



SOUTHERN CALIFORNIA ASSOCIATION of GOVERNMENTS

TECHNICAL WORKING GROUP (TWG)

Thursday, November 19, 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 10-15-15 (Attachment)
2. 2016 RTP/SCS Agenda Outlook (Attachment)
3. 2016 RTP/SCS Policy Committee Meetings Outlook (Attachment)

Information Items

4. Transportation Conformity (Rongsheng Luo) (Attachment)
5. Draft 2016 RTP/SCS Update (Naresh Amatya) (No Attachment)
6. Draft 2016 PEIR Overview (Lijin Sun) (Attachment)



**SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS**

Item 1 Attachment:
Meeting Summary



TECHNICAL WORKING GROUP (TWG)

October 15, 2015

Meeting Summary

The following is a summary of discussions at the Technical Working Group meeting of October 15, 2015.

Receive and File

- 1. Meeting Summary 9-17-15**
- 2. 2016 RTP/SCS Agenda Outlook**
- 3. 2016-2040 Potential Policy Committee Meetings Outlook**

Information Items

4. Draft 2016-2040 RTP/SCS – Model/Tools, Analysis & Results

Dr. Frank Wen, SCAG staff, introduced various staff members, including Guoxiong Huang, Philip Law, and Marco Anderson, who provided key elements of a diverse Draft 2016-2040 RTP/SCS – Model/Tools, Analysis & Results. Among the models highlighted were auto availability, trip generation and distribution, mode choice, heavy-duty truck, highway assignment, and model convergence.



**SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS**

Item 2 Attachment:
2016 RTP/SCS Agenda Outlook

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



**SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS**

Item 3 Attachment:
2016 RTP/SCS Policy Committee Meetings Outlook

**2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS)
Policy Committee Meetings Outlook**

2015 Meeting Dates	Topic	Committee ¹			
		Joint	TC	CEHDC	EEC
March 5	Draft Scenario Planning Matrix		X	X	X
	Environmental Justice Framework		X	X	X
	Public Health Planning & Analysis Framework		X	X	X
	Release of Notice of Preparation of Program Environmental Impact Report (PEIR)				X
April 2	Focus on System Operation and Preservation	X			
May 7	Draft Scenario Planning and SCS Workshops Rollout	General Assembly			
June 4	Active Transportation		X		
	Rail and Transit		X		
	Regional Aviation		X		
	Regional Goods Movement		X		
	2016 South Coast Air Quality Management Plan				X
June 18	Goals/Objectives/Performance Measures	X			
	Scenario Results - Land Use/Urban Form Focus	X			
	Subject Matter Speaker: Jim Madaffer, CTC	X			
July 2	Highways/Arterials		X		
	HOV/HOT/Toll Roads/Express Lanes		X		
	Emerging Technology Consideration in 2016 RTP/SCS		X		
	Active Transportation			X	X
	Environmental Justice, Policy Choices & Mitigations				X
	PEIR Approaches to Mitigation Measures				X
July 23	Regional Aviation		X		
	Highways/Arterials		X		
August 6	Summary of Findings from Workshops	X			
	PEIR Approaches to Alternatives	X			
	Affordable Housing Presentation by Steve PonTell	X			
	Regional Aviation Forecasts		X		
	Highways/Arterials		X		
August 20	Transportation Finance Overview	X			
	Potential Expert Subject Matter Speakers	X			
September 3	Draft Transportation Finance Strategy		X		
	Draft Transit and Passenger Rail Strategy		X		
	Draft Highway and Arterial Framework		X		
	Growth Forecast: Local Review and Input			X	
	Environmental Justice Analysis Update				X
	PEIR Update				X
October 8	Proposed Regional Express Lane Network		X		
	Proposed Goods Movement Strategies		X		
	Proposed Active Transportation Plan Investment Framework		X		
	Proposed Regional Aviation Ground Access Improvement Framework		X		
	Proposed Air Cargo Forecast		X		
	Proposed Public Health Guiding Principles and Framework		X	X	X
	Policy Growth Forecast (PGF) Guiding Principles and Framework			X	
	PEIR: Mitigation Measures, Guiding Principles, and Performance-Based Approach				X

**2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS)
Policy Committee Meetings Outlook**

2015 Meeting Dates	Topic	Committee ¹			
		Joint	TC	CEHDC	EEC
November 5	Review and Consider Staff Recommendation on all Elements of Draft 2016 RTP/SCS	X			
	PEIR Findings, Draft Technical Studies, and Draft PEIR	X			
December 3	Release the Draft 2016 RTP/SCS for a 55-Day Public Review and Comment Period	Regional Council			
	Release the Draft PEIR for the 2016 RTP/SCS for a 45-Day Public Review and Comment Period				
	Transmittal of Draft 2016 South Coast Air Quality Management Plan Appendix IV-C				
March 3	Draft 2016 RTP/SCS and Draft PEIR - Summary of Public Comments	X			
	Review Draft 2016 RTP/SCS and Draft PEIR and Consider Recommending for Regional Council Adoption	X			
April 7	Review Draft 2016 RTP/SCS and Draft PEIR and Consider Adoption	Regional Council			

¹ Committee abbreviations include (in order of appearance): Joint (Joint Policy Committee); TC (Transportation Committee); CEHDC (Community, Economic & Human Development Committee); and EEC (Energy & Environment Committee).



SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS

Item 4 Attachment:
Transportation Conformity



DRAFT TRANSPORTATION CONFORMITY ANALYSIS

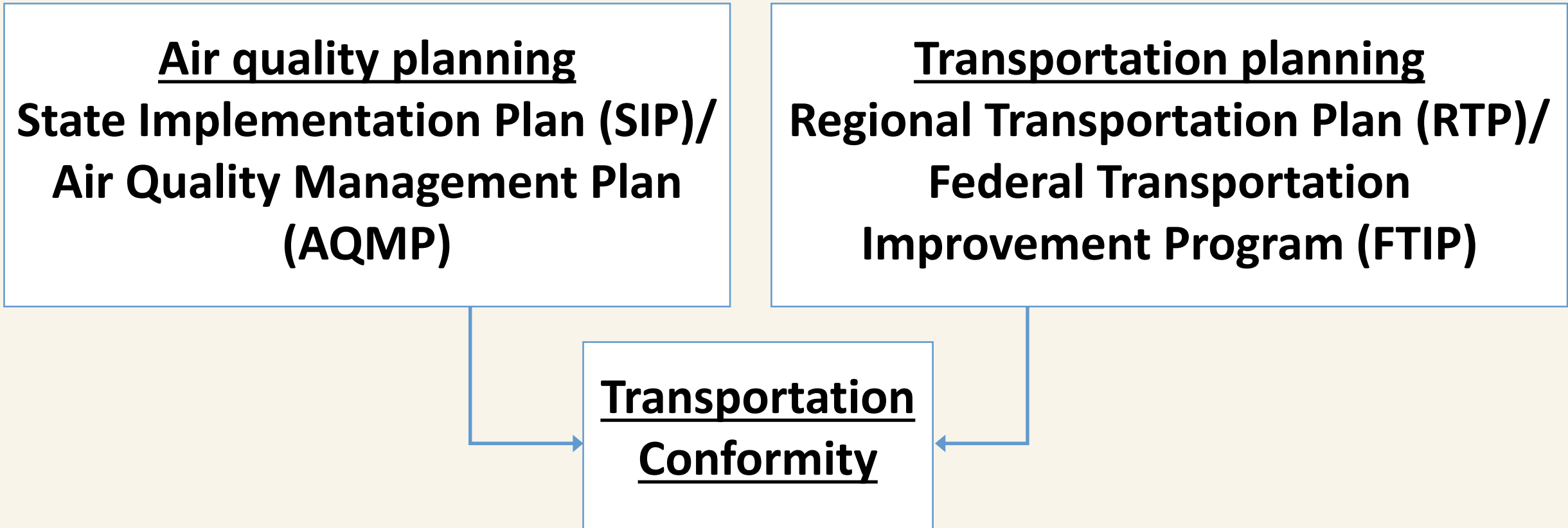
A Presentation to the Transportation Working Group
November 19, 2015

Rongsheng Luo
Program Manager, Air Quality and Conformity
Southern California Association of Governments

Presentation Outline

- **Background**
- Regional Emissions Analysis
- Fiscal Constraint Analysis
- Timely Implementation of TCMs Analysis
- Interagency Consultation and Public Involvement Analysis
- Transportation Conformity Findings
- Next Steps

What Is Transportation Conformity?



What Needs to Meet Conformity?

- **Regional Transportation Plan (RTP)**
- **Federal Transportation Improvement Program (FTIP)**
- **Federal Funded or Supported Transportation Projects**

How Often Is Conformity Required?

- **RTP and FTIP:**
 - ✓ **Every four years**
 - ✓ **For a significant RTP and FTIP amendment**
 - ✓ **When EPA approves new SIP emissions budget**
 - ✓ **When EPA promulgates a new national ambient air quality standard (NAAQS)**
- **Federal Funded or Supported Transportation Projects:**
 - ✓ **As needed**

Who Makes Conformity Determination?

- **MPO's Governing Board (the Regional Council):**
Proposed conformity determination
- **Federal Highway Administration (FHWA) and
Federal Transit Administration (FTA):**
Final conformity determination

What Areas Are Subject to Conformity?

- **Every Nonattainment and Maintenance Areas for Transportation Related Criteria Pollutants:**
 - ✓ **Carbon Monoxide (CO)**
 - ✓ **Nitrogen Dioxide (NO₂)**
 - ✓ **Ozone**
 - ✓ **Particulate Matter of 2.5 Microns or Less (PM_{2.5})**
 - ✓ **Particulate Matter of 10 Microns or Less (PM₁₀)**

What Are the Roles of Involved Agencies?

- **Federal Agencies:**
 - ✓ U.S. Environmental Protection Agency (EPA)
 - ✓ FHWA/FTA
- **State Agencies:**
 - ✓ California Air Resources Board (ARB)
 - ✓ California Department of Transportation (Caltrans)
- **Regional/Local Agencies:**
 - ✓ SCAG
 - ✓ Air Districts
 - ✓ County Transportation Commissions

What Are Regional Conformity Requirements?

- **Regional Emissions Analysis**
- **Financial Constraint Analysis**
- **Timely Implementation of Transportation Control Measures (TCMs) Analysis**
- **Interagency Consultation and Public Involvement Analysis**
- **For FTIP: Consistency with RTP**

What Are Consequences of Conformity Failure?

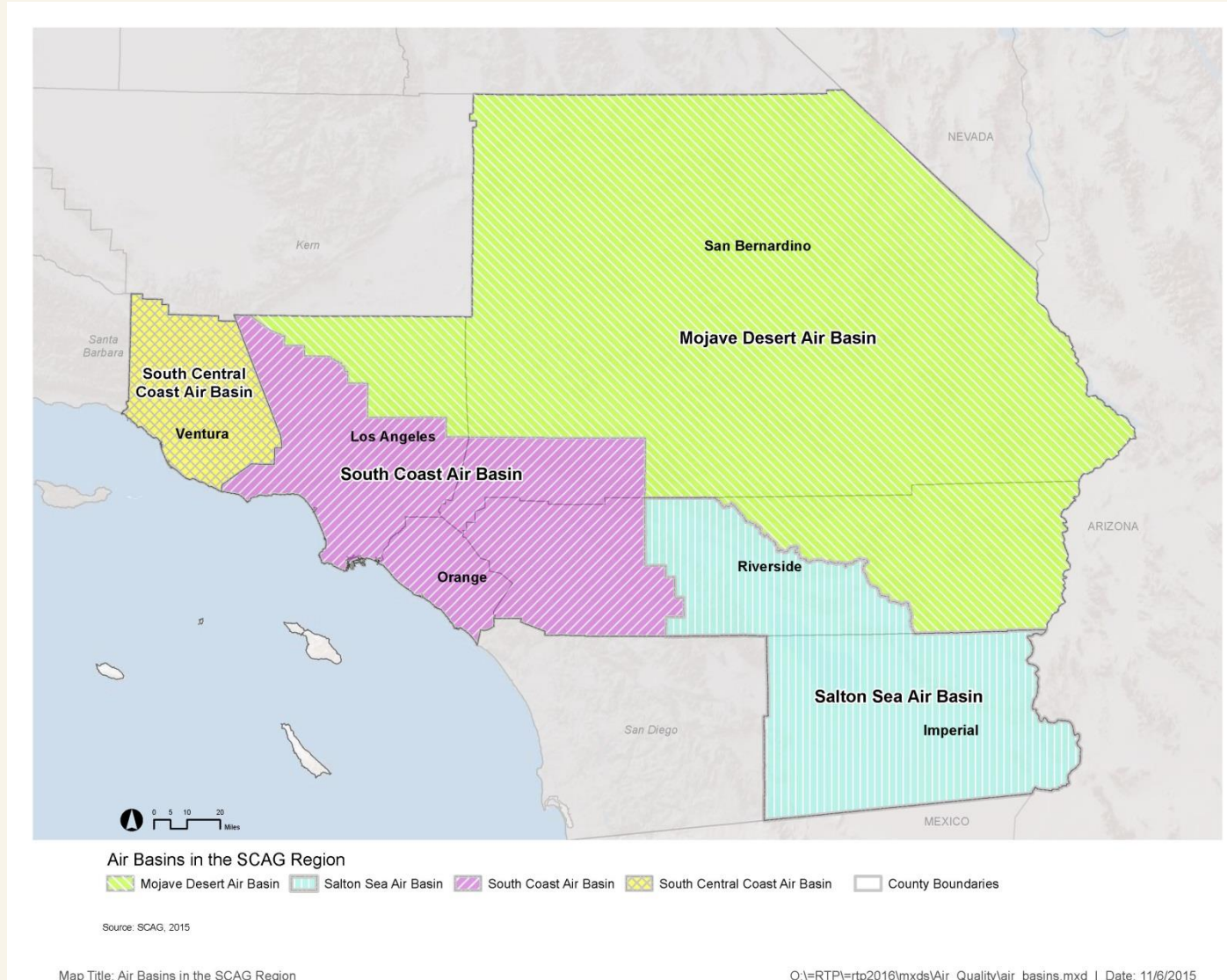
- **Conformity Freeze/Grace Period:**
 - ✓ **Projects in the current conforming RTP/FTIP can move forward**
 - ✓ **No new RTP/FTIP or amendment**
- **Conformity Lapse:**
 - ✓ **Only exempt projects and TCM projects can move forward**
 - ✓ **No new RTP/FTIP or amendment**

SCAG Region

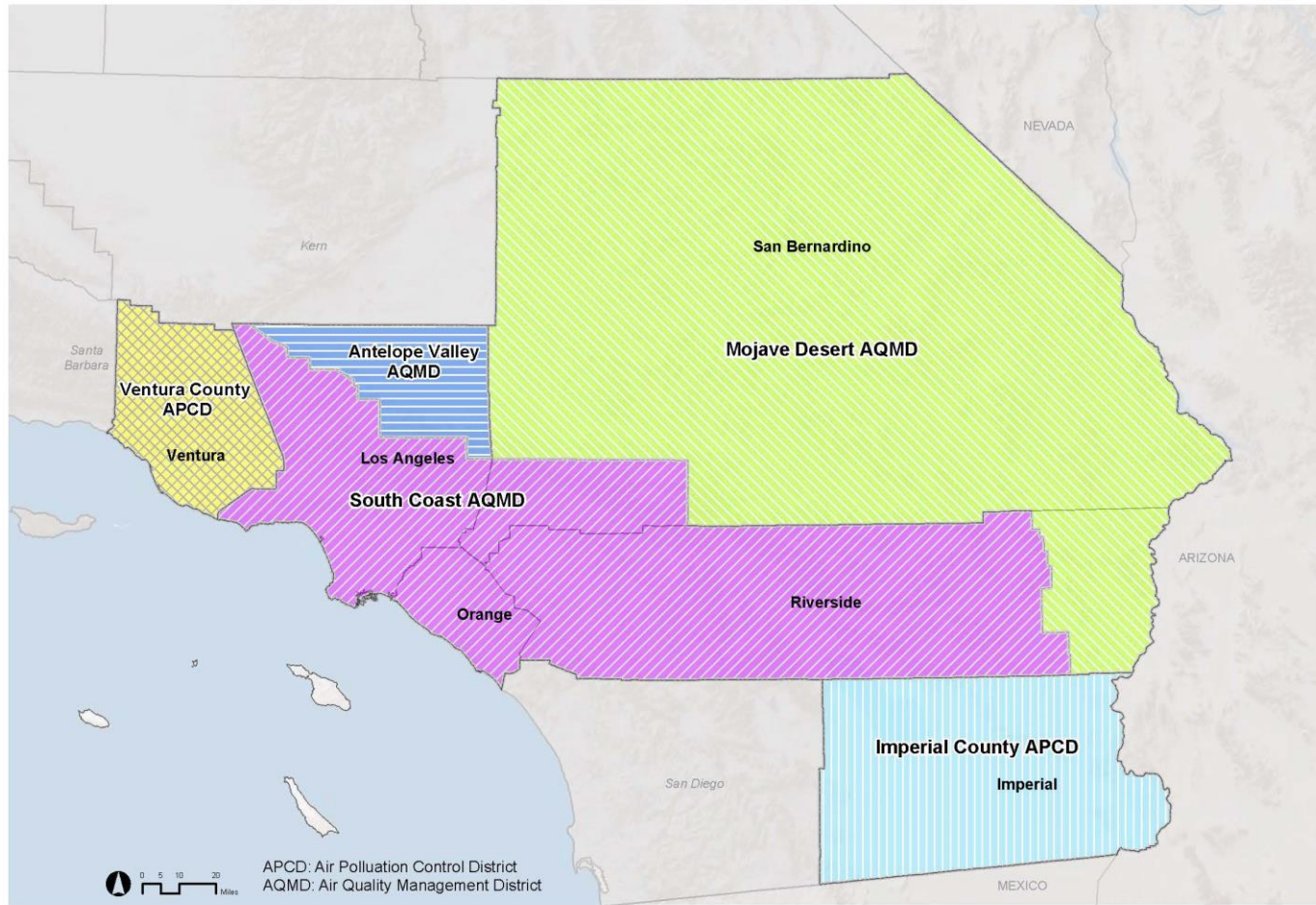
- **Six Counties, 15 Subregions, and 191 Cities**
- **Four Air Basins**
- **Five Air Districts**
- **19 Nonattainment and Maintenance Areas**



Four Air Basins



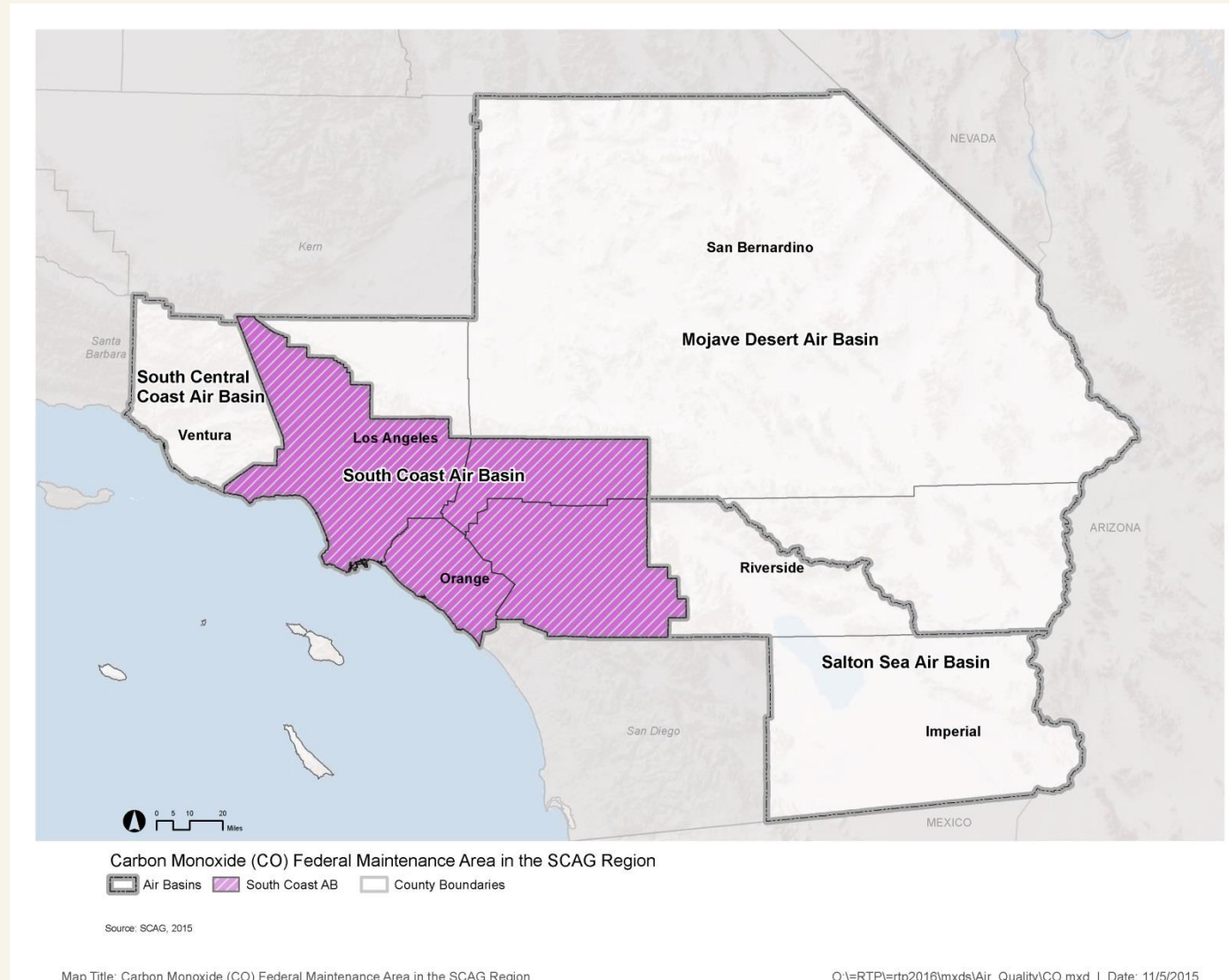
Five Air Districts



Air Districts in the SCAG Region
AVAQMD ICAPCD MDAQMD SCAQMD VCAPCD County Boundaries

Source: SCAG, 2015

One CO Maintenance Area



One NO₂ Maintenance Area

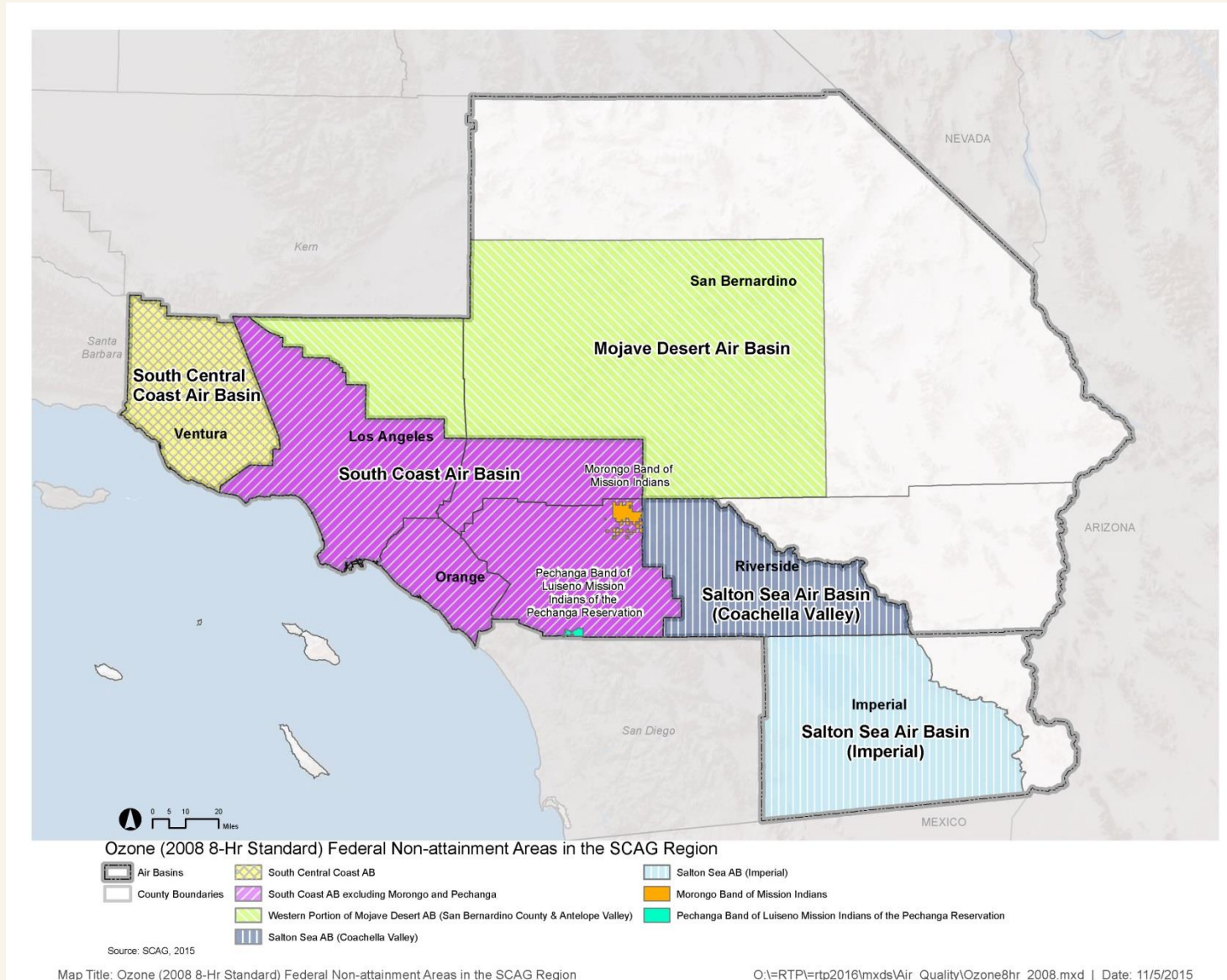


Nitrogen Dioxide (NO₂) Federal Maintenance Area in the SCAG Region

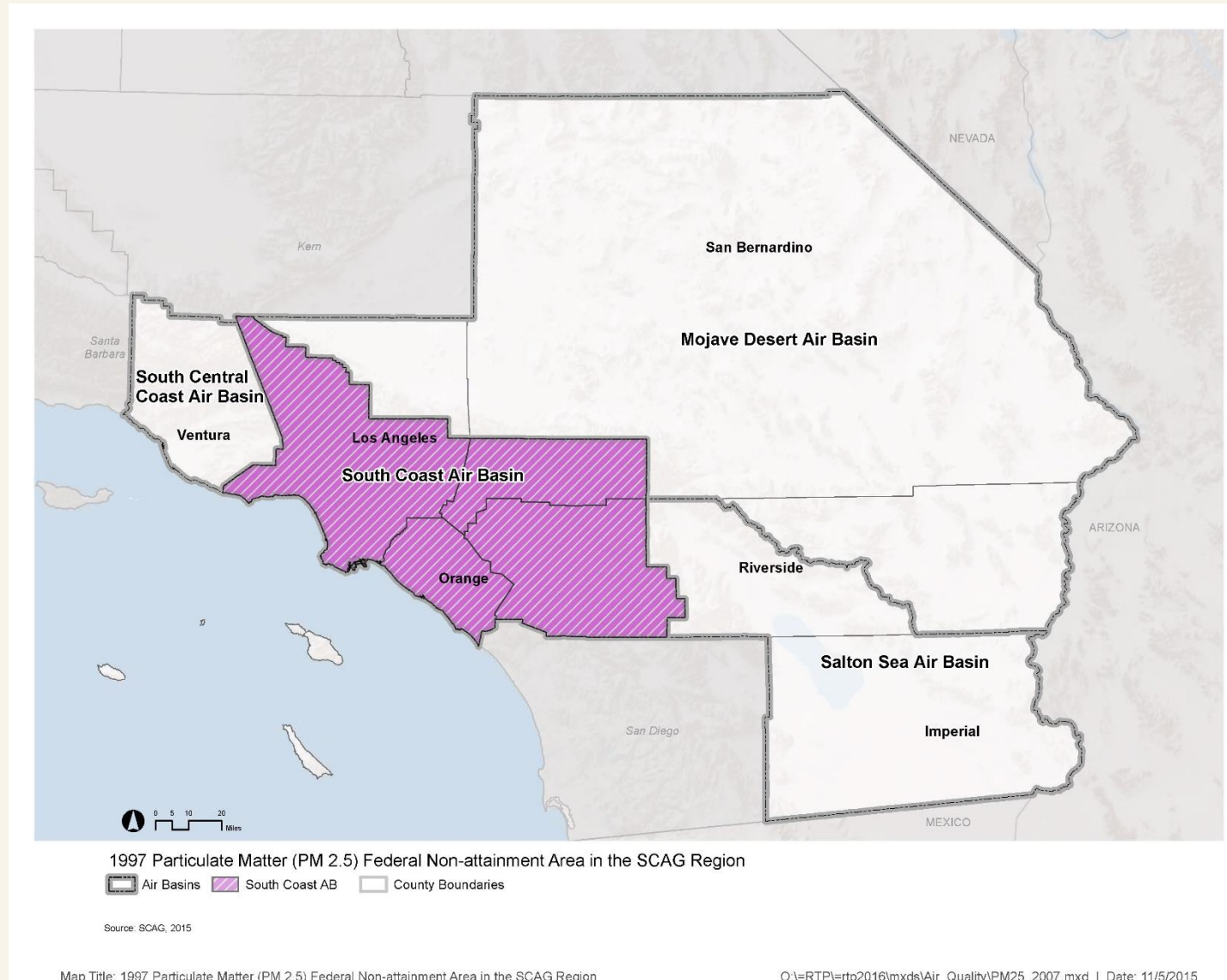
□ Air Basins ▨ South Coast AB □ County Boundaries

Source: SCAG, 2015

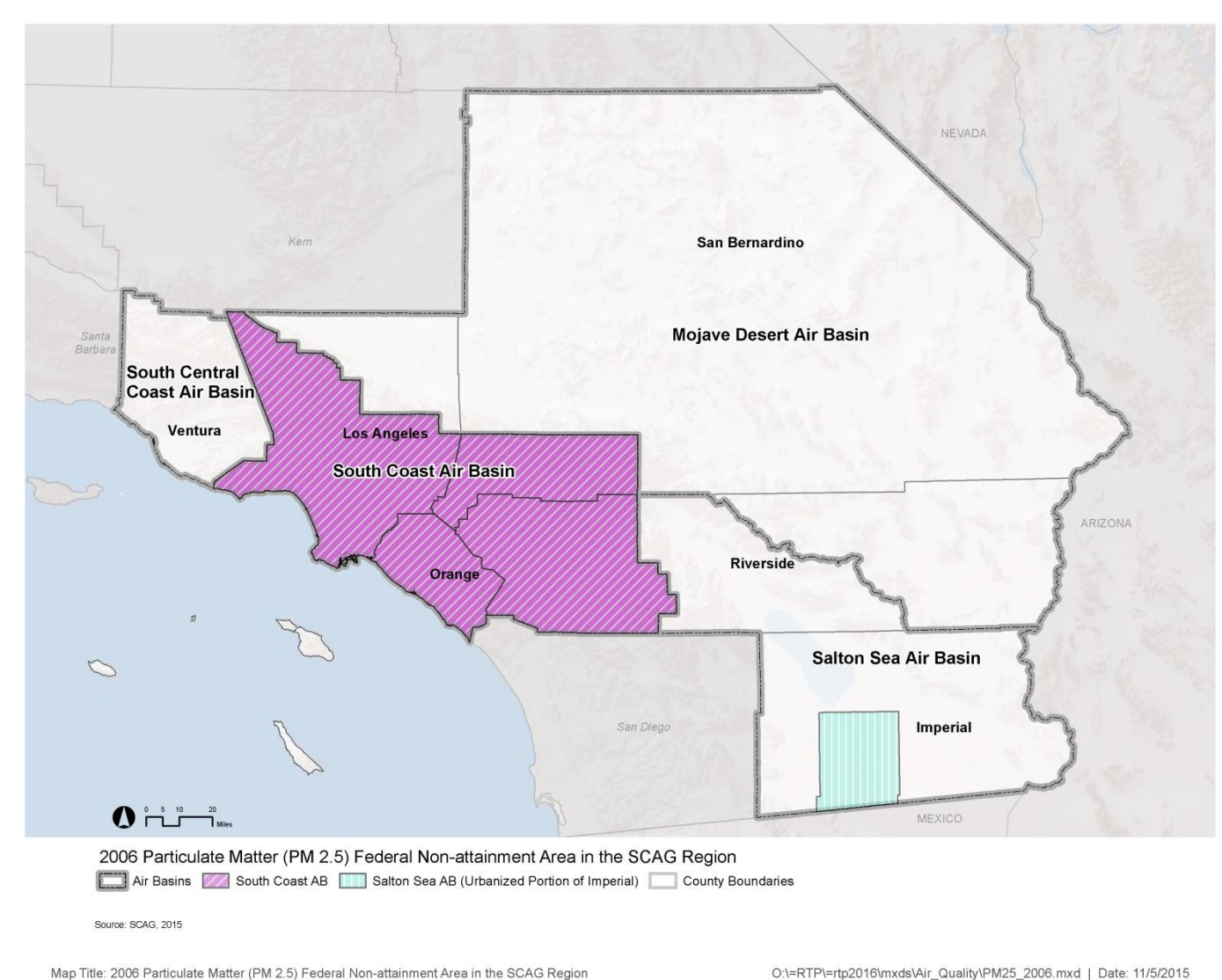
Seven Ozone Nonattainment Areas



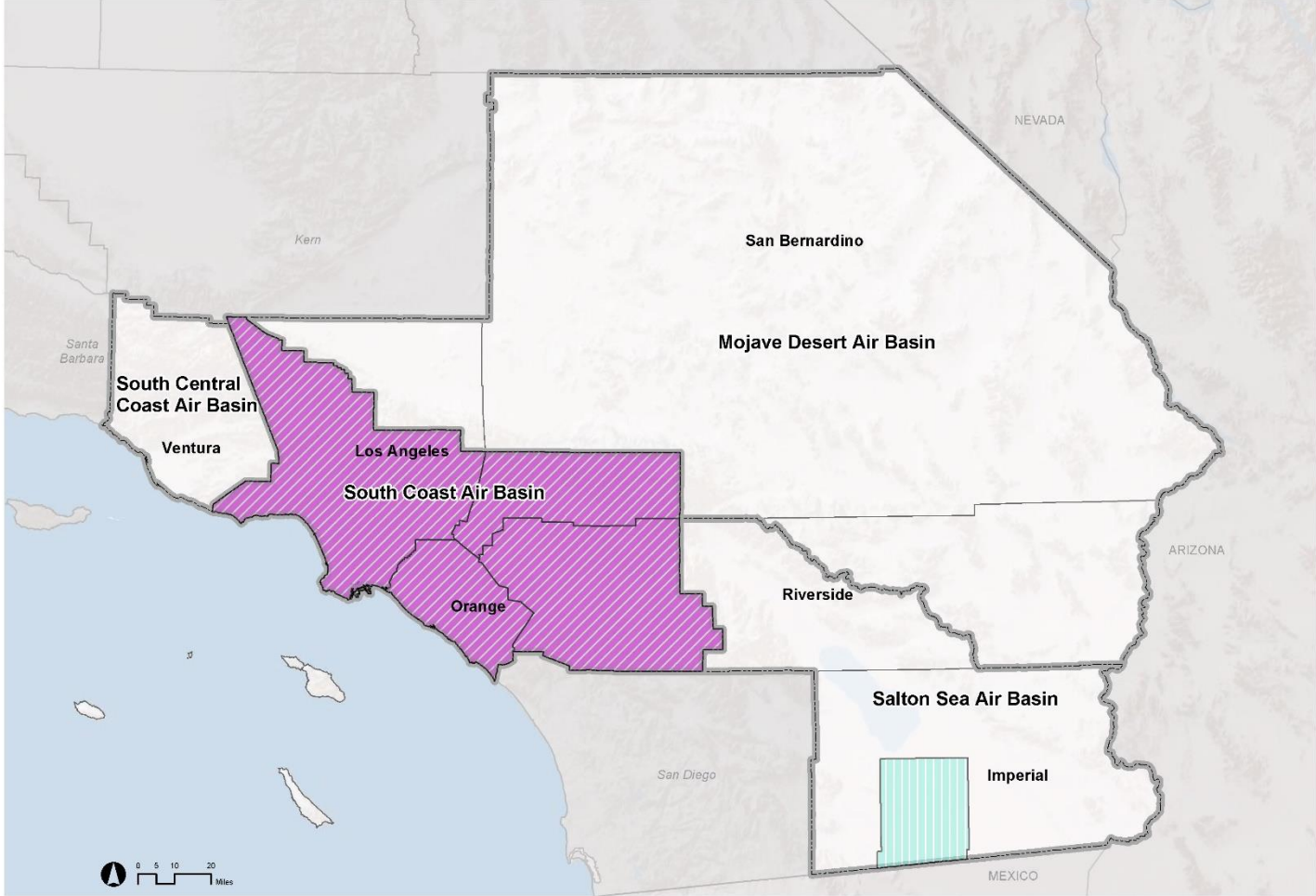
One 1997 PM_{2.5} NAAQS Nonattainment Area



Two 2006 PM_{2.5} NAAQS Nonattainment Areas



Two 2012 PM_{2.5} NAAQS Nonattainment Areas

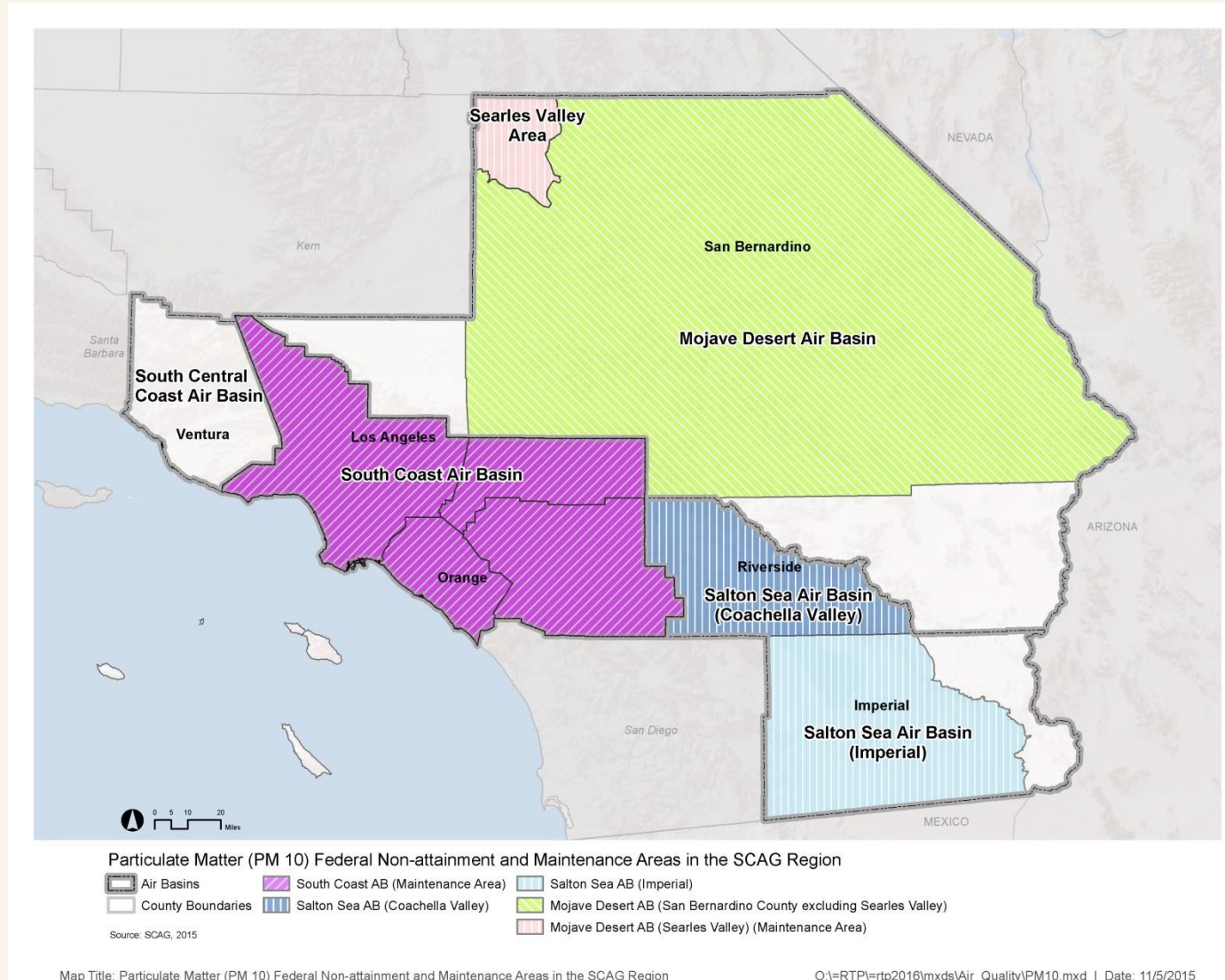


2012 Particulate Matter (PM 2.5) Federal Non-attainment Area in the SCAG Region

Air Basins South Coast AB Salton Sea AB (Urbanized Portion of Imperial) County Boundaries

Source: SCAG, 2015

Five PM₁₀ Nonattainment/Maintenance Areas



Presentation Outline

- Background
- **Regional Emissions Analysis**
- Fiscal Constraint Analysis
- Timely Implementation of TCMs Analysis
- Interagency Consultation and Public Involvement Analysis
- Transportation Conformity Findings
- Next Steps

Planning Assumptions and Modeling

- **Draft Plan Growth Forecast**
- **Draft Plan Transportation Policies, Programs, and Projects**
- **Regional Travel Demand Model**
- **EMFAC2014 (Anticipated EPA Approval by End of 2015)
(EMFAC2011)**

Regional Emissions Analysis

- **Emissions Budget Test Is Required for Each Nonattainment and Maintenance Area with Emissions Budget**
- **Interim (Build vs. No-Build) Emissions Test Is Required for Each Nonattainment and Maintenance Area without Emissions Budget**
- **Plan Emissions Values Follow Rounding Convention Used by ARB to Set the Budget**

Applicable Emissions Budgets

- **Ventura County Portion of SCCAB:**
 - ✓ **2008 8-hour Ozone Early Progress Plan**
- **SCAB:**
 - ✓ **2007 Ozone SIP (budgets effective 4/30/2012)**
 - ✓ **2007 PM2.5 SIP (budgets effective 1/9/2012)**
 - ✓ **2007 CO SIP (Maintenance Plan) (budgets effective 6/11/2007)**
 - ✓ **2007 NO2 SIP (Maintenance Plan) (budgets effective 1/4/2010)**
 - ✓ **2010 PM10 SIP (Maintenance Plan) (budgets effective 7/26/2013)**

Applicable Emissions Budgets (cont.)

- **Riverside County Portion of SSAB (Coachella Valley):**
 - ✓ **2008 8-Hour Ozone Early Progress Plan (using budgets found adequate by EPA May 2008)**
 - ✓ **2003 PM10 SIP**
- **Western MDAB:**
 - ✓ **2008 8-Hour Ozone Early Progress Plan**
- **Imperial County Portion of SSAB:**
 - ✓ **2008 8-Hour Ozone Early Progress Plan**

Areas without Emissions Budgets

- **San Bernardino County Portion of MDAB (PM10)**
- **Searles Valley Portion of MDAB (PM10)**
- **Imperial County Portion of SSAB (PM2.5 and PM10)**

Summary of Regional Emissions Analysis

- **Regional Emissions Analysis Has Been Performed with Both EMFAC2014 and EMFAC2011**
- **Once EMFAC2014 Is Approved by U.S. EPA, EMFAC2014 Emissions Tables Supersede EMFAC2011 Emissions Tables**
- **Summary Emissions Tables Presented Are Based on EMFAC2014**

Ventura County Portion of SCCAB

Pollutant		2020	2030	2040			
ROG*	Budget	13	13	13			
	RTP	5	3	2			
Budget – RTP		8	10	11			
NOx	Budget	19	19	19			
	RTP	6	3	3			
Budget – RTP		13	16	16			
* Reactive Organic Gases							
South Central Coast Air Basin – Ventura County Portion							
Table 21 2008 8-Hour Ozone (Summer Planning Emissions [Tons/Day])							

South Coast Air Basin (Ozone)

Pollutant		Nonattainment Area	2017	2020	2023	2031	2040
ROG	Budget	SCAB	119	108	99	99	99
	RTP	Morongo	0.5	0.4	0.3	0.2	0.2
		Pechanga	0.1	0.1	0.1	0.0	0.0
		SCAB excluding Morongo and Pechanga	102.1	79.3	67.3	49.2	36.5
		Sum	102.7	79.8	67.7	49.4	36.7
		SCAB	103	80	68	50	37
		Budget – Plan	16	28	31	49	62
NOx	Budget	SCAB	224	185	140	140	140
	RTP	Morongo	2.3	1.8	1.1	0.7	0.6
		Pechanga	0.9	0.7	0.5	0.3	0.2
		SCAB excluding Morongo and Pechanga	180.9	137.6	86.3	63.9	59.2
		Sum	184.1	140.1	87.9	64.9	60.0
		SCAB	185	141	88	65	60
		Budget – Plan	39	44	52	75	80

South Coast Air Basin

Table 22

2008 8-Hour Ozone (Summer Planning Emissions [Tons/Day])

South Coast Air Basin (1997/2006/2012 PM_{2.5})

Pollutant		2019	2021	2030	2040		
ROG	Budget	132	132	132	132		
	RTP	76	72	48	35		
Budget – RTP		56	60	84	97		
NO _x	Budget	290	290	290	290		
	RTP	165	135	71	64		
Budget – RTP		125	155	219	226		
PM _{2.5}	Budget	35	35	35	35		
	RTP	10	8	4	2		
Budget – RTP		25	27	31	33		
South Coast Air Basin							
Table 23		1997, 2006, and 2012 PM _{2.5} (Annual Emissions [Tons/Day])					

South Coast Air Basin (PM₁₀)

Pollutant		2020	2030	2040
ROG	Budget	110	81	81
	RTP	73	47	32
Budget – RTP		37	34	49
NO _x	Budget	180	116	116
	RTP	149	71	64
Budget – RTP		31	45	52
PM ₁₀	Budget	164	175	175
	RTP	85	90	89
Budget – RTP		79	85	86
South Coast Air Basin				
Table 24	PM10 (Annual Emissions [Tons/Day])			

South Coast Air Basin (CO)

Pollutant		2020	2030	2040
CO	Budget	2,137	2,137	2,137
	RTP	572	318	233
Budget – RTP		1,565	1,819	1,904
South Coast Air Basin				
Table 25	CO (Winter Emissions [Tons/Day])			

South Coast Air Basin (NO₂)

Pollutant		2020	2030	2040
NO ₂	Budget	680	680	680
	RTP	148	70	62
Budget – RTP		532	610	618
South Coast Air Basin				
Table 26	NO ₂ (Winter Emissions [Tons/Day])			

Western Mojave Desert Air Basin (WMDAB)

Pollutant		2020	2026	2031	2040		
ROG	Budget	22	22	22	22		
	RTP	8	6	6	5		
Budget – RTP		14	16	16	17		
NO _x	Budget	77	77	77	77		
	RTP	18	10	9	11		
Budget – RTP		59	67	68	66		

Western Mojave Desert Air Basin – Antelope Valley
 Portion of Los Angeles County and San Bernardino
 County Portion of MDAB

Table 27 2008 8-Hour Ozone (Summer Planning Emissions [Tons/Day])

MDAB – SB County Portion Excluding Searles Valley

		2021	2031	2040
PM ₁₀	No Build	9.9	12.3	14.3
	Build	8.9	10.9	12.7
No Build – Build		1.0	1.4	1.6
Mojave Desert Air Basin – San Bernardino County Portion Excluding Serles Valley				
Table 28	PM ₁₀ (Annual Emissions [Tons/Day])			

MDAB – Searles Valley

		2021	2031	2040	
PM ₁₀	No Build	0.0	0.0	0.0	
	Build	0.0	0.0	0.0	
No Build – Build		0.0	0.0	0.0	
Mojave Desert Air Basin – Searles Valley Portion					
Table 29	PM ₁₀ (Annual Emissions [Tons/Day])				

SSAB – Coachella Valley (Ozone)

Pollutant		2021	2026	2031	2040		
ROG	Budget	7	7	7	7		
	RTP	4	3	3	3		
Budget – RTP		3	4	4	4		
NO _x	Budget	26	26	26	26		
	RTP	8	5	4	5		
Budget – RTP		18	21	22	21		
Salton Sea Air Basin – Coachella Valley Portion							
Table 30 2008 8-Hour Ozone (Summer Planning Emissions [Tons/Day])							

SSAB – Coachella Valley (PM₁₀)

		2021	2031	2040	
PM ₁₀	Budget	10.9	10.9	10.9	
	RTP	5.1	5.6	5.8	
Budget – RTP		5.8	5.3	5.1	
Note: budget set to one decimal place by 2003 Coachella SIP.					
Salton Sea Air Basin – Coachella Valley Portion					
Table 31	PM ₁₀ (Annual Emissions [Tons/Day])				

SSAB – Imperial County (Ozone)

Pollutant		2017	2021	2031	2040	
ROG	Budget	7	7	7	7	
	RTP	4	3	3	2	
Budget – RTP		3	4	4	5	
NO _x	Budget	17	17	17	17	
	RTP	7	5	4	4	
Budget – RTP		10	12	13	13	
Salton Sea Air Basin – Imperial County Portion						
Table 32	2008 Ozone (Summer Planning Emissions [Tons/Day])					

SSAB – Imperial County (2006/2012 PM_{2.5})

Pollutant		2021	2031	2040		
NO _x	No Build	2.4	1.6	1.6		
	Build	2.4	1.5	1.6		
No Build – Build		0.0	0.1	0.0		
PM _{2.5}	No Build	0.3	0.3	0.3		
	Build	0.2	0.2	0.2		
No Build – Build		0.1	0.1	0.1		
Salton Sea Air Basin – Imperial County Portion						
Table 33	2006 and 2012 PM _{2.5} (Annual Emissions [Tons/Day])					

SSAB – Imperial County (PM₁₀)

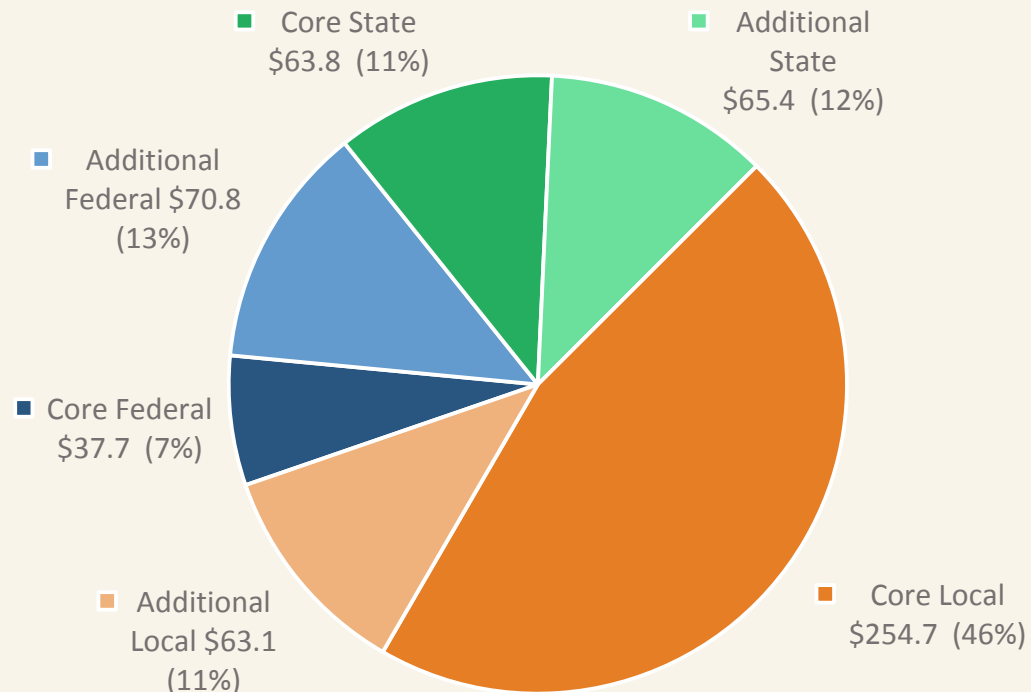
Pollutant		2021	2031	2040	
PM ₁₀	No Build	1.4	1.6	1.8	
	Build	1.0	1.2	1.4	
No Build – Build		0.4	0.4	0.4	
Salton Sea Air Basin – Imperial County Portion					
Table 34	PM ₁₀ (Annual Emissions [Tons/Day])				

Presentation Outline

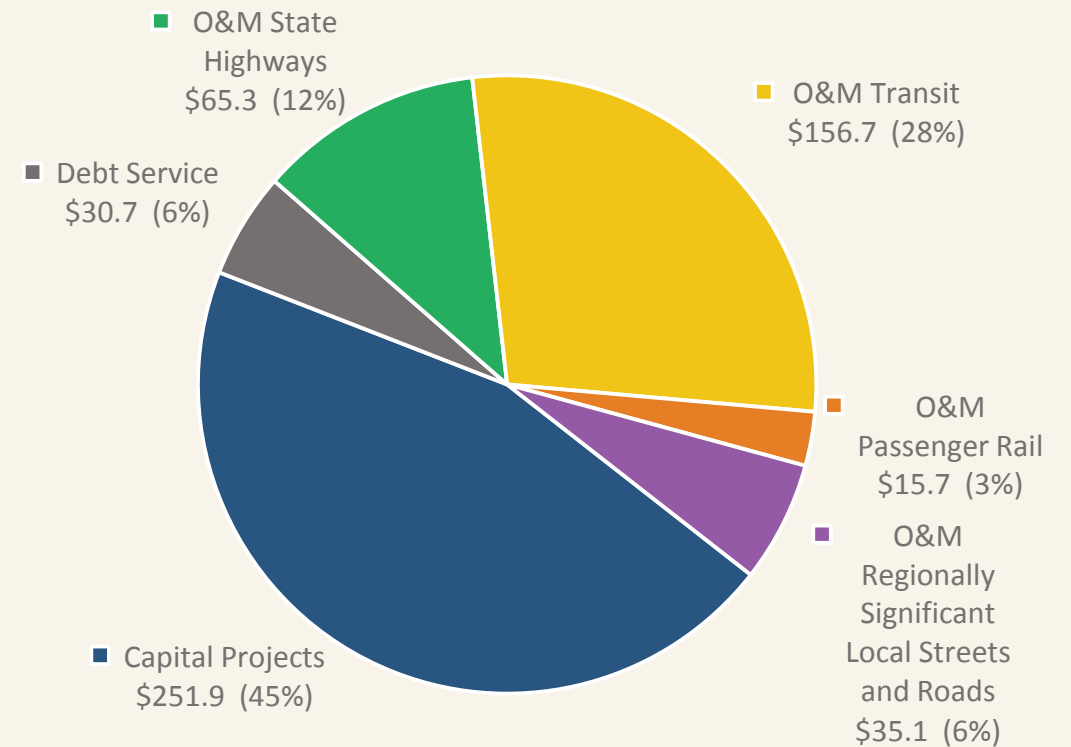
- Background
- Regional Emissions Analysis
- **Fiscal Constraint Analysis**
- Timely Implementation of TCMs Analysis
- Interagency Consultation and Public Involvement Analysis
- Transportation Conformity Findings
- Next Steps

Financial Constraint Analysis

FY16-FY40 RTP/SCS Revenue Sources
(\$555.4 billion in nominal dollars)



FY16-FY40 RTP/SCS Expenditures
(\$555.4 billion in nominal dollars)



Documented in Draft 2016-2040 RTP/SCS Transportation Finance Appendix

Note: numbers may not sum to total due to rounding

Presentation Outline

- Background
- Regional Emissions Analysis
- Fiscal Constraint Analysis
- **Timely Implementation of TCMs Analysis**
- Interagency Consultation and Public Involvement Analysis
- Transportation Conformity Findings
- Next Steps

Timely Implementation of TCMs

- **Applicable TCM SIPs:**

- SCAB Ozone SIP

- a. HOV & HOT lanes and pricing alternatives
 - b. Transit, intermodal transfer, & active transportation
 - c. Information-based transportation strategies

- Ventura County Ozone SIP

- a. Ridesharing
 - b. Non-motorize strategies
 - c. Traffic flow improvement strategy
 - d. Land use strategy transit strategy

Timely Implementation of TCMs (cont.)

- **TCMs Are Included in 2015 FTIP:**
 - ✓ **with fund programmed for right-of-way or construction in first two years**
- **Implementation Status Documented for Each TCM**
 - ✓ **On schedule**
 - ✓ **Overcoming implementation obstacles**
 - ✓ **Under substitution**

Presentation Outline

- Background
- Regional Emissions Analysis
- Fiscal Constraint Analysis
- Timely Implementation of TCMs Analysis
- **Interagency Consultation and Public Involvement Analysis**
- Transportation Conformity Findings
- Next Steps

Interagency Consultation and Public Involvement

- **TCWG – Ongoing RTP and FTIP Interagency Consultation**
- **Extensive Public Outreach**
- **Public Hearings by SCAG’s RC and Policy Committees**
- **Documented in Draft 2016-2040 RTP/SCS
Public Participation and Consultation Appendix**

Presentation Outline

- Background
- Regional Emissions Analysis
- Fiscal Constraint Analysis
- Timely Implementation of TCMs Analysis
- Interagency Consultation and Public Involvement Analysis
- **Transportation Conformity Findings**
- Next Steps

Transportation Conformity Determination

- **Draft 2016-2040 RTP/SCS and 2015 FTIP Consistency Amendment #15-12 Demonstrate Conformity:**
 - ✓ **Meet Regional Emissions Tests**
 - ✓ **Meet Financial Constraint Test**
 - ✓ **Meet Timely Implementation of TCMs Test**
 - ✓ **Meet Interagency Consultation and Public Involvement Test**

Presentation Outline

- Background
- Regional Emissions Analysis
- Fiscal Constraint Analysis
- Timely Implementation of TCMs Analysis
- Interagency Consultation and Public Involvement Analysis
- Transportation Conformity Findings
- **Next Steps**

Next Steps

- **December 3, 2015: RC Approval of Release for a 55-day Public Review**
- **April 7, 2016: RC Adoption**
- **June 4, 2016: FHWA/FTA Approval**

Questions?



Thank you!

Learn more by visiting www.scag.ca.gov.





**SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS**

Item 5: No Attachment
Draft 2016 RTP/SCS Update



**SOUTHERN CALIFORNIA
ASSOCIATION of GOVERNMENTS**

Item 6 Attachment:
Draft 2016 RTP/SCS PEIR Overview



2016 2040 RTPSCS

PROGRAM ENVIRONMENTAL IMPACT REPORT

Technical Working Group

A Presentation by the Southern California Association of Governments
November 19, 2015

Draft Program Environmental Impact Report

Framework and Basis for a Program Environmental Impact Report (PEIR)

California Environmental Quality Act (CEQA)

- SCAG is the lead agency to prepare a PEIR
- A programmatic, region-wide assessment of potential significant environmental effects
- Assesses direct and indirect, growth-inducing and cumulative effects
- Considers a range of reasonable alternatives
- Identifies feasible mitigation measures

Energy & Environment Committee

- Authorized the release of the Notice of Preparation of the Draft PEIR on March 5, 2015
- Reviewed framework, summary of contents and approaches to major components of the Draft PEIR between July and November, 2015
- Approved Guiding Principles and performance standards-based approach to mitigation measures

Draft Program Environmental Impact Report

Scope of Impact Analysis: 18 Resource Categories

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions and Climate Change
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Mineral Resources
- Population, Housing, and Employment
- Recreation
- Transportation, Traffic, and Safety
- Public Services
- Utilities and Services Systems

Draft Program Environmental Impact Report

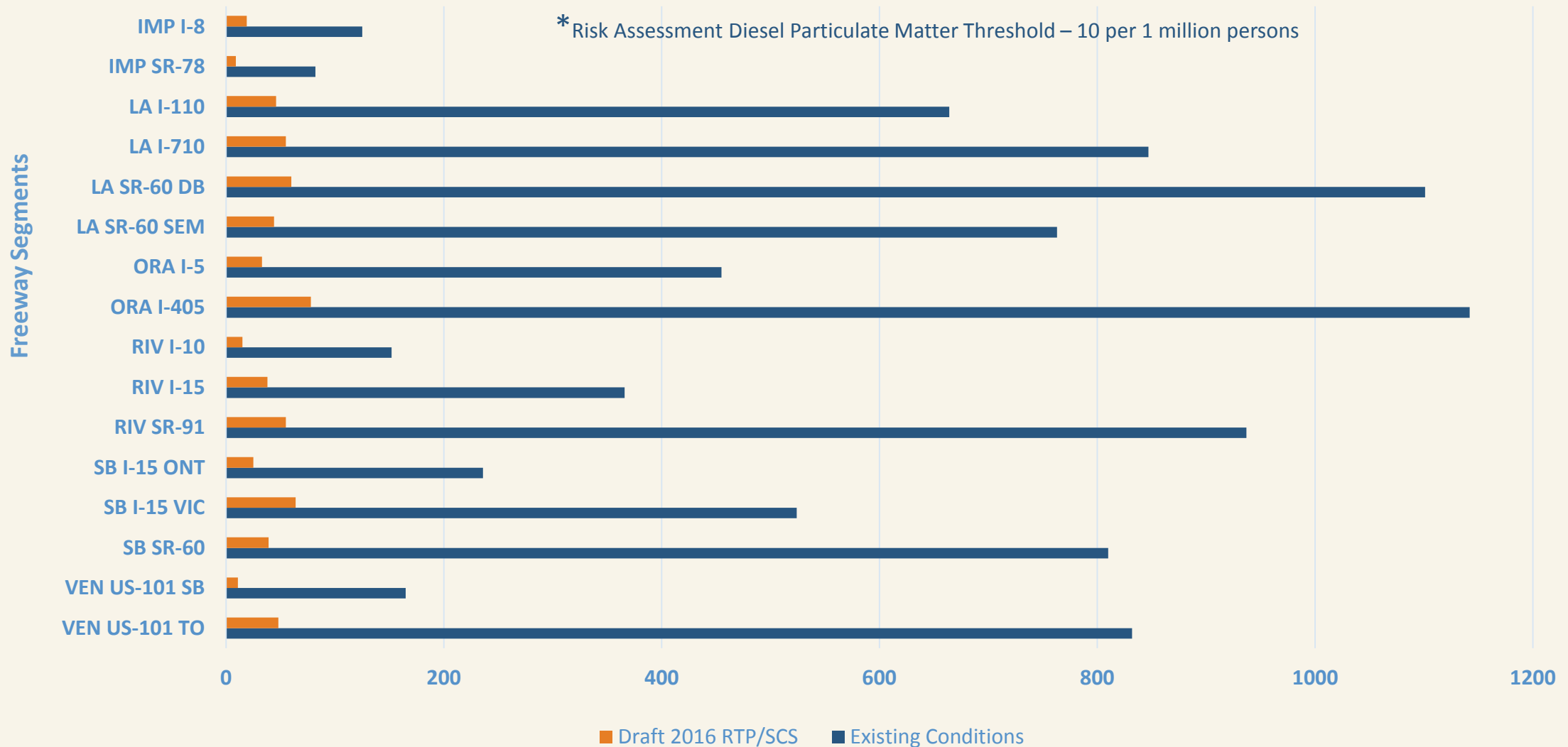
Health Risk Assessment (HRA): Methodology

- Evaluated potential cancer risk associated with diesel emissions from freeway segments
- Used the latest CARB-developed emissions model (EMFAC 2014¹)
- Followed 2015 Air Toxics Hot Spots Program Guidance Manual (“Guidance”²) for the Preparation of Risk Assessments by the Office of Environmental Health Hazard Assessment (OEHHA)
- Doubled the number of freeway segments evaluated in 2012 RTP/SCS PEIR from 8 to 16
- Considered VMT and location of sensitive receptors (e.g., daycare centers, schools and senior centers) nearby freeway segments
- Used “10 chances per million” (e.g., 10 people having a chance of having cancer) with a 30-year exposure as a threshold (OEHHA Guidance, 2015) to determine significance
- Compared to existing conditions to provide perspectives on the cancer risk under the Plan

**Source: 1. CARB. EMFAC Web Database. <http://www.arb.ca.gov/emfac/>
2. OEHHA. Adoption of Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments [03/06/15].
http://oehha.ca.gov/air/hot_spots/hotspots2015.html*

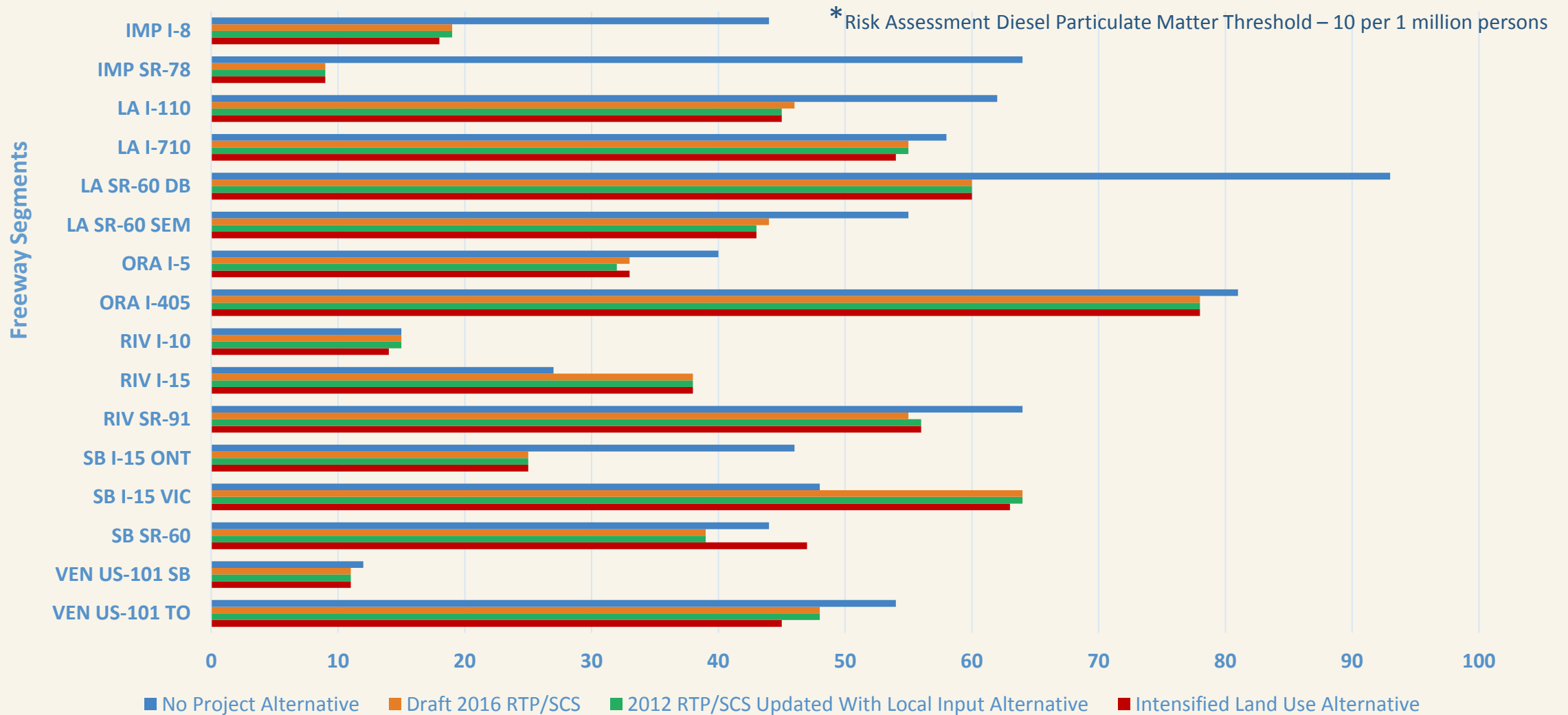
Draft Program Environmental Impact Report

HRA Results: Comparing Proposed 2016 RTP/SCS to Existing Conditions



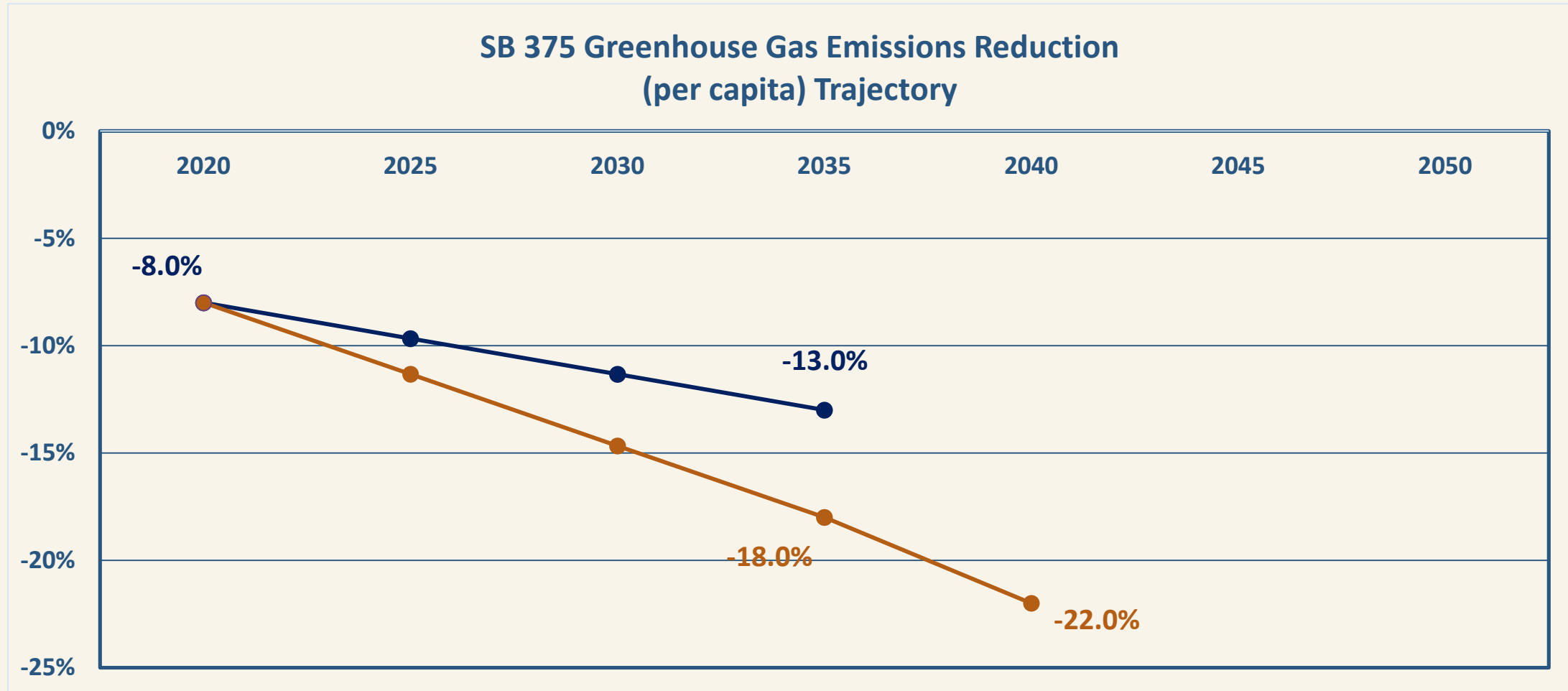
Draft Program Environmental Impact Report

HRA Results: Comparing Proposed 2016 RTP/SCS to Alternatives



Draft Program Environmental Impact Report

Greenhouse Gas Emissions and Climate Change



- CARB Greenhouse Gas Emissions Reduction Target Trajectory for SCAG Region
- Draft 2016 RTP/SCS Greenhouse Gas Emissions Reduction Trajectory

Draft Program Environmental Impact Report

Alternatives Analysis

Framework

- A range of reasonable alternatives to the proposed 2016 RTP/SCS was considered
- An “environmentally superior” alternative with the fewest adverse impacts was selected
- CEQA (Section 15162.6(e)) requires a “No Project” Alternative must be evaluated

Analysis

- Alternatives to the proposed 2016 RTP/SCS were substantively aligned with the scenarios.
- They included:
 - No Project Alternative (based on Scenario 1)
 - 2012 RTP/SCS Updated with Local Input Alternative (based on Scenario 2)
 - Intensified Land Use Alternative (based on a transportation network of Scenario 3 and land use pattern of Scenario 4)
- They were evaluated to assess ability to:
 - Meet proposed 2016 RTP/SCS goals
 - Avoid or reduce the significant impacts of the proposed 2016 RTP/SCS

Draft Program Environmental Impact Report

Alternatives Analysis Results: Comparing Alternatives to Proposed 2016 RTP/SCS Goals*

Goals	Proposed Project 2016 RTP/SCS	Alternative 1: No Project Alternative	Alternative 2: 2012 RTP/SCS Updated with Local Input Alternative	Alternative 3: Intensified Land Use Alternative
Align the Plan investments and policies with improving regional economic development and competitiveness.				
Maximize mobility and accessibility for all people and goods in the region.				
Ensure travel safety and reliability for all people and goods in the region.				
Preserve and ensure a sustainable regional transportation system.				
Maximize the productivity of our transportation system.				
Protect the environment and health for our residents by improving air quality and encouraging active transportation (non-motorized transportation, such as bicycling and walking).				
Actively encourage and create incentives for energy efficiency, where possible.				
Encourage land use and growth patterns that facilitate transit and non-motorized transportation.				
Maximize the security of the regional transportation system through improved system monitoring, rapid recovery planning, and coordination with other security agencies.				

*Note: results will be published in the Draft 2016 RTP/SCS PEIR upon release.

Draft Program Environmental Impact Report

Alternatives Analysis Results: Comparing Alternatives to Proposed 2016 RTP/SCS

Draft PEIR Resource Category	Alternative 1: No Project Alternative	Alternative 2: 2012 RTP/SCS Updated With Local Input Alternative	Alternative 3: Intensified Land Use Alternative
Aesthetics			
Agriculture and Forestry Resources			
Air Quality			
Biological Resources			
Cultural Resources			
Energy			
Geology and Soils			
Greenhouse Gas Emissions and Climate Changes			
Hazards and Hazardous Materials			
Hydrology and Water Quality			
Land Use and Planning			
Mineral Resources			
Noise			
Population and Housing			
Public Services			
Recreation			
Transportation, Traffic and Safety			
Utilities and Service Systems			
TOTAL NUMBER OF RESOURCE CATEGORY WITH "MORE ADVERSE" IMPACT COMPARED TO PROPOSED 2016 RTP/SCS			

*Note: results will be published in the Draft 2016 RTP/SCS PEIR upon release.

Draft Program Environmental Impact Report

Performance Standards-Based Mitigation Measures

Rationale

- Recent CEQA litigation warrants evaluation of the mitigation approach for the 2016 RTP/SCS PEIR
- Program EIRs must identify mitigation for significant impacts

Guiding Principles

- Maintain flexibility at project-level while fulfills SCAG's responsibilities as the lead agency under CEQA 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 project level, where appropriate

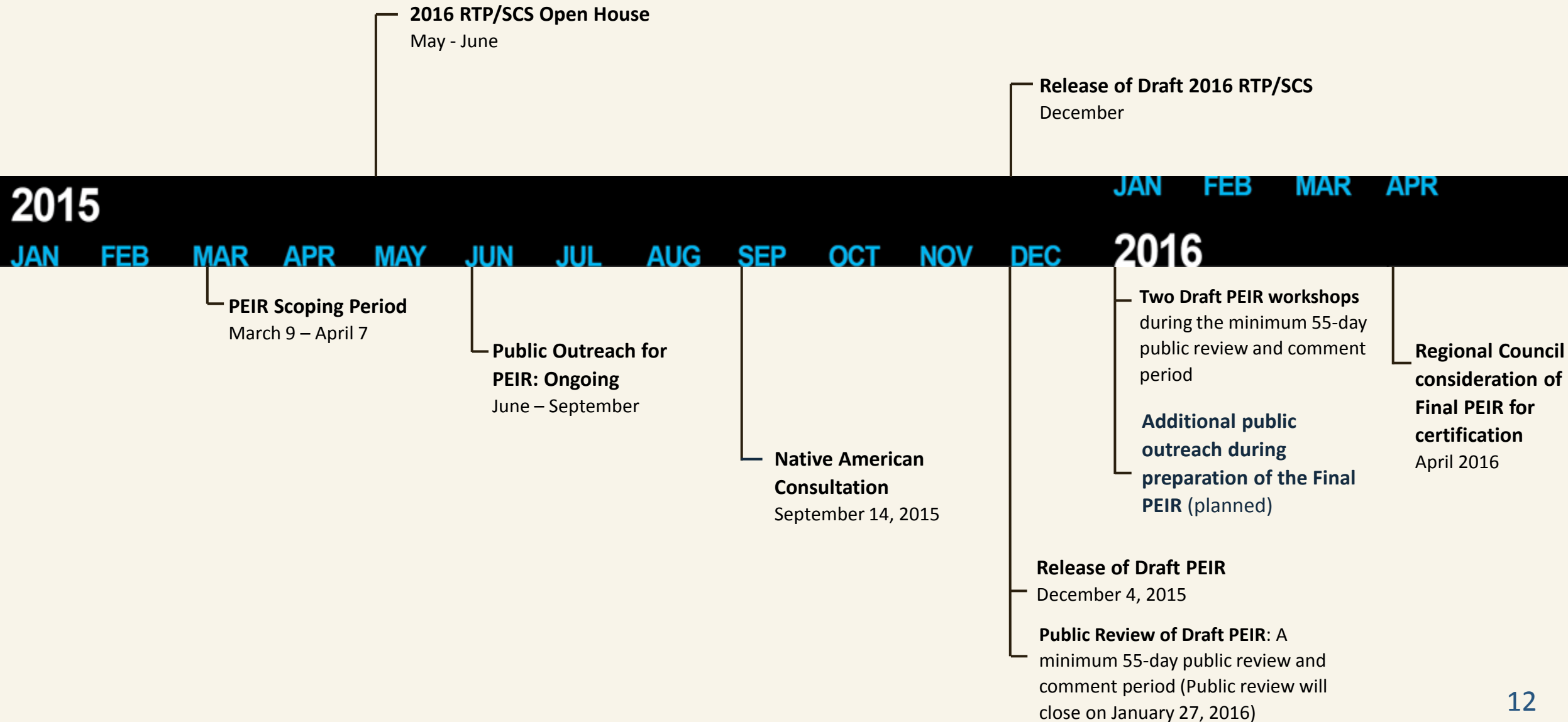
Components

- Based on the Guiding Principles, SCAG staff evaluated a wide range of mitigation approaches and recommended the use of performance-based mitigation measures for the 2016 RTP/SCS PEIR
- Three components:
 - SCAG mitigation measures
 - A “catch-all” mitigation measure
 - Project-level mitigation measures

EEC Review and Approval

- EEC took action at its October 8th meeting to support use of a performance standards-based approach for the mitigation measures

2016 RTP/SCS and PEIR Schedule





**Recommended
Action**

Approve the recommendation made jointly by SCAG's three (3) Policy Committees to release the Draft 2016 RTP/SCS PEIR for a 55-day public review and comment period concurrent with the 55-day public review and comment period for the Draft 2016 RTP/SCS, beginning December 4, 2015 and ending January 27, 2016.



Thank you!

Learn more by visiting www.scag.ca.gov. Contact SCAG at: 2016PEIR@scag.ca.gov

