



SOUTHERN CALIFORNIA ASSOCIATION of GOVERNMENTS

TECHNICAL WORKING GROUP (TWG)

Thursday, January 15, 2015: 10:00 a.m.

SCAG Offices
818 West 7th Street, 12th 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. Meeting Summary 12-18-14 (Attachment)
2. Agenda Outlook for the Development of the 2016 RTP/SCS (Attachment)

Information Items

3. Draft 2016-2040 RTP/SCS Datasets for Two Scenarios: 1) Local Input; 2) Updated 2012-35 RTP/SCS; Analysis Relative to HQTAs, TPAs, and Local Specific Plans (Guoxiong Huang/Ying Zhou/Frank Wen) (Attachment)
4. Preview of Progress Report/General Framework Presentation for 2016 RTP/SCS (Frank Wen/Ping Chang/Jonathan Nadler) (Attachment)



TECHNICAL WORKING GROUP (TWG)

December 18, 2014

Meeting Summary

The following is a summary of discussions of the Technical Working Group meeting of December 18, 2014.

Receive and File

1. **Meeting Summary 11-20-14**
2. **2016 RTP/SCS Agenda Outlook**

Information Items

3. SCAG Clean Cities Coalition/Alternative Fuel Vehicle Program/Alternative Mobility

Marco Anderson, SCAG staff, outlined the major components of the program, noting that the Clean Cities Coalition component was originally formed in 1996 and its predominant focus is displacing petroleum usage. The secondary benefit is GHG remissions reduction. Mr. Anderson addressed the Alternative Fuel Vehicle Program component, stating that in 2012 SCAG completed a two-year planning process for Plug-In Electric Vehicles (PEVs). Mr. Anderson recommended that local jurisdictions get involved by targeting employers for workplace charging and building owners of multi-family units for accessible charging for their tenants. Mr. Anderson also encouraged local jurisdictions to work closely with stakeholders and pursue CEC funding opportunities. Mr. Anderson summarized recent research efforts to understand the potential for replacing short-range auto trips with alternative mobility modes.

4. 2016 RTP/SCS Schedule

Courtney Aguirre, SCAG staff, provided an overview of the 2016 RTP/SCS Schedule provided in the agenda packet. Ms. Aguirre emphasized that the schedule is intended to be flexible to accommodate additional meetings as needed.

5. Research and Analysis for RTP/SCS Strategies

Frank Wen, SCAG staff, provided an overview of the potential RTP/SCS Strategies.

6. SB 743 Guidelines Development

Ping Chang, SCAG staff, provided an overview of the SB 743 Guidelines Development. Mr. Chang included a letter in the agenda packet addressed to the Governor's Office of Planning and Research from SCAG's Executive Director, Hasan Ikhata, wherein SCAG provided comments on the Preliminary Discussion Draft for the SB 743 CEQA Guidelines Update.

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)
(Updated 1/7/15)

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
- Public Participation Plan
- Overview of Transit Strategy in the 2012 RTP/SCS
- Progress update on the Transit Strategy and emerging issues/challenges that could influence the 2016 RTP/SCS

March 2015

- Overview of Highway/HOV/HOT/Toll Roads/Express Lanes proposed in the 2012 RTP/SCS with a focus on technical assumptions/analysis
- Progress update and emerging issues related to highways/HOV/HOT/Toll Roads/Express Lanes
- **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**

May 2015

- Progress update on the current status of the Aviation component of the 2012 RTP/SCS and emerging issues that may influence the 2016 RTP/SCS
- Overview of TDM/TSM in the 2012 RTP/SCS, including underlying assumptions
- Progress status of TDM/TSM and emerging issues

June 2015

- Progress update on 2012 RTP/SCS revenue/cost
- Potential changes/focus areas and emerging issues in the 2016 RTP/SCS

July 2015

- Transportation Conformity

August 2015

- Finance Plan for 2016 RTP/SCS

- Updated GM Strategy for the 2016 RTP/SCS
- Updated Transit Strategy for the 2016 RTP/SCS
- Updated Active Transportation Strategy for the 2016 RTP/SCS
- Highways Improvement Element in the 2016 RTP/SCS
- Updated Aviation Element of the 2016 RTP/SCS
- Updated TDM/TSM Element for the 2016 RTP/SCS

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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ASSOCIATION of GOVERNMENTS**

Item 3 Attachment: (Under Separate Cover)

Draft 2016-2040 RTP/SCS Datasets for Two Scenarios:

- 1) Local Input;
- 2) Updated 2012-35 RTP/SCS; Analysis Relative to HQTA's, TPA's, and Local Specific Plans



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Item 4 Attachment:

Preview of Progress Report/General Framework Presentation for
2016 RTP/SCS

Progress Report on 2012 RTP/SCS and Overview of 2016 RTP/SCS Development Framework and Process

Technical Working Group
January 15, 2015



SOUTHERN CALIFORNIA
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Today's Agenda

- Provide an overview of the RTP/SCS in general
- Quick review of what is in the adopted 2012 RTP/SCS
- Highlight the progress made since the adoption of the 2012 RTP/SCS
- Discussion of key challenges and emerging issues for the 2016 RTP/SCS
- Discussion of basic framework for the 2016 RTP/SCS Update
- Answer your questions and get your feedback

RTP/SCS Overview

- Defines the long-term vision and accompanying investment framework to address regional transportation and land use challenges and opportunities
- Federal Requirements
 - Must be long-range: 20+ years into the future
 - Must be financially-constrained: Revenues = Costs
 - Must pass regional emission tests
- State Requirements
 - Must meet SB 375 requirements (address GHG reductions)

RTP/SCS Key Questions

- How does RTP/SCS improve my everyday life?
- What can we achieve together that we cannot achieve as individual cities or counties?
- What type of transportation network should we have?
- How should we spend the limited transportation revenue we have?
- Where should new growth be located?
- How best to balance mobility, public health and economic development?
- What do our residents view as important for a bright and sustainable future?

RTP/SCS Core Components

- Incorporates county transportation commissions' long-range transportation plans
- Multimodal and regional approach to solving our long term transportation and land use challenges
- Major programs and projects (e.g. transit, highway, bike, pedestrian improvements etc.)
- Financial plan – document fiscal constraint
- Growth Forecast
- Sustainable Communities Strategy - integrate land use planning with transportation investments
- Performance analysis – transportation conformity, environmental justice, economic impact analysis, and regional mobility goals

2012 RTP/SCS Overview

2012 RTP/SCS Overview

Addressed Regional Challenges

- Population Growth: 4 million people by 2035
- Mobility: Roadways most congested in the nation
- Safety: Concerning fatality rates, especially bike/pedestrian
- Air Quality: Worst air quality in the nation; SB 375GHG targets
- Financial: Transportation needs surpassed projected revenues
- System Preservation: Delayed investment, increased costs



2012 RTP/SCS Overview

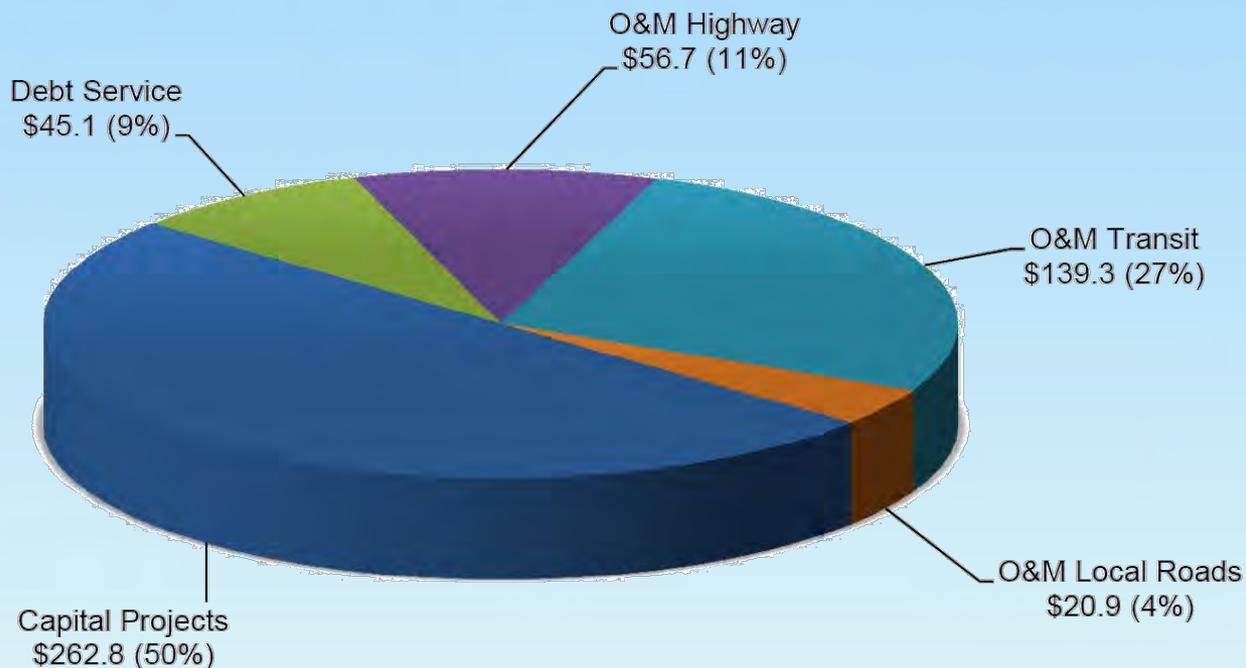
Key Strategies

- Innovative funding
- System preservation
- Expand transit services
- Active transportation
- Goods movement strategy
- Highway and arterial enhancements
- Concentrate growth in high quality transit areas (HQTA)
- Support alternative vehicle and fuel technology

2012 RTP/SCS Overview

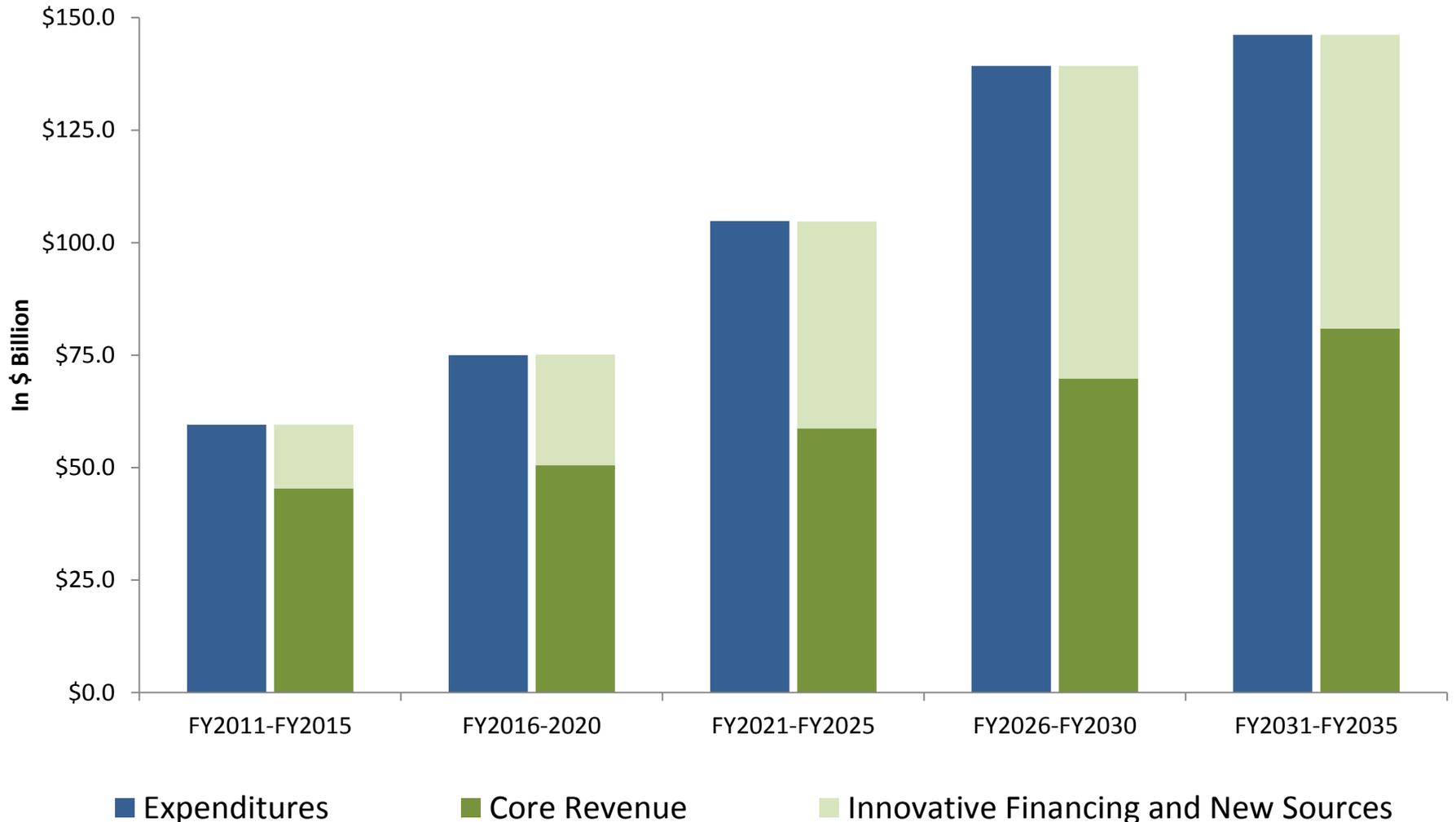
What was included in the 2012 RTP/SCS?

Capital Projects	
Arterials	\$22.1
Grade Sep & GM	\$48.4
HOV/HOT	\$20.9
Mixed-Flow & I/C	\$16.0
Toll	\$27.3
TSM	\$7.6
Transit	\$106.9
Active Trans.	\$6.7
TDM	\$4.5
Other	\$2.5
Total	\$262.8



2012 RTP/SCS Overview

2012 RTP/SCS Financial Plan – Expenditures and Revenues



2012 RTP/SCS Overview

System Preservation

- 2012 RTP/SCS included \$217 billion for system preservation and maintenance
- Recognized higher costs of delayed maintenance
- Prioritized investing in maintaining and preserving existing system



2012 RTP/SCS Overview

Passenger Rail and Transit

Bus Rapid Transit Expansion THROUGHOUT THE REGION



Light and Heavy Rail Extensions



Transit \$55 billion

Passenger Rail \$51.8 billion

O&M \$139.3 billion

Metrolink/LOSSAN Upgrades and California High-Speed Rail Phase 1



Metrolink Commuter Rail Service Expansion THROUGHOUT THE REGION



2012 RTP/SCS Overview

Transportation Demand Management & Active Transportation

TDM

\$4.5 billion

Reduce solo driving

Incentive carpooling, transit, biking, walking, flexible work schedules, telecommuting, First Mile/Last Mile strategies

Active Transportation

\$6.7 billion

\$\$ ↑ X 3



4,300 ↑ 12,000

2035 Commute Share

Bike = 3.9%

Walk = 6.3%



2012 RTP/SCS Overview

Goods Movement

Goods Movement Investments

\$48.4 billion

East-West Freight Corridor

Port access

Freight rail capacity

Grade separations

Truck mobility
improvements

Intermodal facilities

Emission reduction
strategies



2012 RTP/SCS Overview

Highways and Arterials

Highways

Capital: \$64.2 bil

Gap Closures

HOV network
HOT network
Toll facilities

Provide access
to hard-to-reach
areas of the
region

O&M: \$56.7 bil

Arterials

Capital: \$22.1 bil

Signal
prioritization
Bicycle lanes
Other design
features

Lighting
Landscaping
Parking
Sidewalks

O&M: \$20.9 bil



2012 RTP/SCS Overview

SCS Focus

Utilize **local growth input**

Emphasize growth in **High-Quality Transit Opportunity Areas**

Emphasize growth along **main streets, downtowns** and other appropriate locations

Shift development from single-family towards **multi-family** residential development to reflect recent trends

Compass Blueprint Demonstration projects



Image courtesy MVE & Partners, Irvine, CA

2012 RTP/SCS Overview

Benefits of the 2012 RTP/SCS - Regulatory Requirements

State Mandate

SB 375 GHG Reduction

Year	Target	Result
2020	8%	9%
2035	13%	16%

Federal Mandate

Air Quality Conformity

The 2012 RTP/SCS
**meets all Clean Air Act
transportation
conformity
requirements**

2012 RTP/SCS Overview

Benefits of the 2012 RTP/SCS - Performance Outcomes

Mobility

24% decrease
from today's
per capita
delay

Location
Efficiency

Over
twice
as many
households will
live in high-
quality transit
opportunity
areas

Economy

500,000
jobs
generated
per year

Cost
Effectiveness

\$2.90
return for
every \$1
spent

2012 RTP/SCS Progress

2012 RTP/SCS Progress

Implementing the 2012 RTP/SCS

- Six new subcommittees
- Facilitate information exchange and policy development
- Identify regional priorities
- Help facilitate the implementation of the 2012–2035 RTP/SCS
- Parallels staff reorganization with greater focus on sustainability

Transportation Finance

Goods Movement

Transit and High Speed Rail

Active Transportation

Public Health

Sustainability

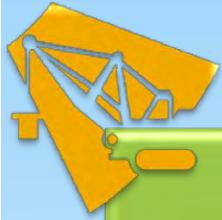
2012 RTP/SCS Progress

RTP/SCS Implementation Highlights

- Capital Projects Completed
- Transportation Finance: Mileage Based User Fee
- Funded \$10 million in local planning grants since 2012 inception of Compass Blueprint/Sustainability Program
- Secured nearly \$200 million in Active Transportation Program funding
- SCAG/CTCs Sustainability Joint Work Programs
- Active Transportation and Public Health Work Programs

2012 RTP/SCS Progress

Passenger Rail and Transit Projects Started or Completed



Projects Completed

- Metro Orange Line Extension 2012
- Metro Expo Line 2012
- Brawley Transit Center 2013
- Fullerton Metrolink Parking Structure 2013
- Omnitrans SBX 2014
- ARTIC 2014
- Imperial Valley Transit Gold Line 2013
- Gold Coast Transit District 2013

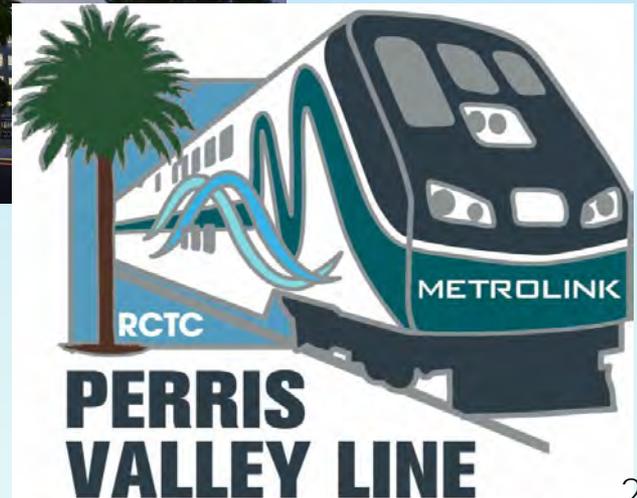


2012 RTP/SCS Progress

Passenger Rail and Transit Projects Started or Completed



- Crenshaw LAX Corridor 2019
- Regional Connector 2020
- San Bernardino Transit Center 2015
- Foothill Gold Line 2a 2016
- Expo Line Phase 2 2016
- Perris Valley Line 2015
- Placentia Metrolink Station 2017
- OC Bridges Grade Separations 2018
- San Bernardino Metrolink Station 2016



2012 RTP/SCS Progress

Highways Projects Started or Completed

Projects Started or Completed

- I-405 Sepulveda Pass Improvements
- I-110 and I-10 HOT Lanes adopted as permanent facilities
- The West County Connectors project



2012 RTP/SCS Progress

Goods Movement Regional Initiatives

- Goods Movement Border Crossing Study
 - Assess existing and future impacts of commerce on mobility at California-Baja California border
 - Analyze trade flows between the border, the San Pedro Bay Ports, and regional warehouse and distribution centers
- Industrial Warehousing in the SCAG Region
 - Assess variables affecting the supply and demand of warehouses and distribution centers in the SCAG region
 - Evaluate the operational parameters and locations of the region's warehouses, distribution centers, and transload facilities
- Public Private Partnership Finance and Delivery Strategies Screening for the East West Freight Corridor (EWFC)

2012 RTP/SCS Progress

SCAG Focus: Collaboration

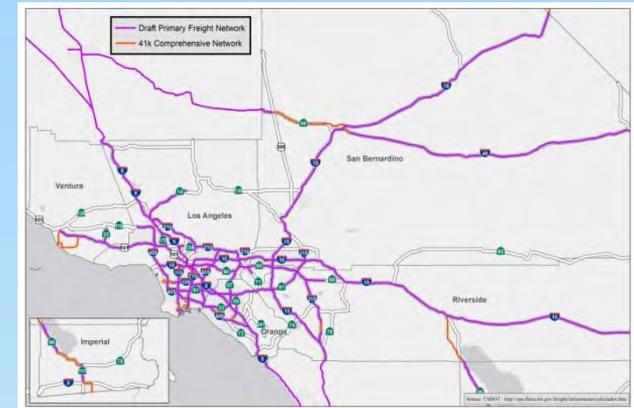
Goods Movement Initiatives

Federal

- FHWA's Draft Primary Freight Network Designation
- National Freight Advisory Committee
- National Strategic Freight Plan

State

- California Freight Advisory Committee (Caltrans)
- California State Freight Mobility Plan (Caltrans)
- Sustainable Freight Initiative (CARB)



2012 RTP/SCS Progress

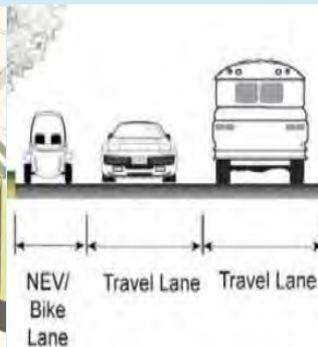
SCAG Focus: Mileage Based User Fee (MBUF)

- Nationally recognized for funding innovation
- Passage of SB 1077: establish pilot program to explore MBUF
 - Working with state partners on pilot program testing Mileage Based User Fees
- Held Mileage Based User Fee Workshop

2012 RTP/SCS Progress

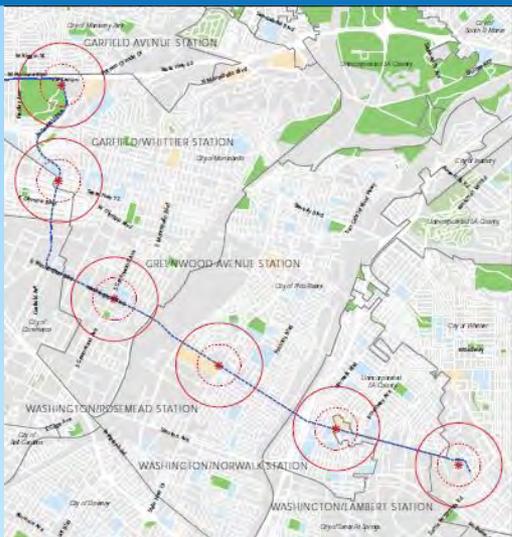
SCAG Focus: SCS Implementation

- **Local governments need implementation funding to connect local land use plans to RTP/SCS goals**
- Sustainability Grant Program
 - Technical assistance to local governments
 - Green Region Initiatives
 - Integrated Land Use & Transportation Planning
 - Active Transportation Planning
 - 72 Planning projects funded (\$10 million total) since 2012



An Example of Sustainability Planning Grant Project

Washington Blvd Coalition of Cities, East Side Gold Line Extension



- Cerritos, Los Angeles County
- TOD District Strategies
 - Convert 183rd St to **"Main Street"**
 - Cerritos Commons south of 183rd St
 - Direct pedestrian, bicycle and shuttle connections
 - Multi-use Path along Gridley Road
- Status: ACTIVE

2012 RTP/SCS Progress

SCAG Focus: SCS Implementation

Local Implementation Survey

- Jurisdictions have increasingly been implementing SCS supportive policies through General Plan/zoning code updates, bike/pedestrian plans, & TDM policies
- Specific Plan activities for Transit Priority Areas have also increased over time
- More jurisdictions adopting green energy & resource conservation policies
- 149 of 197 jurisdictions have responded (76%), accounting for 87% of the regional population
- 72 cities with Complete streets plans, 121 with bicycle plans, and 52 with pedestrian plans

2012 RTP/SCS Progress

SCAG Focus: Active Transportation Funding

\$200 m

Awarded For First 3
Years of Active
Transportation
Program (ATP)

Over

100

Cities

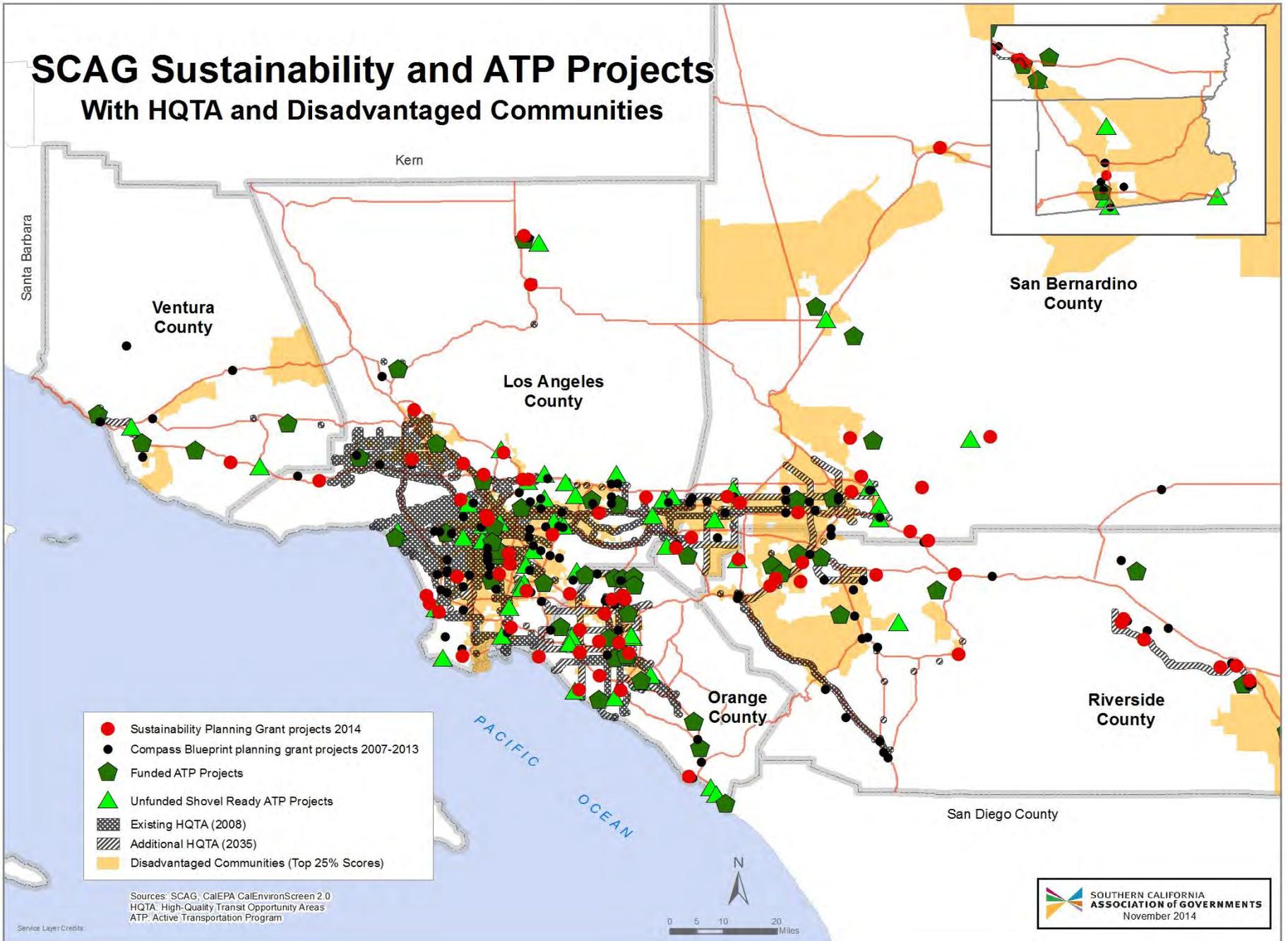
In the SCAG Region
Applied for ATP Funds

SCAG Regional Safety &
Encouragement
Campaign

\$2.3 m

To improve safety and
encourage biking/walking

SCAG Sustainability and ATP Projects With HQTAs and Disadvantaged Communities



Sources: SCAG, CalEPA CalEnvironScreen 2.0
 HQTA: High-Quality Transit Opportunity Areas
 ATP: Active Transportation Program

Service Layer Credits:

2012 RTP/SCS Progress

SCAG Focus: Collaboration

- Joint Work Programs
- Formally establishing partnerships
 - First-Last Mile Strategies
 - Safe Routes to School
 - Complete Streets
 - Identifying Active Transportation Funding

2012 RTP/SCS Progress

Public Health Work Program

Goals and Strategies

Provide Leadership through Collaboration and Partnerships



FY 14-15 Action Plan Deliverables

Randall Lewis Health Policy Fellowship

Safety and Encouragement Campaign

Public Health Working Group

Integrate Public Health into Regional Planning Activities



Active Transportation Health and Economic Impact Study

Public Health White Paper to inform 2016 RTP/SCS

Provide Regional Support through Technical Assistance



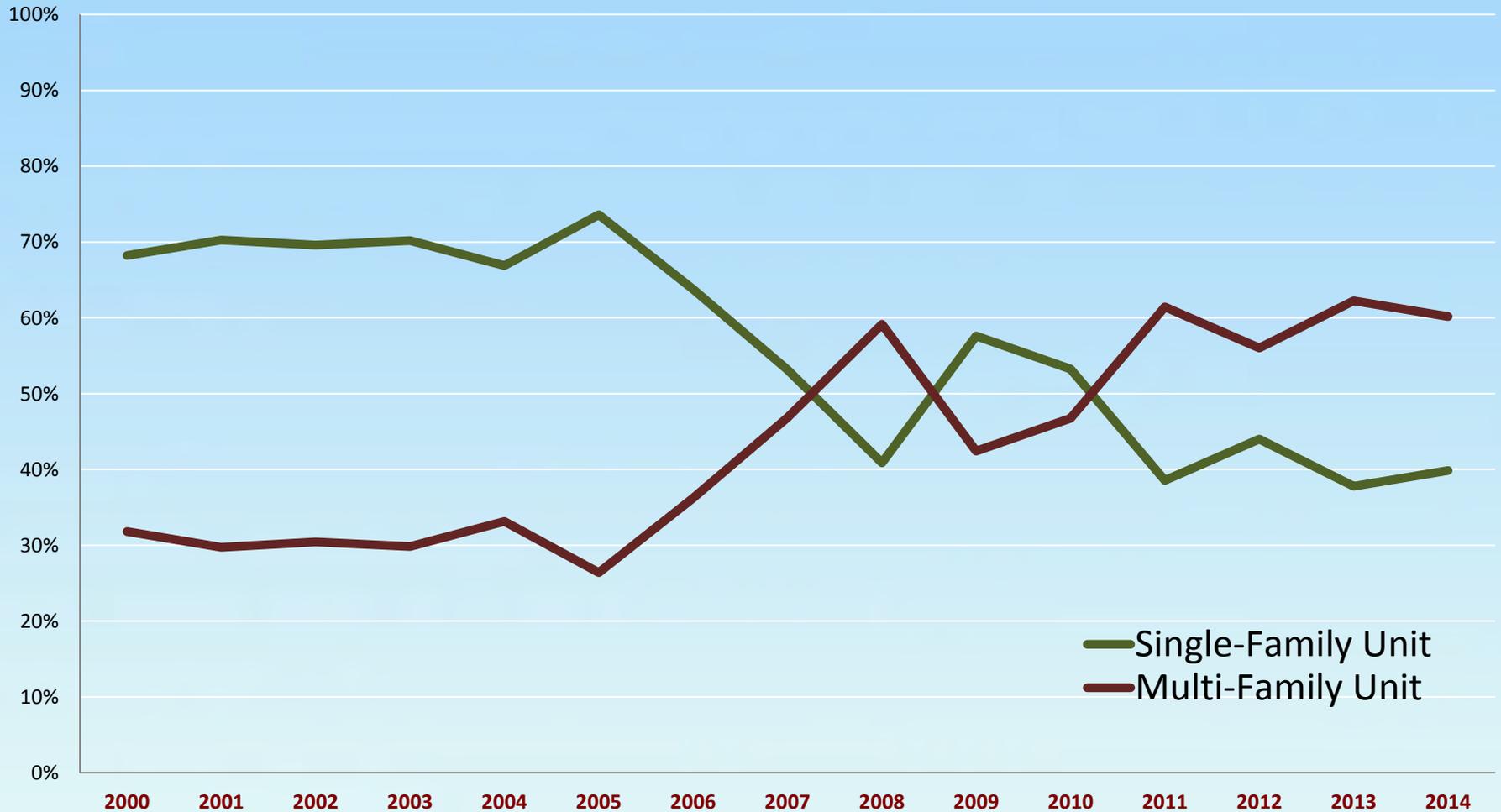
Active Transportation Trainings and Toolkits

Website Upgrades

Regional Performance

Regional Performance

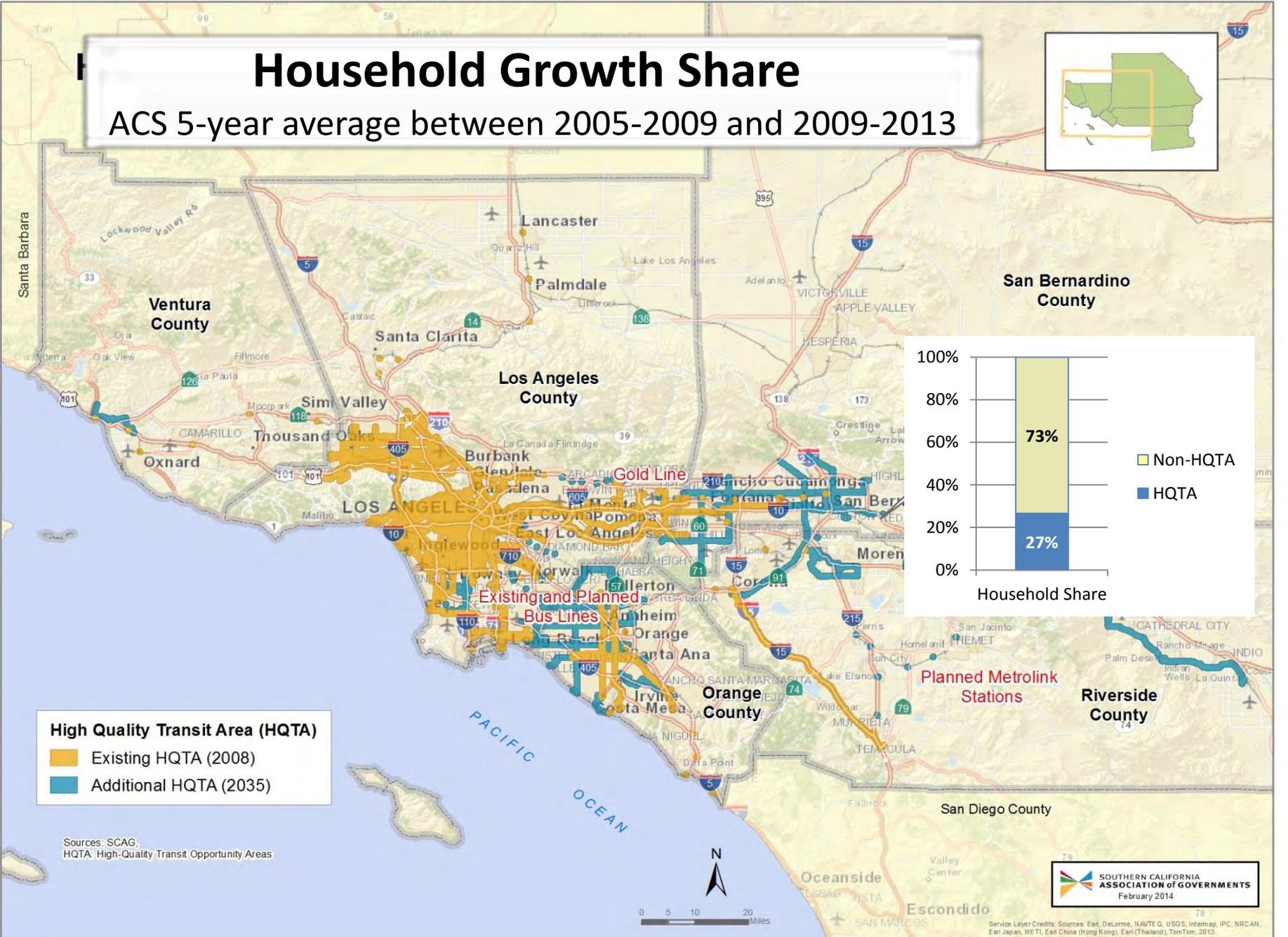
Composition of Residential Building Permits 2000-2014



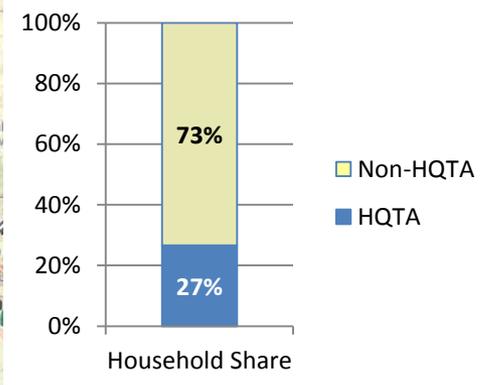
Source: Construction Industry Research Board

Household Growth Share

ACS 5-year average between 2005-2009 and 2009-2013

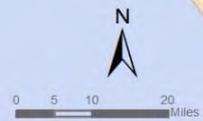


San Bernardino County



High Quality Transit Area (HQTA)
Existing HQTA (2008)
Additional HQTA (2035)

Sources: SCAG, HQTA: High-Quality Transit Opportunity Areas



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February 2014

Service Layer Credits: Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013.

Regional Performance

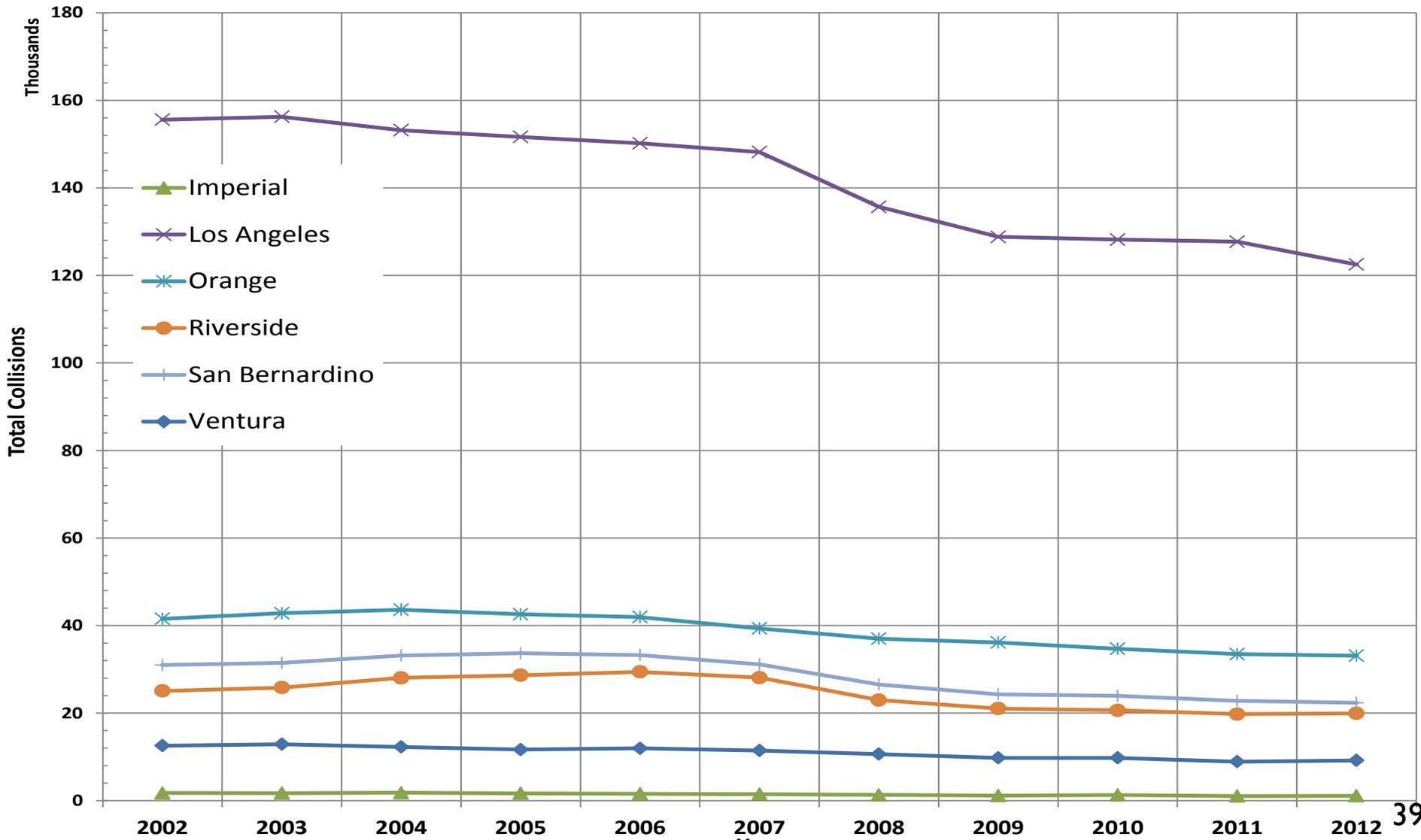
Transportation Safety

- Significant strides in highway safety in the last decade
- Total roadway accidents have consistently gone down
 - Total fatalities have also gone down, but the trend appears to be flattening
 - Bike and pedestrian related accidents are trending up



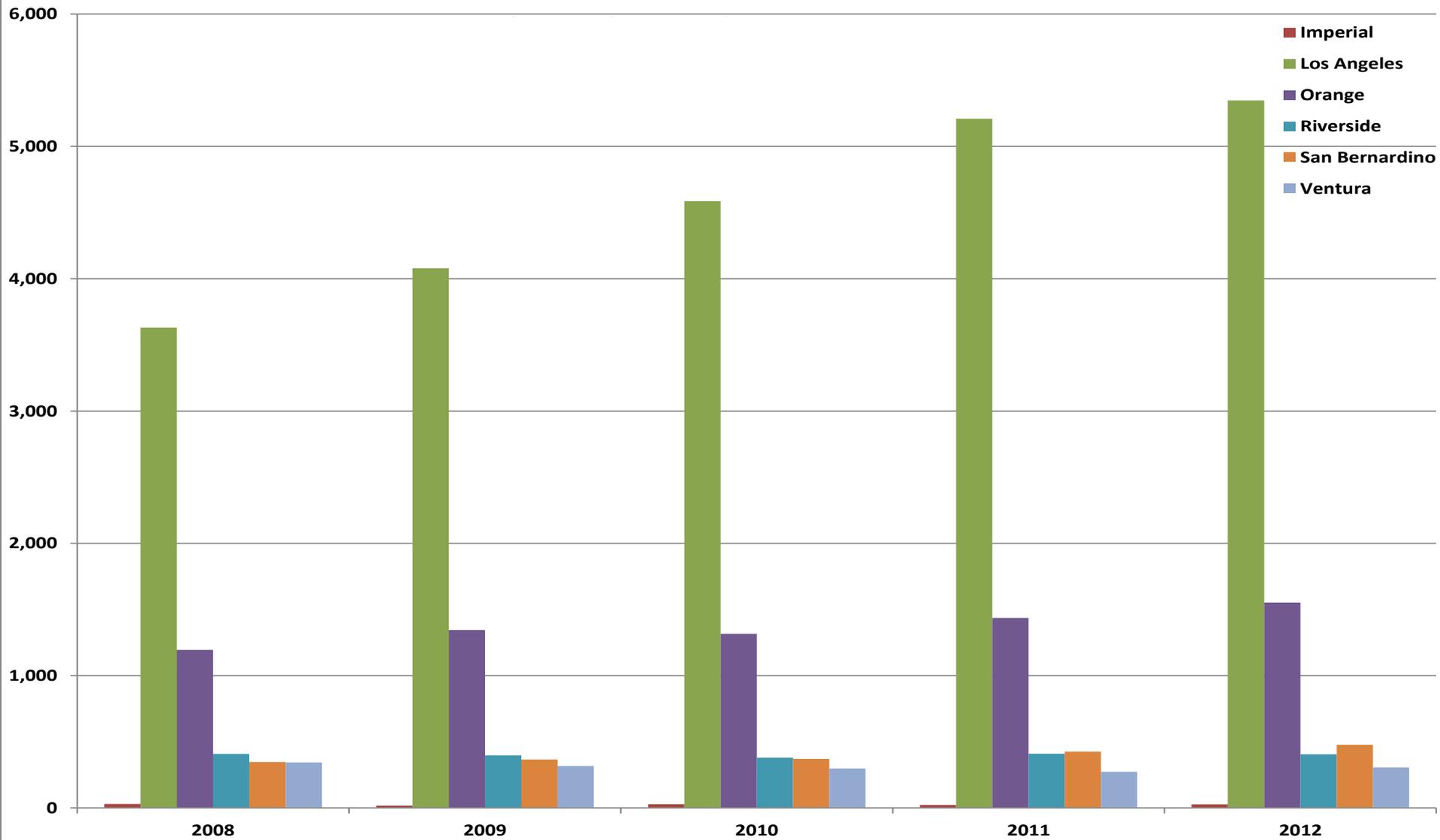
Regional Performance

Collisions By County



Regional Performance

Bicycle Collisions Trends



Regional Performance

Major Air Quality Improvement Milestones

■ South Coast Air Basin

- Attainment of 1987 PM10 standards in 2013
- US EPA proposal to approve attainment of 1997 PM2.5 standards in 2014
- Anticipated attainment of 2006 PM2.5 standard by 2015

■ Ventura County

- Approved attainment of 1997 8-hour ozone standards in 2013

■ Southeast Desert

- US EPA proposal to approve attainment of the revoked 1979 1-hour ozone standards in August 2014

■ Pechanga

- US EPA proposal to approve attainment of the 1997 8-hour ozone standard in December 2014

Regional Challenges and Emerging Trends

2016 RTP/SCS Challenges and Emerging Trends

Regional Challenges

- Climate change has emerged as a major global issue impacting nations and localities – additional and more stringent GHG targets
- Significant emission reductions needed to meet federal Clean Air Act standards
- Quality of life important for regions that compete globally
- Economic recovery and recent fuel price reductions make it harder to achieve VMT reductions and reduce congestion and emissions

2016 RTP/SCS Challenges and Emerging Trends

Regional Challenges

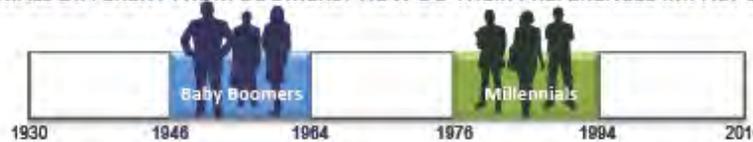
- Significant unmet infrastructure needs have grown and need acceleration of new funding
- Need to improve transit ridership by further linking transportation and land use
- Active transportation safety and funding must be addressed
- Multi-modal transportation system must be optimized efficiently
- Public health major focus of stakeholders (state and national policies)
- Housing shortage and gentrification pressures
- Court decision regarding SANDAG PEIR

2016 RTP/SCS Challenges and Emerging Trends

Baby Boomers and Millennials

THE GREAT GENERATIONAL DIVIDE

HOW ARE MILLENNIALS DIFFERENT FROM BOOMERS? HOW DO THEIR PREFERENCES IMPACT SOUTHERN CALIFORNIA?

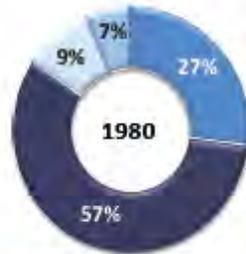


WHEN I WAS YOUR AGE...

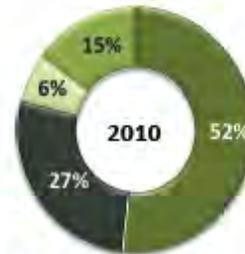
How do Millennials now compare to Boomers at the same age?

Demographics for Ages 16 to 34 both in 1980 and in 2010 in the SCAG Region (Includes the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, Ventura)

RACE/ETHNICITY

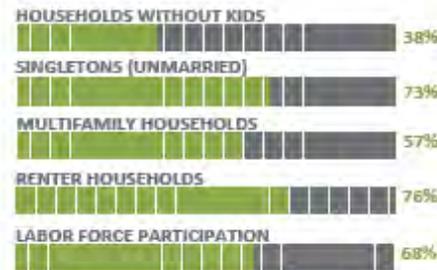
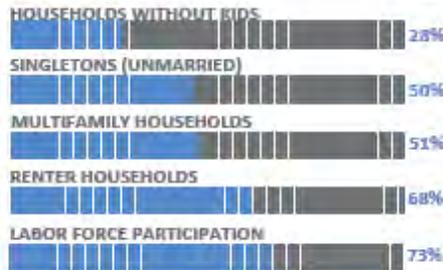


- HISPANIC
- NON-HISPANIC WHITE
- NON-HISPANIC BLACK
- NON-HISPANIC ASIAN AND OTHERS



- HISPANIC
- NON-HISPANIC WHITE
- NON-HISPANIC BLACK
- NON-HISPANIC ASIAN AND OTHERS

HOME AND WORK LIFE



2016 RTP/SCS Challenges and Emerging Trends

Millennials

- Rapid adoption of new communication technologies
- Rapidly adapting to the “shared” economy
- May be less interested in car and homeownership
- Travel fewer miles and make fewer trips
- May favor low-travel urban lifestyles with emphasis on walking, cycling, ride-sharing and transit



2016 RTP/SCS Challenges and Emerging Trends

5 Major Upcoming Transportation Trends

1. Multimodal Transit (Shared Usage)

Transportation provider—Moving people around crowded cities without dedicated vehicles— customizing transportation fit based upon local needs

2. Alternative Powertrains

Zero Tailpipe emissions EV with fast refill and available next year, fun to drive BEV, and everyday usable PHV available now

3. Autonomous technology

Technology is not the holdup, cultural acceptance will be the big issue
→ Successful implementation of big data required

4. Connected Vehicles (Entune & Enform)

Toyota's starting point for networking cars—Ubiquitous connectivity comes with multiple application amortization

5. Downsizing vehicles (iRoad)

Moving people around crowded cities without dedicated vehicles while keeping that level of convenience is a key future challenge



Ha-mo RIDE



Source: Jim Pisz, Toyota Motor Sales

2016 RTP/SCS Framework

2016 RTP/SCS Framework

Development

- Focus of the 2016 RTP/SCS is to build on the success of the 2012 RTP/SCS
- Developments for review:
 - Viable Long-Term Funding Strategies
 - System Preservation, Safety and Operation
 - Regional Freight Strategies
 - Active Transportation
 - Public Health Strategies
 - Housing shortage/gentrification pressures
 - Implications of changing demographics
 - Implications of emerging new technologies

2016 RTP/SCS Framework

Anticipated General Results/Outcomes

- Enhanced mobility choices
- Economic development, job growth and improved access to jobs/opportunities
- Improved public health
- Facilitate regional/local competitiveness for funding
 - AB 32 Greenhouse Gas Reduction Fund (Cap and Trade)
 - Active Transportation Program
 - HCD Grants
 - National Freight Strategic Plan
 - Water bond/groundwater management

2016 RTP/SCS Framework Planning Process

BOTTOM UP INPUT PROCESS

Local
jurisdictions

ON-
GOING

Provide input to develop forecasts of future land use, population, household and employment growth—Met with 195 local jurisdictions

County
transportation
commissions

LATE
2014

Submit updated transportation projects for inclusion in RTP/SCS

Other
Stakeholders

ON-
GOING

Provide input on specific topic areas such as active transportation strategies, public health, open space and environmental justice

2016 RTP/SCS Framework

Planning Process

SCENARIO DEVELOPMENT

EARLY 2015

Transportation, Housing, & Land Use Scenarios

Develop multiple transportation-land use scenarios that explore a variety of different policy options and combinations. Develop a preferred scenario.

Active Transportation
Aviation
Building & Neighborhood Characteristics
Changing Demographics
Goods Movement
Highways & Local Roads
Local Input
Public Health/EJ
Transit & Passenger Rail
TDM/TSM
Transportation Innovations

2016 RTP/SCS Framework Planning Process

SCENARIO ANALYSIS

SPRING-SUMMER 2015

- Public outreach workshops on scenarios and SCS
- Extensive discussions by policy committees
- Technical analysis via transportation and land-use modeling tools
- Fiscal constraint analysis
- Environmental analysis (Programmatic Environmental Impact Report)



2016 RTP/SCS Framework

Planning Process

2016 RTP/SCS RELEASE

FALL 2015 – SPRING 2016

- Fall 2015: Selection of preferred scenario
- October 2015: Release of Draft 2016 RTP/SCS for public review
- Fall/Winter 2015-2016: Workshops and public hearings throughout the region
- Winter 2015–2016: Address public comments
- April 2016: Adopt 2016 RTP/SCS

2016 RTP/SCS Framework

Upcoming Joint Policy Committee/Policy Committee Meetings

March/April 2015

- Review and provide feedback on relevant 2016 RTP/SCS topic areas by each policy committee (TC, CEHD, EEC)

May 2015

- Workshops region-wide to review and provide comment on draft 2016 RTP/SCS scenarios, with kick-off at SCAG General Assembly

June/July 2015

- Review input received through the public workshops and provide policy guidance for incorporating feedback into draft 2016 RTP/SCS

September 2015

- Review and comment on draft 2016 RTP/SCS and draft Program Environmental Impact Report

(Additional meetings will be accommodated as needed)

Questions and Feedback

