

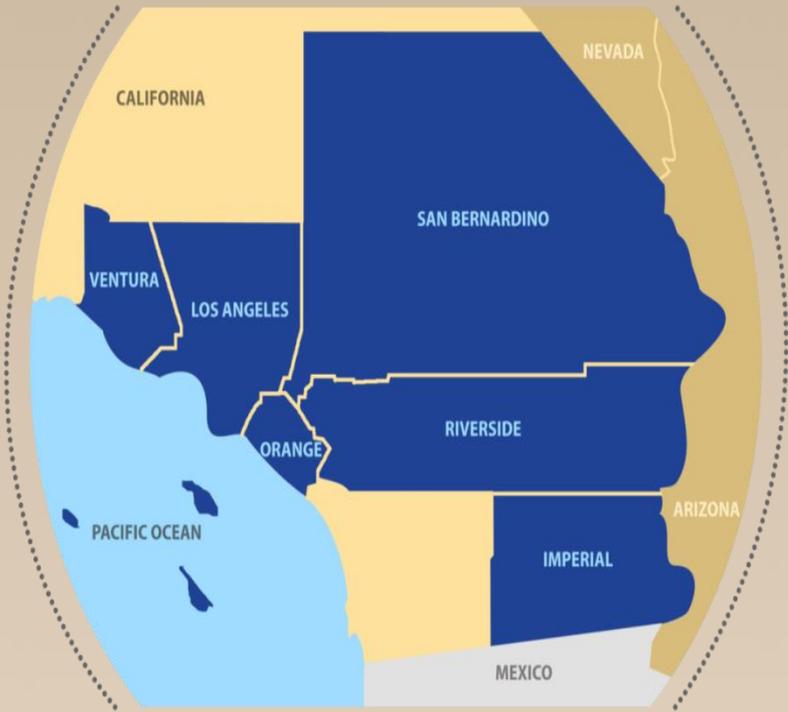
Framework of Regional Transportation/Land Use Strategy and Control Measures for 2016 South Coast Air Quality Management Plan (AQMP)

**Frank Wen,
Manager Research & Analysis**

2016 AQMP Control Strategy Symposium
June 11, 2015



SCAG Region



- Nation's largest Metropolitan Planning Organization (MPO)
- 38,000 Square Miles
- 15 Subregions
- Nation's Global Gateway for Trade

SCAG FACTS ▶

191
Cities

6
Counties

18.5
Million
People

16th
Largest
Economy
in the
World

SB 375 Requirements: Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)

2016 RTP/SCS Framework

- MPO such as SCAG is responsible to develop Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS)
- RTP/SCS will integrate land use, housing, and transportation planning
 - Sustainable Communities Strategy (SCS)
 - Regional Housing Needs Assessment (RHNA)
- Achieve GHG emissions reduction targets adopted by the California Air Resources Board (ARB)
- Meet all Federal/State Air Quality Requirements

Regional Challenges



What We've Been Doing

- Completed the first round of SB 375 Planning Process: SCAG 2012-2035 RTP/SCS
- Developing the 2016-2040 RTP/SCS, will release the Draft 2016 RTP/SCS in October
- Just wrapped up the local review/input and scenario planning process
- Conduct region-wide RTP/SCS workshops
- Implementing the 2012-2035 RTP/SCS
 - Sustainability projects
 - Active Transportation Project (ATP) funding
 - Cap & Trade funding

2016 RTP/SCS Framework (Plan Under Development)

2016 RTP/SCS Framework

- Build on the success of the 2012-2035 RTP/SCS strategies
- Continue the major focuses of the 2012-2035 RTP/SCS
- Key elements
 - ✓ Viable Long-Term Funding Strategies
 - ✓ System Preservation, Safety and Operation
 - ✓ Regional Freight & Goods Movement Strategies
 - ✓ Active Transportation
 - ✓ Public Health Strategies
 - ✓ Implications of changing demographics
 - ✓ Implications of emerging new technologies

2012-35 RTP/SCS Strategies:



- **Concentrate growth in high quality transit areas (HQTA)**
- **Enhanced Transit Service**
- **Active Transportation**
- **Innovative Funding**
- **Invest in clean fuel technology**
- **East/West Freight Corridor**

2012 RTP/SCS – Three Key Strategies

ONLY 13%

capital investment
to highways,
Triple Active
Transportation
investment

focus over

50%

growth within

3%

land area

FROM 7:3

single- vs. multi-
family units

TO 3:7

SCAG Focus: Mileage Based User Fee (MBUF)

2012 RTP/SCS Accomplishments

- 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



Passenger Rail & Transit

Light & Heavy Rail Extensions



2035

Bus Rapid Transit Expansion THROUGHOUT THE REGION



2016 RTP/SCS Framework



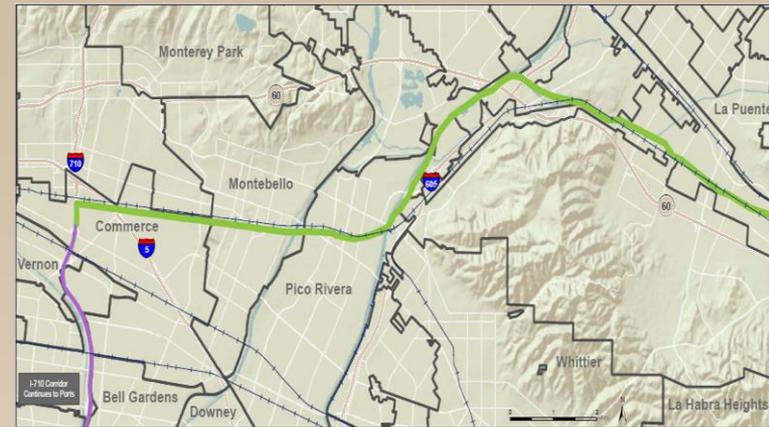
Metrolink/ LOSSAN Upgrades and California High-Speed Rail Phase 1



SCAG Focus: Goods Movement

2012 RTP/SCS Accomplishments

- Unprecedented collaboration with State and Federal partners e.g. California and National Freight Advisory Committees
- Public-Private Partnership Finance and Delivery Strategies Screening for the East West Freight Corridor (EWFC)
- Goods Movement Border Crossing Study
- Industrial Warehousing Study in the SCAG Region



SCAG Focus: SCS Implementation

2012 RTP/SCS Accomplishments

- Sustainability Grant Program provides funding to local governments to link local land use plans to RTP/SCS goals

- 72 Planning projects funded (\$10 million total) since 2012



SCAG Focus: Active Transportation Funding

2012 RTP/SCS
Accomplishments

- **\$200 M** awarded for first 3 years of Active Transportation Program (ATP)
- More than **100 CITIES** in the SCAG Region applied for ATP funds
- SCAG Regional Safety & Encouragement Campaign **\$2.3 M** to improve safety & encourage biking/walking



SCAG Focus: Public Health Work Program

2012 RTP/SCS
Accomplishments

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

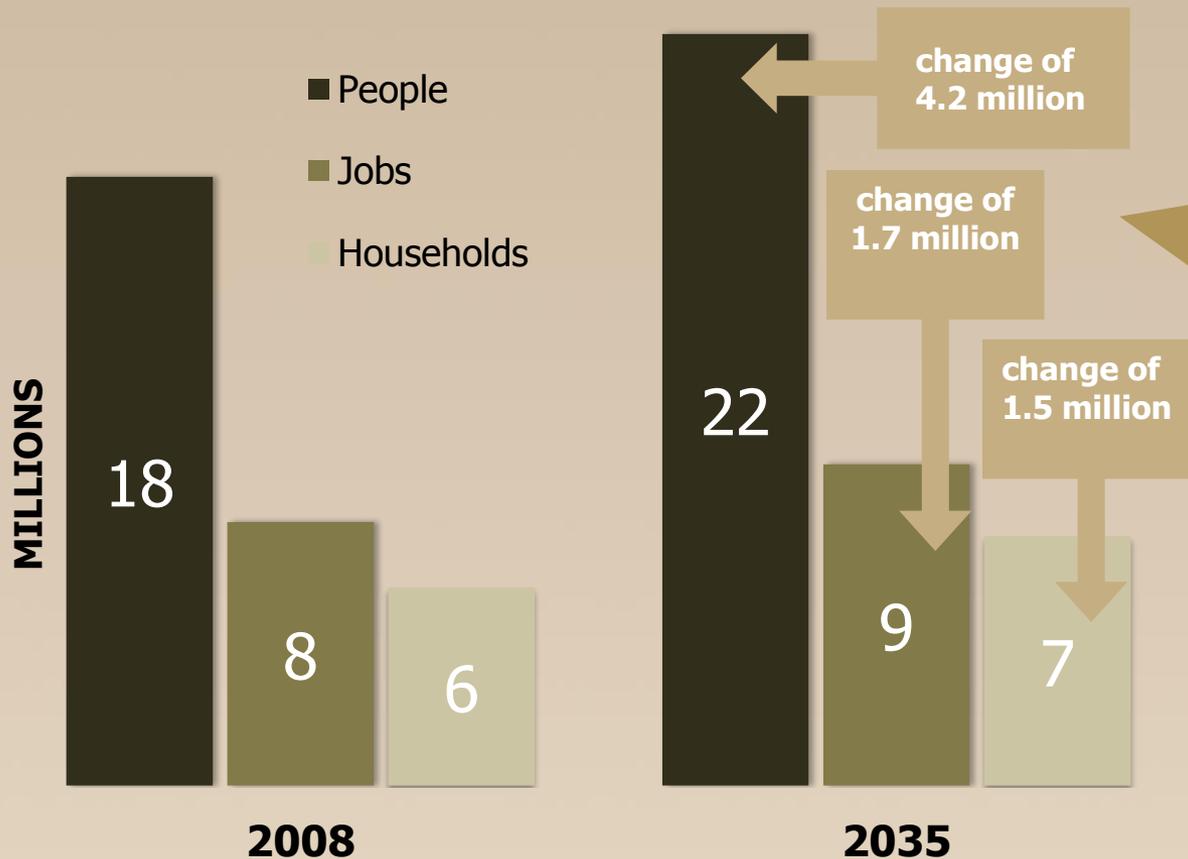
Provide Regional Support through Technical Assistance

Active Transportation Trainings and Toolkits

Website Upgrades

Projected Future Growth

2016 RTP/SCS Context



adding the population of approximately **ONE AND A HALF** times Chicago To Southern California

Major Demographic Trends

- Continued Low Population Growth
- Declining Number of Children
- Annual Flow of New Immigrants is Plunging
- Foreign Born Peaked or Declining
- Long Settled Foreign Born
- Rise of the Immigrant Second Generation
- Slower Racial and Ethnic Change
- Aging—A Soaring Senior Ratio
- The Homegrown (growth from native Californians) Revolution
- Rising Index of Children's Importance

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**

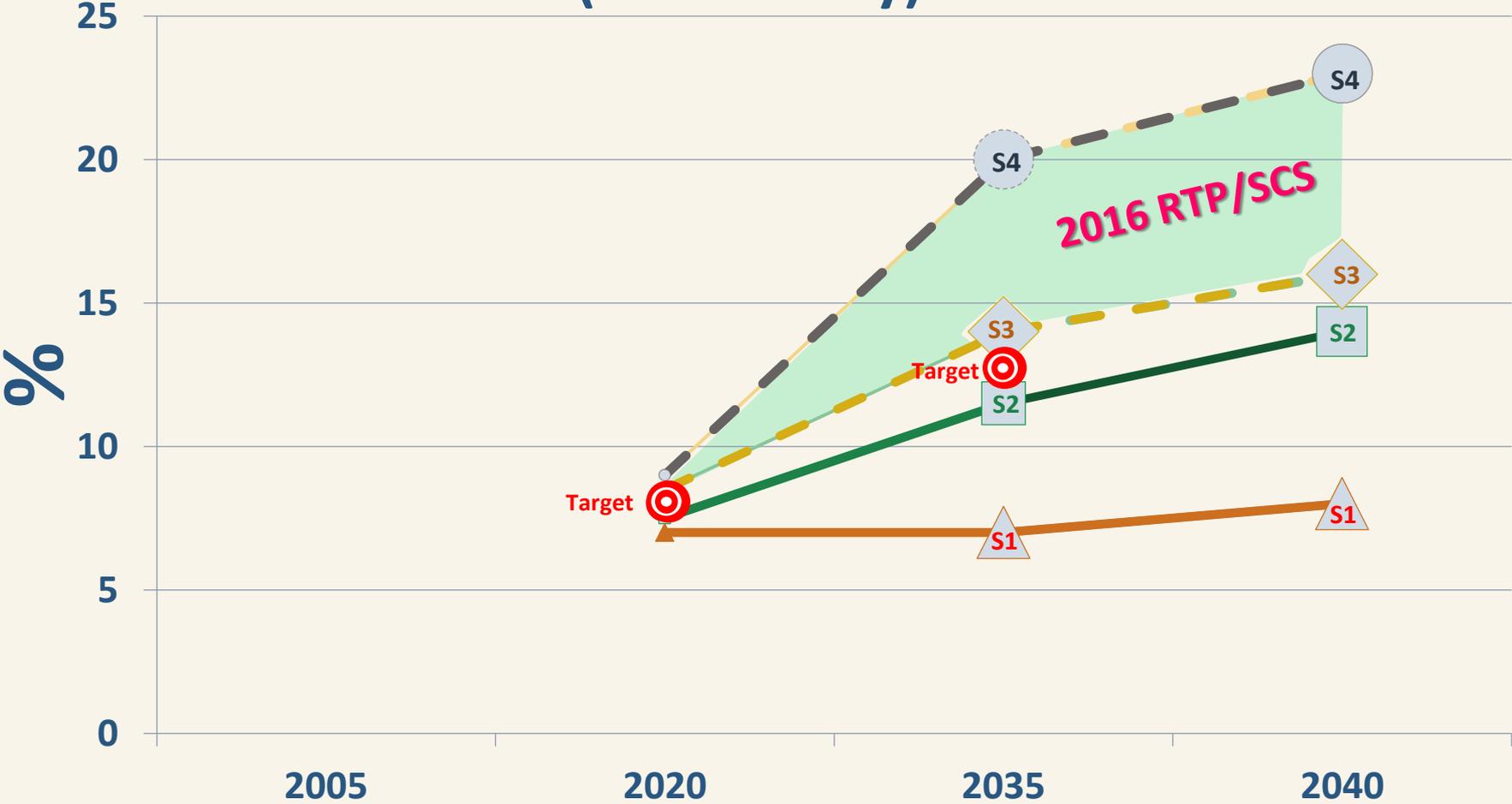
Emerging Transportation Technologies

2016 RTP/SCS Framework



- 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

Per Capita GHG Changes from 2005 (Preliminary)



Preliminary Scenario Performance: Benefits

DRAFT

Strategy	Trend	2012 RTP/SCS Update with Local Input	Policy A	Policy B
Land Consumption	N/A	-18%	-31%	-37%
Health Cost-Respiratory	N/A	-11%	-14%	-19%
Residential Energy \$/Household	N/A	-7%	-10%	-12%
Residential Water \$/Household	N/A	-3%	-5%%	-7%
Household Cost (Driving + Utilities)	N/A	-10%	-13%	-17%
Fiscal Impact (O&M + Capital)	N/A	-9%	-13%	-16%

Anticipated General Results/Outcomes

2016 RTP/SCS Framework

- Enhanced transportation options and choices
- Economic development, job growth and improved access to jobs/opportunities
- Improved air quality and 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
- Assess new funding mechanism such as EIFD for sustainable infrastructure investment proposed in the RTP/SCS

Timeline & Milestones

2016 RTP/SCS Framework

- **Underway:** Strategy & Scenario Development
- **Summer 2015:** Extensive Outreach & Public Workshops
- **October 2015:** Release of Draft 2016-2040 RTP/SCS for public review, Input to 2016 AQMP
- **Fall 2015:** Elected officials workshops & public hearings
- **Winter 2016:** Review and address public comments
- **April 2016:** Adopt 2016-2040 RTP/SCS

Questions?

For more information visit

<http://scagrtpscs.net/Pages/default.aspx>

