MODELING TASK FORCE

Daniel Tran
Associate Regional Planner - Transportation
September 23, 2015
Outline for Today’s Presentation

• RTP/SCS Overview
  o What is an RTP/SCS?
  o Why do we need an RTP/SCS?

• Challenges & Opportunities
  o What are the emerging demographic trends that will affect our future transportation and housing choices?
  o Status of system preservation and transportation finance?

• 2016 RTP/SCS
  o What are the key strategies and guiding principles?
  o What is the schedule to adopt the 2016 RTP/SCS?
What is an RTP/SCS?

• Represents the long-term vision to address regional transportation and land use challenges and opportunities
• Includes a corresponding investment framework
• Federal Requirements
  o Must be updated every 4 years to maintain eligibility for federal funding
  o Must be long-range: 20+ years into the future
  o Must be financially-constrained: Revenues = Costs
  o Must pass regional emission standards (Conformity)
• State Requirements
  o Must meet SB 375 requirements (address GHG reductions)
What is included in the RTP/SCS?

• **Vision, policies, and performance measures**: Contains an overarching vision, policies, a list of regional transportation goals, and measures for evaluating our performance in achieving those goals.

• **Forecasts**: Future distribution of population, households, employment, land use, and housing needs.

• **Financial plan**: Identifies reasonable expected revenues over the 25-year plan horizon.

• **List of projects**: Includes projects that are anticipated to be initiated and/or completed by 2040.

• **Analysis of the following focus areas**: active transportation, aviation, environmental justice, goods movement, highways & arterials, land use, open space, farm and natural lands conservation, passenger rail and transit, public health, transportation demand management, transportation safety and security.
Bottom Up Planning Process

Local Jurisdictions

Provide input to develop forecasts of future land use, population, household and employment growth & draft scenarios

ON-GOING

County Transportation Commissions

Submit updated transportation projects for inclusion in RTP/SCS

Other Stakeholders

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

- Climate Change & Environment
- Poverty
- Aging Infrastructure
- Economy & Revenue
- Congestion
- Quality of Life
Anticipated Southern California Growth

Changing Age and Household Types

Growth to 2040: 3.75 million people, 1.53 million households

Current & Future Population by Age Group

<table>
<thead>
<tr>
<th>Age Group</th>
<th>1990</th>
<th>SCAG 2010</th>
<th>2010-2040</th>
<th>SCAG 2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 35</td>
<td>57%</td>
<td>43%</td>
<td>46%</td>
<td>43%</td>
</tr>
<tr>
<td>35-64</td>
<td>33%</td>
<td>46%</td>
<td>+1.13 mil</td>
<td>43%</td>
</tr>
<tr>
<td>65 and Older</td>
<td>10%</td>
<td>11%</td>
<td>+2.73 mil</td>
<td>22%</td>
</tr>
</tbody>
</table>

Current & Future Population by Household Type

Households living alone

- 17% (1970)
- 42% (2010)
- 42% (2010-2040)
- 42% (2040)

Households without children

- 27% (1990)
- 44% (2010)
- 43% (2010-2040)
- 43% (2040)

Households with children

- 22% (1990)
- 30% (2010)
- 30% (2010-2040)
- 30% (2040)

Current & Future Population by Household Type

Source: CA Department of Finance, 2014

Source: US Census Bureau, American Community Survey 2012
What about the Millennials?

• Rapid adoption of new communication technologies
• Travel fewer miles and make fewer trips
• Less interested in car and house ownership
• Rapidly adopting to the “shared” economy
• Favor towards low-travel urban lifestyles with emphasis on walking, cycling, ride-sharing and transit
Implications of Changing Demographics

• Increased demand for housing choices in central cities and mixed communities with shopping, health services, church, and transportation options
• Surplus of large-lot homes and increased demand for small lot homes
• Increased demand for health care and social services
• Downward pressure on tax revenues
• Changing transportation preferences
Gas Tax Revenue Has Not Kept Pace with VMT and Population
Insufficient Core Revenues to Meet System Needs

Total SCAG Region System Needs: $554.4 Billion (in Nominal Dollars)

- **Capital Costs:** $250.8
- **Debt Service:** $30.7
- **Operations & Maintenance:** $272.8

**Funding Gap:** $198.3

- **Core Federal:** $37.7
- **Core State:** $63.8
- **Core Local:** $254.7
2016 RTP/SCS: Strategies, Opportunities, & Emerging Trends

AHSC Funding
CEQA Guidelines
Population
Economy
Environment
Emerging Technologies
What should we expect in the 2016 RTP/SCS?

Support for:

• System preservation
• Investments that will improve system productivity
• Projects that are already underway and those identified in the RTP/SCS
• New projects that will close gaps in the system and/or improve access where it is currently inadequate
• Focus on addressing non-recurring congestion with new technology
• Complete Street opportunities
• Regional HOT Lane network
• Identifying sustainable forms of transportation funding
Emphasis on System Preservation

- 2012 RTP/SCS allocated $77B for O&M
- Plan to maintain and preserve our existing State Highway System and supporting infrastructure
- “Fix-it-First” perspective as a priority for the region
- Deferred maintenance will lead to increased costs
Highway and Arterials - Guiding Principles

- Protect and Preserve what we have – Fix it First, including the consideration of life cycle costs beyond construction
- Support new funding for system preservation
- Focus on achieving maximum productivity through system management and demand management
- Focus on adding capacity primarily (but not exclusively) to:
  - close gaps in the system
  - improve access where needed
- Support policies and system improvements that will encourage seamless operation of our roadway network from user perspective
- Any new roadway capacity project must be developed with consideration and incorporation of congestion management strategies, including demand management measures, operational improvements, transit, and ITS, where feasible
Highway Element Philosophy
System Management Pyramid

Transportation Investments Have More Impact If Built On This Foundation
Transit and Passenger Rail Strategies

• **Build upon 2012 RTP/SCS** transit and passenger rail projects/strategies and implementation progress to date

• **Incorporate regional planning efforts and latest project information**
  - Updated high quality transit corridors (e.g., Metro Strategic Bus Network, Riverside Transit Agency Comprehensive Operational Analysis)
  - Local decisions on project alternatives (e.g., Airport Metro Connector, OC Streetcar)
  - CA HSR Southern California MOU Projects
  - Metrolink Strategic Assessment
  - LOSSAN Strategic Implementation Plan
Goods Movement Projects and Strategies

Goods Movement Investments

Over $70 Billion

- East-West Freight Corridor
- Port access
- Freight rail capacity
- Grade separations
- Truck bottleneck projects
- Intermodal facilities
- Emission reduction strategies
2016 RTP/SCS Emerging Trends & Opportunities
Transportation Technologies

• Neighborhood Electric Vehicles (NEVs)
• Urban Mobility Platforms
• eBikes
• Car/Bike Sharing
• Travel Planning Apps
• Connected Vehicle Technologies

• Semi-automated drive modes
• Adaptive Cruise Control
• Lane centering
• Fully Autonomous Vehicles
**2016 RTP/SCS Progress To Date**

- **County Transportation Commission (CTC) Input Process**
  - Project list input for inclusion as part of 2016 RTP/SCS
  - Completed: November 2014 – January 2015

- **PEIR Notice of Preparation (NOP)**
  - 30-day public review and comment period, from March 9 to April 7, to obtain input on the scope and content of the environmental information that will be evaluated in the Draft PEIR for the 2016 RTP/SCS.
  - Hosted two public scoping meetings
  - Completed: April 2015

- **2016 RTP/SCS Workshops**
  - A total of 23 public workshops were conducted throughout the six county SCAG region
  - Completed: June 2015
2016 RTP/SCS Timeline

• Regular & Special Regional Council/Policy Committees Meetings and Workshops (June – December 2015)
• Draft 2016 RTP/SCS & PEIR Release (Winter 2015)
• Public Comments/Elected Officials Briefings/Public Hearings (Winter 2015)
• Final Adoption of the 2016 RTP/SCS & PEIR (April 2016)
• Federal Highway Administration and Federal Transit Administration Conformity Determination (June 2016)
Thank you!

Learn more by visiting www.scagrtpscs.net