



SOUTHERN CALIFORNIA ASSOCIATION of GOVERNMENTS

TECHNICAL WORKING GROUP (TWG)

Thursday, September 18, 2014: 10:00 a.m.

SCAG Offices
818 West 7th Street, 12th Floor
PLEASE NOTE NEW LOCATION: Policy Room B
Los Angeles, CA 90017
(213) 236-1800

Teleconferencing Information:
Number: 1-888-273-3658 – Participant Code: 182121

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

AGENDA

Introductions

Receive and File

1. Meeting Summary 7-17-14 (Attachment)

Discussion Items

2. Role and Scope of TWG (Hasan Ikhata) (Attachment) 15 min.
3. 2016 RTP/SCS Agenda Outlook (Amatya/Wen) (Attachment) 15 min.
4. Status on Local Input for the 2016-2040 RTP/SCS; Growth Forecast (S. Choi) (Attach) 15 min.
5. Modeling Updates
 - a) Active Transportation (Sarah Jepson) 10 min.
 - b) Modeling Post-Processing (Guoxiong Huang) (Attachment) 10 min.
 - c) Transportation Projects for 2016 RTP/SCS (Naresh Amatya) 10 min.
6. CALOTS (Ping Chang) 10 min.



TECHNICAL WORKING GROUP (TWG)

July 17, 2014

Meeting Summary

The following is a summary of discussions of the Technical Working Group meeting of July 17, 2014.

Receive and File

- 1. Meeting Summary 6-19-14**
- 2. Agenda Outlook for the Development of the 2016 RTP/SCS**

Gail Shiomoto-Lohr requested that a separate item be added to the Agenda Outlook, which would address the identification and development of various scenarios for the 2016 RTP/SCS. Ms. Shiomoto-Lohr suggested placing the item as part of the General Topic Areas, either under Growth Forecast/Land Use or Program EIR. Another suggestion was placing it under Sustainable Communities Strategy.

Discussion Items

- 3. 2016 RTP/SCS Modeling Variables Matrix**

Guoxiong Huang, Manager of Modeling and Forecasting, provided a summary of the key components in the 2016 RTP/SCS Modeling Variables Matrix. The following are a few highlights of the comments and concerns addressed by the TWG members:

- 1) Local jurisdictions must participate and review all base-year information in order to ensure an accurate collection of data;
- 2) Provide clarity to local jurisdictions regarding the two purposes of the SPM;
- 3) Public health component being developed by the Strategic Growth Council and SACOG;
- 4) Address population/jobs/housing imbalances;
- 5) Provide a comprehensive scenario planning approach, which will address other variables such as fleet electrification;
- 6) Quantify methane/natural gas emissions as part of SCAG's goal of conformity and compliance with Greenhouse Gas (GHG) emissions reduction; and
- 7) Provide a detailed schedule of the SPM workflow including milestones, as it relates to the release of the 2016 RTP/SCS and EIR.

The next meeting of the TWG will be Thursday, August 21, 2014.



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Item 2 Attachment:

Role and Scope of TWG

Role and Scope of Technical Working Group

On August 26, 2014 Hasan Ikhata met with the Executive Directors of the Subregional Organizations in the SCAG region. One of the items discussed was clarification of the role of the Technical Working Group (TWG), specifically in the development of the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS).

On April 11, 2013, the TWG held their initial meeting as the new stakeholder group to vet technical matters as they relate to SCAG's planning activities. The successor to the Plans & Policies Technical Advisory Committee (P&P TAC), the TWG is intended to include additional stakeholders and provide for a more collaborative group process conducive to two-way dialogue between SCAG staff and the stakeholder groups. At the first meeting there was discussion of the role and responsibilities of the TWG as compared P&P TAC (see attached report entitled "*Technical Working Group (TWG) Purpose and Structure*").

In a letter dated October 18, 2013, Richard Powers, Chair, Subregions of Southern California, provided recommendations regarding the TWG meetings. Since that time, SCAG has established several new practices to address the suggested recommendations including 1) provide agenda outlook in agenda packet; 2) hold monthly meetings; 3) provide summary minutes; 4) copy Subregional Executive Directors on correspondence with local jurisdictions; and 5) communicate consensus positions by TWG to the appropriate policy committees on relevant action items.



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Item 3 Attachment:

2016 RTP/SCS Agenda Outlook

Agenda Outlook for the Development of the 2016 RTP/SCS

(Updated 9/16/14)

Framework/Overarching Issues

- Potential approach/process, coordination between various technical working groups and policy committees, and updated overall schedule for the development of the 2016 RTP/SCS - (June 2013)
- Performance Based Planning and implications of MAP-21
 - System Performance Measures Review and MAP-21 requirements (February 2014)
 - System Preservation Update (May 2014)
 - **Discussion on existing and proposed Performance Measures- (November 2014)**
 - **Asset Management and Infrastructure Performance Measures- (Jan 2015)**
- **Role of Technology in the 2016 RTP/SCS (November 2014)**

General topic areas

- Growth Forecast/Land Use (Scenario Planning) for 2016 RTP/SCS, including growth forecast, technology
 - Local Input Process (February 2014)
 - **Map Collaborator Database (A web based tool to collect data and develop open space plan.) (October 2014)**
 - **Technical assumptions/methodology/data/analysis in the 2012 RTP/SCS (Nov/Dec 2014)**
 - **Potential changes in the 2016 RTP/SCS to technical assumptions/methodology/data/analysis (Nov/Dec 2014)**
 - **Updated forecast/land use distribution for 2016 RTP/SCS (December 2014)**
 - **Development of alternative scenarios (Scenario Planning) for 2016 RTP/SCS, including growth forecast, technology- November 2014**
- Sustainable Communities Strategy
 - **SB 375 GHG Target and AB 32 Scoping Plan Update (September 2014, ARB workshop on 9/18/14 at SCAG)**
 - **Overview of SCS in the 2012 RTP/SCS (October 2014)**
 - **Current status of SCS implementation (October 2014, Local Implementation survey)**
 - **Emerging issues/themes that could influence 2016 SCS (Part of Scenario Planning Discussion)**
 - **Updated SCS for 2016 RTP/SCS (December 2014, Updated 2012-2035 SCS)**
- Transportation Finance
 - Overview of baseline and innovative funding sources adopted in the 2012 RTP/SCS including underlying technical assumptions/methodology/analysis (March 2014)
 - Overview of cost assumptions/cost modal for the 2012 RTP/SCS (March 2014)
 - **Progress update on 2012 RTP/SCS revenue/cost (June 2015)**
 - **Potential changes/focus areas and emerging issues in the 2016 RTP/SCS (June 2015)**
 - **Finance Plan for 2016 RTP/SCS (August 2015)**
- Modeling
 - Model and Tools and Datasets to be used in the 2016 RTP/SCS (March 2014)
 - 2016 RTP/SCS Modeling Variables Matrix (July 2014)
- **Transportation Conformity (July 2015)**
- **Program EIR (February 2015)**
- **Environmental Justice (October 2014—First EJ Workshop will be held on 10/23)**
- **Public Participation Plan (February 2015)**

Major Modal/Strategy Areas

- Goods Movement (GM) Strategy
 - **Overview of GM Strategy in the 2012 RTP/SCS with a focus on technical assumptions (including technology assumptions)/data/analysis (Jan 2015)**
 - **Progress update on the GM Strategy with focus on emerging issues and implications on the 2016 RTP/SCS (Jan 2015)**
 - **Updated GM Strategy for the 2016 RTP/SCS (August 2016)**
- Transit (HSR, Rail and Bus)
 - **Overview of Transit Strategy in the 2012 RTP/SCS (Feb 2015)**
 - **Progress update on the Transit Strategy and emerging issues/challenges that could influence the 2016 RTP/SCS (Feb 2015)**
 - **Updated Transit Strategy for the 2016 RTP/SCS (August 2015)**
- Active Transportation
 - SCAG Active Transportation Results from the 2011 Household Travel Survey (June 2014)
 - **Overview of Active Transportation Strategy in the 2012 RTP/SCS (Dec 2014)**
 - **Progress update on Active Transportation Strategy and emerging issues and their implications to the 2016 RTP/SCS (January 2013) (Dec 2014)**
 - **Updated Active Transportation Strategy for the 2016 RTP/SCS (August 2015)**
- Highways/HOV/HOT/Toll Roads/Express Lanes
 - System Preservation and system operation focus in the 2012 RTP/SCS and our current efforts on Pavement and Bridge condition database/management (January 2014)
 - **Overview of Highway/HOV/HOT/Toll Roads/Express Lanes proposed in the 2012 RTP/SCS with a focus on technical assumptions/analysis (March 2015)**
 - **Progress update and emerging issues related to highways/HOV/HOT/Toll Roads/Express Lanes (March 2015)**
 - **Highways Improvement Element in the 2016 RTP/SCS (August 2015)**
- Aviation
 - Overview of Aviation program in the 2012 RTP/SCS with a focus on ground transportation improvements (March 2014)
 - **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 (May 2015)**
 - **Updated Aviation Element of the 2016 RTP/SCS (August 2015)**
- Transportation Demand Management and Transportation System Management (TDM/TSM)
 - **Overview of TDM/TSM in the 2012 RTP/SCS, including underlying assumptions (May 2015)**
 - **Progress status of TDM/TSM and emerging issues (May 2015)**
 - **Updated TDM/TSM Element for the 2016 RTP/SCS (August 2015)**
- Others (See Technology and scenario planning: November-December 2014)
 - **Zero/Near Zero/Clean Technology Applications, including Slow Speed Electric Vehicle programs (Nov. 2014)**
 - **Emerging New Technology Applications (Nov 2014)**

Note: Future agenda items are in bold. The Agenda Outlook is intended as a reference for TWG and is subject to change as needed and appropriate as things progress.

TWG 6- Month Agenda Outlook

(Updated 9/16/14)

October 2014

2016-2040 RTP/SCS Local Review/Input Results

- Overview of 2012 RTP/SCS
- Local jurisdiction implementation survey
- Open space survey (including Open Space Map Collaborator)

EJ Analysis and Outreach for 2016 RTP/SCS

- What has been done for the 2012 RTP/SCS EJ portion
- Staff's initial thoughts for the 2016 RTP/SCS EJ portion
- Input from stakeholders
- Next steps

November 2014

Existing & Proposed Performance Measures

- Overview of existing and potential new performance measures
- Asset management & Infrastructure Performance Measures

2016-40 RTP/SCS Scenario Planning

- Emerging issues/themes that could affect 2016 RTP/SCS
 - Technology & Scenario Planning White Paper
- Land use (SB743—TPP, Public Health, Freeway Buffer, Affordable housing)

December 2014

Overview and Framework for the Scenario Development of the 2016 RTP/SCS

- Local input land use scenario
- 2012 RTP/SCS land use scenario update
- The process and development of the "Refined land use scenario" for 2016 RTP/SCS

Active Transportation Work program for 2016 RTP/SCS Update

January 2015

Overview of SCAG's Freight Strategy

- What's in the 2012 RTP/SCS
- Emerging issues that may impact 2016 RTP/SCS Freight Strategy

Follow up on System Performance Measures

- Framework for System Performance Measures for 2016 RTP/SCS
- Asset Management and Infrastructure Performance Measures

February TWG

PEIR

- Update on PEIR associated with the 2016 RTP/SCS

Overview of SCAG's Public Participation Plan

- Focus on what has changed since 2012 RTP/SCS

Overview of Regional Rail and Transit Strategy

- What's in the 2012 RTP/SCS
- Emerging issues that may impact 2016 RTP/SCS Rail and Transit Strategy

March 2015

Status update on SCAG's Express Travel Choice Study Phase II

- Mileage based User Fee
- Congestion Pricing
 - HOT Lanes
 - Cordon Pricing

Preliminary assessment of Scenarios for more focused outreach and analysis

April 2015

EJ Workshop 2

- Planned EJ Analysis for the 2016 RTP/SCS

PEIR

- Administrative Draft PEIR
- Next steps in the development of Draft PEIR

Overview and Strategy for the SB 375 Workshops for the 2016 RTP/SCS

- Overview and objectives
- Workshop Schedule

Note: Subject to change as needed and appropriate.

Preliminary Schedule/Milestones for the 2016 RTP/SCS

(Updated 9/16/14)

1. FHWA/FTA Certifies conformity on 2016 RTP/SCS and CARB evaluates/approves SCAG's proposed GHG reduction targets Jun-16
2. RC Certifies 2016 RTP/SCS Final PEIR and Adopts 2016 RTP/SCS Apr-16
 - a. Policy Committees recommend approval to RC March 2016
 - b. Policy Committees' review and comments of Final PEIR and MMRP Mar. 2016
3. SCAG staff prepares responses to comments Jan-Feb 2016
4. Public Comment period on the Draft 2016 RTP/SCS and the associated Draft PEIR Oct. 2015-Dec.2015
4. *Development of 2015 SC AQMP and PEIR MMRP Dec. 2015*
5. Release Draft 2016 RTP/SCS and the associated Draft PEIR for Pub Review (RC) Oct. 2015
 - a. Policy Committees recommend release to RC September 2015
 - b. Policy Committees' review and comments of Draft PEIR Sep. 2015
6. Complete Transportation Conformity analysis and Draft PEIR associated with the Draft 2016 RTP/SCS Aug. 2015
7. Complete technical and outreach work on EJ Oct. 2015
8. Complete technical work (Finance Plan, Perf. Evals, GHG calcs)-TWG Jun-Aug 2015
9. Conduct county specific workshops on the Draft 2016 RTP/SCS as required by SB 375 April-Oct 2015
10. Draft Performance Measures for 2016 RTP/SCS and key approaches to PEIR components by RC/Policy Com. June-15
11. Conduct additional outreach on key approaches to PEIR components with AG's Office, OPR, stakeholders, public agencies, and utilities Mar.-Dec. 2015
12. Final input on transportation projects, strategies and programs to be considered in the Draft 2016 RTP/SCS Mar. 2015
13. Develop, define, and refine Alternative Scenarios for the 2016 RTP/SCS and discussion on key approaches to PEIR components with TACs and Policy Committees Jan. 2015-Mar. 2015
14. Conduct public workshops on the scope of PEIR as required by CEQA Mar. 2015
15. Seek Policy direction from Policy Committees and RC on major policy initiatives and scope of PEIR and major components Sept. 2014-Mar. 2015
16. Finalize Model and Tools for 2016 RTP/SCS (Validation/Calibration) Jan. 2015
17. *MAP-21 Performance Measures Rules to be in effect May. 2015*
18. Deadline for CTCs to provide initial input on transportation projects, strategies and programs to be considered in the Alternatives Nov. 2014
19. SCAG submits its GHG reduction methodology and targets to ARB Feb 2015
20. Local input on SCAG's Growth Forecast Jan. 2014-Sept. 2014

Note: Subject to change as needed and appropriate.



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Item 4 Attachment:

Status on Local Input for the 2016-2040 RTP/SCS
Growth Forecast

Status on Local Input for the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) Growth Forecasts

Simon Choi, Chief of Research and Forecasting
Frank Wen, Manager of Research and Analysis

Technical Working Group (TWG)
September 18, 2014



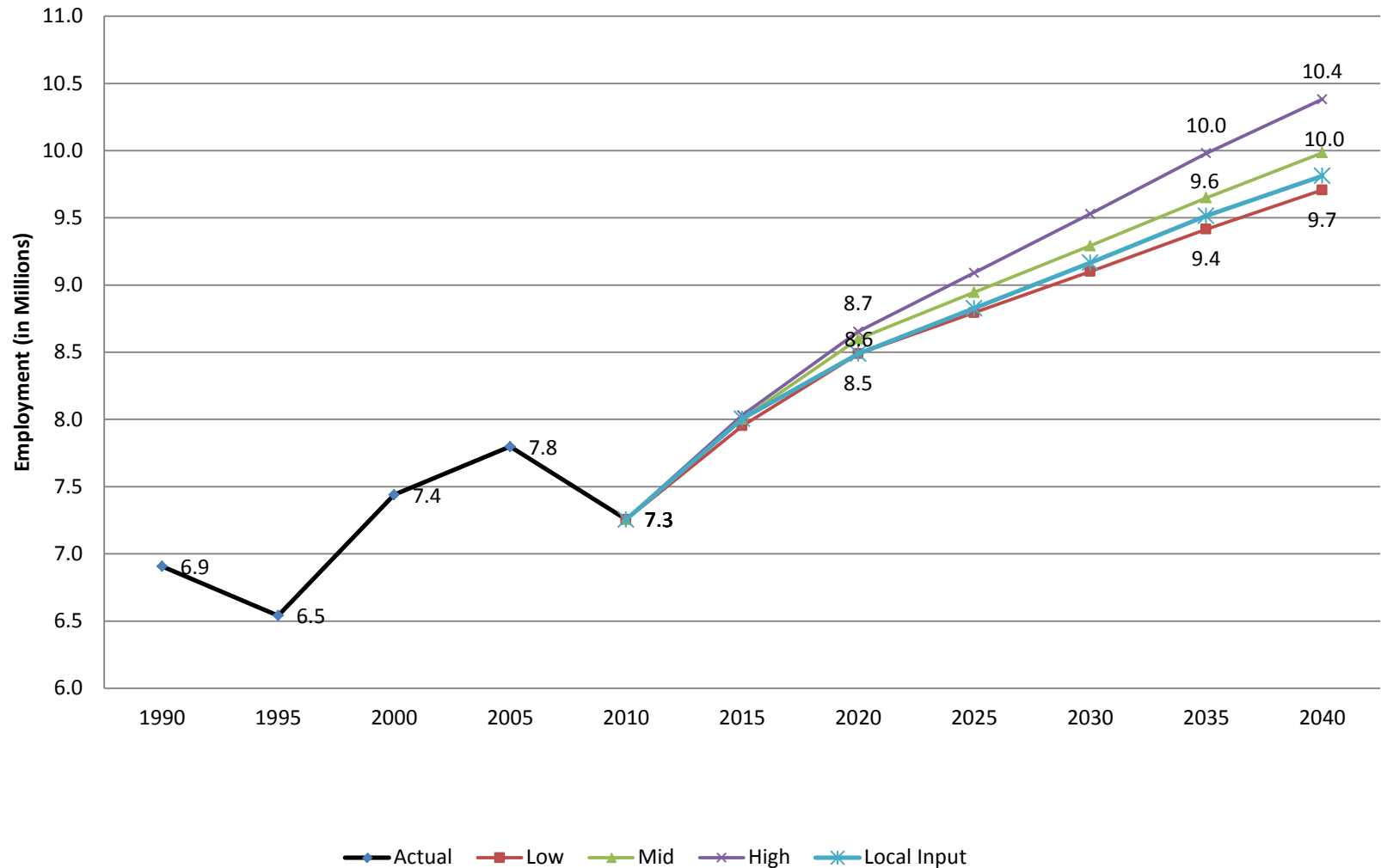
Background

- September 12, 2013: Staff presented a draft preliminary range of growth forecasts for 2016-2040 RTP/SCS
- November 2013 – August 29 2014: Staff collected local input on the preliminary growth forecasts.
- As of August 29, 2014, Staff received input on the preliminary growth forecasts from 80% of 197 jurisdictions in the region.

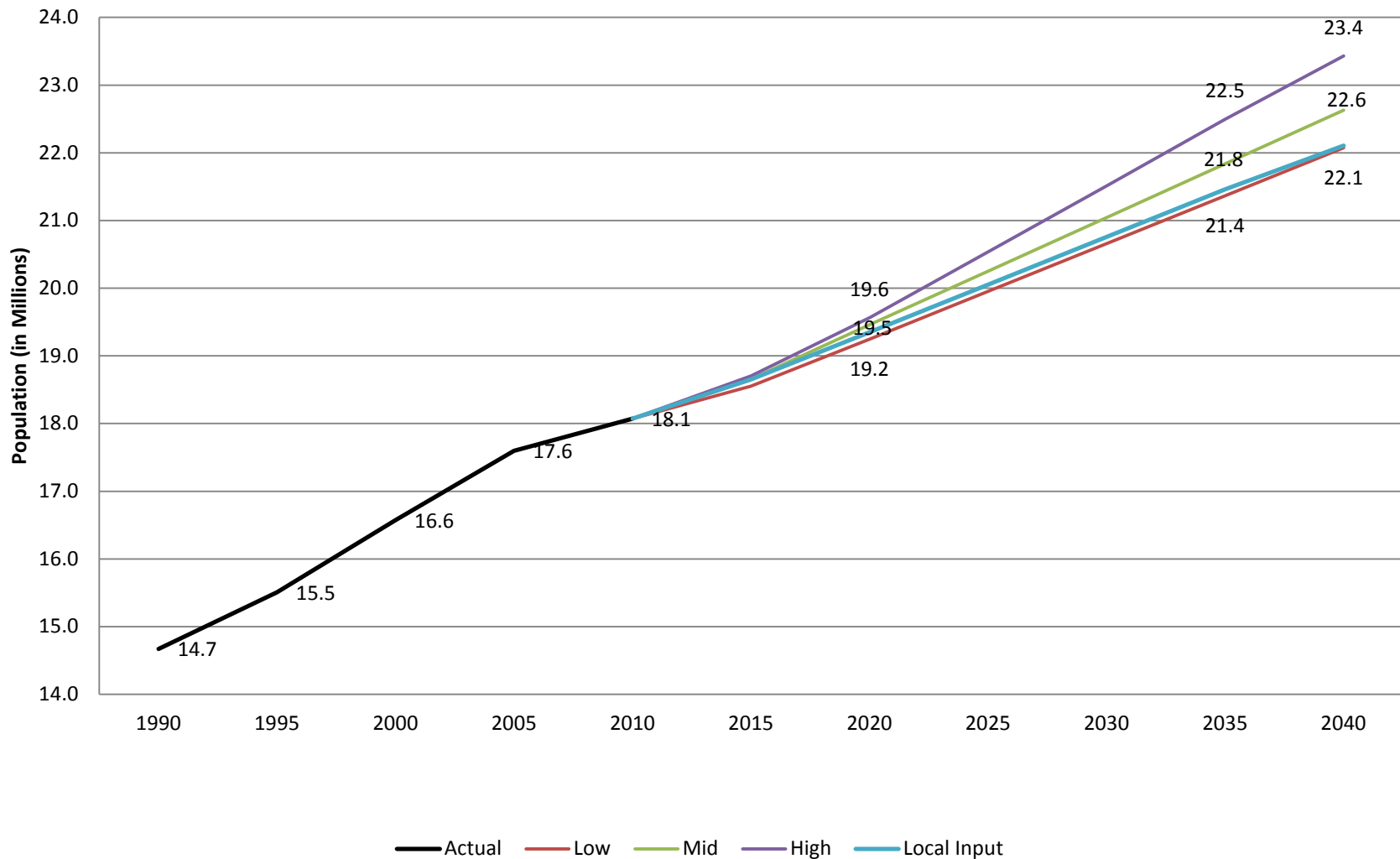
Key Findings from Input Data

- All three growth figures are within the preliminary range of growth forecasts.
- All three growth figures from local jurisdictions are lower than the preliminary mid forecasts, but higher than the preliminary low forecasts, in 2040.
- 2040 regional unemployment rate would be measured at a normal rate, 5.4% for the SCAG region. Population to household (P/H) ratio is 3.0 and consistent with the preliminary mid forecasts. The local input growth forecast at the regional level is found technically sound.

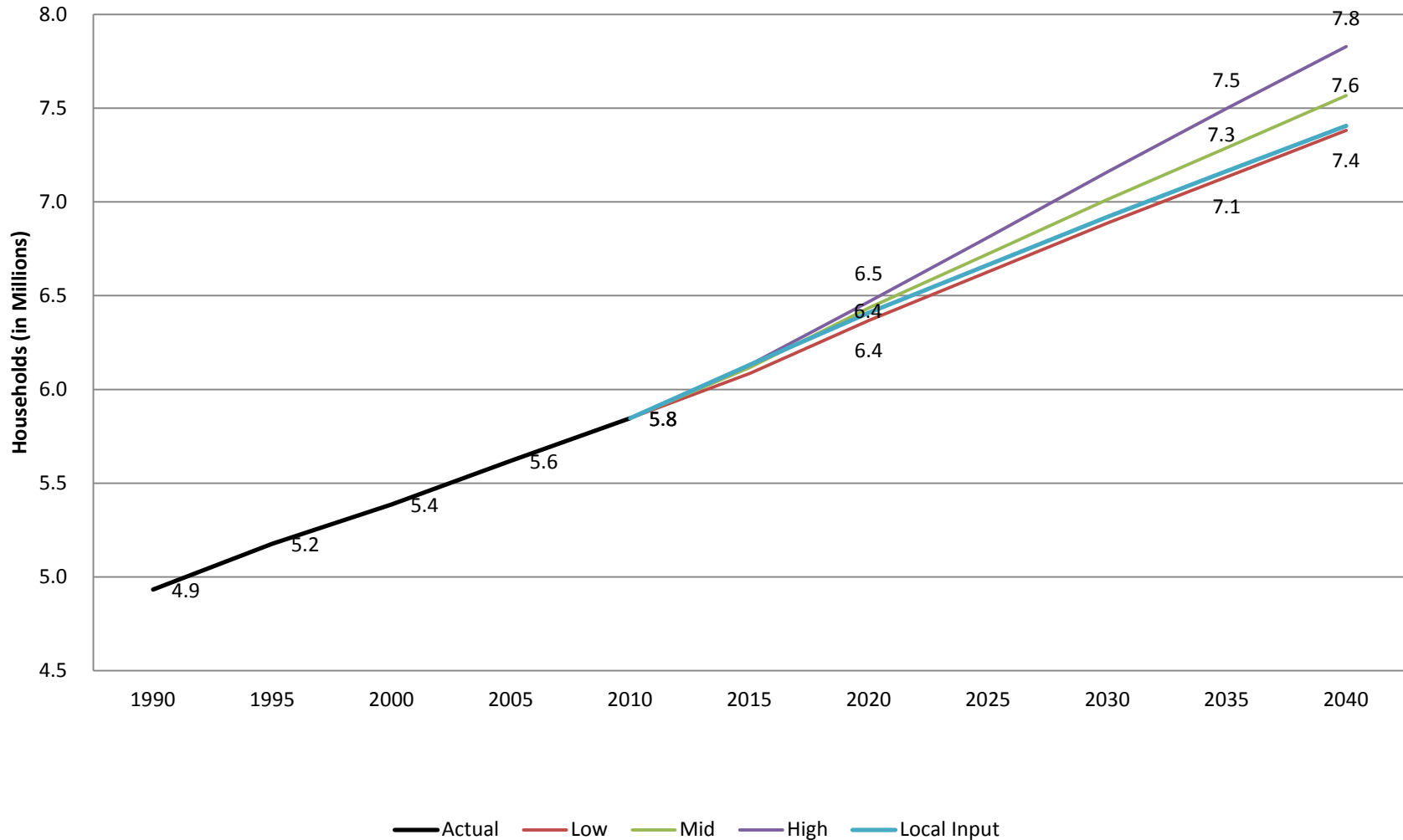
SCAG Region Range of Preliminary Employment Forecasts and Local Input



SCAG Region Range of Preliminary Population Forecasts and Local Input



SCAG Region Range of Preliminary Household Forecasts and Local Input



Thank You



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Item 5 (a): No Attachments



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Item 5 (b) Attachment:

Modeling Post-Processing

Modeling Results Postprocessing

Guoxiong Huang

Presentation to TWG

September, 2014



Link Volume Adjustment Based on Traffic Count



Base year 2008

Future year 2035

2008AADT.xlsx - Excel										
FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER Team Sign in										
D13										
A	B	C	D	E	F	G	H	I	J	
1	Route	County	Postmile	Description	Back Peak Hour	Back Peak Month	Back AADT	Ahead Peak Hour	Ahead Peak Month	Ahead AADT
2	10	RIV	52.342	JEFFERSON STREE/INDIO BOULEVARD	7500	93000	83000	6300	73000	68000

Model output	Caltrans
Weekday volume=96168	AAWT= 83000 AAWDT= 89640
Difference= 89640-96168= - 6528	

Future Year Model
Weekday Volume = 170489



Final Future Year Weekday Volume
170489+ (-6528) = 163961

Subarea Assignment Outputs Adjustment Based on HPMS VMT

County	VC SCCAB	SCAB	MDAB	SSAB	Total
IM	-	-	-	4,092,466	4,092,466
LA	-	208,159,738	7,371,314	-	215,531,052
OR	-	69,173,304	-	-	69,173,304
RV	-	42,567,945	1,364,897	9,575,708	53,508,549
SB	-	34,781,223	18,204,056	-	52,985,279

SAB	AUTOFAC	TRUCKFAC
21	1.053	0.907
22	1.041	0.969
23	1.030	1.265
24	1.139	1.353

Regional Model Outputs

Model VMT by SubAB & Vehicle Type

Caltrans HPMS Database

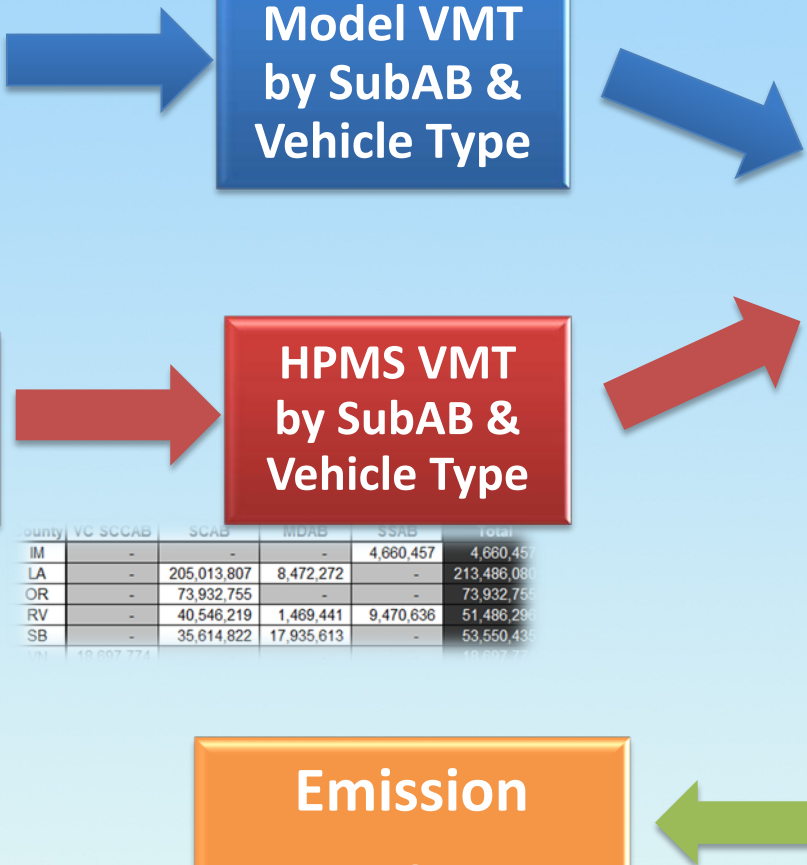
HPMS VMT by SubAB & Vehicle Type

Calculate Ratios of HPMS / Model

County	VC SCCAB	SCAB	MDAB	SSAB	Total
IM	-	-	-	4,660,457	4,660,457
LA	-	205,013,807	8,472,272	-	213,486,079
OR	-	73,932,755	-	-	73,932,755
RV	-	40,546,219	1,469,441	9,470,636	51,486,295
SB	-	35,614,822	17,935,613	-	53,550,435

Apply Ratios to Link Volumes by SubAB & Vehicle Type

Emission Analysis



Questions?

For more information, please contact

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Item 5 (c): No Attachments



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Item 6: No Attachments