highlights

Meetings with  
Local Jurisdictions

*to update and develop land use and SED  
forecasts (Since December 2013)*

195

Public Workshops  
and Open Houses

*(Since May 2015)*

23

Regional Council and Joint  
Policy Committee Meetings

*(Since March 2015)*

12

Environmental  
Justice Workshops

*(Since November 2014)*

5

Policy Committee and Subcommittee Meetings

*(Since January 2013)*

44

Technical Committee Meetings

*(Since January 2013)*

93



# Transportation Committee

# Transportation Committee

## Highways and Arterials-Related Strategies

- **Maximize productivity** through system management & demand management
- Add capacity primarily to close gaps/improve access
- New projects consider congestion management strategies
- Support **seamlessly operating system**
- Address non-recurring congestion with new technology
- Support “**complete streets**”
- Support projects consistent with ITS Architecture
- Maintain and preserve our existing infrastructure
- **Fix-it First**
- Consider the **life cycle costs** of new projects
- Continue to identify and support funding sources
- Further develop regional **Express/HOT Lane network**

# Transportation Committee

## Alternative Transportation Strategies

### Transit & Passenger Rail

- Prioritize existing local commitments and expand the region's transit system
- Invest in **local bus, rapid bus, BRT** and point-to-point express bus service
- Maintain existing and future transit system assets in a state of good repair
- Use technology to operate transit more efficiently and effectively and make it more accessible to travelers
- **Support California High Speed Rail Phase 1**
- Improve Metrolink and the LOSSAN rail corridor as part of the “blended approach” to High Speed Rail

### Active Transportation

- Better **align active transportation investments with land use and transportation** strategies
- Increase the competitiveness of local agencies for federal and state funding
- Develop strategies that **serve people from 8-80 years old** to reflect changing demographics and make active transportation attractive to more people
- Expand regional understanding of the **role that short trips play** in achieving goals and performance objectives, and provide strategic framework to support local planning and project development serving short trips
- Expand understanding and consideration of public health in the development of local plans and projects

# Transportation Committee

## Regional Economic Strategies

### Goods Movement

- Regional Clean Freight Corridor System
- Truck Bottleneck Relief Strategy
- Rail Strategy
  - Additional mainline tracks for the BNSF San Bernardino and Cajon Subdivisions and the UPRR Alhambra and Mojave Subdivisions
  - Expansion/modernization of intermodal facilities
  - Highway-rail grade separations
  - Port-area rail improvements, including on-dock rail enhancements
- Goods Movement Environmental Strategy

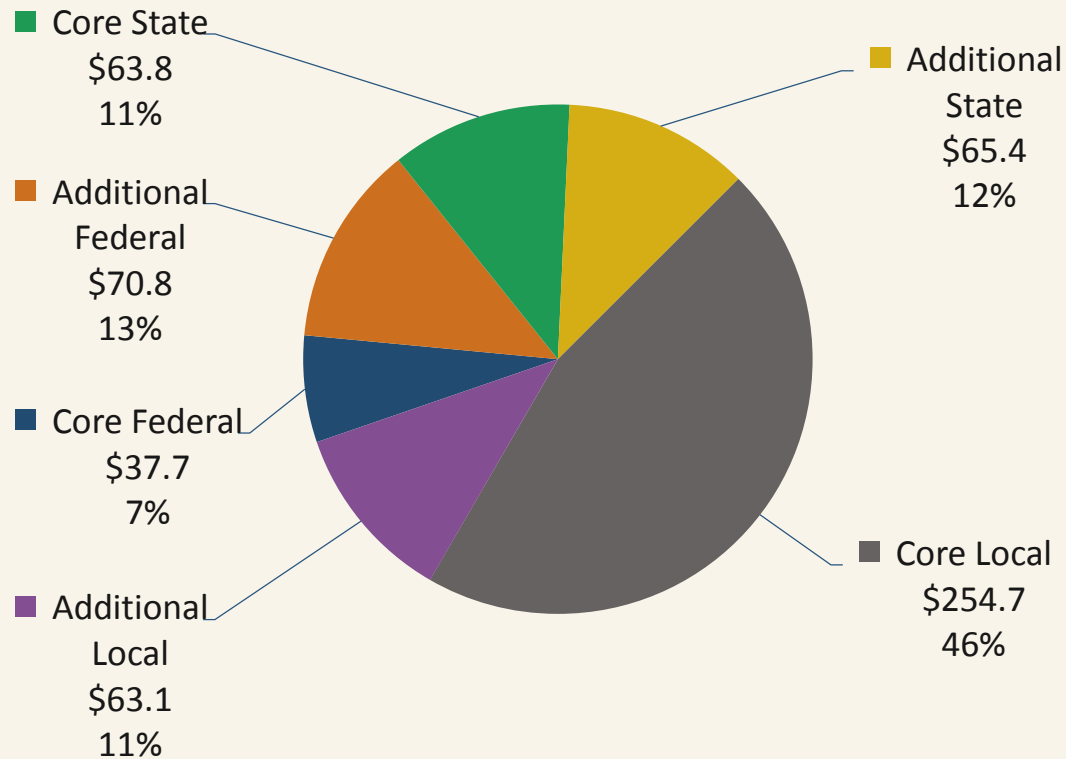
### Aviation

- Support **regionalization of air travel** demand
- Support regional and inter-regional projects that facilitate airport ground access
- Support on-going local planning efforts by
  - Airport operators
  - County Transportation Commissions
  - Local jurisdictions
- Encourage development and use of **transit access** to the region's airports
- Encourage use of modes with high average vehicle occupancy
- Discourage use of modes that require "deadhead" trips to/from airports

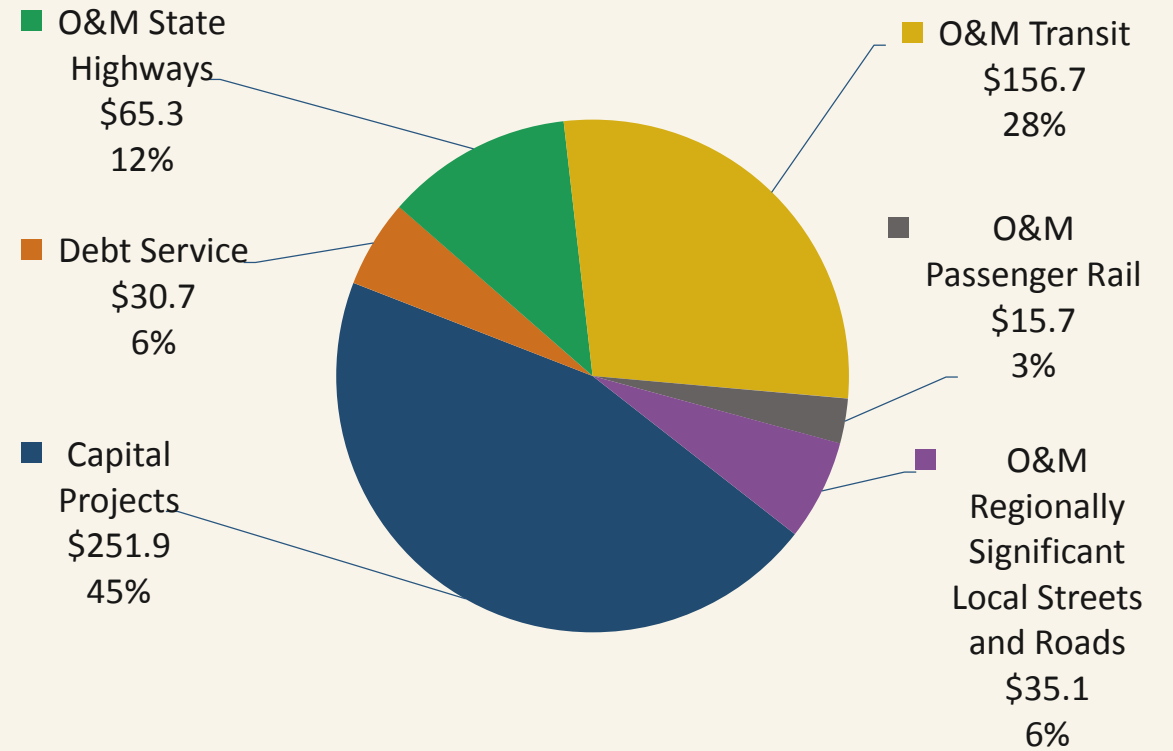
# Transportation Committee

## 2016 RTP/SCS Financial Plan - \$555.4 Billion

### FY16-FY40 RTP/SCS Revenue Sources



### FY15-FY40 RTP/SCS Expenditures



Note: numbers may not sum to total due to rounding

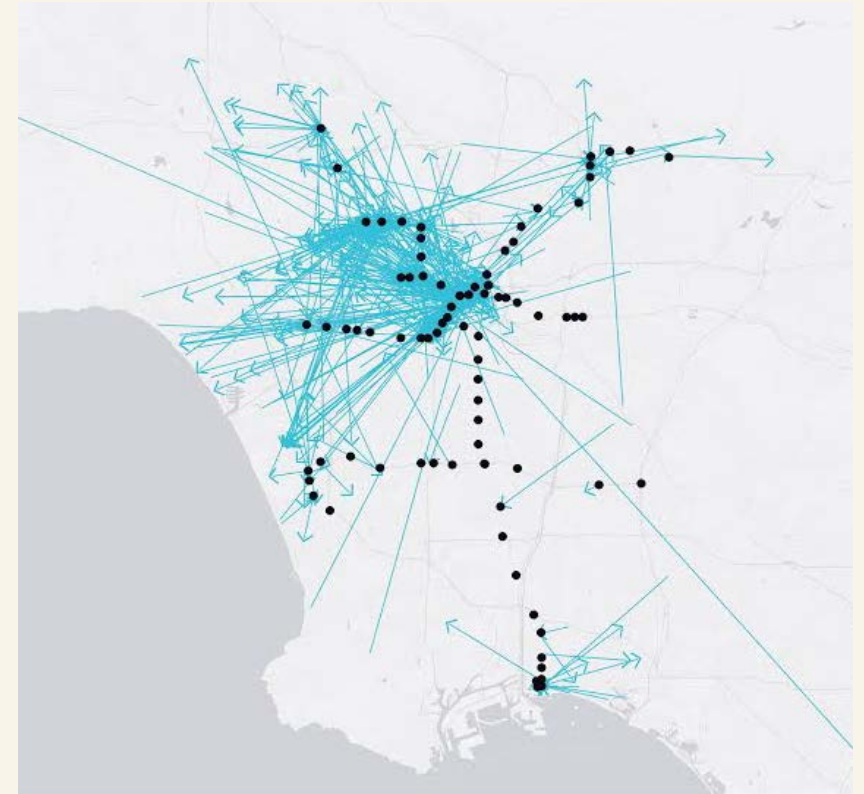
# Transportation Committee

## Our Future: Technology

### Future Mobility: Electric Vehicles & Ridesourcing

#### PEV Goals

- Incentivize over 380,000 Level 1 & 2 Charging stations by 2040
- Encourage use of Neighborhood Electric Vehicles (NEVs)
- Reduce household vehicle ownership by 5% in urban and compact areas
- Encourage Carshare, Peer-2-Peer Carsharing, and Bikeshare
- Encourage shared ridesourcing (Lyft Line / Uber Pool)



# **Community, Economic & Human Development Committee**

# Community, Economic & Human Development Committee

## Demographic Research & Economic Analysis

- Directed staff to assess the implications from 2016 RTP/SCS growth forecast, including:
  - Evaluating the impacts of aging Baby Boomers
  - Investigating plausible Southern California future trends in terms of urban form, economic growth, transportation choices of immigrants, native born, Latinos and Millennials
  - Examining demographic and economic trends and their impacts on:
    - Poverty
    - Education & labor force training



# Community, Economic & Human Development Committee

## Land Use & Housing

### **RHNA & Housing Element Reform**

- Set foundation for the development of 2020 RTP/SCS and 6<sup>th</sup> cycle of Regional Housing Needs Assessment (RHNA)

### **2016 RTP/SCS Regional Growth Forecasting & Land Use Strategies**

- Initiated in June 2013
- Adopted Local Review communication protocols
- Convened Panel of Experts producing regional growth forecast ranges
- Directed staff to meet one-on-one with all local jurisdictions (met 195 out of 197)
- Produced SCAG local jurisdictional Data/Map Books as foundation for local review/input for each jurisdiction in SCAG region
- Adopted guiding principles for policy growth forecast

# Community, Economic & Human Development Committee

## Demographic Research & Economic Analysis

### Adopt Policy Growth Forecast Guiding Principles

#### ***Principle #1: Consistency with Local Input***

Adoption of city/county total – pop, HH, jobs  
is consistent with the Local Input

#### ***Principle #2: Consistency with GP***

Sub-city/county level data consistent with respective general plan  
or any updated input provided by local jurisdictions

# Community, Economic & Human Development Committee

## Demographic Research & Economic Analysis

### Adopt Policy Growth Forecast Guiding Principles

#### ***Principle #3: Local Authority***

CEQA streamlining consistency determination by local lead agencies is at locals' sole discretion

#### ***Principle #4: Non-Binding***

Any data at sub-city/county level is deemed as advisory

#### ***Principle #5: Written Confirmation***

Received from SCAQMD and CARB confirming Non-Binding with the State Implementation Plan

# Energy & Environment Committee

# Energy & Environment Committee

## Environmental Justice Outreach & Analysis Framework

### Outreach

- Public Workshop Strategies
  - Held multiple workshops to accommodate diverse range of stakeholders
  - Utilized different formats to encourage input from participants
  - Post online input received
- Diversify Outreach Opportunities
  - Focus groups
  - One-on-one interviews with stakeholders

### Analysis

- Avoid disproportionate impacts to low-income, minority, and other identified disadvantaged groups
- Thorough approach in analyzing disadvantaged groups and potential impacts of the Plan
- Consider a wide range of alternatives, mitigation, or avoidance measures if impacts are found

# Energy & Environment Committee

## 2016 RTP/SCS PEIR Mitigation Measures, Guiding Principles & Performance-Based Approach

- Reviewed and provided feedback to develop the guiding principles and performance-based mitigation approach
- Guiding principles:
  - Maintain flexibilities at project-level while fulfill SCAG's responsibilities as a lead agency in light of recent CEQA case law
  - Recognize SCAG's limited authorities and distinguish SCAG commitments and project-level lead agency responsibilities
  - Facilitate CEQA streamlining and tiering at the project-level, where appropriate
- Performance-based approach to mitigation measures include:
  - SCAG mitigation measures
  - A "catch-all" mitigation measure
  - Project-level mitigation measures
- Approved by the EEC at its October 8<sup>th</sup> meeting

# Energy & Environment Committee

## Review 2016 RTP/SCS PEIR Alternatives Analysis Approaches

- The EEC reviewed the approach to the PEIR alternatives analysis at the August 6<sup>th</sup> Joint Policy Committee (including EEC) meeting, and the September 3<sup>rd</sup> and October 8<sup>th</sup> EEC meetings
- Alternatives are **substantively aligned with** the proposed Plan (2016 RTP/SCS) scenarios
- Alternatives are evaluated to assess ability to attain most of the basic objectives and assess their ability to **avoid or substantially lessen** the significant impacts

# Energy & Environment Committee

## Review Draft 2016 RTP/SCS PEIR Development Progress Updates

- The EEC at its March 5<sup>th</sup> meeting authorized the release of the Notice of Preparation (NOP) of the Draft 2016 RTP/SCS PEIR for a 30-day public review and comment period
- The EEC reviewed progress updates on the Draft 2016 RTP/SCS PEIR at the July 2<sup>nd</sup> EEC, August 6<sup>th</sup> (Joint Policy Committee), September 3<sup>rd</sup>, and October 8<sup>th</sup> EEC meetings
- Progress updates include:
  - NOP scoping process and stakeholder outreach
  - Draft PEIR outline and contents
  - Legal background and regulatory framework
  - Approaches to addressing air quality/health risk assessment, greenhouse gas emissions and climate change, environmental justice, mitigation measures, and alternatives in the Draft 2016 RTP/SCS PEIR
  - Schedule



# Energy & Environment Committee

## Public Health Guiding Principles and Framework

- Reviewed and provided direction on **Public Health Work Program**
- Reviewed and provided direction **Public Health Analysis Framework**
- Approved **Public Health Guiding Principles and Framework**
- Hosted a Special Meeting on **Public Health Focus Areas**

# Energy & Environment Committee

## Open Space, Conservation, Natural Lands and Water Resources

- Presented suggested roles for SCAG on natural and farm lands
- Overviewed Conservation Framework & Assessment, Natural Resources GIS database, Existing Information and Data Gaps products provided consultants
- Reported on Local Government and County Transportation Commission survey results on land conservation efforts
- Updated on efforts on Open Space Conservation Working Group
- Overviewed data on local and county level conservation actions
- Presented Consensus Recommendations from the Open Space Conservation Working Group Water Resources
- Received presentation from Amigos De Los Rios on opportunities for advancing mobility, open space and enhanced watershed management goals through integrated planning in river and utility corridors.



# 2016 2040 RTPSCS

A PLAN FOR OUR FUTURE

November 5, 2015

Joint Policy Committee Meeting

# Why Update the RTP/SCS?

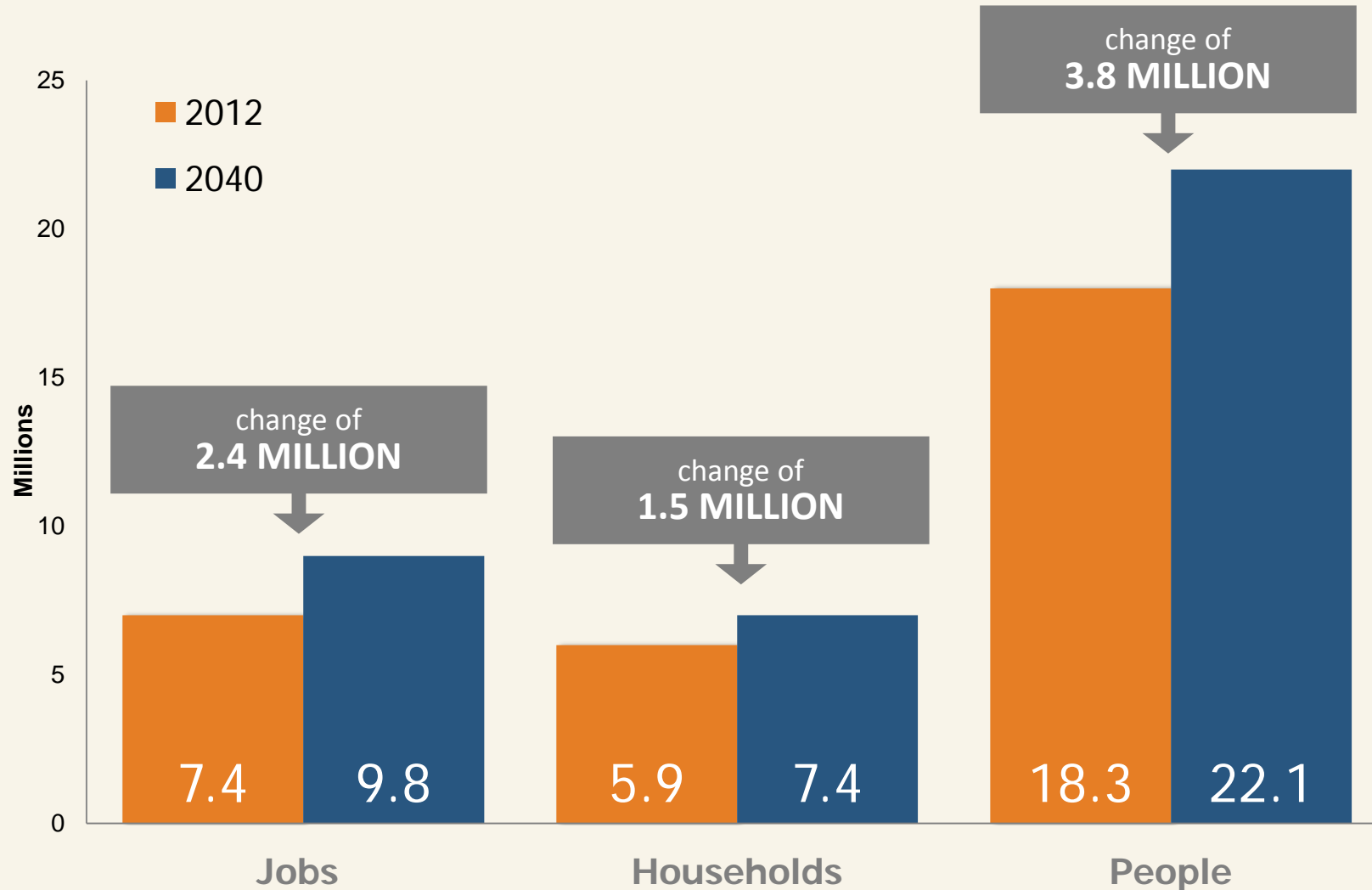
## Meet 2016 RTP/SCS Performance Objectives

- Move people & goods more efficiently
- Increase accessibility
- Meet all legal & statutory requirements
  - ARB targets
  - Transportation air quality conformity
- Enhance sustainability through integrating land use and transportation resulting in numerous co-benefits
- Align with major trends in demographics & technology



# Why Update the RTP/SCS? What's New Since 2012?

## Changes in Growth and Demography



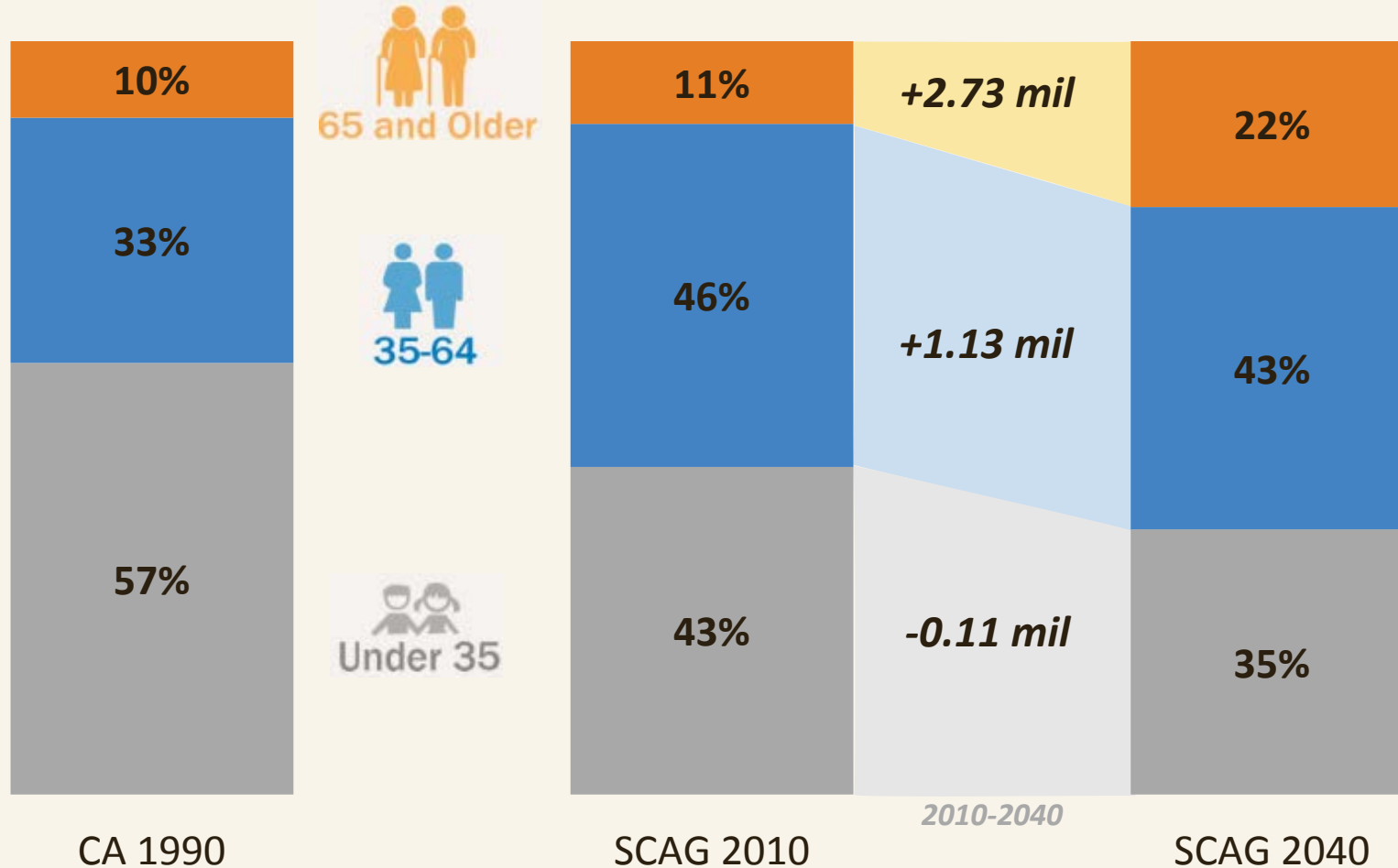
### EMERGING TRENDS

- **Slower Growth**
- Fewer Children
- A Soaring Senior Population
- Increased Demand for Multifamily Housing
- Rapid Technological Advancements

# Why Update the RTP/SCS? What's New Since 2012?

## Changes in Growth and Demography

### Current & Future Population by Age Group

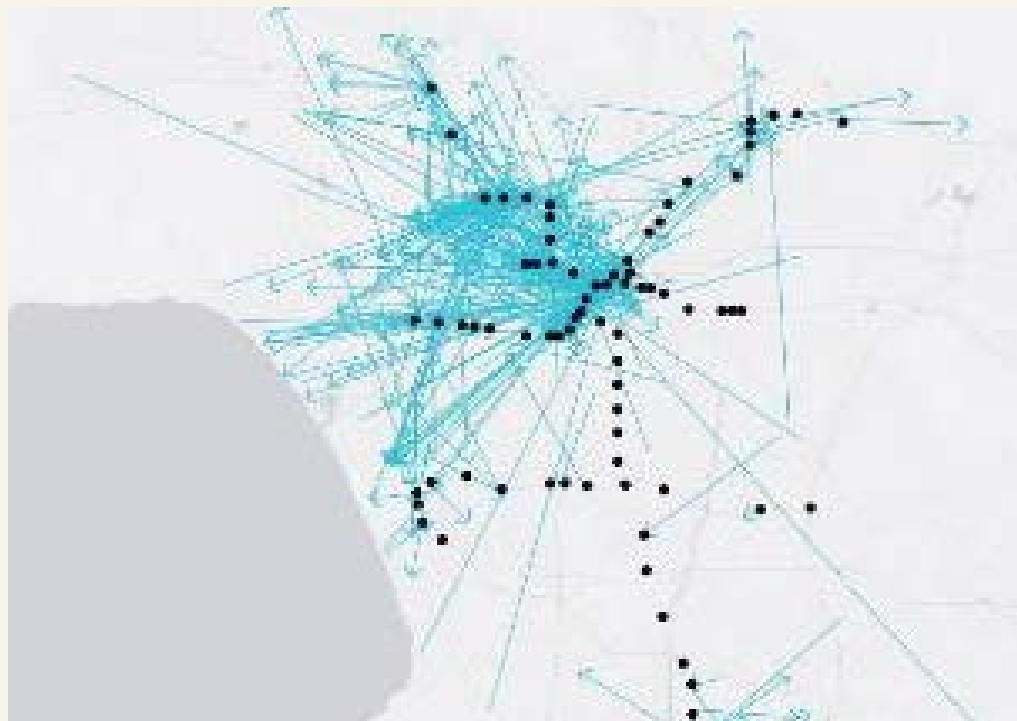


### EMERGING TRENDS

- Slower Growth
- **Fewer Children**
- **A Soaring Senior Population**
- Increased Demand for Multifamily Housing
- Rapid Technological Advancements

# Why Update the RTP/SCS? What's New Since 2012?

## Rapid Advancements in Technology



### EMERGING TRENDS

- Slower Growth
- Fewer Children
- A Soaring Senior Population
- Increased Demand for Multifamily Housing
- **Rapid Technological Advancements**



# Why Update the RTP/SCS? What's New Since 2012?

## New Federal and State Guidance

### **Moving Ahead for Progress in the 21<sup>st</sup> Century (MAP-21) signed into law by President Obama in June 2012**

- Funding surface transportation programs at over \$106 billion for FY 2013 and 2014
- MAP-21 is the first long-term highway authorization enacted since 2005
- Creates performance-based surface transportation program
- Builds on highway, transit, bike, and pedestrian programs and policies established in 1991

### **Governor Brown's Executive Order B-30-15, Call to Action for Greater Reduction in GHG Emissions**

- New Green House Gas (GHG) Target of 40% Below 1990 Levels by 2030
- Most Aggressive Benchmark enacted by any government in North America
- Will help ultimate goal of reducing emissions 80 percent under 1990 levels by 2050

### **SB 1077: Road Usage Charge Pilot Program**

- Pilot Program to tax Motorists by Vehicle Miles Traveled (VMT)
- Moves the Innovative Funding initiatives of 2012 RTP/SCS a step forward



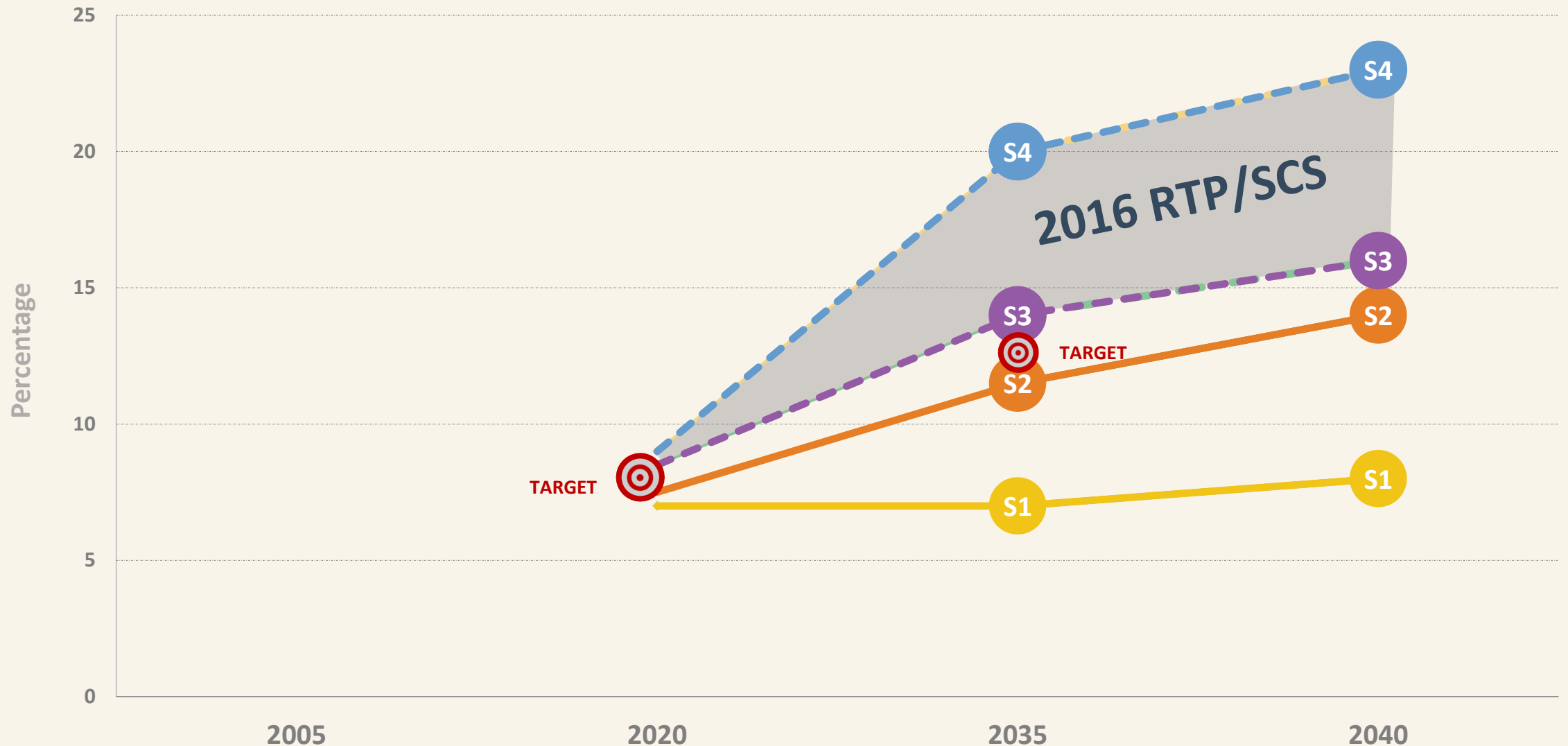
# Why Update the RTP/SCS? What's New Since 2012?

## Building from the 2012 RTP/SCS

- Studied and analyzed these emerging demographic and technological trends
- Addressed New Federal and State Guidance
- Created six subcommittees to follow up critical issues identified in the 2012 RTP/SCS
- Worked closely with local governments to develop a growth forecast consistent with general plans and aligned with regional policies
- Collaborated with CTCs to ensure consistency with county plans and projects
- Hosted 23 RTP/SCS Open Houses to get feedback from residents throughout Southern California
- Held dozens of policy discussions with three Policy Committees and Regional Council to get final direction on all facets of the Plan
- Utilized all of this information to recommend the 2016 RTP/SCS

# Per Capita GHG Changes from 2005

## Preliminary May 8<sup>th</sup> SCAG General Assembly



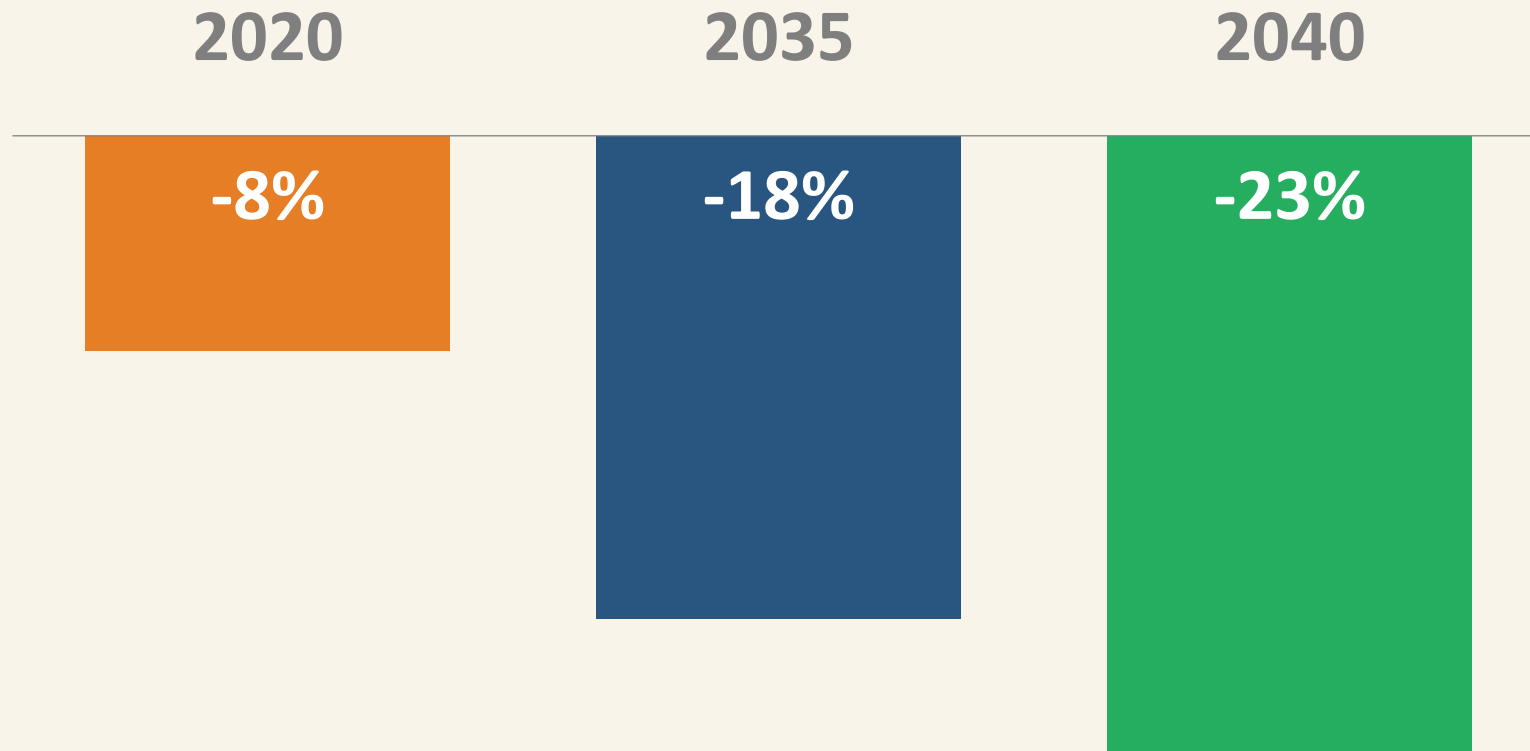
# Draft Plan vs. Scenarios - Greenhouse Gas (GHG) Emissions

## Per Capita Reduction from 2005 (Draft)

Year	Scenario 2: General Assembly	Scenario 3: General Assembly	Scenario 2: 2012 RTP/SCS Updated with Local Input	Draft 2016 RTP/SCS
2020	N/A	N/A	-7%	-8%
2035	-12%	-13%	-16%	-18%
2040	N/A	N/A	-20%	-23%
Meets GHG Targets?	<u>No</u>	<u>No</u>	<u>No</u>	<u>Yes</u>

# Greenhouse Gas (GHG) Emissions

## Draft Plan Per Capita Reduction from 2005 (Draft)

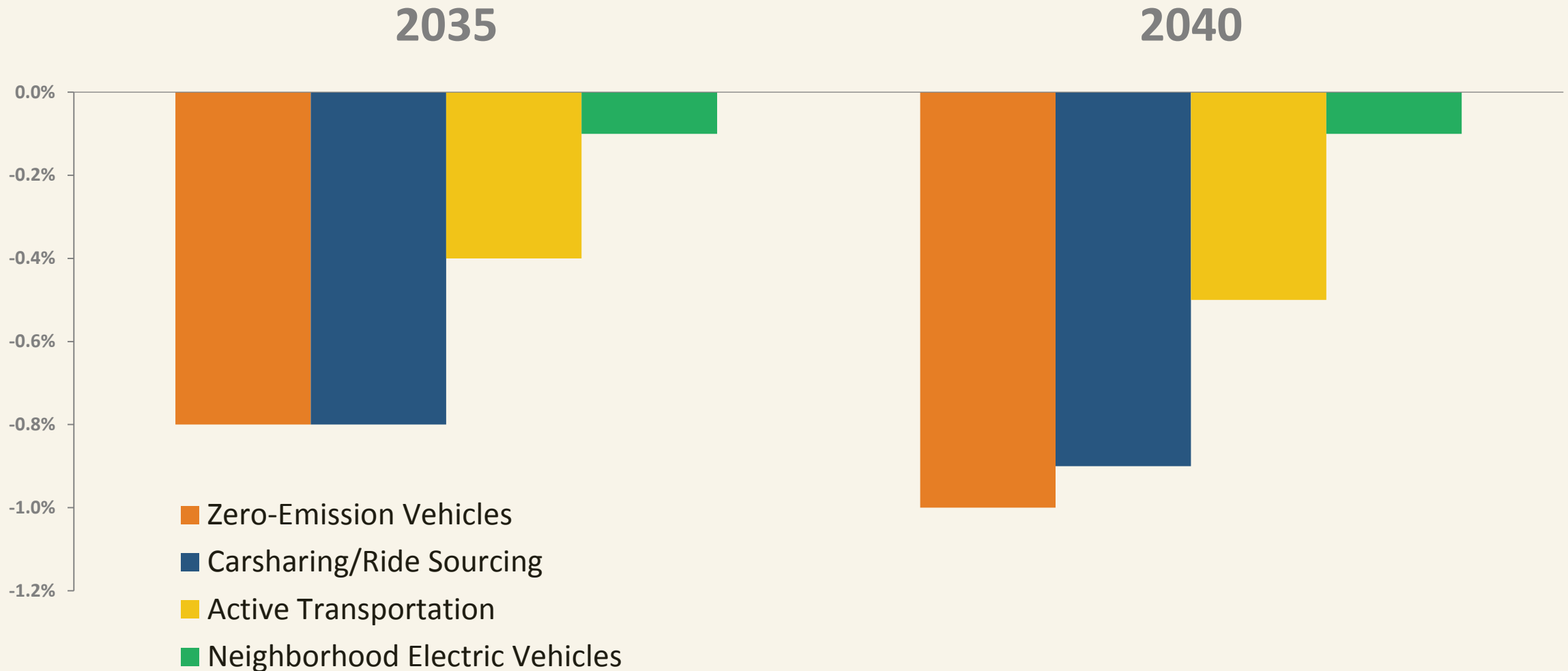


Meets State  
Targets &  
Promotes  
Sustainability



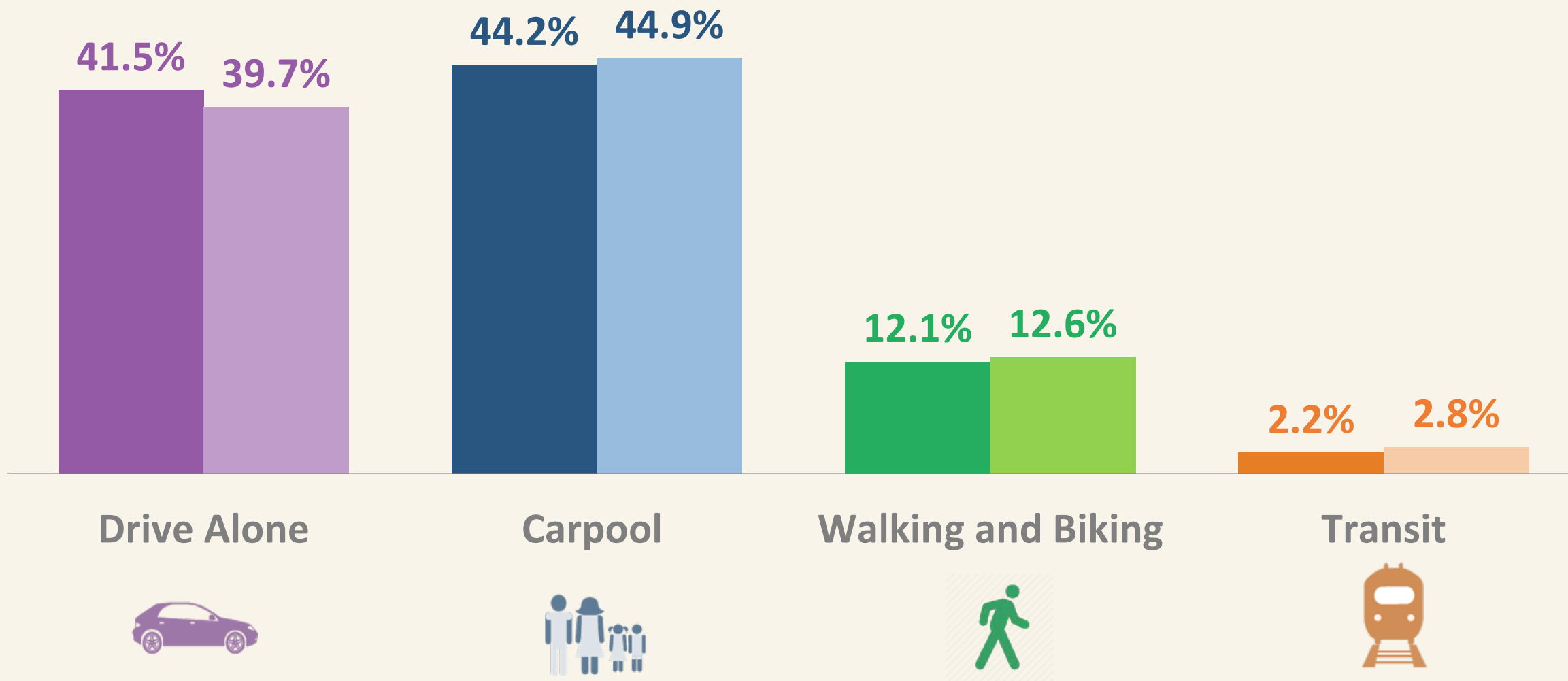
# Greenhouse Gas (GHG) Emissions from New Technology & Active Transportation

## Draft Plan Per Capita Reduction from 2005 (Draft)



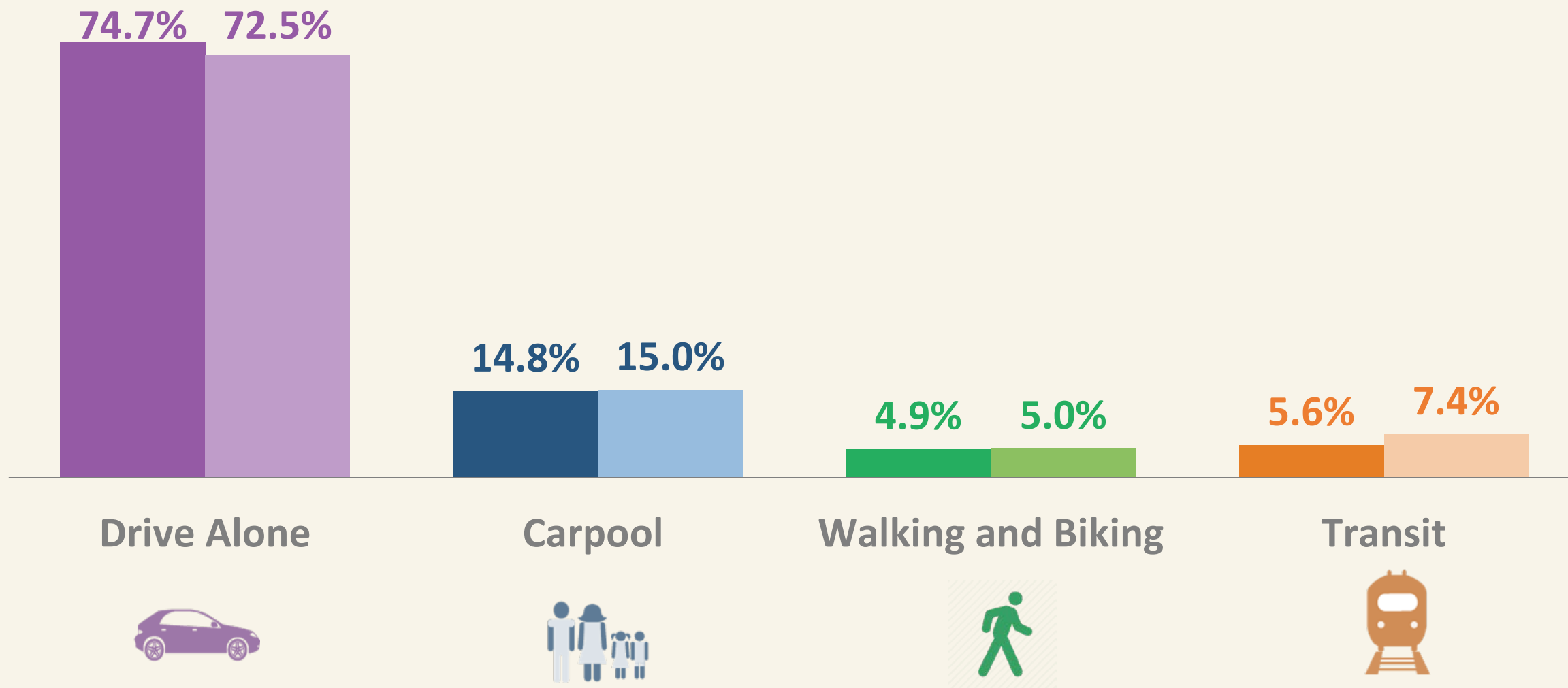
# Mode Choice – Total Trips

## Draft Plan vs. Trend Baseline (Draft)



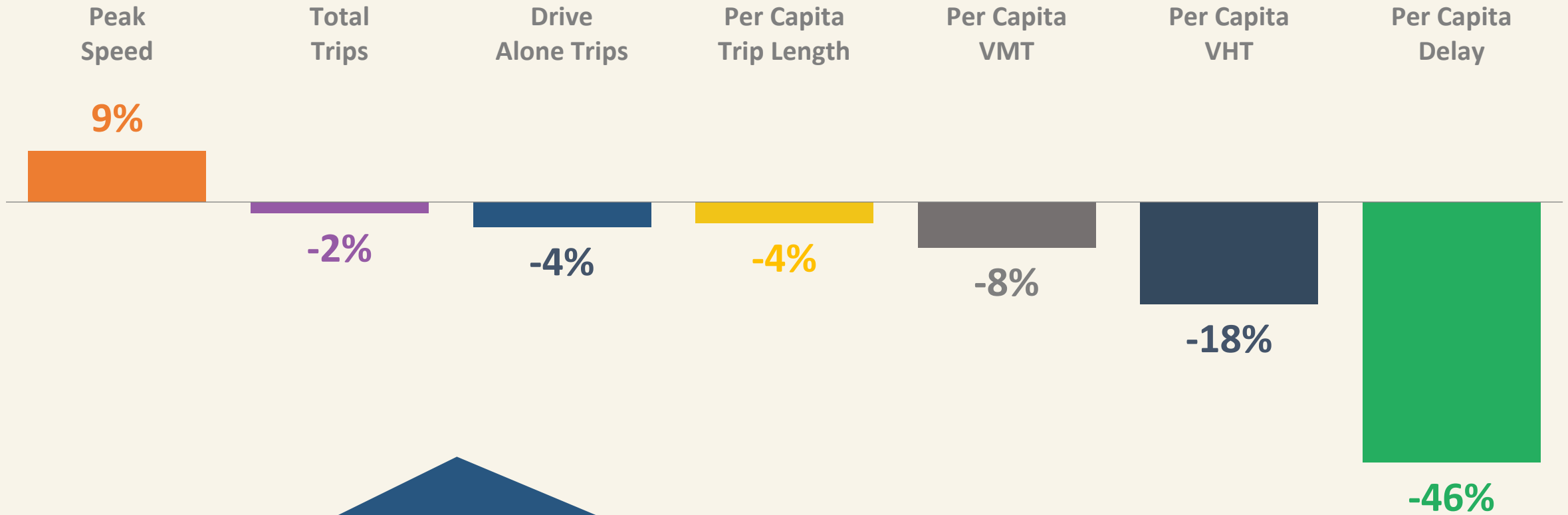
# Mode Choice – Work Trips

## Draft Plan vs. Trend Baseline (Draft)



# Roadway Results – Total Trips

## Draft Plan vs. Trend Baseline (Draft)



Increases Mobility



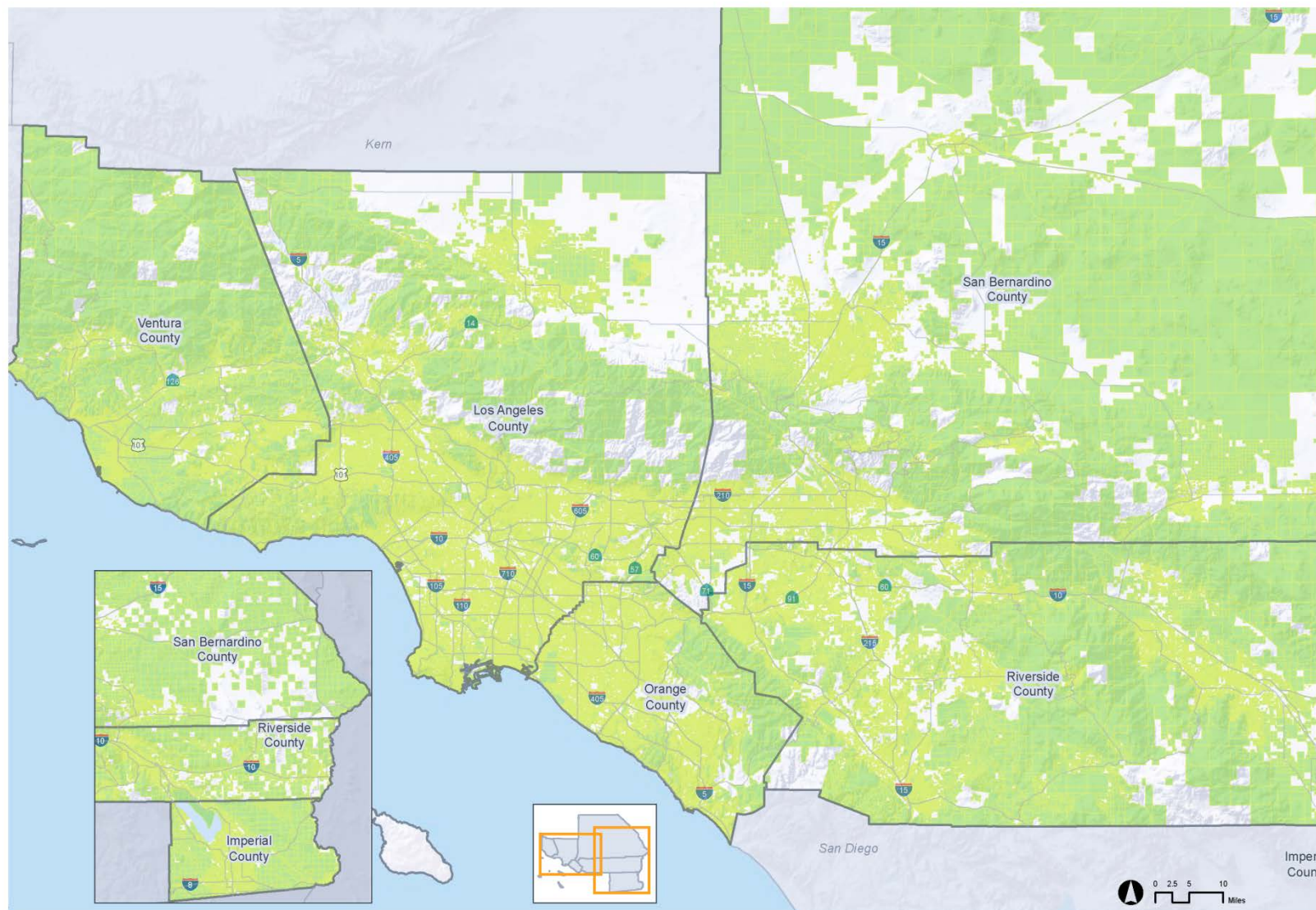
# Options for Our Future - RTP/SCS Scenario Overview

## SCS Co-Benefits – Reduction from Trend Baseline

SCS Co-Benefits	Scenario 1: Trend Baseline	Scenario 2: 2012 RTP/SCS Update with Local Input (S2)	Scenario 3: Making Further Progress (Draft Plan)	Scenario 4: Exceeding Expectations
Land Consumption	N/A	-10 %	-23 %	-41 %
Respiratory Health Costs	N/A	-9 %	-13 %	-19 %
Local Infrastructure and Services Costs for New Residential Growth (O&M+ Capital)	N/A	-6 %	-8 %	-11 %
Building Energy Use, cumulative (2012-2040)	N/A	-2 %	-4 %	-5 %
Building Water Use, cumulative (2012-2040)	N/A	-0.4 %	-0.6 %	-1.0 %
Per Household Transportation Costs (fuel + auto)	N/A	-9 %	-13 %	-19 %
Per Household Utilities Costs (energy + water)	N/A	-4 %	-9 %	-11 %

# Water Use in 2040

## Draft Plan vs. Trend Baseline (Draft)



Reduction of  
860,000 Acre-Feet  
In Water  
Consumption

Enough for  
151,000 People  
Annually from  
2012 to 2040

\*Per Capita Water Consumption = 181 Gallons Per Day in California  
(California Water Science Center, US Geological Survey)

**Total Water Use Acre-Feet Plan minus Baseline (by SPZ)**

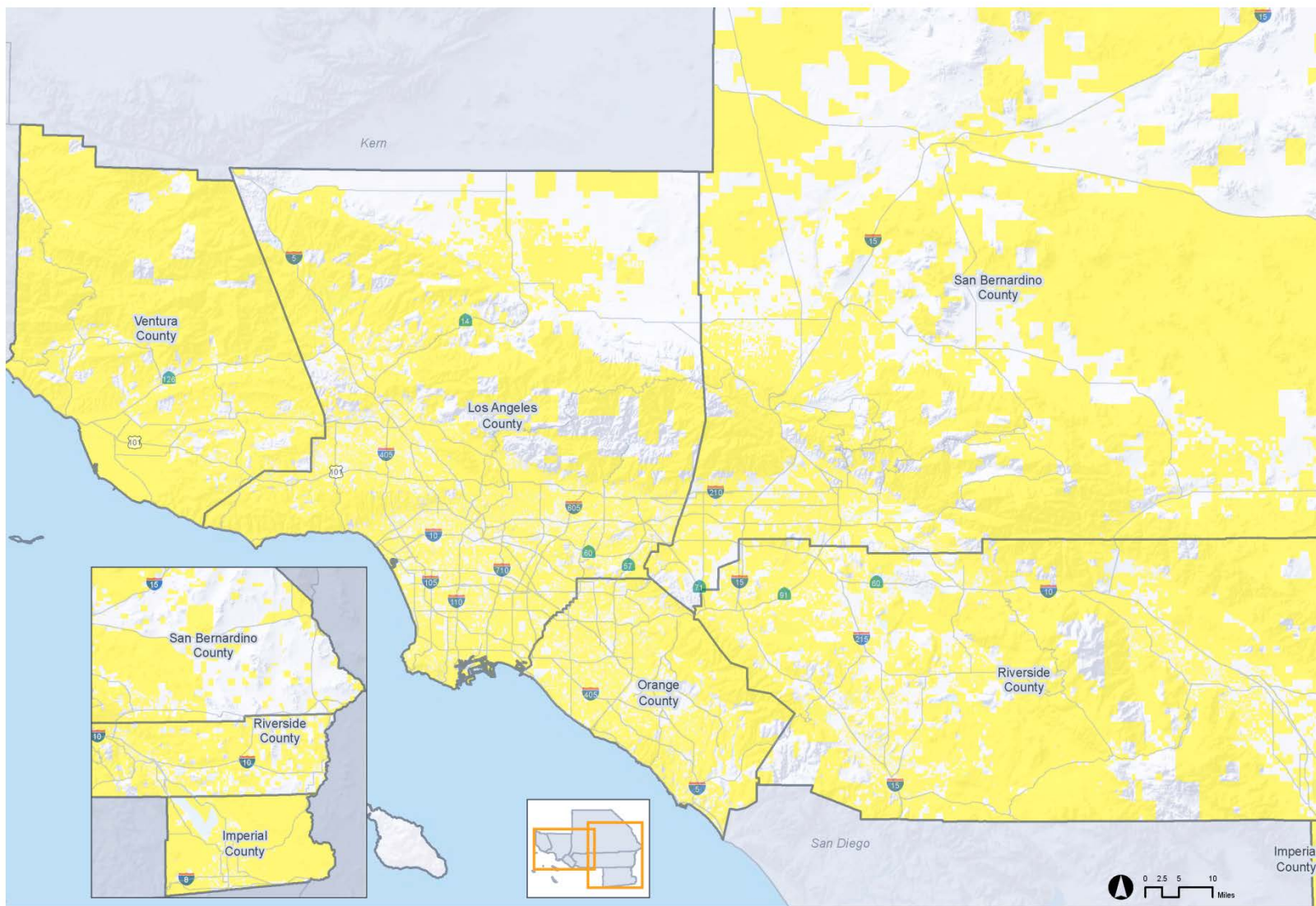
Decrease

(Source: SCAG)



# Electricity Use in 2040

## Draft Plan vs. Trend Baseline (Draft)



**Reduction of  
740 Trillion BTUs  
in Electricity Usage**

**Enough for  
133,000 People  
Annually from  
2012 to 2040**

\*Per Capita Energy Consumption = 200 Million BTU Per Person in California for 2013 (US Energy Information Administration)

**Total Electricity Use Annual Kilowatt-hour Plan minus Baseline (by SPZ)**

**Decrease**

(Source: SCAG)

# Public Health Outcomes in 2040 – Adults Aged 18-65

## Draft Plan vs. Trend Baseline (Draft)



Daily Per Capita Walking (Minutes Daily)



Daily Per Capita Biking (Minutes Daily)



Rate of Diabetes - Type 2



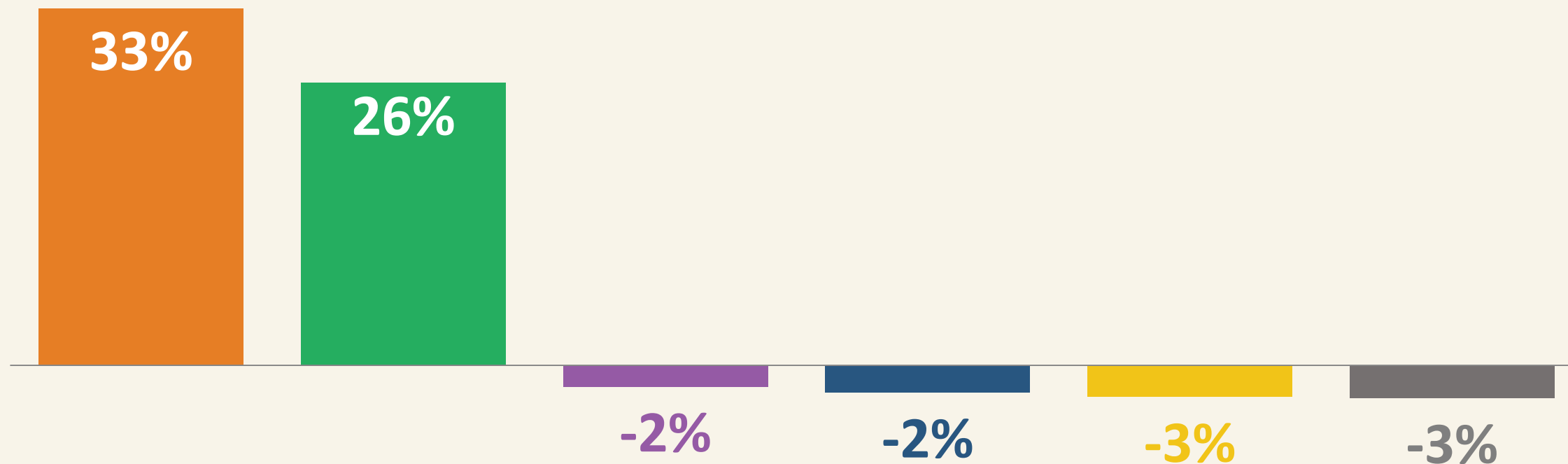
Obese Population



Rate of Heart Disease



Rate of High Blood Pressure





# 2016 2040 RTP SCS

## ECONOMIC & JOB CREATION ANALYSIS

November 5, 2015  
Joint Policy Committee Meeting

# Economic Benefits Background: 2012 SCAG RTP/SCS

## 2012 SCAG RTP/SCS Economic Analysis found:

- Transportation critical for regions key industries
  - Goods Movement/Logistics/International Trade
  - Tourism & Hospitality
  - Entertainment, etc.
- Job Creation from Infrastructure Investment
  - Construction
  - Operations
  - Maintenance
- Network Benefits in the form of Efficiency/Competitiveness Gains
  - Reduced transportation cost to regions business
  - Improves region's competitiveness
  - Continued analysis of specific economic benefits

# Academic Findings Increasingly Link Transportation & Economics

In the scholarly literature, two economic transformations have occurred over the past two to three decades that make transportation access an increasingly important for regional metropolitan economies in the U.S.

- **Agglomeration Economies and the Need for Access**
  - U.S. Metropolitan economies are increasingly reliant on the value of proximity
  - What urban economists call “agglomeration economies”, or the propensity of successful local economies to cluster
- **Congestion and Employment**
  - Congestion in most metro areas has risen to levels that, academic research indicates, tends to limit economic growth

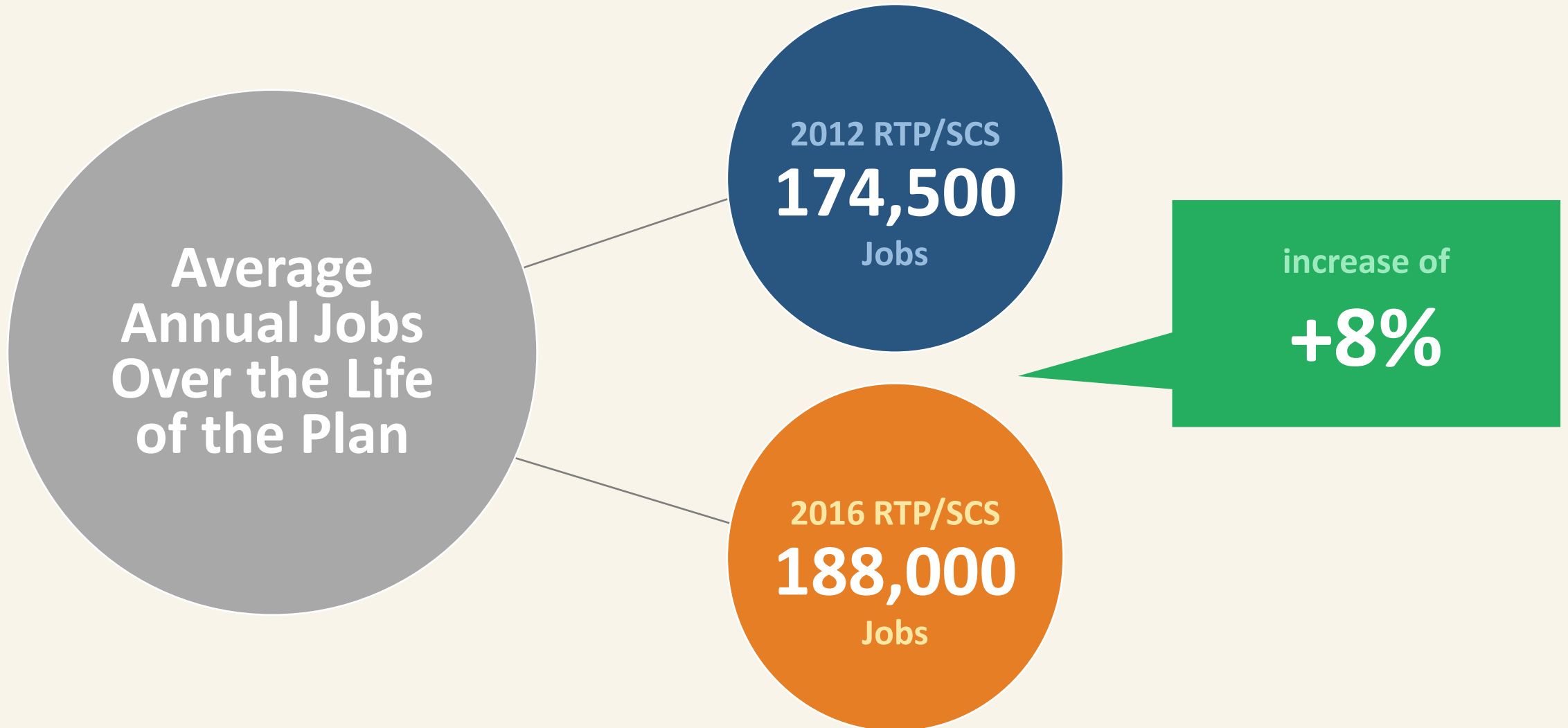
## Initial Economic Analysis Activities To Date

- Economic Team used same methodology developed and vetted in 2012
- Foundation is incorporation of SCAG's Travel Demand Model from 2016 RTP/SCS
- Team worked closely with REMI and SCAG staff to improve accuracy of input of preliminary and final travel demand model data, calibration, simulations
- Ran 20 plus simulations to account for the complexities of the 2016 plan



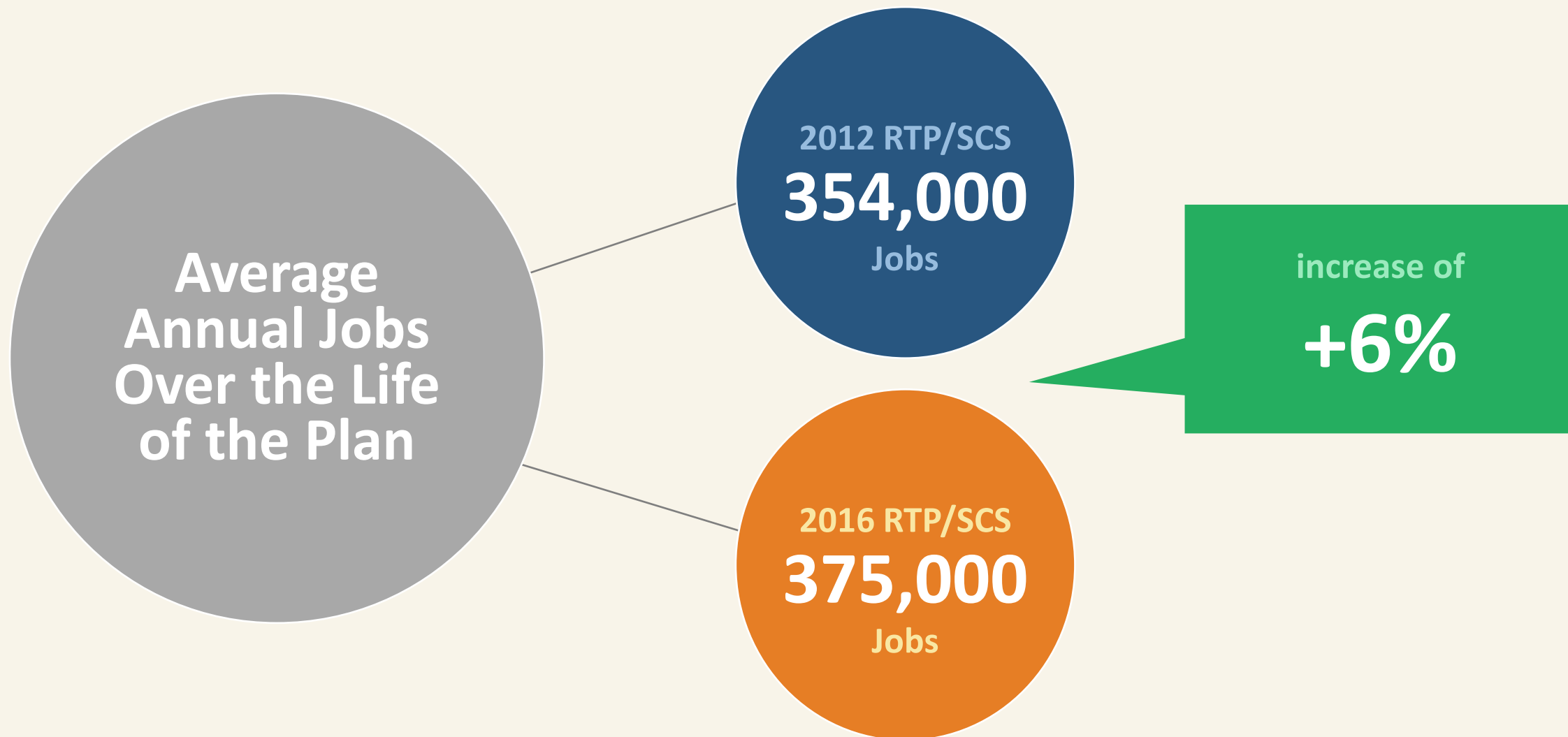
# Economic Benefits through 2040

## Construction, Operations and Maintenance (Draft)



# Economic Benefits through 2040

## Network Benefits (Draft)



# Upcoming Schedule

**Draft 2016 RTP/SCS  
& PEIR Release**

December 3, 2015

**2016 RTP/SCS  
Public Comment Period**

Minimum 55 Days

**2016 RTP/SCS  
PEIR Public Comment Period**

Minimum 45 Days

**Elected Officials Briefings**

January 2016

**Public Hearings**

January 2016

**Final Adoption of  
2016 RTP/SCS & PEIR**

April 7, 2016





**RECOMMENDED  
ACTION**

Direct staff to prepare and finalize the Draft 2016 RTP/SCS document based upon the proposed framework and key elements of the plan described in the staff report, and recommend that the Regional Council release the Draft 2016 RTP/SCS for formal public review and comments in December 2015.

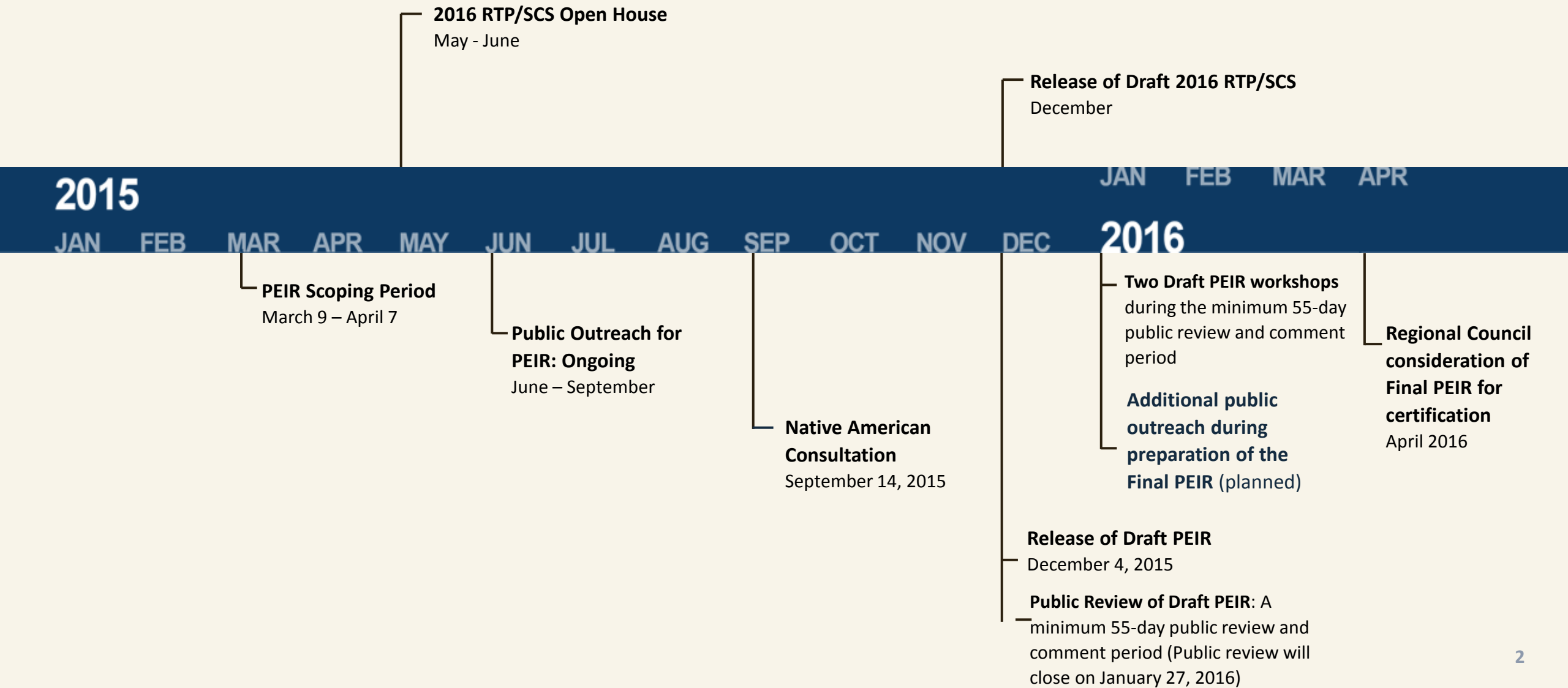


2016  
2040 RTPSCS

PROGRAM ENVIRONMENTAL  
IMPACT REPORT

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# 2016 RTP/SCS & PEIR Schedule



## PEIR: Public Outreach

- Notice of Preparation (NOP) and Scoping
  - **March 9 to April 7, 2015:** NOP circulated for a 30-day public review and comment period
  - **March 17 and 18, 2015:** Public scoping meetings
- Preparation of the Draft PEIR
  - **September 14, 2015:** Tribal Alliance of Sovereign Indian Nations (TASIN) Presentation
  - **October 14 and 19, 2015:** Native American Consultation Workshops
  - **December 4, 2015 through January 27, 2016:** Scheduled release of the Draft PEIR for a 55-day public review and comment period
  - **January 2016:** Proposed Draft PEIR public review workshops

# PEIR: Highlights of the Approaches to Environmental Analysis of Air Quality & Health

## *Health Risk Assessment (HRA)*

- Acknowledge applicable California legislation and initiatives
- Include consideration of health information related to criteria pollutants and toxic air contaminants
- Summarize best available data acknowledging the correlation between air quality and adverse effects on respiratory health
- Consider *Research Results on Land Use, Transportation, and Community* that document health benefits from active transportation and for users of public transit
  - Greater health benefits can be achieved by increasing the amount of physical activity guidelines.
  - Residents in walkable neighborhoods are more likely to meet physical activity guidelines.
  - Public transit users are more likely to meet Surgeon General recommendations for physical activity.



# PEIR: Highlights of the Approaches to Environmental Analysis of Air Quality & Health

## *Health Risk Assessment (HRA)*

- Evaluates potential cancer risk impacts associated with diesel emissions from transportation corridors
- “Cancer Risk” related to diesel emissions will be calculated using the most recent health risk models) and air quality emission model made available by the regulatory oversight agencies
  - Evaluation based on 16 transportation corridor segments, double the number evaluated in 2012 RTP/SCS PEIR
  - Use the latest ARB-developed emissions model (EMFAC 2014) in anticipation of USEPA approval by the end of 2015\*
  - Follow OEHHA’s revised Guidance Manual and the updated cancer risk calculation tool, including greater sensitivity in children and infants
  - Characterize population (age and income) data for areas within 500 feet of transportation corridors with diesel emissions

## PEIR: Alternative Analysis

- Alternatives to the proposed 2016 RTP/SCS are substantively aligned with the proposed Plan (2016 RTP/SCS) scenarios
- They include:
  - No Project Alternative (based on Scenario 1)
  - 2012 RTP/SCS Alternative Updated with Local Input Alternative (based on Scenario 2)
  - Intensified Land Use Alternative (based on similar transportation network of Scenario 3/Policy A and land use pattern of Scenario 4/Policy B)
- Alternatives are evaluated to assess ability to avoid or reduce the significant impacts of the proposed 2016 RTP/SCS

## PEIR: Performance-Based Mitigation Measures: Rationale

- Recent CEQA litigation warrants evaluation of the mitigation approach for the 2016 RTP/SCS PEIR
- Primary goal is to satisfy SCAG's responsibilities as the lead agency under CEQA within the confines of its limited authority. The PEIR will strive to maintain flexibility at the project level while retaining legal defensibility
- Program EIRs must identify mitigation for significant impacts
- Formulation of mitigation measures should not be deferred until some future time. However, measures may specify performance standards (rather than prescriptive measures) which would mitigate the significant effect of the 2016 RTP/SCS and which may be accomplished in more than one specified way
- SCAG staff has evaluated a wide range of mitigation approaches and is recommending the use of performance-based mitigation measures for the 2016 RTP/SCS PEIR

# PEIR: Performance-Based Mitigation Measures

- Recognizes the limits of SCAG's authority
- Each potential impact area would include **SCAG mitigation measures**
- Each potential significant impact would include a **“catch-all”** mitigation measure, stating that local agencies **“can and should”** comply with the generally applicable **performance standards** for the resource area
- **Mitigation measures** with applicable performance standards that may be utilized by implementing agencies
- Optimizes **flexibility** for mitigation/permit approach at project-level implementation
- Facilitates CEQA **streamlining and tiering**
- EEC took action at its October 2015 meeting to support use of a performance-based approach for the mitigation measures



**RECOMMENDED  
ACTION**

Direct staff to prepare and finalize the Draft PEIR document for the Draft 2016 RTP/SCS based upon the proposed framework, approaches to major components of the Draft PEIR, and contents described in the staff report, and recommend that the Regional Council release the Draft PEIR for the 2016 RTP/SCS for a 55-day public review and comment period in December 2015 concurrent with the 55-day public review and comment period for the Draft 2016 RTP/SCS.