

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS 900 Wilshire Blvd., Ste. 1700 Los Angeles, CA 90017 T: (213) 236-1800 www.scag.ca.gov

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REMOTE PARTICIPATION ONLY

ENERGY AND ENVIRONMENT COMMITTEE

Thursday, January 6, 2022 9:30 a.m. – 11:30 a.m.

To Attend and Participate on Your Computer: https://scag.zoom.us/j/317727062

To Attend and Participate by Phone:

Call-in Number: 1-669-900-6833

Meeting ID: 317 727 062

Please see next page for detailed instructions on how to participate in the meeting.

PUBLIC ADVISORY

Given the declared state of emergency (pursuant to State of Emergency Proclamation dated March 4, 2020) and local public health directives imposing and recommending social distancing measures due to the threat of COVID-19, and pursuant to Government Code Section 54953(e)(1)(A), the meeting will be held telephonically and electronically.

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Maggie Aguilar at (213) 630-1420 or via email at aguilarm@scag.ca.gov. Agendas & Minutes are also available at: www.scag.ca.gov/committees.

SCAG, in accordance with the Americans with Disabilities Act (ADA), will accommodate persons who require a modification of accommodation in order to participate in this meeting. SCAG is also committed to helping people with limited proficiency in the English language access the agency's essential public information and services. You can request such assistance by calling (213) 630-1420. We request at least 72 hours (three days) notice to provide reasonable accommodations and will make every effort to arrange for assistance as soon as possible.



Instructions for Public Comments

You may submit public comments in two (2) ways:

In Writing: Submit written comments via email to: <u>EECPublicComment@scag.ca.gov</u>
by 5pm on Wednesday, January 5, 2022. You are not required to submit public
comments in writing or in advance of the meeting; this option is offered as a
convenience should you desire not to provide comments in real time as described
below.

All written comments received after 5pm on Wednesday, January 5, 2022 will be announced and included as part of the official record of the meeting.

2. In Real Time: If participating in real time via Zoom or phone, during the Public Comment Period (Matters Not on the Agenda) or at the time the item on the agenda for which you wish to speak is called, use the "raise hand" function on your computer or *9 by phone and wait for SCAG staff to announce your name/phone number. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer. For purpose of providing public comment for items listed on the Consent Calendar, please indicate that you wish to speak when the Consent Calendar is called; items listed on the Consent Calendar will be acted on with one motion and there will be no separate discussion of these items unless a member of the legislative body so requests, in which event, the item will be considered separately.

If unable to connect by Zoom or phone and you wish to make a comment, you may submit written comments via email to: EECPublicComment@scag.ca.gov.

In accordance with SCAG's Regional Council Policy, Article VI, Section H and California Government Code Section 54957.9, if a SCAG meeting is "willfully interrupted" and the "orderly conduct of the meeting" becomes unfeasible, the presiding officer or the Chair of the legislative body may order the removal of the individuals who are disrupting the meeting.



Instructions for Participating in the Meeting

SCAG is providing multiple options to view or participate in the meeting:

To Participate and Provide Verbal Comments on Your Computer

- 1. Click the following link: https://scag.zoom.us/j/317727062
- 2. If Zoom is not already installed on your computer, click "Download & Run Zoom" on the launch page and press "Run" when prompted by your browser. If Zoom has previously been installed on your computer, please allow a few moments for the application to launch automatically.
- 3. Select "Join Audio via Computer."
- 4. The virtual conference room will open. If you receive a message reading, "Please wait for the host to start this meeting," simply remain in the room until the meeting begins.
- 5. During the Public Comment Period, use the "raise hand" function located in the participants' window and wait for SCAG staff to announce your name. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer.

To Listen and Provide Verbal Comments by Phone

- 1. Call **(669) 900-6833** to access the conference room. Given high call volumes recently experienced by Zoom, please continue dialing until you connect successfully.
- 2. Enter the **Meeting ID: 317 727 062**, followed by #.
- 3. Indicate that you are a participant by pressing # to continue.
- 4. You will hear audio of the meeting in progress. Remain on the line if the meeting has not yet started.
- 5. During the Public Comment Period, press *9 to add yourself to the queue and wait for SCAG staff to announce your name/phone number. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer.



EEC - Energy and Environment Committee Members – January 2022

1. Hon. David Pollock EEC Chair, Moorpark, RC District 46

2. Hon. Deborah Robertson EEC Vice Chair, Rialto, RC District 8

3. Hon. Cindy Allen Long Beach, RC District 30

4. Hon. Ana Beltran Westmorland, ICTC

5. Hon. Daniel Brotman Glendale. AVCJPA

6. Hon. Margaret Clark Rosemead, SGVCOG

7. Hon. Robert Copeland Signal Hill, GCCOG

8. Hon. Maria Davila South Gate, GCCOG

9. Hon. Ned Davis Westlake Village, LVMCOG

10. Hon. Rick Denison Yucca Valley, SBCTA

11. Hon. Julian GoldBeverly Hills, WSCCOG

12. Hon. Shari HorneLaguna Woods, OCCOG

13. Hon. Britt HuffRolling Hills Estates, SBCCOG

14. Hon. Jonathan Ingram Murrieta, WRCOG

15. Hon. Dan KalmickHuntington Beach, OCCOG



16. Hon. Joe KalmickSeal Beach, RC District 20

17. Hon. Elaine Litster Simi Valley, VCOG

18. Hon. Diana MahmudSouth Pasadena, SGVCOG

19. Hon. Cynthia Moran Chino Hills, SBCTA

20. Hon. Oscar Ortiz Indio, CVAG

21. Sup. Luis Plancarte Imperial County

22. Hon. Randall PutzBig Bear Lake, RC District 11

23. Sup. Carmen Ramirez Ventura County

24. Hon. Greg RathsMission Viejo, OCCOG

25. Hon. Richard RollinsPort Hueneme, VCOG

26. Hon. Jesus SilvaFullerton, Pres. Appointment (Member at Large)

27. Hon. Sharon Springer Burbank, SFVCOG

28. Hon. Connor TrautBuena Park, OCCOG

29. Hon. John ValdiviaSan Bernardino, SBCTA

30. Hon. Edward Wilson Signal Hill, GCCOG

information sharing, and promoting best practices.



Southern California Association of Governments Remote Participation Only Thursday, January 6, 2022 9:30 AM

The Energy and Environment Committee may consider and act upon any of the items on the agenda regardless of whether they are listed as Information or Action items.

CALL TO ORDER AND PLEDGE OF ALLEGIANCE (The Honorable David Pollock, Chair)

PUBLIC COMMENT PERIOD (Matters Not on the Agenda)

This is the time for persons to comment on any matter pertinent to SCAG's jurisdiction that is **not** listed on the agenda. Although the committee may briefly respond to statements or questions, under state law, matters presented under this item cannot be discussed or acted upon at this time. Public comment for items listed on the agenda will be taken separately as further described below.

General information for all public comments: Members of the public are encouraged, but not required, to submit written comments by sending an email to: CEHDPublicComment@scag.ca.gov by 5pm on Wednesday, January 5, 2022. Such comments will be transmitted to members of the legislative body and posted on SCAG's website prior to the meeting. Any writings or documents provided to a majority of the Energy and Environment Committee regarding any item on this agenda (other than writings legally exempt from public disclosure) are available at the Office of the Clerk, located at 900 Wilshire Blvd., Suite 1700, Los Angeles, CA 90017 during normal business hours and/or by contacting the office by phone, (213) 630-1420, or email to aguilarm@scag.ca.gov. Written comments received after 5pm on Wednesday, January 5, 2022, will be announced and included as part of the official record of the meeting. Members of the public wishing to verbally address the Energy and Environment Committee in real time during the meeting will be allowed up to a total of 3 minutes to speak on items on the agenda, with the presiding officer retaining discretion to adjust time limits as necessary to ensure efficient and orderly conduct of the meeting. The presiding officer has the discretion to equally reduce the time limit of all speakers based upon the number of comments received. If you desire to speak on an item listed on the agenda, please wait for the chair to call the item and then indicate your interest in offering public comment by either using the "raise hand" function on your computer or pressing *9 on your telephone. For purpose of providing public comment for items listed on the Consent Calendar (if there is a Consent Calendar), please indicate that you wish to speak when the Consent Calendar is called; items listed on the Consent Calendar will be acted upon with one motion and there will be no separate discussion of these items unless a member of the legislative body so requests, in which event, the item will be considered separately.

REVIEW AND PRIORITIZE AGENDA ITEMS



CONSENT CALENDAR

Approval Items

1. Minutes of the Meeting – November 4, 2021

ACTION ITEM

 Transmittal to South Coast Air Quality Management District of Draft 2022 Air Quality Management Plan Appendix IV-C Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measure

(Rongsheng Luo, Program Manager II)

RECOMMENDED ACTION:

Recommend that the Regional Council (RC) approve transmittal to the South Coast Air Quality Management District of the Draft 2022 Air Quality Management Plan Appendix IV-C Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures.

INFORMATION ITEMS

3. 2021 Student Showcase

20 Mins.

(Lyle Janicek, Associate Regional Planner)

4. ICARP 2021 State Climate Adaptation Strategy & Natural and Working Lands Climate Smart Strategy 25 Mins.

(Amanda Hansen, California Natural Resource Agency)

5. Cooling Long Beach - Urban Heat Island Mitigation (Kristyn Vega-Payne, City of Long Beach)

20 Mins.

6. SCAG Climate Action Resolution Quarterly Update (Kimberly Clark, Program Manager II)

20 Mins.

CHAIR'S REPORT

(The Honorable David Pollock, Chair)

STAFF REPORT

(Rachel Wagner, Regional Affairs Officer, SCAG Staff)

FUTURE AGENDA ITEMS

ANNOUNCEMENTS

ADJOURNMENT



AGENDA ITEM 1

REPORT

Southern California Association of Governments
Remote Participation Only
January 6, 2022

ENERGY AND ENVIRONMENT COMMITTEE MINUTES OF THE MEETING THURSDAY, NOVEMBER 4, 2021

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE ENERGY AND ENVIRONMENT COMMITTEE (EEC). A DIGITAL RECORDING OF THE ACTUAL MEETING IS AVAILABLE AT: http://scag.iqm2.com/Citizens/.

The Energy and Environment Committee (EEC) of the Southern California Association of Governments (SCAG) held its regular meeting virtually (telephonically and electronically), given the declared state of emergency (pursuant to State of Emergency Proclamation dated March 4, 2020) and local public health directives imposing and recommending social distancing measures due to the threat of COVID-19, and pursuant to Government Code Section 54953(e)(1)(A). A quorum was present.

Members Present

Hon. David Pollock, Moorpark (Chair)	District 46						
Hon. Deborah Robertson, Rialto (Vice Chair)	District 8						
Hon. Cindy Allen, Long Beach	District 30						
Hon. Daniel Brotman, Glendale	AVCJPA						
Hon. Margaret Clark, Rosemead	SGVCOG						
Hon. Robert Copeland, Signal Hill	GCCOG						
Hon. Ned Davis, Westlake Village	LVMCOG						
Hon. Julian Gold, Beverly Hills	WSCCOG						
Hon. Shari Horne, Laguna Woods	OCCOG						
Hon. Britt Huff, Rolling Hills Estates	SBCCOG						
Hon. Jonathan Ingram, Murrieta	WRCOG						
Hon. Dan Kalmick, Huntington Beach	OCCOG						
Hon. Joe Kalmick, Seal Beach	District 20						
Hon. Elaine Litster, Simi Valley	VCOG						
Hon. Diana Mahmud, South Pasadena	SGVCOG						
Hon. Cynthia Moran, Chino Hills	SBCTA						
Hon. Oscar Ortiz, Indio	CVAG						
Sup. Luis Plancarte	Imperial County						
Hon. Randall Putz, Big Bear Lake	District 11						
Sup. Carmen Ramirez	Ventura County						



Hon. Greg Raths, Mission Viejo	OCCOG
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Hon. Jesus Silva, Fullerton President's Appointment

Hon. Sharon Springer, BurbankSFVCOGHon. Connor Traut, Buena ParkOCCOGHon. John Valdivia, Signal HillGCCOGHon. Edward H.J. Wilson, Signal HillGCCOG

Members Not Present

Hon. Ana Beltran, Westmoreland ICTC
Hon. Maria Davila, South Gate GCCOG
Hon. Rick Denison, Yucca Valley SBCTA
Hon. Richard Rollins, Port Hueneme VCOG

CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Chair David Pollock called the meeting to order at 9:31 a.m. Staff confirmed a quorum was present. Policy Committee Member, Carmen Ramirez, Ventura County, led the Pledge of Allegiance.

PUBLIC COMMENT PERIOD

Chair Pollock opened the Public Comment Period and outlined instructions for public comments. He noted the total time period for all public comments related to items on the agenda and any other matter within the agency's subject matter jurisdiction was five minutes and the public comment period would be held open for at least five minutes to afford the public the ability to comment on all items on this agenda.

He reminded the public to submit comments via email to ePublicComment@scag.ca.gov. The Clerk acknowledged there were no written public comments received by email before or after the deadline. The Public Comment period was open for five minutes.

Seeing there were no public comment speakers, Chair Pollock closed the Public Comment Period.

REVIEW AND PRIORITIZE AGENDA ITEMS

There were no requests to prioritize agenda items.

CONSENT CALENDAR

Approval Items



1. Minutes of the Meeting - October 7, 2021

A MOTION was made (Ingram) to approve the Consent Calendar. Motion was SECONDED (Huff) and passed by the following votes:

AYES: Allen, Brotman, Clark, Copeland, Davis, Gold, Horne, Huff, Ingram, D. Kalmick,

Litster, Mahmud, Moran, Ortiz, Plancarte, Pollock, Putz*, Ramirez, Raths, Robertson,

Silva, Springer and Traut (23)

NOES: None (0)

ABSTAINS: None (0)

*The Clerk received a message from Policy Committee member Randall Putz indicating he was having microphone issues and that his vote was a yes on the Consent Calendar.

INFORMATION ITEMS

2. U.S. Green Business Council Los Angeles: Wildfire Defense Education and Tours

Ben Stapleton, Executive Director of U.S. Green Business Council's (USGBC) Los Angeles Chapter provided a brief overview of USGBC-LA's Wildfire Defense Education and Tours program which aims to bring together Southern California residents, the real estate industry, and the green building community together to take effective actions to save lives and property while mitigating fire risk. Furthermore, the program is designed to empower property owners, designers, and managers to proactively reduce wildfire hazards to minimize the loss of property and life, which helps to realize Connect SoCal's goal for the region to adapt to a changing climate.

Policy Committee Member Jonathan Ingram, Murrieta, asked if these services were available only in Los Angeles County and expressed concern over not having the infrastructure to help protect structures or the availability of grants. Mr. Stapleton acknowledged the question.

Policy Committee Member Daniel Brotman, Glendale, asked Mr. Stapleton if he could talk about what they were doing in building decarbonization. Mr. Stapleton stated they had been doing advocacy on the local level around decarbonization.

Second Vice President Carmen Ramirez, Ventura County, asked about information on insurance and discounts for people who engage in good practices. Mr. Stapleton indicated there were discounts available, but that several insurance carriers would not insure property unless they were forced to by the state.



Vice Chair Deborah Robertson, Rialto, asked what organizations they were working with in San Bernardino County and if they had interacted with the California Community College system to help get more people engaged with career opportunities. She indicated she would like to help them connect. Mr. Stapleton welcomed the introduction.

3. Orange County Equity Map and Social Progress Index

Katie Kalvoda, President and Board Chair at AdvanceOC provided a presentation on the Orange County Equity Map and Social Progress Index (SPI), which was developed through a public-private partnership between AdvanceOC, the County of Orange, and the Health Care Agency. SPI, used world-wide, was developed to enable users to identify root causes, understand social determinants, investigate disparities, and help create equity focused strategies and solutions. Using 50 indicators, SPI can measure, track, and map inequities with neighborhood precision.

Second Vice President Ramirez asked Ms. Kalvoda if she could comment on the living wage with respect to their calculations, specifically if they took into consideration the kind of income people have and what they spend on housing, health care and other things. Ms. Kalvoda addressed the question.

Vice Chair Robertson asked if they looked at other external reasons that were currently impacting communities that add to additional environmental and health factors. Ms. Kalvoda stated that when they started the SPI, they brought a variety of different stakeholders to ask them what data sets and information were valuable for the work they were doing.

Policy Committee Member Ingram expressed concern over the increase in homeless and asked how they could get resources and work together as communities to combine those resources, so that they could make an impact. Ms. Kalvoda stated she would welcome a conversation to see what they could do to help leverage this platform.

Policy Committee Member Margaret Clark, Rosemead, asked how they got the medical information without violating HIPAA regulations. Ms. Kalvoda indicated the data was provided by the Center for Disease Control and Prevention, where it's done in a non-identified way so that no one is identified.

Policy Committee Member Huff asked if the raw data had a breakdown of nationalities and languages. Ms. Kalvoda acknowledged the question.

Agenda Item 5 was taken before Agenda Item 4 to allow staff time to arrive to the meeting from another presentation. Agenda Items have been reorganized to reflect the order of presentations.

5. Water Supply and Drought Update



Danielle Dolan, Water Program Manager at the Local Government Commission (LGC), provided a presentation on the findings from LGC's statewide study on the Equitable Integration of Water and Land-Use, including how California's lack of watershed-wise planning has inhibited recovery from the COVID-19 pandemic and left cities unprepared for recent iterations of catastrophic fire and drought in California's natural climate cycle. Ms. Dolan also shared best practices and recommendations to ensure local communities and regions as a whole plan for these conditions and are better equipped to handle the climate impacts of drought, fire, and flood, even when compounded by economic instability and a public health crisis.

Vice Chair Robertson asked Ms. Dolan if she had provided this presentation or interfaced with the state legislative bodies or representatives. Ms. Dolan stated that they held a policy briefing for legislators and legislative staff when they first finished this report.

Second Vice President Ramirez requested more presentations at this Committee from the local water agencies as she felt the average water consumer did not understand or have knowledge where water comes from, what it takes to deliver, the cost, and what the looming drought meant for all of them.

Policy Committee Member Jesus Silva, Fullerton, expressed concern over the repeal of section 1412 of the Safe Drinking Water Act, current legislation regarding the Environmental Protection Agency bypassing the existing scientific process for determining the level of contaminants, and HR 2467 which puts the onus on water agencies to be liable for perfluorooctanesulphonate (PFOs) contamination.

4. Southern California Goods Movement Communities Freight Impact assessment

Alison Linder, Senior Regional Planner provided an overview of the Southern California Goods Movement Communities Freight Impact Assessment study which is expected to start November 2021. She reported this project, funded through a Caltrans Sustainable Transportation Planning Grant, would combine analysis and outreach to understand the positive and negative impacts of goods movement as well as the experience of these impacts on communities. This study would focus on public health, workforce development, and communications and outreach best practices. She further noted that key products included a toolkit for impacted communities with recommendations on goods movement impact mitigation and recommendations to connect communities to the economic opportunities of goods movement.

Vice Chair Robertson expressed concern over surrounding communities not having truck routes.

CHAIR'S REPORT



There was no Chair's report.

STAFF REPORT

There was no staff report.

FUTURE AGENDA ITEMS

There were no future agenda items.

ANNOUNCEMENTS

Chair Pollock informed the Committee members that the Executive/Administration Committee discussed a potential change in the meeting schedule for 2022. He asked the members to provide feedback on the issue. He also announced the 12th Annual Economic Summit scheduled for December 2 at 9:00 a.m.

ADJOURNMENT

There being no further business, Chair Pollock adjourned the Energy and Environment Committee meeting at 11:42 a.m.

[MINUTES ARE UNOFFICIAL UNTIL APPROVED BY THE EEC]
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Attachment: EEC Attendance Sheet 2021-22 (Minutes of the Meeting - November 4, 2021)

ENERGY AND ENVIRONMENT COMMITTEE ATTENDANCE REPORT

2021-22

MEMBERS	Representing	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	April	May	Total Mtgs Attended To Date
Allen, Cindy	Long Beach, District 30	1	1		0	1	1							4
Beltran, Ana	Westmoreland, ICTC	1	0		0	1	0							2
Brotman, Daniel	Glendale, AVCJPA	1	1		1	1	1							5
Clark, Margaret	Rosemead, SGVCOG	1	0		1	1	1							4
Copeland, Robert	Signal Hill, GCCOG	1	1		1	1	1							5
Davila, Maria	South Gate, GCCOG	0	0		0	0	0							0
Davis, Ned	Westlake Village, LVMCOG	1	1		1	0	1							4
Denison, Rick	Yucca Valley, SCBTA	1	1		0	1	0							3
Gold, Julian	Beverly Hills, WSCCOG	1	1	D	1	1	1	D						5
Horne, Shari	Laguna Woods, OCCOG	1	1		1	1	1							5
Huff, Britt	Rolling Hills Estates, SCBCOG	1	1	Α	1	1	1	Α						5
Ingram,Jonathan	Murrieta, WRCOG				1	1	1							3
Kalmick, Dan	Huntington Beach, OCCOG	1	1		1	1	1							5
Kalmick, Joe	Seal Beach, District 20	1	1	R	1	1	1	R						5
Litster, Elaine	Simi Valley, VCOG	1	0		1	1	1							4
Mahmud, Diana	So. Pasadena, SGVCOG	1	0	K	1	1	1	K						4
Moran, Cynthia	Chino Hills, SBCTA	1	1		1	1	1							5
Ortiz, Oscar	Indio, CVAG	1	1		1	1	1							5
Plancarte, Luis	Imperial County	1	1		1	1	1							5
Pollock, David (CHAIR)	Moorpark, VCOG	1	1		1	1	1							5
Putz, Randall	Big Bear Lake, District 11	1	1		1	1	1							5
Ramirez, Carmen	Oxnard, RC District 45	1	1		1	1	1							5
Raths, Greg	Mission Viejo, OCCOG	1	1		1	1	1							5
Robertson, Deborah	Rialto, RC District 8	1	1		1	1	1							5
Rollins, Richard	Port Hueneme, VCOG	1	1		1	0	0							3
Silva, Jesus	Fullerton, President's Appointment	1	1		1	1	1							5
Springer, Sharon	Burbank, SFVCOG	1	0		1	1	1							4
Traut, Connor	Buena Park, OCCOG	1	1		1	1	1							5
Valdivia, John	San Bernardino, SBCCOG	0	1		1	0	1							3
Wilson, Edward H.J.	Signal Hill, GCCOG	1	1		0	1	1							Packe

Packet Pg. 13



AGENDA ITEM 2

REPORT

Southern California Association of Governments
Remote Participation Only

January 6, 2022

EXECUTIVE DIRECTOR'S

APPROVAL

Kome Apise

To: Community Economic & Human Development Committee (CEHD)

Energy & Environment Committee (EEC)

Transportation Committee (TC)

Regional Council (RC)

From: Rongsheng Luo, Program Manager II

(213) 236-1994, luo@scag.ca.gov

Subject: Transmittal to South Coast Air Quality Management District of Draft 2022

Air Quality Management Plan Appendix IV-C Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control

Measures

RECOMMENDED EEC ACTION:

Recommend that the Regional Council (RC) approve transmittal to the South Coast Air Quality Management District of the Draft 2022 Air Quality Management Plan Appendix IV-C Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures.

RECOMMENDED CEHD, TC, AND RC ACTION:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

Pursuant to the California Health and Safety Code, SCAG is responsible for preparing a portion of the Air Quality Management Plan (AQMP) for the South Coast Air Basin relating to the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and transportation control measures (TCMs), which is commonly known as "Appendix IV-C" of the AQMP. The Draft 2022 AQMP Appendix IV-C contains the key policies and strategies of the adopted Connect SoCal (2020 RTP/SCS) as well as a review of reasonably available TCMs. SCAG staff will present to the EEC an overview of the Draft Appendix IV-C and seek EEC's recommendation that the RC approve transmittal of the Draft Appendix IV-C to the South Coast Air Quality Management District (AQMD) for inclusion in the Draft 2022 AQMP, which is anticipated to be released for public review and comment in February 2022 and, pending EEC recommendation, will be presented to the RC to approve transmittal at its February 3, 2022 meeting.



BACKGROUND:

Pursuant to the Federal Clean Air Act (CAA), the 2022 AQMP is being prepared primarily to attain the federal 2015 8-hour ozone national ambient air quality standard in the South Coast Air Basin. The 2022 AQMP is being jointly prepared by three responsible agencies: the South Coast Air Quality Management District (South Coast AQMD), the lead agency, the California Air Resources Board (ARB), and SCAG. The 2022 AQMP is required to be submitted to the U.S. Environmental Protection Agency (EPA) by August 3, 2022.

SCAG's role in the 2022 AQMP development process includes providing the socio-economic growth forecast and regional transportation demand model output data to the South Coast AQMD for use in estimating and forecasting emission inventories and airshed modeling; and vehicle activity data to the ARB for use in developing on-road emissions. SCAG has provided these data to the respective agencies. In addition to the technical data, SCAG is also responsible for writing a portion of the 2022 AQMP on the region's RTP/SCS and TCMs as they relate to air quality. The document, commonly referred to as "Appendix IV-C," primarily includes an overview of the adopted Connect SoCal (2020 RTP/SCS); a list of committed TCMs in the South Coast Air Basin that are federally enforceable and subject to timely implementation; and, pursuant to Clean Air Act requirements, an analysis of reasonably available TCMs. Appendix IV-C is attached to this staff report.

The Draft 2022 AQMP is anticipated to be released by SCAQMD in February 2022 for public review. Staff plans to invite South Coast AQMD staff to present to the EEC on the Draft 2022 AQMP in March or April 2022.

After the public review, the Draft Appendix IV-C will be revised as appropriate and the Final Appendix IV-C will be presented to the Regional Council for final adoption, anticipated in May or June of 2022. Upon adoption by the Regional Council, the Final Appendix IV-C will be transmitted to South Coast AQMD for inclusion into the Final 2022 AQMP.

Note that additional air quality plans are also being developed by the other four local air districts within the SCAG region in collaboration with ARB. Staff has been closely participating in and monitoring these air quality planning efforts and will report on any significant issues to EEC as appropriate.

FISCAL IMPACT:

Work associated with this item is included in the current FY 2021-22 Overall Work Program (22-025.0164.01: Air Quality Planning and Conformity).

ATTACHMENT(S):

- 1. Draft 2022 AQMP Appendix IV-C
- 2. PowerPoint Presentation Draft 2022 AQMP Appendix IV-C

DRAFT 2022 Air Quality Management Plan (AQMP) APPENDIX IV-C

Regional Transportation Plan/Sustainable Communities
Strategy and Transportation Control Measures

JANUARY 2022

SCAG MISSION STATEMENT

Under the guidance of the Regional Council and in collaboration with our partners, our mission is to foster innovative regional solutions that improve the lives of Southern Californians through inclusive collaboration, visionary planning, regional advocacy, information sharing, and promoting best practices.

SCAG REGIONAL COUNCIL

OFFICERS

President

Hon. Clint Lorimore, Eastvale

First Vice President

Hon. Jan C. Harnik, Riverside County Transportation Commission

Second Vice President

Hon. Carmen Ramirez, County of Ventura

Immediate Past President

Hon. Rex Richardson, Long Beach

MEMBERS

Imperial County

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Hon. Mitch O'Farrell

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Hon. Nithya Raman

Hon. Rex Richardson

Hon. Mark Ridley-Thomas

Hon. Monica Rodriguez

Hon. Ali Saleh

Hon. Tim Sandoval

Hon. David J. Shapiro

Hon. José Luis Solache

Hon. Steve Tye

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Executive Summary

This Appendix IV-C (Appendix) describes the Southern California Association of Government's (SCAG) Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures (TCMs) to address the 2015 8-hour ozone standards in the South Coast Air Basin as part of South Coast Air Quality Management District's (South Coast AQMD) Draft 2022 Air Quality Management Plan (AQMP). This Appendix IV-C is based on SCAG's Final 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy (2020 RTP/SCS, also known as Connect SoCal) and 2021 Federal Transportation Improvement Program (FTIP) as amended. The RTP/SCS and FTIP were developed in consultation with federal, state and local transportation and air quality planning agencies and other stakeholders. The four County Transportation Commissions (CTCs) in the South Coast Air Basin, namely Los Angeles County Metropolitan Transportation Authority, Riverside County Transportation Commission, Orange County Transportation Authority and the San Bernardino Associated Governments, were actively involved in the development of the regional transportation measures of this Appendix.

This Appendix consists of the following three Sections.

Section I. Introduction

As required by federal and state laws, SCAG is responsible for ensuring that the regional transportation plan, program, and projects are supportive of the goals and objectives of applicable AQMPs and State Implementation Plans (AQMPs/SIPs). SCAG is also required to develop demographic projections and regional transportation strategy and control measures for the South Coast AQMD's AQMP/SIP.

As the Metropolitan Planning Organization (MPO), SCAG develops the RTP/SCS every four years. The RTP/SCS is a long-range regional transportation plan that provides for the development and integrated management and operation of transportation systems and facilities that will function as an intermodal transportation network for the SCAG region. The RTP/SCS also outlines certain land use growth strategies that provide for more integrated land use and transportation planning, and enhance transportation investments to achieve regional greenhouse gas (GHG) reduction targets set by the California Air Resources Board (CARB) pursuant to SB 375 (codified in California Government Code §65080(b)(2)(B)). The RTP/SCS addresses GHG reductions, however it should be noted that there are co-benefits of criteria pollutants emission reductions that will contribute to the overall emission reductions needed for the draft 2022 AQMP.

In addition, SCAG develops the biennial FTIP. The FTIP is a list of multimodal capital improvement projects to be implemented over a six year period. The FTIP implements the programs and projects in the RTP/SCS.

Section II. Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures (TCMs)

The SCAG region faces many critical challenges including demographics, transportation system preservation, transportation funding, goods movement, housing, air quality, climate change, and public health. Under the guidance of the goals and objectives adopted by SCAG's Regional Council, Connect SoCal was developed to provide a blueprint to integrate land use and transportation strategies to help

achieve a coordinated and balanced regional transportation system. Connect SoCal represents the culmination of more than three years of work involving dozens of public agencies, 197 local jurisdictions in the SCAG region, hundreds of local, county, regional and state officials, the business community, environmental groups, as well as various nonprofit organizations. Connect SoCal was adopted by SCAG's governing board, the Regional Council, on May 7, 2020 for transportation conformity purposes only and on September 3, 2020 for all purposes.

To realize a sustainable and connected region, Connect SoCal includes a Core Vision that centers on maintaining and better managing the transportation network for moving people and goods, while expanding mobility choices by locating housing, jobs and transit closer together and increasing investment in transit and complete streets; five Key Connections that augment the Core Vision to address trends and emerging challenges while closing the gap between what can be accomplished through intensification of core planning strategies alone and what must be done to meet increasingly aggressive greenhouse gas reduction goals; as well as action-oriented transportation strategies and Sustainable Communities Strategy.

Core Vision

- Sustainable Development
- System Preservation and Resilience
- Demand & System Management
- Transit Backbone
- Complete Streets
- Goods Movement

Key Connections

- Smart Cities and Job Centers
- Housing Supportive Infrastructure
- Go Zones
- Accelerated Electrification
- Shared Mobility and Mobility as a Service

Transportation Strategies

- Preserve and Optimize Our Current System
 - Congestion Management
 - Congestion Pricing
 - Transportation Demand Management (TDM)
 - Transportation System Management (TSM)
- Completing Our Transportation System
 - > Transit
 - Passenger Rail
 - Active Transportation
 - Transportation Safety
 - Highway and Arterial Network

- Regional Express Lane Network
- Goods Movement
- Aviation
- > Technological Innovations and Emerging Technology

Sustainable Communities Strategy

- Focus Growth Near Destinations & Mobility Options
- Promote Diverse Housing Choices
- Leverage Technology Innovations
- Support Implementation of Sustainability Policies
- Promote a Green Region

Transportation Control Measures (TCMs)

Connect SoCal includes, as a subset of transportation strategies, SIP-committed transportation programs and projects that reduce vehicle use or change traffic flow or congestion conditions for the purposes of reducing emissions from transportation sources and improving air quality, better known as Transportation Control Measures or "TCMs." In the South Coast Air Basin, TCMs include the following three main categories of transportation improvement projects and programs that have funding programmed for right-of-way and/or construction in the first two years of the 2021 FTIP:

- 1. Transit and non-motorized modes;
- 2. High Occupancy Vehicle (HOV) Lanes and their pricing alternatives; and
- 3. Information-based strategies.

Attachment A of Appendix IV-C is a list of transportation control measure projects that are from SCAG's 2021 FTIP and specifically identified and committed to in the Draft 2022 AQMP/SIP. Per the federal Clean Air Act (CAA), these committed TCMs are required to receive funding priority and be implemented in a timely manner. In the event that a committed TCM cannot be delivered or will be significantly delayed, the TCM must be substituted for. It is important to note that as the SCAG's FTIP is updated every two years, new committed TCMs are automatically added to the applicable SIP from the previous FTIP.

Plan Emissions Reduction Benefits

If the future vehicle fleet mix and emission factors are held constant as those in the Connect SoCal base year 2016, Connect SoCal is estimated to yield a reduction in NOx emissions by about 1.5 tons per day (tpd) in 2025, 4.1 tpd in 2035, and 6.8 tpd in 2045 compared with their respective Baselines without Connect SoCal. However, if accounting for mandated future improvement in vehicle fleet mix and emission factors, the estimated NOx emission reduction from Connect SoCal is reduced by 60 to 73 percent, because the vehicles as a whole are becoming much cleaner and reduction of every vehicle mile traveled from Connect SoCal yields less reduction in NOx emissions.

Plan Investment

The total expenditure for the various strategies in Connect SoCal is forecasted to be \$638.9 billion. Connect SoCal has identified the same amount of total revenues from both existing and several new funding sources that are reasonably expected to be available.

Cost-Benefit Analysis

Implementation of Connect SoCal will secure a safe, efficient, sustainable and prosperous future for the SCAG region. To demonstrate how effective Connect SoCal would be toward achieving our regional goals, SCAG conducted a Connect SoCal vs. Connect SoCal Baseline cost-benefit analysis utilizing the Cal-B/C Model to calculate regional network benefits – essentially comparing how the region would perform with and without implementation of the Connect SoCal.

Compared with the alternative without the Plan, Connect SoCal would result in significant benefits to our region, not only with respect to mobility and accessibility, but also in the areas of air quality, economic growth and job creation, sustainability and environmental justice. Altogether, the transportation investments in Connect SoCal will provide a return of two dollars for every dollar invested compared with the Baseline alternative.

Section III. TCM Reasonably Available Control Measure Analysis

As required by the CAA, a Reasonably Available Control Measure (RACM) analysis must be included as part of the overall control strategy in the ozone SIP to ensure that all potential control measures are evaluated for implementation and that justification is provided for those measures that are not implemented. This Appendix IV-C contains the TCM RACM component for the South Coast ozone control strategy. In accordance with the U.S. Environmental Protection Agency (EPA) procedures, this analysis considers TCMs in Connect SoCal, measures identified by the CAA, and relevant measures adopted in other ozone nonattainment areas of the country.

Based on this comprehensive review, it is determined that the TCMs being implemented in the South Coast Air Basin are inclusive of all TCM RACM.

Section I. Introduction

Federal and State Requirements

The transportation conformity requirements of the federal CAA establish a need to integrate air quality planning and regional transportation planning. This integration presents the challenge of balancing the real need for improved mobility and accessibility with the equally important goal of cleaner air. As the federally-designated MPO for the six-county Southern California region, SCAG is required by law to ensure that transportation activities "conform" to, and are supportive of, the goals of regional and state air quality plans to attain the National Ambient Air Quality Standards (NAAQS). In other words, transportation plans, programs, and projects are required to not create new violations, worsen the existing violations, or delay timely attainment of relevant NAAQS.

In addition, SCAG is a co-producer, with the South Coast AQMD and CARB, of the AQMP for the South Coast Air Basin. SCAG has the responsibility of providing the demographic projections and integrated regional land use, housing, employment, and transportation programs, measures, and strategies, as well as analyzing and providing travel activity data related to its planning responsibilities (California Health and Safety Code §40460).

Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)

The SCAG Region is the largest metropolitan planning area in the United States, encompassing 38,000 square miles. The region is divided into 15 subregions and is one of the largest concentrations of population, employment, income, business, industry and finance in the world. The six-county SCAG Region is home to about 19 million people, nearly half of the population of the State of California.

Federal and State regulations require SCAG, as the MPO and Regional Transportation Planning Agency, to develop an RTP/SCS every four years in order for our region's transportation projects to qualify for federal and state funding and approval. The RTP/SCS is updated to reflect changes in trends, progress made on projects, and to adjust the growth forecast for population and employment changes. The long-range RTP/SCS integrates land use and transportation strategies that will achieve CARB greenhouse gas emissions reduction targets and provides a vision for transportation investments throughout the region. Using growth forecasts and economic trends that project out over a period of more than 20 years, the RTP/SCS considers the role of transportation in the broader context of land use, economic, environmental, and quality-of-life goals for the future, identifying regional transportation strategies and Sustainable Communities Strategy to address our mobility needs, air quality and climate change challenges.

The RTP/SCS is developed through a collaborative process, guided by SCAG's governing board, the Regional Council, and its Policy Committees and Sub-committees, the Transportation Working Group, numerous technical advisory committees/working groups/task force, CTCs, subregions, local governments, state and federal agencies, environmental and business communities, tribal governments, non-profit groups, as well as the general public.

Adopted by SCAG's Regional Council and approved by federal agencies, 2020 RTP/SCS or Connect SoCal is the currently conformity RTP/SCS for the SCAG region which includes the entire South Coast Air Basin.

Federal Transportation Improvement Program (FTIP)

SCAG is also responsible for developing a biennial short-term (six year planning horizon) FTIP. SCAG develops the FTIP in partnership with the CTCs of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura, and Caltrans Districts 7, 8, 11, and 12. The FTIP is a multimodal list of capital improvement projects to be implemented over a six-year period. The FTIP identifies specific funding sources and fund amounts for each project. It is prioritized to implement the region's overall strategy for providing mobility and improving both the efficiency and safety of the transportation system, while supporting efforts to attain federal and state air quality standards for the region by reducing transportation related air pollution. The FTIP must include all federally funded transportation projects in the region, as well as all regionally significant transportation projects for which approval from federal funding agencies is required, regardless of funding source. The FTIP is developed to incrementally implement the programs and projects in the RTP/SCS. TCMs that are committed to in the applicable SIP are derived from the first two years of the prevailing FTIP.

Adopted by SCAG's Regional Council and approved for federal agencies, 2021 FTIP is the currently conformity FTIP for the SCAG region which includes the entire South Coast Air Basin.

Section II. Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures (TCMs)

Introduction

Connect SoCal is a long-range regional plan that provides a blueprint to integrate land use and transportation strategies to help achieve greater mobility and sustainable growth. Transportation projects in the SCAG region must be included in Connect SoCal in order to receive federal funding and approval. Connect SoCal is comprised of an Introduction, six Chapters and 20 Technical Reports listed below:

- Chapter 0: Making Connections
- Chapter 1: About the Plan
- Chapter 2: SoCal Today
- Chapter 3: A Path to Greater Access, Mobility & Sustainability
- Chapter 4: Paying Our Way Forward
- Chapter 5: Measuring Our Progress
- Chapter 6 Looking Ahead
- Active Transportation Technical Report
- Aviation and Airport Ground Access Technical Report
- Congestion Management Technical Report
- Demographics and Growth Forecast Technical Report
- Economic and Job Creation Analysis Technical Report
- Emerging Technology Technical Report
- Environmental Justice Technical Report
- Goods Movement Technical Report
- Highways and Arterials Technical Report
- Natural and Farm Lands Technical Report
- Passenger Rail Technical Report
- Performance Measures Technical Report
- Project List Technical Report
- Public Health Technical Report
- Public Participation and Consultation Technical Report
- Sustainable Communities Strategy (SCS) Technical Report
- Transit Technical Report
- Transportation Conformity Analysis Technical Report
- Transportation Finance Technical Report
- Transportation Safety and Security Technical Report

Connect SoCal represents the culmination of more than three years of work involving dozens of public agencies, 197 local jurisdictions in the SCAG region, hundreds of local, county, regional and state officials, the business community, environmental groups, as well as various nonprofit organizations, and was founded on a broad-based public outreach effort. The implementation of a comprehensive and coordinated public participation effort undertaken by SCAG is documented in the Public Participation and Consultation Technical Report¹.

Connect SoCal was adopted by the SCAG Regional Council on May 7, 2020 for transportation conformity purposes only and on September 3, 2020 for all purposes. Connect SoCal constitutes the transportation control strategy portion of the Draft 2022 South Coast AQMP. A full list of the Connect SoCal projects can be found in the Project List Technical Report².

Key Challenges in the Region

Our region is facing many formidable challenges related to affordable housing, natural and farm land conservation, transportation safety and security, public health, transportation system preservation and resilience, transportation access and mobility, funding the transportation system, and planning for disruption. For example, the region experiences significant travel delays (the time an average motorist spends stuck in traffic is 100 hours per year) and approximately 15% of the region's bridges are in poor condition. The SCAG region lost 21 percent of its farmland between 1984 (the year the farmland tracking began) and 2016. There are approximately 1,500 traffic fatalities annually. The annual cost of treating chronic disease (such as heart disease, strokes, chronic lower respiratory disease & diabetes) is \$16.7 billion. Climate change adversely impacts traditionally underserved communities and 77% of residents in a flood hazard zones are minority.

Another regional challenge that is of key relevance to the 2022 AQMP is the region's inability to meet federal air quality standards. Although air quality has improved significantly over the past decades, the SCAG region still experiences the worst air quality in the country. Almost the entire SCAG region fails to meet the health-based federal air quality standards for one or more transportation-related air pollutants. In addition to public health impacts from unhealthy air quality, the challenge of meeting health based federal air quality standards has serious implications for the RTP/SCS, the Federal Transportation Improvement Program (FTIP) and transportation projects in the SCAG region.

A particularly pressing challenge is for the South Coast Region to meet the 2023 statutory deadline of attaining the 1997 ozone standard. Pursuant to the federal Clean Air Act, a Contingency Measure Plan was recently developed jointly by the South Coast Air Quality Management District (South Coast AQMD) and the California Air Resources Board (ARB) and subsequently submitted to the U.S. Environmental

¹https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal_public-participation-consultation.pdf?1606001825

² https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal project-list 1.pdf?1606001744

Protection Agency (EPA). The Contingency Measure Plan³ highlights the critical need for federal regulatory actions and/or funding to address emission sources under federal jurisdiction including aircraft, ships, trains and out-of-state trucks in order to meet the air quality standard. This is in addition to regulatory actions, programs and incentive funding South Coast AQMD and ARB have developed to achieve emission reductions.

If the U.S. EPA disapproves the Contingency Measure Plan, a federal sanctions clock will be triggered which will lead to federal highway sanctions if the underlying deficiency cannot be resolved within 24 months. Highway sanctions restrict federal funding to transportation projects that expand highway capacity, nonexempt project development activities and any other projects that do not explicitly meet exemption criteria. If imposed, highway sanctions have the potential to impact billions of dollars of federal funding and tens of billions of dollars of important transportation projects in the SCAG region.

Transportation, especially the goods movement sectors, contributes to the overwhelming majority of air pollutant emissions causing ozone pollution. A comprehensive and coordinated regional solution including aggressive regulations, advancements in clean technologies, innovative solutions, and integrated land use and transportation planning from all levels of government and all stakeholders will be required to achieve the needed emission reductions from the goods movement sectors.

Finally, the emission of air pollutants come from a wide range of sources and may be transported downwind. Therefore, a mitigation strategy should be in place to assist impacted communities, even if the emissions are not being locally produced.

Regional Goals and Guiding Principles

The development of projects, programs, and strategies are guided by the following goals and guiding principles that help carry out Connect SoCal's vision for improved economy, mobility, environment and healthy/complete communities. The plan explicitly lays out goals related to housing, transportation technologies, equity and resilience in order to adequately reflect the increasing importance of these topics in the region, and where possible the goals have been developed to link to potential performance measures and targets. The plan's guiding policies take these goals and focus them, creating a specific direction for plan investments.

Connect SoCal Goals

- 1. Encourage regional economic prosperity and global competitiveness
- 2. Improve mobility, accessibility, reliability, and travel safety for people and goods
- 3. Enhance the preservation, security, and resilience of the regional transportation system
- 4. Increase person and goods movement and travel choices within the transportation system

³ South Coast AQMD, 2019, Contingency Measure Plan: Planning for Attainment of the 1997 80 ppb 8-Hour Ozone Standard in the South Coast Air Basin for the 1997 8-Hour Ozone NAAQS in the South Coast Air Basin, <a href="http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/1997-ozone-contingency-measure-plan/1997-8-hour-ozone-draft-contingency-measure-plan---120619.pdf?sfvrsn=10

- 5. Reduce greenhouse gas emissions and improve air quality
- 6. Support healthy and equitable communities
- 7. Adapt to a changing climate and support an integrated regional development pattern and transportation network
- 8. Leverage new transportation technologies and data-driven solutions that result in more efficient travel
- 9. Encourage development of diverse housing types in areas that are supported by multiple transportation options
- 10. Promote conservation of natural and agricultural lands and restoration of habitats

Connect SoCal Guiding Principles

- 1. Base transportation investments on adopted regional performance indicators and MAP-21/FAST Act⁴ regional targets
- 2. Place high priority for transportation funding in the region on projects and programs that improve mobility, accessibility, reliability and safety, and that preserve the existing transportation system
- 3. Assure that land use and growth strategies recognize local input, promote sustainable transportation options, and support equitable and adaptable communities
- 4. Encourage RTP/SCS investments and strategies that collectively result in reduced non-recurrent congestion and demand for single occupancy vehicle use, by leveraging new transportation technologies and expanding travel choices
- 5. Encourage transportation investments that will result in improved air quality and public health, and reduced greenhouse gas emissions
- 6. Monitor progress on all aspects of the Plan, including the timely implementation of projects, programs, and strategies
- 7. Regionally, transportation investments should reflect best-known science regarding climate change vulnerability, in order to design for long term resilience

<u>Plan Strategies and Transportation Control Measures</u>

To realize a more sustainable and connected region, Connect SoCal includes a Core Vision that centers on maintaining and better managing the transportation network for moving people and goods, while expanding mobility choices by locating housing, jobs and transit closer together and increasing investment in transit and complete streets; five Key Connections that augment the Core Vision to address trends and emerging challenges while closing the gap between what can be accomplished through intensification of core planning strategies alone and what must be done to meet increasingly aggressive greenhouse gas reduction goals; as well as action-oriented transportation strategies and Sustainable Communities Strategy.

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⁴ MAP-21 (The Moving Ahead for Progress in the 21st Century Act) was a two-year federal transportation authorization bill signed into law in 2012. Replacing MAP-21 in 2015, FAST Act (The Fixing America's Surface Transportation Act) authorizes \$305 billion over fiscal years 2016 through 2020 for highway, highway and motor vehicle safety, public transportation, motor carrier safety, hazardous materials safety, rail, and research, technology, and statistics programs.

Core Vision

Rooted in the 2008 and 2012 RTP/SCS plans, Connect SoCal's "Core Vision" centers on maintaining and better managing the transportation network we have for moving people and goods, while expanding mobility choices by locating housing, jobs and transit closer together and increasing investment in transit and complete streets. The Core Vision includes:

- **Sustainable Development**: Through our continuing efforts to better align transportation investments and land use decisions, we strive to improve mobility and reduce greenhouse gases by bringing housing, jobs and transit closer together.
- System Preservation and Resilience: "Fix it First" has been a guiding principle for prioritizing transportation funding in the RTP for the last decade. The cost of rebuilding roadways is eight times more than preventative maintenance. Preservation of the transportation system can extend the pavement life in a cost effective manner and can also improve safety
- **Demand & System Management**: Better managing the existing transportation system through demand management strategies and Intelligent Transportation Systems (ITS) yields significant mobility benefits in a cost-effective manner.
- **Transit Backbone**: Expanding the transit network and fostering development in transit-oriented communities is central to the region's plan for meeting mobility and sustainability goals while continuing to grow the regional economy.
- **Complete Streets**: Creating "complete streets" that are safe and inviting to all roadway users is critical to increasing mobility choices, reducing traffic fatalities and serious injuries and meeting greenhouse gas reduction targets.
- Goods Movement: The efficient movement of goods is critical to a strong economy and improves
 quality of life in the SCAG region by providing jobs and access to markets through trade. However,
 increased volumes of goods moving across the transportation system contribute to greater
 congestion, safety concerns and harmful emissions. It is critical to integrate land use decisions and
 technological advancements to minimize environmental and health impacts while fostering continued
 growth in trade and commerce.

Key Connections

Key Connections augment the Core Vision of the plan to address trends and emerging challenges while "closing the gap" between what can be accomplished through intensification of core planning strategies alone, and what must be done to meet increasingly aggressive greenhouse gas reduction goals. These Key Connections lie at the intersection of land use, transportation and innovation, aiming to coalesce policy discussions and advance promising strategies for leveraging new technologies and partnerships to accelerate progress on regional planning goals. The Key Connections include:

Smart Cities and Job Centers: Smart Cities connect people, vehicles and infrastructure, allowing them
to communicate in "real-time" through regional telecommunications networks. The Smart Cities and
Job Centers strategy aims to catalyze investments across sectors to make "virtual access" a costeffective and reliable option for all types of trips, expanding the air quality, congestion and VMT
reduction benefits the region already realizes through teleworking. While Smart Cities strategies can
be deployed universally, virtual access is particularly beneficial in rural communities where

destinations are far apart. Connect SoCal specifically envisions intensified deployment in sub-regional job centers to encourage more growth of both jobs and housing in areas with already high employment density. The Smart Cities and Job Centers strategy enables this by using integrated information and communication technologies to improve the efficiency and performance of the transportation system. It incorporates transit demand management (TDM) measures that encourage carpooling and transit, and parking strategies that reduce the cost to build new employment facilities within job centers. Also, this strategy builds upon promising trends in "co-working⁵" to promote alternatives for long-distance commuters who prefer not to telecommute. Strengthening these locally significant employment centers allows the region to capitalize on the economic and mobility benefits of compact development, where housing and jobs are closer together.

- Housing Supportive Infrastructure: The extraordinary cost of producing housing is a significant barrier to growth throughout Southern California, but also specifically, to achieving the level of infill and transit-oriented development anticipated in Connect SoCal. The Regional Housing Supportive Infrastructure strategy will help make it quicker for local jurisdictions to produce critically-needed housing. The costs of building parking, and sewer/water infrastructure through Development Fees can range from 10% to nearly 25% of construction costs. By implementing tax-increment finance districts, jurisdictions can plan and implement housing supportive infrastructure. With the increase in use of ridesourcing, right-sizing parking strategies, enabled by technology, can reduce the overall cost of housing construction in Connect SoCal's Priority Growth Areas.
- **Go Zones**: Go Zones are geographic areas where a suite of mobility service options are provided together with incentives to reduce dependency on personal automobiles. This expanded mobility ecosystem can include increased transit, bike share, enhanced active transportation infrastructure and incentives—such as a fee on solo driving during peak traffic periods. Incentives would encourage the use of shared modes or shift less time sensitive trips to off-peak times. Revenues collected from the fee would be used to fund local transportation improvements and support sustainability goals by contributing to reductions in GHG emissions. Go Zones can be designed with policies and discounts that address equity concerns and promote mobility options for commuters of various income levels.
- Accelerated Electrification: The Accelerated Electrification strategy offers a holistic and coordinated approach to de-carbonizing or electrifying passenger vehicles, transit and goods movement vehicles. Through greater coordination and deeper collaboration, this strategy aims to go beyond benefits achieved through state mandates alone. In the light-duty sector, Connect SoCal plans for greater incentives to increase sales of electric vehicles and strategies to increase the availability of charging infrastructure. Electric vehicles (EVs) currently make up only seven percent of new car sales, but the growth is healthy: in 2013 EVs made up just 2.4 percent of all new car sales statewide. For transit, in 2018 the California Air Resources Board voted to mandate purchases of electric buses. We can facilitate that process by working with transit agencies to ensure adequate charging stations and electricity rates. In the goods movement sector, the goal is to achieve a zero-emissions system as soon as possible while fostering early adoption of near-zero-emissions technologies in the near-term.

⁵ Co-working refers to the shared use of an office space by employees of several different firms as an alternative to a home office or traditional fixed workplace location.

Shared Mobility and Mobility as a Service: The future of transportation, like so many aspects of living in our region, will be shaped by technology and the ability to customize our choices. The rise of shared mobility and mobility as a service will allow residents to choose how to travel, depending on the time, distance or goal of their trip. "Shared mobility" refers to a broad range of transportation options, such as rental e-scooters and e-bikes, ridesourcing services like Uber and Lyft that some transit operators are partnering to provide first/last mile services or replace low performing bus routes, and on-demand app-based transit connections provided by vans and shuttles. "Mobility as a service," or MaaS, allows travelers to research and compare different transportation options from one screen and plan their trip accordingly. MaaS will also allow the traveler to book and pay for different segments of a multimodal trip with one click. This will make it increasingly critical that dense urban areas manage their curb space smartly, in order to ensure safe access for low-speed modes, ridesourcing providers, parking and local deliveries.

Transportation Strategies

The transportation strategies described in Connect SoCal are divided into two broad categories: Preserving and optimizing the region's current and future system and capital improvements by mode for completing the region's transportation system. In all, Connect SoCal includes \$638.9 billion in transportation system investments through 2045.

Preserve and Optimize Our Current System

A top priority for Connect SoCal is to maintain and preserve the transportation infrastructure through a "Fix it First" principle. Funding provided by Senate Bill 1 offers an opportunity to strategically reinvest in the transportation network to realize an improvement in the conditions of the existing system. Connect SoCal allocates approximately \$68 billion over the plan period to ensure a well maintained and resilient system for generations to come. Connect SoCal also seeks to optimize the existing transportation system to meet increased demand levels through the use of innovative strategies that leverage the existing transportation infrastructure. Key preservation and optimization strategies are:

Congestion Management Process. The Congestion Management Process (CMP) aims to provide effective management of the regional transportation system through monitoring and maintenance, demand reduction, analysis of local land use decisions, operational management strategies and strategic capacity enhancements. The CMP requires that roadway projects that significantly increase the capacity for single-occupancy Vehicles (SOVs) be addressed through a CMP. The CMP should provide an appropriate analysis of reasonable, multimodal travel demand reduction and operational management strategies for the corridor. If alternative strategies are neither practical nor feasible, appropriate management strategies must be considered for roadway capacity improvement projects that would increase SOV capacity.

Congestion Pricing. SCAG's planning efforts have focused on integrating pricing strategies to optimize operation, improve travel time reliability and offer travelers greater choices. Connect SoCal has identified three promising congestion pricing strategies: 1) Develop a network of express lanes to accommodate growing inter-county travel; 2) Establish a mileage-based user fees to generate a funding source for aging infrastructure and construction of other travel options; and 3) Develop Cordon/Area Pricing which involves charging a variable or fixed fee to drive into or within a highly congested area.

Transportation Demand Management. Transportation Demand Management (TDM) is a set of strategies that aims to reduce the demand for roadway travel, particularly from single-occupancy Vehicles (SOVs). Connect SoCal allocates \$7.3 billion through 2045 to implement TDM strategies throughout the region, including ridesharing and providing first/last mile services to and from transit, supporting telecommuting and alternative work schedules, as well as use of other modes such as transit, rail, bicycling, and walking, or other micro-mobility modes.

Transportation Systems Management. Transportation Systems Management (TSM) employs a series of techniques designed to maximize the capacity and efficiency of the existing transportation system. Examples of TSM strategies include Corridor System Management Plans (CSMPs) and system management initiatives (e.g., variable speed limits, signal synchronization, ramp metering, etc.), High Occupancy Toll (HOT) lanes, collision avoidance systems, universal transit fare cards and improved data collection.

Complete Our Transportation System

Strategies for improving and expanding the many modes of transportation that make up the regional network must be integrated closely with our strategies for how we use land. The success of transit, passenger rail, walking, bicycling and other forms of active transportation, our highways and arterials, the efficient movement of goods and our regional airport system all depend on a close relationship with how our region uses land and how we grow. This is particularly true when it comes to improving and building a transit system that can best serve people in communities throughout our region.

Transit. Since 1991, the region has spent more than \$77 billion on transit (in 2016 dollars). This trend is expected to continue, as the combined costs for transit capital projects and operations and maintenance (O&M) total nearly half of the investments in Connect SoCal. Connect SoCal includes significant investment across all transit modes, with \$66.8 billion toward transit capital projects, \$53.3 billion toward passenger rail, \$173.9 billion for transit O&M, and \$22.6 billion for passenger rail O&M from 2020 through 2045.

Passenger Rail. Connect SoCal vision for passenger rail in the SCAG region consists of four main elements: grow ridership, provide more frequent and new services, improve connectivity, and secure funding for Metrolink (commuter rail), Amtrak (intercity rail), and California High-Speed Rail and Southern California to Las Vegas (interregional rail).

Transportation Safety. Connect SoCal prioritizes the safety and mobility of the region's residents, including drivers and passengers, transit riders, pedestrians, and bicyclists. SCAG's Safety strategies are largely grounded in the State's Strategic Highway Safety Plan that helps member agencies interested in pursuing safety initiatives and strategies at the local level. SCAG outlines detailed strategies and actions that local jurisdictions and county transportation commissions can undertake to enhance safety in our region in the transportation safety and security report.

Active Transportation. Connect SoCal is expected to increase the number of people making active transportation trips by more than two million, increasing the mode share from 7.8 percent in 2016 to 10.4 percent in 2045. In order to achieve these outcomes, planned future investments are nearly doubled from \$12.9 billion in the 2016 RTP/SCS to \$22.5 billion in Connect SoCal. The active transportation investments

in Connect SoCal are allocated across a range of active transportation strategies that address planning, policy making and implementation for both short and regional trips. Additionally, they are designed to improve environmental justice outcomes and enhance the safety and comfort of people walking and bicycling.

Highway and Arterial Network. Connect SoCal includes capital improvements that will address the choke points and gaps in the system, to ensure the system is operating optimally and provides adequate and equitable access to opportunities. Connect SoCal emphasizes working with partner implementing agencies to prioritize projects that preserve and optimize the existing highway and arterial network. Projects include interchange improvements, auxiliary lanes, general purpose lanes, carpool lanes, toll lanes and Express/HOT lanes.

Regional Express Lane Network. The regional express lane network integrates congestion pricing to optimize existing capacity on freeways and offer users greater travel time reliability and choices. The regional express lane network included in Connect SoCal builds on the successful implementation of the I-10 and I-110 Express Lanes in Los Angeles County and the recent extension of the SR-91 Express Lanes between Orange and Riverside Counties. Additional efforts underway include planned express lanes on the I-105 in Los Angeles County, the I-15 in Riverside County, the I-15 and the I-10 in San Bernardino County and the I-405 in Orange County and Los Angeles County.

Goods Movement. SCAG has developed key strategies to realize a regional vison that maintains regional economic competitiveness, promotes job creation and retention, increased freight mobility and safety, and mitigating environmental impacts. The key strategies include:

- Infrastructure investments to improve freight mobility
- Last mile freight
- Workforce development
- Truck bottleneck relief strategies
- Goods movement warehouse distribution
- Goods movement environmental strategies

Specific details of these goods movement strategies can be found in the Goods Movement Technical Report⁶.

Aviation. Connect SoCal focuses on air passenger and cargo activity from the perspective of how the traffic coming and going from the airports affects the region's roads, highways, and transit systems, and how to improve ground transportation access to the airport. Strategies include working with airports and transportation agencies on airport ground access projects, effective analysis and planning, and facilitating ongoing communication and collaboration between airports, transportation agencies and government.

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⁶ https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal_goods-movement.pdf?1606001690.

Technological Innovations and Emerging Technologies. Emerging technologies in transportation and mobility are primarily developed and advanced by the private sector but can be accelerated and promoted by government regulation and incentives, and it is important that public agencies monitor the development of such innovations. Emerging technology in transportation and mobility are themes threaded throughout Connect SoCal. SCAG has completed wide-ranging analysis of recent and emerging technologies principally associated with light-duty vehicles that could potentially impact travel behavior and location choices in the region over the next 25 years.

SCAG recognizes that many new technologies provide consumer solutions and have made inroads in public acceptance due to advancements in smartphones, mobile banking, navigational apps and social networking. Improvements in regional mobility will therefore be derived from how technology is used rather than from any individual technological development. Moreover, strategies to use the benefits of emerging technologies to advance Connect SoCal goals should be viewed through the lens of improving health, safety, equity and mobility outcomes.

Sustainable Communities Strategy

As part of the state's mandate to reduce per-capita GHG emissions from automobiles and light trucks, Connect SoCal presents strategies and tools that are consistent with local jurisdictions' land use policies and incorporate best practices for achieving the state-mandated reductions in GHG emissions at the regional level through reduced per-capita vehicle miles traveled (VMT). The following strategies are intended to be supportive of implementing the regional Sustainable Communities Strategy. Several are directly tied to supporting related GHG reductions while others support the broader goals of Connect SoCal:

Focus New Growth Near Destinations and Mobility Options

- Emphasize land use patterns that facilitate multimodal access to work, educational and other destinations
- Focus on a regional jobs/housing balance to reduce commute times and distances and expand job
 opportunities near transit and along center-focused main streets
- Plan for growth near transit investments and support implementation of first/last mile strategies
- Promote the redevelopment of underperforming retail developments and other outmoded nonresidential uses
- Prioritize infill and redevelopment of underutilized land to accommodate new growth, increase amenities and connectivity in existing neighborhoods
- Encourage design and transportation options that reduce the reliance on and number of solo car trips (this could include mixed uses or locating and orienting close to existing destinations)
- Identify ways to "right size" parking requirements and promote alternative parking strategies (e.g. shared parking or smart parking)

Promote Diverse Housing Choices

- Preserve and rehabilitate affordable housing and prevent displacement
- Identify opportunities for new workforce and affordable housing development

- Create incentives and reduce regulatory barriers for building context-sensitive accessory dwelling units to increase housing supply
- Provide support to local jurisdictions to streamline and lessen barriers to housing development that supports reduction of greenhouse gas emissions

Leverage Technology Innovations

- Promote low emission technologies such as neighborhood electric vehicles, car sharing, bike sharing and scooters by providing supportive and safe infrastructure such as dedicated lanes, charging and parking/drop-off space
- Improve access to services through technology such as telework and telemedicine as well as commuter incentives such as a "mobility wallet", an app-based system for storing transit and other multi-modal payments
- Identify ways to incorporate "micro-power grids" in communities, for example solar energy, hydrogen fuel cell power storage and power generation

Support Implementation of Sustainability Policies

- Pursue funding opportunities to support local sustainable development implementation projects that reduce greenhouse gas emissions
- Support statewide legislation that reduces barriers to new construction and that incentivizes development near transit corridors and stations
- Support cities in the establishment of Enhanced Infrastructure Financing Districts (EIFDs),
 Community Revitalization and Investment Authorities (CRIAs), or other tax increment or value capture tools to finance sustainable infrastructure and development projects
- Work with local jurisdictions/communities to identify opportunities and assess barriers to implement sustainability strategies
- Enhance partnerships with other planning organizations to promote resources and best practices in the SCAG region
- Continue to support long range planning efforts by local jurisdictions
- Provide educational opportunities to local decisions makers and staff on new tools, best practices and policies related to implementing the Sustainable Communities Strategy

Promote a Green Region

- Support development of local climate adaptation and hazard mitigation plans, as well as project implementation that improves community resiliency to climate change and natural hazards
- Support local policies for renewable energy production, reduction of urban heat islands and carbon sequestration
- Integrate local food production into the regional landscape
- Promote more resource efficient development focused on conservation, recycling and reclamation
- Preserve, enhance and restore regional wildlife connectivity
- Reduce consumption of resource areas, including agricultural land
- Identify ways to improve access to public park space

Transportation Control Measures (TCMs)

Connect SoCal includes, as a subset of transportation strategies, SIP-committed transportation programs and projects that reduce vehicle use or change traffic flow or congestion conditions for the purposes of reducing emissions from transportation sources and improving air quality, better known as Transportation Control Measures or "TCMs." TCMs are either one of the types listed in CAA section 108, or any other measures for the purpose of reducing emissions or concentrations of air pollutants from transportation sources by reducing vehicle use or changing traffic flow or congestion conditions. Pursuant to U.S. EPA's Transportation Conformity Regulations, vehicle technology-based, fuel-based, and maintenance-based measures which control the emissions from vehicles under fixed traffic conditions are not TCMs. In the South Coast Air Basin, TCMs include the following three main categories of transportation improvement projects and programs that have funding programmed for right-of-way and/or construction in the first two years of the 2021 FTIP:

- 1. Transit and non-motorized modes;
- 2. High Occupancy Vehicle (HOV) Lanes their pricing alternatives; and
- 3. Information-based Transportation Strategies.

Connect SoCal includes TCM type projects throughout the entire planning horizon (i.e., 2045) and are all part of the regional transportation strategy for the 2022 South Coast AQMP. Those TCM type projects which have funding programmed for right of way or construction in the first two years of the prevailing FTIP are considered "committed" for air quality planning purposes in the applicable SIP. Per US EPA's Transportation Conformity Regulations, these committed TCMs are required to receive funding priority and be implemented in a timely manner. In the event that a committed TCM cannot be delivered or will be significantly delayed, the TCM must be substituted for. It is important to note that as the SCAG's FTIP is updated every two years, new committed TCMs are automatically added to the applicable SIP from the previous FTIP. As a result of the TCM "rollover process," thousands of committed TCM projects have been implemented over the last two decades. The "rollover" of TCMs updates the AQMPs/SIPs to include new projects in addition to ongoing projects from previous FTIPs. As the FTIP gets adopted every two years, new TCMs emerge and completed TCMs get removed.

<u>Plan Emissions Reduction Benefits</u>

Based on the travel activity projections generated from SCAG's Regional Travel Demand Model, an estimate of emissions associated with on-road mobile sources can be generated using CARB's Emission Factor Model (EMFAC). Through this process, future emissions from on-road mobile sources can be compared for the regional transportation system assuming implementation of the Connect SoCal versus the baseline (without Connect SoCal implementation). It is generally understood that potential future improvements in air quality deriving from Connect SoCal will likely be much smaller, since motor vehicle emissions have and will continue to be substantially reduced through technology (i.e., emission standards for new engines and in-use standards for existing fleets).

Under two different assumptions on future vehicle technology, Tables 1-1 and 1-2 compare VOC (ROG) and NOx emissions between implementation of Connect SoCal and the Connect SoCal Baseline⁷ for the following years: 2025, 2035, and 2045. Specifically, the emission reduction benefits shown in Table 1-1 are based on the assumption that the EMFAC2017 vehicle fleet mix and emission factors in the future years remain the same as in 2016 (the Connect SoCal base year); while the emission reduction benefits shown in Table 1-2 factor in the future improvements in the fleet mix and emission factors as reflected in the EMFAC2017. Note that the Connect SoCal emission reductions in Tables 1-1 and 1-2 are not double-counted toward the emission reductions presented in the main report of the 2022 AQMP because Connect SoCal is considered in the AQMP air quality modeling baseline.

As shown in Table VI-C 1-1, if the future vehicle fleet mix and emission factors are held constant as those in the Connect SoCal base year 2016, Connect SoCal is estimated to yield a reduction in NOx emissions by about 1.5 tons per day (tpd) in 2025, 4.1 tpd in 2035, and 6.8 tpd in 2045 compared with their respective Baselines without Connect SoCal. However, if accounting for mandated future improvement in vehicle fleet mix and emission factors, the estimated NOx reduction from Connect SoCal is reduced by more than half, as shown in Table VI-C 1-2, because the vehicles as a whole are becoming much cleaner and reduction of every vehicle mile traveled from Connect SoCal yields less NOx reduction.

TABLE VI-C-1-1. Regional Transportation Emissions (annual average) (tons per day)
Assuming Constant 2016 Vehicle Fleet Mix and Emission Factors

	VOC (ROG)			NOx		
	2025	2035	2045	2025	2035	2045
Connect SoCal	97.2	99.9	103.4	227.2	248.9	280.5
Connect SoCal Baseline	99.0	104.2	110.0	228.8	253.0	287.3
Connect SoCal Reduction	1.8	4.4	6.5	1.5	4.1	6.8

Note: Calculated with EMFAC2017 Emission Model

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⁷ Connect SoCal Baseline is defined as the future transportation system that will result from current programs without Connect SoCal's land use and transportation strategies. For Connect SoCal, the Baseline is based upon the adopted 2019 FTIP.

TABLE VI-C1-2. Regional Transportation Emissions (annual average) (tons per day)
Based on Vehicle Fleet Mixes and Emission Factors as Reflected in EMFAC2017

	VOC (ROG)			NOx		
	2025	2035	2045	2025	2035	2045
Connect SoCal	51.1	36.5	31.8	80.7	66.6	71.5
Connect SoCal Baseline	52.0	38.1	33.8	81.4	67.7	73.4
Connect SoCal Reduction	0.9	1.6	2.0	0.6	1.1	2.0

Note: Calculated with EMFAC2017 Emission Model

TCM Emissions Reduction Benefits

To estimate the emission benefits of TCMs, the socio-economic data variables of Connect SoCal were held constant while the transportation network was modified to account for the TCMs in Connect SoCal (both TCM-type projects and committed TCMs). In other words, the TCM emissions reduction benefits are the difference between Connect SoCal with TCMs and Connect SoCal without TCMs. It should be noted that this analysis is done for illustrative purposes, as the regional transportation strategy is appropriately viewed on a systems-level basis, and not by its components since each of the individual transportation improvements and strategies affect each other and the system. Further, it should be noted that the TCM emission reductions in Tables VI-C 2-1 and VI-C 2-2 are not double-counted toward the emission reductions presented in the main report of the Draft 2022 AQMP because the TCMs are part of Connect SoCal which is considered in the AQMP air quality modeling baseline.

Under the same two different assumptions on future vehicle technology, Tables VI-C 2-1 and VI-C 2-2 show the results of the TCM modeling analysis for years 2021 and 2035 (between the 2008 8-hour ozone attainment year of 2031 and the 2015 8-hour ozone attainment year of 2037). Specifically, the emission reduction benefits shown in Table VI-C 2-1 are based on the assumption that the EMFAC2017 vehicle fleet mix and emission factors in the future years remain the same as in 2016 (the Connect SoCal base year); while the emission reduction benefits shown in Table VI-C 2-2 factor in the future improvement in the fleet mix and emission factors as reflected in the EMFAC2017.

As shown in Tables VI-C 2-1 and VI-C 2-2 and compared to previous AQMPs/SIPs, potential future improvements in air quality deriving from TCMs are consistently diminishing for two reasons. On one hand, motor vehicle emissions have and will continue to be substantially reduced through technology. On the other hand, most of the TCM projects in the South Coast Air Basin have been adopted into the SIP and have already been implemented. Thus, the emission reductions associated with these projects are now included in the Connect SoCal baseline emissions and no longer show up in the TCM benefit values.

TABLE 2-1. TCM Emissions (annual average) (tons per day)
Assuming Constant 2016 Vehicle Fleet Mix and Emission Factors

	VOC (ROG)		NOx		
	2021	2035	2021	2035	
Connect SoCal	96.6	99.9	215.8	268.0	
Connect SoCal without TCM	97.1	101.1	216.2	269.3	
TCM Reduction	0.5	1.2	0.4	1.3	

Note: Calculated with EMFAC2017 Emission Model

TABLE 2-2. TCM Emissions (annual average) (tons per day)

Based on Vehicle Fleet Mixes and Emission Factors as Reflected in EMFAC2017

	VOC (ROG)		NOx		
	2021	2035	2021	2035	
Connect SoCal	63.9	36.5	119.7	66.6	
Connect SoCal without TCM	64.2	36.9	120.0	66.9	
TCM Reduction	0.3	0.4	0.3	0.3	

Note: Calculated with EMFAC2017 Emission Model

Plan Investment

To accomplish the ambitious goals of Connect SoCal through 2045, SCAG forecasts expenditures of \$638.9 billion. Forecasted revenues comprise both existing and several new funding sources that are reasonably expected to be available for Connect SoCal through its horizon year of 2045, which together total \$638.9 billion. Reasonably available revenues include adjustments to federal gas tax rates, and replacement of gas taxes with more direct mileage-based user fees (or equivalent fuel tax adjustment). These and other categories of funding sources were identified as reasonably available on the basis of their potential for revenue generation, historical precedence and the likelihood of their implementation within the time frame of Connect SoCal. In accordance with federal guidelines, the Connect SoCal includes strategies for ensuring the availability of these sources.

Cost-Benefit Analysis

Implementation of Connect SoCal will secure a safe, efficient, sustainable and prosperous future for the SCAG region. To demonstrate how effective Connect SoCal would be toward achieving our regional goals, SCAG conducted a Connect SoCal vs. Connect SoCal Baseline cost-benefit analysis – essentially comparing how the region would perform with and without implementation of the Connect SoCal.

The cost-benefit analysis utilizes the Cal-B/C Model to calculate regional network benefits. It calculates and aggregates scenario benefits after travel impacts are evaluated using a regional travel demand model. SCAG's regional travel demand model data for Connect SoCal was summarized in one mile per hour (1-mph) speed bins to facilitate analysis. The benefit/cost ratio compares the incremental benefits with the incremental costs of multimodal transportation investments. The benefits are divided into the following four categories:

- Travel time savings resulting from reduced travel delay
- Air quality improvements
- Safety improvements
- Reductions in vehicle operating costs

For these categories, the economic values and parameters found in Cal-B/C Model are utilized in conjunction with SCAG's regional travel demand model outputs to estimate the benefits of Connect SoCal compared with the Baseline alternative. Most of these benefits are a function of changes in VMT and Vehicle Hours Traveled (VHT). Not all impacts are linear, as reductions in congestion may potentially either increase or decrease vehicle operating costs and emissions. Delay savings are reflected directly in the VHT statistics.

To estimate the benefit/cost ratio, the benefits in each category are converted into dollars and added together. These are then divided by the total incremental costs of the Connect SoCal transportation system investments to generate a ratio.

The results of the benefit/cost analysis indicate that the investments contained in Connect SoCal provide a return of \$2.06 for every dollar invested. For this analysis, all benefits and costs are expressed in 2016 dollars. Benefits are estimated over the 25-year Connect SoCal planning period from 2020 to 2045. The user benefits are estimated using the Cal-B/C benefit/cost framework and incorporate SCAG Regional Travel Demand Model outputs. The costs include the incremental capital expenditures over the entire Connect SoCal planning period. Further information on the economic values represented in the Cal-B/C Model can be found at the following:

https://dot.ca.gov/programs/transportation-planning/economics-data-management/transportation-economics

Compared with the alternative without the Plan, Connect SoCal would result in significant benefits to our region, not only with respect to mobility and accessibility, but also in the areas of air quality, economic growth and job creation, sustainability and environmental justice. Some of the benefits of Connect SoCal implementation include:

- Increase the combined percentage of work trips made by carpooling, active transportation, and public transit by 3 percent, with a commensurate reduction in the number of commuters traveling by singleoccupancy vehicle.
- Reduce VMT per capita by 5 percent and vehicle hours traveled per capita by 9 percent (for automobiles and light/medium-duty trucks) as a result of regional transit service.
- Increase transit use for work trips by 2 percent, as a result of improved transit service and more transit-oriented, mixed-use development.
- Reduce travel delay per capita by 26 percent.
- Create more than 264,500 new jobs annually due to enhanced economic competitiveness and improved overall regional economic performance. This more competitive economic environment would be the result of an improved regional transportation system and reduced levels of congestion
- Reduce greenfield development by 29 percent. Conservation of open space and agricultural lands are achieved by focusing new residential and commercial development in higher density areas already equipped with the requisite urban infrastructure.
- Increase the share of new regional household growth occurring in High Quality Transit Areas (HQTAs) by 6 percent, and increase the share of new job growth in HQTAs by about 15 percent. With more people living and working in locations near convenient and efficient transit options, congestion levels will be reduced accordingly.

Connect SoCal prioritizes the attainment of all applicable federal and state performance requirements. The plan meets all federal and state performance requirements. The plan meets all federal provisions for transportation conformity as defined under the federal Clean Air Act and therefore demonstrates transportation conformity. Connect SoCal achieves per capita GHG emission reductions relative to 2005 levels of eight percent in 2020, and 19 percent in 2035, thereby meeting the GHG reduction targets established by the California Air Resources Board (ARB) for the SCAG region.

For more details of the cost-benefit analysis of Connect SoCal, please refer to 1) Chapter 5: Measuring Our Progress, 2) Economic and Job Creation Analysis Technical Report, and 3) Performance Measures Technical Report (https://scag.ca.gov/read-plan-adopted-final-plan).

Section III. Reasonably Available Control Measure Analysis

Introduction

Clean Air Act Section 172(c)(1) requires SIPs to provide for the implementation of all reasonably available control measures (RACM) as expeditiously as practicable. Guidance on interpreting RACM requirements in the context of the 1990 Amendments was set forth in the General Preamble (57 FR 13498, 13560) in 1992. In the General Preamble, U.S. EPA interpreted section 172(c)(1) as imposing a duty on States to consider all available control measures and to adopt and implement measures that are reasonably available for implementation in a specific nonattainment area. It also retained an earlier interpretation of RACM that it would not be reasonable to require the implementation of measures that do not advance the date for attainment.

With regard to TCMs, U.S. EPA's guidance indicates that it is inappropriate to presume that all Section 108(f)(1)(A) measures of the CAA are available in all nonattainment areas. Instead, States should consider Section 108(f)(1)(A) measures as potential options that are not exhaustive, but indicative of the types of measures that should be considered. In addition, any measure identified as reasonably available during the public comment period should also be considered for implementation. In addition, States could reject measures as not reasonably available for reasons related to local conditions. States are required to justify why available measures were not considered RACM and not adopted in the SIP. As codified for the 2008 8-hour ozone NAAQS at 40 CFR 51.1312(c), U.S. EPA is retaining the existing general RACM requirements for purposes of the 2015 8-hour ozone NAAQS.⁸

To meet the RACM requirements articulated in the U.S. EPA guidance described above, this RACM analysis was performed following a four-step process. The first step is a description of the process by which SCAG and related transportation agencies in the South Coast Air Basin identify, review, and make enforceable commitments to implement TCMs. The second step is the assembly and review of a list of control measures recently implemented in other Serious, Severe, and Extreme ozone nonattainment areas. This effort involved a review of measures implemented in California nonattainment areas as well as those located in other states, and the organization of those measures in the 16 categories specified in CAA §108(f)(1)(A). The third step is the determination of RACM by contrasting the list of candidate measures with measures implemented to date in the South Coast Air Basin, as well as any new TCMs in the current AQMP. Finally, the fourth step is the provision of reasoned justification for any of the available measures that have yet been implemented. These justifications must address criteria described in the above-cited guidance.

⁸ https://www.govinfo.gov/content/pkg/FR-2018-12-06/pdf/2018-25424.pdf

Step 1. SCAG RACM/TCM Rollover Development Process

While the SCAG Region has an extensive, systematic TCM development program continually updated through the FTIP process, Serious and worse nonattainment areas are obligated during SIP preparation to evaluate TCMs and determine whether they qualify as RACM.

The RACM process relies predominantly on a continuous process of updating and adding TCMs in the South Coast Air Basin. The current TCM "Rollover Process" was established for the South Coast Air Basin to replace a process that developed TCMs each time a SIP was produced with a continuous, ongoing TCM process. This process continues to govern the selection and implementation of TCMs today. TCMs are continuously identified and reviewed throughout the transportation planning process. SCAG's ongoing public outreach effort, including an involved interagency input process via SCAG's Transportation Conformity Working Group (TCWG), helps ensure that the process to identify and review TCMs is robust, inclusive, and comprehensive. Development of TCMs arises from multiple processes and multiple sources including CTCs, subregional agencies, task forces, committees, and the public. As part of the RTP and FTIP development process, the transportation project funding and scheduling procedures ensure that TCMs are developed, sponsored, and clearly identified throughout the process and implemented on schedule.

Step 2. Assembly and Review of Candidate TCM RACM

U.S. EPA and related court decisions have maintained that TCMs considered RACM must be measures that (a) advance the attainment date, typically by at least one year and (b) are technologically and economically feasible. Measures must pass both the advance attainment and technological/economic feasibility tests to be deemed RACM.

U.S. EPA guidance documents identify the types of measures to be considered. CAA §108(f)(1)(A) provides a list of the following sixteen categories of TCMs that are potential options and should be considered indicative types of TCMs:

- i. Programs for improved use of public transit;
- ii. Restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high occupancy vehicles;
- iii. Employer-based transportation management plans, including incentives;
- iv. Trip-reduction ordinances;
- v. Traffic flow improvement programs that achieve emission reductions;
- vi. Fringe and transportation corridor parking facilities, serving multiple occupancy vehicle programs or transit service;
- vii. Programs to limit or restrict vehicle use in downtown areas or other areas of emission concentration, particularly during periods of peak use;
- viii. Programs for the provision of all forms of high-occupancy, shared-ride services, such as the pooled use of vans;
- ix. Programs to limit portions of road surfaces or certain sections of the metropolitan area to the use of non-motorized vehicles or pedestrian use, both as to time and place;
- x. Programs for secure bicycle storage facilities and other facilities, including bicycle lanes, for the convenience and protection of bicyclists, in both public and private areas;

- xi. Programs to control extended idling of vehicles;
- xii. Programs to reduce motor vehicle emissions, consistent with Title II of the Clean Air Act, which are caused by extreme cold start conditions;
- xiii. Employer-sponsored programs to permit flexible work schedules;
- xiv. Programs and ordinances to facilitate non-automobile travel, provision and utilization of mass transit, and to generally reduce the need for single-occupant vehicle travel, as part of transportation planning and development efforts of a locality, including programs and ordinances applicable to new shopping centers, special events, and other centers of vehicle activity;
- xv. Programs for new construction and major reconstruction of paths, tracks or areas solely for the use by pedestrian or other non-motorized means of transportation, when economically feasible and in the public interest; and
- xvi. Programs to encourage the voluntary removal from use and the marketplace of pre-1980 model year light duty vehicles and pre-1980 model light duty trucks.

U.S. EPA guidance states that these sixteen categories are an illustrative, but not exhaustive list. The General Preamble also states that U.S. EPA does not presume that "control measures are reasonably available in any or all areas," therefore, TCMs need to be evaluated on an area-by-area basis to determine which are reasonably available. In addition to the measures listed above, the General Preamble cites other sources to include TCMs that were (a) suggested during public comments (e.g. at workshops, public hearings, in written comments, etc.); (b) adopted in other nonattainment areas of the country; and (c) specifically identified by the U.S. EPA (i.e., U.S. EPA TCM database, support documents for rulemaking, etc.). It is important to note that, pursuant to U.S. EPA's Transportation Conformity Regulations, vehicle technology-based, fuel-based, and maintenance-based measures which control the emissions from vehicles under fixed traffic conditions are not TCMs.

To develop a list of candidate RACMs, SCAG performed a comprehensive review of available TCMs in California, as well as in other states. SCAG reexamined the candidate RACM identified during the comprehensive RACM analysis performed for the 2016 AQMP and updated TCMs based on new ozone SIPs developed since the last RACM analysis. The SIPs reviewed by SCAG include all applicable SIPs from Serious, Severe, and Extreme nonattainment areas under the 2008 8-hour ozone standards¹⁰ that were not available for review in the previous 2016 AQMP. Tables VI-C-4 lists these additional ozone nonattainment area SIPs that SCAG reviewed for candidate measures as part of this analysis.

Additionally, TCMs were discussed and reviewed at numerous TCWG meetings as part of the 2019 FTIP, 2021 FTIP, Connect SoCal, and 2022 AQMP. Further, SCAG has an extensive and robust public participation process for the development of the RTP and the FTIP through ongoing public meetings, and technical, advisory, and policy committees. These groups generally meet on a monthly or quarterly basis and provide explicit opportunities for the public to participate and contribute.

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⁹ Seitz, John S. (December 2, 1999). Memo from John Seitz: Guidance on the Reasonably Available Control Measures (RACM) Requirement and Attainment Demonstration Submissions for Ozone Nonattainment Areas. Available at: http://www.epa.gov/ttn/oarpg/t1/memoranda/revracm.pdf.

¹⁰ U.S. EPA's ozone standard nonattainment area designations are available at https://www.epa.gov/green-book

TABL	E VI-C-4. 8-Ho	our Ozone Standard Nonattainment Areas Reviewed for RACM
Region	Designation	Applicable SIP
Chicago- Naperville, Illinoi- Indiana-Wisconsin	Serious	Draft Redesignation Request and Maintenance Plan for the Illinois Portion of the Chicago Ozone Nonattainment Area for the 2008 Ozone Standard
Coachella Valley, California	Severe 15	Final 2016 Air Quality Management Plan
Dallas-Fort Worth, Texas	Serious	Dallas-Fort Worth Serious Classification Attainment Demonstration State Implementation Plan Revision for the 2008 Eight-Hour Ozone National Ambient Air Quality Standard
Denver-Boulder- Greeley-Ft, Colorado	Serious	Serious State Implementation Plan for the Denver Metro and North Front Range Ozone Nonattainment Area, December 18, 2020
Eastern Kern, California	Severe 15	2017 Ozone Attainment Plan For 2008 Federal 75 ppb 8-Hour Ozone Standard
Houston- Galveston- Brazoria, Texas	Serious	Houston-Galveston-Brazoria Serious Classification Attainment Demonstration State Implementation Plan Revision for the 2008 Eight-Hour Ozone National Ambient Air Quality Standard
New York- Northern New Jersey- Long Island, Connecticut	Serious	Revision to Connecticut's State Implementation Plan Ozone Attainment Demonstration for Areas Classified Serious Nonattainment for the 2008 Ozone Standards, October 2021 8-Hour Ozone Attainment Demonstration for the Connecticut Portion of the New York-Northern New Jersey-Long Island (NY-NJ-CT) Nonattainment Area Technical Support Document
New York- Northern New Jersey- Long Island, New York	Serious	New York State Implementation Plan for the 2008 Ozone National Ambient Air Quality Standards – New York-N. New Jersey-Long Island, NY-NU-CT Serious Nonattainment Areas, 2021
San Diego, California	Severe 15	2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County
San Joaquin Valley, California	Extreme	2016 Ozone Plan for 2008 8-Hour Ozone Standard
Sacramento, California	Severe 15	Sacramento Regional 2008 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan, 2017
Ventura, California	Serious	Final 2016 Ventura County Air Quality Management Plan
Western Mojave	Severe 15	MDAQMD Federal 75 ppb Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)
Western Nevada County, California	Serious	Ozone Attainment Plan, Western Nevada County, State Implementation Plan for the 2008 Primary Federal 8-Hour Ozone Standard of .075 ppm, 2018

In summary, SCAG performed the RACM analysis based on information reviewed from the following sources:

- CAA Section 108(f)(1)(A)
- 2016 South Coast AQMP TCM RACM Analysis
- Other Serious and worse ozone nonattainment areas in California
- Other Serious and worse ozone nonattainment areas outside California
- SCAG RTP and FTIP Updates since adoption of 2016 RTP/SCS
- Interagency Consultation (TCWG)
- Transportation Committee, Energy and Environment Committee, and Active Transportation Working Group meeting materials and input

SCAG reviewed the candidate measures to determine which could be considered RACMs. As discussed above, the RACM TCM requirement consists of two core criteria that must be satisfied: (a) TCMs must advance attainment of the air quality standards; and (b) TCMs must be both technologically and economically feasible. U.S. EPA has not provided specific definitions on these core criteria, but has preferred to allow flexibility in each region's determination.

In practice, agencies have based their determination of the first criteria on whether a measure, or group of measures, would help an area achieve attainment one year earlier than in the absence of the measure, or group of measures. In other words, TCM implementation must significantly reduce emissions to facilitate attainment of the NAAQS one year earlier than without the TCMs. Considering the magnitude of the emissions reductions necessary to demonstrate attainment in the South Coast Air Basin, the implementation of every possible TCM is not expected to meet this criterion. Technological feasibility has been determined in terms of local factors, such as environmental impacts, availability of control measures, and ability to achieve the emission reductions. Project cost-effectiveness has been considered a determining factor for economic feasibility.

Step 3. Determining RACM Measures

For this step of the RACM analysis, SCAG compared the list of measures implemented within the South Coast Air Basin with those implemented in other areas. SCAG then organized measures, including candidate measures and those measures currently implemented in the region, into the sixteen categories specified in CA §108(f)(1)(A). There is no formal requirement on how to organize TCMs. However, SCAG utilized this organization scheme as a way to highlight those measures that fall within the sixteen CAA categories, which are formally recognized as "TCMs" and subject to CAA and federal conformity requirements. In addition, a category titled "Other Measures" includes TCMs that do not fall in any of the sixteen CAA §108(f)(1)(A) categories. SCAG found a small number of candidate measures that were not currently implemented in the region and not included in the 2016 AQMP TCM RACM analysis. New measures added to those reviewed as part of the 2016 RACM analysis are highlighted in bold font in Attachment B.

Step 4. Reasoned Justification

The fourth and last step is to provide a reasoned justification for any of the available measures that have yet been implemented or will not be implemented. In 1999, U.S. EPA issued a memorandum of guidance¹¹ which states that in order to determine whether a state has adopted all RACMs necessary for attainment and as expeditiously as practicable, the state must explain why the selected implementation schedule is the earliest schedule based on the circumstances of the area. This indicates that states can reject measures as not reasonably available for reasons related to local conditions. In such cases, states are obligated to provide justification as to why potentially reasonable measures have not been adopted. Valid reasons for rejecting a measure include: (a) it would not advance the attainment date, (b) it is economically infeasible, or (c) it is technologically infeasible.

The complete listing of all candidate measures evaluated for RACM determination is included in Attachment B. A "Measure Number" is assigned for each strategy for ease of discussion (not rank in priority). The "Description" column provides a brief description of the relevant measure in discussion. "Has It Been Implemented?" confirms whether the measure is currently implemented in the SCAG region. The final "Reasoned Justification for Not Implementing" column provides a reasoned justification for those measures that were not considered RACM. SCAG appropriately considered a number of factors that included technological and economic feasibility, enforceability, geographic applicability, and ability to provide emission reductions. Of the TCMs that were deemed candidate measures, none were found to meet the criteria for RACM implementation of advancing attainment and technological/economic feasibility.

Conclusion

CAA Section 172(c)(1) requires SIPs to provide for the implementation of all TCM RACM as "expeditiously as practicable." U.S. EPA and related court decisions have maintained that TCMs considered RACM must be measures that 1) advance the attainment date, typically by at least one year and 2) are technologically and economically feasible. Measures must pass both the advance attainment and technical/economic feasibility tests to be deemed RACM.

Based on a comprehensive review of TCMs in other Serious or worse ozone nonattainment areas or otherwise identified, it is determined that the TCMs being implemented in the South Coast Air Basin are inclusive of all TCM RACM. None of the candidate measures reviewed herein that have not been implemented meet the criteria for RACM implementation.

SCAG and the local transportation agencies have established a comprehensive, formal process for identifying, evaluating, and selecting TCMs. The regular RTP, FTIP, and AQMP/SIP public update processes ensure that TCM identification and implementation is a routine consideration that helps SCAG and the South Coast AQMD in the effort to demonstrate attainment of applicable NAAQS.

¹¹ Seitz, John S. (December 2, 1999). Memo from John Seitz: Guidance on the Reasonably Available Control Measures (RACM) Requirement and Attainment Demonstration Submissions for Ozone Nonattainment Areas. Available at: http://www.epa.gov/ttn/oarpg/t1/memoranda/revracm.pdf

Attachment A: Committed Transportation Control Measures (TCMs)¹²

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
ARCADIA	LATP16S004	7.7-mile Class 2 bike lanes on Highland Oaks Dr, 1st Av, Baldwin Av, Sierra Madre Bvld, Sycamore Av, Colorado Blvd, Santa Clara St, and Huntington Dr, El Monte Av, Centennial Wy, Live Oak Av, and Sunset Blvd; 13.30- mile Class 3 bike routes on 1st Av (sharrows), 2nd Av, Sierra Madre Blvd, Orange Grove Av, Campus Dr, Camino Real Av, and Longden Av, Holly Av, Highland Oaks Dr, Virginia Dr, Elevado Av, Golden West Av, Lemon Av, Duarte Rd, & Sunset Blvd; Bike detection & parking	Completed
ARTESIA	LATP17M023	Promote multi-modal connections to other major thoroughfares by incorporating bike lanes, upgrading ADA ramps, repairing uplifted or uneven sidewalks, and enhancing traffic calming by installing safety pedestrian refuge along Norwalk Boulevard to reduce speed limit. Improvements along Norwalk (1.24 miles) and Artesia (1.15 miles) Boulevards between city limits to city limits.	Completed
AVALON	LAF9600	City of Avalon Five-Corner Comprehensive Pedestrian Project: The project proposes to construct new- permanent sidewalks, median safety islands, traffic calming (round-about) and lighting in order to provide safer access for pedestrians. The total project is approximately .25 miles in length.	Completed
AZUSA	LAF5309	City of Azusa Traffic Management System. This project will upgrade traffic signals at 43 intersections in the City of Azusa. The project will fund the design and construction/implementation of controllers, wiring, detection, conduit, fiber optic, countdown pedestrian heads, signals, video detection, CCTV cameras and traffic control and monitoring upgrades at the 43 intersections.	Completed
BALDWIN PARK	LATP17S029	Construct 2.3 miles of Class I shared-use path ("trail"). Develop conceptual designs for 6.8 mile Class I trail along Walnut Creek and 15.3 miles of on-street Class II and Class III bikeways.	6/6/2022
BEVERLY HILLS	LAF9537	Beverly Hills Bike Share Program: Regionally-compatible, public bicycles for local/regional non vehicle mobility, first/last miles connection to bus and Purple Line rail transit, reduce air pollutants, promote healthy lifestyles	12/31/2022
BURBANK	LAF5701	Burbank Traveler Information and Wayfinding System -Installation of real-time bus arrival system on BurbankBus buses. The project will also completing wayfinding signage on major Bike corridors to help identify destination and travel distance for bicyclists.	4/30/2022
BURBANK	LAF5306	Burbank Traffic Responsive Signal System; upgrade 20 signals on Hollywood Way and 18 on Buena Vista St., connect 38 signals to the fiber-optic cable-trunk line, and purchase fiber-optic modems. Includes a demand-responsive traffic signal system along Hollywood Way and Buena Vista St., license, system integration and testing of the Quick Track Adaptive Control Software.	Completed

¹² Projects may include TCM and non-TCM portions. Committed TCMs include only that portion of the projects that meets the definition of TCMs.

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
BURBANK	LAF9315	Traffic responsive system involving advanced traffic controllers, communications, video surveillance, and bicycle and system detection for 33 intersections in the City of Burbank	12/21/2021
BURBANK	LAF1502	San Fernando Bikeway. Implement a Class I Bikeway along San Fernando Blvd, Victory Place and Burbank Western Channel to complete the Burbank leg of a 12 mile bikeway.	12/31/2021
CALTRANS	LA0B951	Route 71: ROUTE 10 TO 0.14 MILE SOUTH SAN BERNARDINO COUNTY LINE - EXPRESSWAY TO FREEWAY CONVERSION - ADD 1 HOV LANE AND 1 MIXED FLOW LANE. (2001 CFP 8349, TCRP #50) (EA# 210600, PPNO 2741=EA 21060, PPNO 2741 + EA 21061, PPNO 2741N, EA 21062, PPNO 1741S) (TCRP #50) (Use Toll Credits as Local Match).	11/21/2028
CALTRANS	LA0D73	Route 005: LA MIRADA, NORWALK & SANTA FE SPRINGS-ORANGE CO LINE TO RTE 605 JUNCTION. WIDEN FOR HOV & MIXED FLOW LNS, RECONSTRUCT VALLEY VIEW (EA 2159A0 = 21591, 21592+31320=2159U, 21593, 21594, 21595 PPNO 2808 = 4153, 2808, 4154, 4155, 4156, 4841). TCRP#42.2&42.1 (USE TOLL CREDITS AS LOCAL MATCH)	10/31/2022
CALTRANS	LAF9301	Route 210: Implementation of I-210 Connected Corridors transportation management system that integrates freeway ramp meters, arterial signal systems, transit systems and traveler information [EA 32910].	12/30/2021
CALTRANS	LA000358	Route 005: FROM ROUTE 134 TO ROUTE 170 HOV LANES (8 TO 10 LANES) (CFP 346)(2001 CFP 8355). (EA# 12180, 12181,12182+12183=1218w,12184, 13350 PPNO 0142F,151E,3985,3986,3987) SAFETEA LU # 570. CONSTRUCT MODIFIED IC @ I-5 EMPIRE AVE, AUX LNS NB & SB BETWEEN BURBANK BLVD & EMPIRE AVE; AND MODIFY EXISTING STRUCTURES. ADD AUXILIARY LANE BETWEEN ALAMEDA AND OLIVE FROM PM 28.43 to PM 29.78	7/30/2022
CALTRANS	LA0B875	Route 10: HOV LANES AND PAVEMENT REHAB FROM CITRUS TO ROUTE 57 (EA# 11934 + 31120 = 1193U, PPNo 0310B+4812=0310B). USE TOLL CREDIT AS LOCAL MATCH.	12/3/2021
CARSON, CITY OF	LATP17M024	Design and construct a 1.8 mile bike and pedestrian path (Class 1 facility) along the top of the Dominguez Channel levee between Avalon Boulevard and 223rd Street / Wilmington Avenue in Carson.	9/1/2022
COMMERCE	LA0G1704	Project includes traffic signal upgrades, signal interconnect installation, adoptive signal detection, control system, software, signal sync, traffic lane alignments, traffic signage, freeway on and off ramp improvements, and other items to improve traffic flow and capacity. 4 intersections will receive signal sync: 1) Triggs St, Telegraph Rd, Atlantic Blvd, Goodrich Blvd, and Ferguson Dr; 2) Telegraph Rd and Atlantic Blvd; 3) Atlantic Blvd and Eastern Ave; and 4) Eastern Ave and Stevens Pl.	6/30/2026
COMPTON	LA0G1711	This Wilmington Avenue Regional Bikeway Corridor connects existing bikeways and lanes at Rosecrans Ave on the north and continues south to Victoria St. This project will provide bicycle elements including Class II bike lanes, pedestrian lighting, and missing sidewalks gaps to provide safe travels for pedestrians and bicyclists. This corridor will eventually connect the Compton Creek bike path at El Segundo with the Metro Blue Line Artesia Station. Project is 2.5 miles long.	3/31/2025

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
COMPTON	LATP17S012	This project is the final design and construction of 29.68 miles of gap closure in the bike lane network in the Cities of Compton and Carson. Project elements include Class I, II, and III bike lane improvements including striping, bike sharrows, directional painted green lines and wayfinding signage. Utilizing Toll Credits to match ATP.	12/31/2022
COMPTON	LAF9530	Enhance safety/improve non-motorized transportation travels along Central Av by installing protective buffered bike lanes, improving intersection crossings and closing sidewalk gaps	8/1/2021
COMPTON	LA0G1713	This project aims to develop and upgrade the existing and obsolete citywide traffic signal system to a state of the art intelligent transportation system that synchronizes traffic signal along Rosecrans Av from city limits to city limits. There are 20 signal intersections planned for synchronization.	6/30/2025
CUDAHY	LAF9605	The Cudahy City Wide Complete Streets Improvement Project focuses on the Atlantic Avenue Corridor and City Wide multimodal transportation improvements for the first/last mile. Project is approximately 1.1 miles long.	12/1/2021
CULVER CITY	LAF7303	NETWORK-WIDE SIGNAL SYNC WITH VID & ARTERIAL PERFORMANCE MEASUREMENT SYSTEM FOR ATCS: (1) Optimizes signal coordination timing network-wide. (2) Upgrades major intersections with enhanced system detection and arterial performance measurement capabilities along Washington BI, Sepulveda BI, Jefferson BI, and others. (16 signals that are synched)	12/31/2021
DOWNEY	LAF9525	This project implements 17 miles of Class II bike lanes on eight roadways (seven of them with Road Diets) providing enhanced access to activity centers and multi-modal assets such as the Green Line and bike paths.	12/1/2021
DOWNEY	LA0G1254	Old River School Rd Pavement Rehab includes sawcut, removal and full depth reconstruction of pavement, cold milling of existing pavement, asphalt rubber hot mix (ARHM) pavement overlay, reconstruction of damaged or missing curb and gutter, sidewalk, cross gutters, and ramps, utility adjustments, traffic signal detector loop replacements, traffic striping, traffic control, and install Class II bike lane (2 miles). Utilizing \$215,000 in toll credits for FFY 2020.	Completed
DOWNEY	LAF5114	Telegraph Road Traffic Throughput and Safety Enhancement between the Rio Hondo River Channel to the San Gabriel River Channel, a distance of 2.2 miles. Project involves the construction of raised median islands, minor widening at intersections, transit priority system and bike (2.2 miles in length) and pedestrian circulation improvements.	6/30/2021
DOWNEY	LAF7311	DOWNEY CITYWIDE TRANSIT PRIORITY SYSTEM PROGRAM: (1) Synchronizes traffic signals along existing transit routes. (2) Installs new fiber optic communication along 5.5 miles of arterial streets to connect signals to the central traffic management center. (3) Installs and integrates transit priority system with the traffic signal system.	8/1/2024
EL MONTE	LAF3125	Ramona Corridor Transit Center Access Project. Construct a new underpass structure on Ramona Blvd under Santa Anita Ave to access the lower level of the El Monte Transit Center. The proposed bus tunnel ramps will begin east of the Santa Anita Avenue and Ramona Boulevard Intersection on Ramona Boulevard and the tunnel will continue under Santa Anita Avenue (along Romona Boulevard) to the lower level of the El Monte Transit Center and includes 1 "bus only" lane in each direction.	12/31/2021

	TABLE IV-C-A-1. LOS ANGELES COUNTY					
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE			
EL MONTE	LA0G1180	A 0.5 mile Class III bike route with sharrows, a 0.7 mile Class II green-painted bike lane, and a 2 mile a Class II bike lane with buffer pavement stenciling. Improvements includes roadway resurfacing, highlighting, crosswalk improvements, camera installation at intersections, and wayfinding signage. The project runs 3.2 miles along Santa Anita from ELLIOT AVENUE (South) to WEST HONDO PARKWAY (North).	6/30/2022			
EL SEGUNDO	LA9918809	Existing pavement shows widespread signs of deterioration throughout the corridor which constitutes a need for rehabilitation. Existing conditions on El Segundo Boulevard are missing ADA compliant curb ramps, larger traffic signal poles, dedicated bicycle facilities including bicycle detection, and adequate pedestrian crossings which will be addressed at specific locations as part of the project. 12,000 linear feet of bike lanes (Class II and Class III) will be installed.	11/15/2026			
FOOTHILL TRANSIT ZONE	LA0G1501	Construct Bus Layover Facilities Jointly by AVTA, LADOT & Foothill Transit	12/31/2023			
FOOTHILL TRANSIT ZONE	LA0G1234	Mt. San Antonio College (MSAC) Transit Center. The Transit Center includes 10 bus bays, 2 chargers for electric buses, a transit store, lighted sheltered wait areas, real-time bus arrival kiosks, and upgraded ADA and pedestrian access.	12/31/2022			
GARDENA	LATR02020	Implement transit signal priority for 8.4 miles from the Harbor Gateway Transit Station to 120th Street in the city of Gardena. Also implementing real time arrival information through variety of media including smart phones, SMS texts, call centers, and website. Computer aided dispatching (CAD) system and automated vehicle location (AVL) system will also be implemented.	12/31/2021			
GARDENA	LA0G1175	Computer Automated Dispatching/Automated Vehicle Location (CAD/AVL)Solution with Real Time Passenger Information Network. Adding TDC in construction phase to match 5307 in FY18/19 for \$400.	12/31/2021			
GLENDALE	LAF5307	Glendale Sub-regional traffic management center. Project will connect to the traffic signal network citywide and will design and implement a subregional Traffic Management Center(TMC)., System will be integrated with Metro's Regional Integration of ITS (RIITS) and the County Information Exchange Network (IEN) systems.	Completed			
GLENDALE	LAF7709	GLENDALE REGIONAL BIKE PARKING NETWORK: Provides 2 high capacity bike parking facilities and 20 wayfinding signs for bicycle users within the City of Glendale, specifically Glendale Larry Zarian Transportation Center and the Glendale Marketplace/Public Library.	12/31/2021			
GLENDALE	LA0G1411	Honolulu Ave and Montrose Ave at Pennsylvania Ave Traffic Signal Modification (Route I-210 Fwy Connectivity)	12/31/2022			
HAWTHORNE	LAF9102	5 intersection locations; Signal improvement include Upgrade traffic signal controller and cabinet enabling, Rewiring of the signalized intersection to ensure communication between signal equipment; Upgrade pedestrian signals to count down type and push buttons, Install battery backup system to minimize disruption of traffic during power outage new vehicle detection including bicycle loops/sensors; new bike lane will be one mile (each way).	10/18/2021			

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
HAWTHORNE	LAF7101	PRAIRIE AVENUE MOBILITY PROJECT: (1) Widens Prairie Av intersections at El Segundo Bl and at Rosecrans Av to construct double left-turn pockets for traffic flow improvement and to install Class III bike routes on both sides. (2) Traffic signal upgrade and synchronization of 8 intersections between 118th and Marine. (3) Installs Class III bike equipment, improves pedestrian facilities, and upgrades ADA access ramps, new median curbs and landscaping at intersections.	12/31/2021
HAWTHORNE	LA0G1548	Widen intersections modify and upgrade four traffic signal system, traffic striping, adjustment of utilities, excavation and removal of existing pavement, concrete, asphalt and construction of curb, gutter, sidewalks, driveways and ADA ramps. Signal Synchronization at: El Segundo Blvd at Ramona Ave. El Segundo Blvd. at Aviation Ave. El Segundo Blvd. at Van Ness Ave.	11/30/2022
HAWTHORNE	LA0G1547	Widen intersections, upgrade 6 traffic signal (including ADA ramps where signal upgrade impacts adjacent ramp), turn lane, striping, utilities, concrete, asphalt, curb, gutter, sidewalks, driveways, retaining walls, and raised medians. Rosecrans Avenue at Hawthorne Boulevard Rosecrans Avenue at Inglewood Avenue Rosecrans Avenue at Ocean Gate Avenue Rosecrans Avenue at Hindry Avenue Rosecrans Avenue at Isis Avenue Rosecrans Avenue at Aviation Boulevard	6/30/2022
HAWTHORNE	LA0G1546	Imperial Hwy Signal Improvements and Intersection. PA/ED, PS&E, ROW, Construction. Modify and upgrade 5 traffic signal, traffic striping, utilities, excavation, removal of existing pavement, concrete, asphalt and construction of curb, gutter, sidewalks and driveways. Signal Synchronization at: Imperial Highway at Prairie Avenue Imperial Highway at Freeman Avenue Imperial Highway at Hawthorne Boulevard Imperial Highway at Ramona Avenue Imperial Highway at Inglewood Avenue	6/20/2022
HUNTINGTON PARK	LA0G1669	This project will include new signal poles, conduit, wiring, controller cabinets and video detection. The locations include Slauson Ave at Alameda St, Slauson Ave at Santa Fe Ave, Slauson Ave at Miles Ave/Soto St, Slauson Ave at Boyle Ave/State St, Slauson Ave at Downey Rd/Malburg Way.	2/1/2023
INGLEWOOD	LAF9307	City of Inglewood ITS phase VI project: 5,280 feet of fiber optic along Pincay Drive; Replace 170 controllers with Type 2070 controllers at twelve intersections; Traffic signal synchronization along Pincay Drive between Prairie and Crenshaw; Install changeable message sign at Century/Prairie; and Modernizing City Hall TMC to provide Adaptive Traffic Control and meet current standards.	6/30/2022
INGLEWOOD	LAF7319	Inglewood ITS - PHASE V: (1) Designs and constructs computerized traffic control and monitoring systems. (2) Expands central traffic control and advance traffic management at 39 intersections (3) improves 6.13 miles of fiber optic communications, (4) expands Closed Circuit Television Cameras (CCTV) at 10 intersections, (5) installs Changeable Message Signs (CMS) at 2 intersections, and (6) installs new communication hubs at 3 intersections.	8/31/2021
LA CANADA-FLINTRIDGE	LAF5522	Foothill Blvd. Link Bikeway & Pedestrian Greenbelt Project, Briggs Ave. to Alta Canyada Rd, construct 1.5 miles of Class II Bike Lanes, bike and bus facilities, raised median and 0.5 miles of pedestrian beltway with lighting and hardscape.	1/31/2022

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
LAKEWOOD	LA0G1262	Lakewood BI Regional Corridor Capacity Enhancement project (Del Amo BI to north City limit) - Class II bike lanes (1.9 mile) in each direction, new sidewalk, street resurfacing, ADA & stormwater compliance, traffic signal modifications, drought resistant landscaping & irrigation, signing & striping, and utility undergrounding within the existing City right of way.	12/31/2021
LAWNDALE	LAF7500	HAWTHORNE BOULEVARD CLASS II BICYCLE LANES: (1) Installs 1.0 mile of Class 2 bike lanes on Hawthorne Blvd for both directions. (2) Provides bicycle parking.	6/30/2021
LONG BEACH	LAF9314	The project consists of signal enhancements that will include synchronization and communications. Also are included are bicycle and pedestrian improvements and inclusion of the corridor into an Adaptive Traffic Control System	12/31/2022
LONG BEACH	LAF9130	Establishing a Great Street (Or Multimodal Corridor) in Long Beach - implementing the City's street prioritization framework. Improvement includes round-about, bus shelter upgrade, bulb-out, enhanced crossing, and Class II bike lane (3 miles)	5/1/2024
LONG BEACH	LAF7522	Delta Avenue Bicycle Boulevard. This north-south bicycle boulevard on Delta Ave (approximately 3 miles) in West Long Beach will consist of Class II lane segments and sharrow markings, traffic circles, traffic signal, and wayfinding signage to nearby Metro Blue Line stations and LA River Bike Path.	12/31/2021
LONG BEACH	LAF7316	ARTESIA CORRIDOR ATCS ENHANCEMENT PROJECT: (1) Upgrades traffic signals along Artesia BI between Long Beach BI and Downey Av to connect with Adaptive Traffic Control System (ATCS). (2) Installs CCTV and CMS on Artesia BI. (3) Installs fiber optic cable and devices to connect signals to each other and traffic management center (TMC). (4) Two new traffic signals in Compton (5) Installs Class II bike lane in both directions from Atlantic Av to Susana Rd. (6) Pedestrian improvements.	12/31/2021
LONG BEACH	LATP16M011	South Water Front/Pier J Bike and Pedestrian Path. The Pier J Bike Path will connect the Port to Downtown Long Beach via the Queensway Bridge bikeway (approximately 1.5 miles - project segments 2-6). Pedestrians and bike improvements in the Port will provide additional safety and mobility for non-motorized users and connect to Pier J.	Completed
LOS ANGELES COUNTY	LA0G1486	The Project consists of design and construction of 1.86 miles of Class I bike path along Puente Creek and 0.37 miles of enhanced Class III bike route along Rimgrove and Witzman Drive adjacent to the Rimgrove County Park. The non-infrastructure portion of the Project includes bicycle and pedestrian safety education and encouragement training workshops and rodeos to students at 3 elementary, 1 middle, and 1 high school located near the proposed bikeway.	6/30/2023
LOS ANGELES COUNTY	LA0D461	RECONSTRUCT- THE OLD ROAD FROM HILLCREST PARKWAY TO LAKE HUGHES RD & WIDEN FROM 40' TO 68', 2 VEH. LANES and a 5' CLASS II BIKELANE IN EA DIR & STRIPPED MEDIAN (FROM 2 TO 4 LNS 2 EA DIR) for 2.1 miles.	6/30/2022
LOS ANGELES COUNTY	LAF5316	South Bay Forum Traffic Signal Corridors Project - systemwide coordination, timing and operational improvements and traffic signal synchronization, equipment upgrades and intersection operational improvements in South Bay region. 25 signals system wide. Additionally, this project will install any warranted and feasible roadway improvements along the routes to improve overall progression.	12/31/2021

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
LOS ANGELES COUNTY	LAF5315	San Gabriel Valley Forum Traffic Signal Corridors Project. This project includes 6 intersections at Myrtle Av/Peck Rd between Huntington Dr and Clark St and provides for system wide coordination, timing and operational improvements and traffic signal synchronization, equipment upgrades and intersection operational improvements. (approx 20+ signals)	12/31/2021
LOS ANGELES COUNTY	LAF5310	Ramona Boulevard/Badillo Street/Covina Boulevard TSSP/BSP. Implementation of a Traffic Signal Synchronization Project (TSSP) on Ramona Bl/Badillo St/Covina Bl from Santa Anita Av to the 57 Freeway. A Bus Signal Priority (BSP) project will be implemented on Ramona Bl/Badillo St from Tyler Av to Grand Av to give transit priority for Foothill Transit operations (approx 48 signal locations)	12/31/2021
LOS ANGELES COUNTY	LAF1321	San Gabriel Valley Forum Traffic Signal Corridors Project. Design & construction of multijurisdictional traffic signal synchronization, intersection operational improvements, and intelligent transportation system components. Synchronizes 83 consecutive intersections.	12/31/2021
LOS ANGELES COUNTY	LAF1312	Gateway Cities Forum Traffic Signal Corridors, Phase V. Design and construction of multijurisdictional traffic signal synchronization and intersection operational improvements on regional arterials in the Gateway Cities region. Includes 86 consecutive intersections.	12/30/2021
LOS ANGELES COUNTY	LAF1311	South Bay Forum Traffic Signal Corridors Project. Design & construction of multijurisdictional traffic signal synchronization, intersection operational improvements, and intelligent transp. system components on regional arterials. Synchronizes 50 consecutive intersections.	6/30/2022
LOS ANGELES COUNTY	LA0G1291	Huntington Dr - San Gabriel Bl to 132' w/o Michillinda Ave: Construct approx. 7200ft buffered Class II bike lanes, upgrade curbs & sidewalks to meet standards. Add pedestrian access through the median @S San Gabriel. Add drought tolerant landscaping/hardscape inside median. Install new traffic signal at Huntington Dr & Madre St/Muscatel Av which may require tree removal.	9/30/2022
LOS ANGELES COUNTY	LAF3310	South Bay Forum Traffic Signal Corridors Project. Design and construction of multijurisdictional traffic signal synchronization, operational improvements & ITS components on arterials in the South Bay area of LA County. (approx. 40+ signals)	12/31/2021
LOS ANGELES COUNTY	LAF3309	Gateway Cities Forum Traffic Signal Corridors Proj, Phase VI. Design and construct multijurisdictional traffic signal synchronization, intersection operational improvements & ITS components on regional arterials in Gateway Cites area. (approx 126 signals)	12/31/2021
LOS ANGELES COUNTY	LAF3308	San Gabriel Valley Forum Traffic Signal Corridors Project. Design and construction of multijurisdictional traffic signal synch, intersection operational improvements, and intelligent transportation system components on regional arterials. Approx. 183 signals total.	12/31/2021
LOS ANGELES COUNTY	LAF9304	The design and construction of traffic signal synchronization and intelligent transportation system improvements and installation of performance measurement devices in the Gateway Cities area. There are 39 intersections in the TSSP route.	6/30/2027
LOS ANGELES COUNTY	LAF9303	SOUTH BAY FORUM TRAFFIC SIGNAL CORRIDOR PROJECT. This project includes traffic signal synchronization on Crenshaw Boulevard between 120th Street and Rosecrans Avenue and Del Amo Boulevard between Avalon Boulevard and Susana Road (approx. 15+ signals) and also includes systemwide coordination timing, operational improvements and ITS.	6/30/2027

	TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
LOS ANGELES COUNTY	LAF7610	Aviation /LAX Green Line Station Community Linkages. The project includes improvements on corridors near the Metro Aviation/LAX Station including pedestrian and bicycle facilities, wayfinding signs, landscaping and traffic calming. An approximate total of 2 miles of bikeway and 2.5 miles of upgraded pedestrian facilities will be implemented.	6/1/2021	
LOS ANGELES COUNTY	LAF7508	Vincent Community Bikeways. Install 2 miles of bike paths along the Big Dalton Wash between Irwindale Ave and Lark Ellen Ave and between Arrow Hwy and Citrus Ave, and 1.3 miles of bike lanes and 1.4 miles of bike routes to connect to the existing and proposed bikeways in the surrounding areas.	12/1/2021	
LOS ANGELES COUNTY	LAF7308	EAST LOS ANGELES TRAFFIC SIGNAL CORRIDOR PROJECT: (1) Synchronizes traffic signals and implements upgrades at 13 signalized intersections along 3.5 mile segment of Eastern Av. between Medford St and Olympic Blvd. (2) Installs Fiber Optic Communications along Cesar Chavez Av, Ramona Bl, and Atlantic Bl to connect traffic signals to LADPW Advanced Transportation Management System (ATMS).	6/30/2022	
LOS ANGELES COUNTY	LAF9511	South Whittier Community Bikeway Access Improvements: Construction of Class II & Class III bike facilities in the unincorporated County area of South Whittier along with various pedestrian intersection improvements	6/30/2022	
LOS ANGELES COUNTY	LAF9504	E. Pasadena & E. San Gabriel Bikeway Access Improvements: Install approximately 4.8 miles of bike lanes and enhanced bike routes in the East Pasadena and East San Gabriel communities	12/31/2022	
LOS ANGELES COUNTY	LAF7700	WILLOWBROOK INTERACTIVE INFORMATION KIOSKS: Provides information to public transit users by installing 3 interactive kiosks displaying transit, neighborhood, and cultural information. The project will serve the Willowbrook area at Martin Luther King Jr. Hospital, Kenneth Hahn Plaza, and the Metro Willowbrook/Rosa Parks Blue and Green Line Station.	6/30/2022	
LOS ANGELES COUNTY	LAF7310	SOUTH BAY FORUM TRAFFIC SIGNAL CORRIDORS PROJECT: Project area is Normandie Av between 92nd St and El Segundo Bl, Manhattan Beach Bl between Manhattan Av and Van Ness Av, and Hawthorne Bl between Imperial Highway and Manhattan Beach Bl. Project scope includes (1) Synchronization and retiming traffic signals, equipment upgrades, system detection, CCTV cameras, changeable message signs. (2) Upgrade traffic signal operations to be capable of time-based coordination.	6/30/2022	
LOS ANGELES COUNTY	LAF7307	SAN GABRIEL VALLEY FORUM TRAFFIC SIGNAL CORRIDOR PROJECT: Implements ITS enhancements including synchronization and retiming of traffic signals, equipment upgrades, system detection, CCTV cameras, and changeable message signs to expand Advanced Transportation Management System (ATMS).	6/30/2022	
LOS ANGELES COUNTY	LAF7306	FOOTHILL BOULEVARD TRAFFIC SIGNAL CORRIDOR PROJECT: (1) Traffic signal synchronization, equipment upgrades and intersection operational improvements for 28 intersections along Foothill BI between Lowell Av and Crown Av. (2) Installs two (2) Closed Circuit Television (CCTV) cameras and wireless network communications infrastructure which will provide for expansion of Advanced Transportation Management System (ATMS) along Foothill BI.	6/30/2022	

		TABLE IV-C-A-1. LOS ANGELES COUNTY	
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
LOS ANGELES COUNTY	LAF7305	GATEWAY CITIES FORUM TRAFFIC SIGNAL CORRIDOR PROJECT: Designs and constructs ITS improvements along Norwalk BI, San Antonio Dr, Pioneer BI between Beverly BI and Carson St including synchronization and retiming of traffic signals, equipment upgrades, system detection, CCTV cameras (up to 14 CCTVs), and changeable message signs.	6/30/2022
LOS ANGELES COUNTY	LATRO2018	The Whittier Boulevard Transit Signal Priority Project (Project) includes the deployment of ITS infrastructure to enhance arterial operations and monitoring in East Los Angeles. Wireless communications and upgraded controller equipment will be deployed along a critical segment of Whitter Blvd. that serves Metro Rapid Line 720 and provides parallel capacity to the 1-10 ExpressLanes.	12/31/2021
LOS ANGELES COUNTY	LATP17M026	Install new raised bike lanes and sidewalks on an existing 4-lane, 0.8-mile roadway segment of Temple Avenue, between the cities of Walnut and Pomona. This gap closure project will connect bike and pedestrian facilities, two large colleges and employers in to adjacent cities. Sidewalk and bike lane are both 0.8 miles.	3/16/2022
LOS ANGELES COUNTY	LATP17M025	Install a 1.6 mile long and 17-foot wide walkway adjacent to existing Marvin Braude Bike Trail to close the gap between the existing walkways connecting Pacific Palisades and the City of Santa Monica. This will increase safety for cyclists/pedestrians which will increase usage and physical activity opportunities.	12/30/2021
LOS ANGELES COUNTY	LAF9302	The design and construction of traffic signal synchronization and intelligent transportation system improvements and installation of performance measurement devices in the San Gabriel Valley area.	12/31/2023
LOS ANGELES COUNTY MTA	LA0G1247	The Project consists of bicycle and pedestrian transportation linkage improvements to the Rail to Rail Active Transportation Corridor (ATC) Connector Project Segment A along an approximately 5.6-mile long corridor from the future Metro Crenshaw/LAX Fairview Heights Station to the existing Metro Blue Line Slauson Station.	12/31/2021
LOS ANGELES COUNTY MTA	LA0G635	Design and construction of pedestrian and transit enhancements along the public right-of-way of the Metro Gold Line Eastside Extension to surrounding neighborhood. Transit enhancements are within 3 miles of Eastside Goldline Extension station.	6/30/2021
LOS ANGELES COUNTY MTA	LA0G1169	Brighton to Roxford double track: This project adds 11 miles of 2nd track between Burbank and Sylmar on Metrolink's Antelope Valley Line (AVL). The project will eliminate the current bottleneck and improve on time performance and operational reliability on the AVL. This project will be designed to be compatible with the potential future high speed rail alignment.	12/31/2021
LOS ANGELES COUNTY MTA	LA0G1375	This is a large-scale deployment of the Freight Advanced Traveler Information System (FRATIS) Program to deploy advanced congestion management technologies which can achieve significant reductions in truck congestion, improve air quality, and reduce the use of fossil fuels in the Los Angeles region.	12/30/2023
LOS ANGELES COUNTY MTA	LA0G1167	Design and construction of streetscape, pedestrian and bicycle access improvements in the Little Tokyo and Arts District neighborhood of Downtown Los Angeles within a one-mile radius of the 1st/Central Station of the Regional Connector light rail line.	12/31/2021

	TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
LOS ANGELES COUNTY MTA	2018FBX00	Los Angeles County; software modifications and hardware upgrades of fare collection equipment at Metro rail stations and on Metro and Municipal Operator buses to address equipment obsolescence, enhance system security, communicate in near real-time, and support future TAP mobile app and other new payment technologies.	12/31/2023	
LOS ANGELES COUNTY MTA	LATP17S022	The USC Bike Share Project will increase bike modal share by installing a bike-share kiosk network and bike fleet throughout many key locations within project area. Project is within 3 neighborhoods near Downtown Los Angeles where 5 Metro Rail stations are located- includes key destinations such as USC, the LA Coliseum and Sports Arena, LA Trade Technical College, and museums within Exposition Park. An encouragement and education effort is included. Utilizing Toll Credits to match ATP funds.	3/1/2021	
LOS ANGELES COUNTY MTA	LA0G1550	The Patsaouras Plaza Busway Station project - a new transit busway station for the Metro Silver Line and other transit buses operating on the El Monte Busway.	6/30/2023	
LOS ANGELES COUNTY MTA	LAOD198	CRENSHAW/LAX TRANSIT CORRIDOR - The Crenshaw/LAX Transit Corridor Project is an 8.5-mile light rail transit (LRT) line extending from the intersection of Crenshaw and Exposition Boulevards allowing for transfer to the Exposition Light Rail Transit line to a connection with the Metro Green Line at the Aviation/LAX Station (PPNO 4027A)	6/30/2022	
LOS ANGELES COUNTY MTA	LA0G447	Metro Purple Line Westside Subway Extension Section 1 - Wilshire/Western to La Cienega	12/31/2023	
LOS ANGELES COUNTY MTA	LATP19S011	Doran Street Grade Separations Active Transportation Access Project: This project will construct two bridges for shared use by pedestrians and cyclists across Verdugo Wash, San Fernando Road, railroad tracks, and SR-134. Linked to LAOG1050 (Doran Street and Broadway/Brazil safety and access project). The current estimated approximate bridge span lengths are 300 ft for the River Access Bridge and approximately 400 ft for the River Walk Bridge.	12/31/2024	
LOS ANGELES COUNTY MTA	LA0G440	The project will extend the HOV lanes on I-5 from the SR-14 interchange to just south of the Parker Road interchange (I-5 PM 45.4 - 59.0), incorporating an additional northbound truck climbing lane from SR 14 to Calgrove Boulevard and an additional southbound truck climbing lane from Pico Canyon Road/Lyons Avenue to SR-14. Includes ITS HUB (I-5 PM 41.4 - 43.8) and extended project limits related to pavement delineation and advanced signage (I-5 PM 45.0 - 59.6).	12/31/2024	
LOS ANGELES COUNTY MTA	LA0G010	Regional Connector - Light Rail in Tunnel allowing through movements of trains, Blue, Gold, Expo Lines. From Alameda / 1st Street to 7th Street/Metro Center	6/30/2022	
LOS ANGELES COUNTY MTA	LA0G642	Metro Purple Line Westside Subway Extension Section 3	6/30/2027	
LOS ANGELES COUNTY MTA	LA0G640	Pacific Surfliner Corridor - Raymer/Bernson Double Track Improvements - upgrade the rail corridor from a single track to a double track, install concrete ties on both tracks, install four new special trackwork turnouts, nine at-grade crossings and two bridges, a new second platform & new fencing at Northridge and a new pedestrian underpass. Other enhancements include signal relocation, utility relocation and drainage improvements.(PPNO 2098)	12/31/2021	

	TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
LOS ANGELES COUNTY MTA	LA0G1052	Metro Purple Line Westside Subway Extension Section 2 - Wilshire/La Cienega to Century City	6/30/2026	
LOS ANGELES COUNTY MTA	LATP17S023	The San Gabriel Valley Bike Share will increase bicycle modal share by installing a network of bike-share kiosks with a fleet of bicycles throughout 15 of the 30 San Gabriel Valley cities. The project will expand LA Metro's existing bike share network in Downtown Los Angeles and will include 840 bicycles at 84 bike share stations near transit hubs, employment centers, and colleges. A public education and awareness campaign is included.	2/25/2021	
LOS ANGELES, CITY OF	LAF5518	This project is located in the City of Los Angeles in the West San Fernando Valley. Construction of a bicycle/pedestrian path from Owensmouth Av to Mason Av (1.25 miles) along the south bank of the LA River. Includes underpasses at De Soto Av and Canoga Av/Busway bridges. The project will include lighting, railing, striping and signage and a connection structure to the Metro Orange Line bikeway.	6/30/2021	
LOS ANGELES, CITY OF	LAF3171	De Soto Ave Widening: Ronald Reagan Fwy to Devonshire St Minor widening of De Soto Ave fr SR-118 to Devonshire St to provide uniform roadway width in each direction as well as installing 10' sidewalk, curb and gutter. Sidewalk is 1.1 miles, 90% of the sidewalks along the project limits will be new.	6/30/2021	
LOS ANGELES, CITY OF	LAF3647	Menlo Ave/MLK Vermont Expo Station Pedestrian Improvements. Improve pedestrian access to the new Expo station on Vermont Ave by installing sidewalks, landscaping, and lighting along Menlo Ave. and MLK Jr. Blvd. plus a median on MLK Blvd.	6/30/2022	
LOS ANGELES, CITY OF	LAF3515	San Fernando Rd. Bike Path Ph. IIIB Construction. Construct 2.75 mile Class I bike path within METRO right-of-way along San Fernando Rd. between Tuxford St. and Cohasset St. to complete 12-mile bikeway The project is located within the City of Los Angeles, in the community of Sun Valley. The project consists of a Class I facility 12 feet in width and 2.75 miles in length between Tuxford St. and Cohasset St. (Burbank City limit).	6/30/2021	
LOS ANGELES, CITY OF	LA0G901	Historic Los Angeles Streetcar	12/30/2021	
LOS ANGELES, CITY OF	LAF5525	To design and construct curb-side bicycle parking (bicycle corral) that will serve each Council District. The project requires surface modifications to curbside parking areas for installing at least 150 bike racks.	6/30/2022	
LOS ANGELES, CITY OF	LATP17S005	The City of Los Angeles will be implementing complete street treatments to improve Jefferson Boulevard between Vermont Avenue and Western Avenue, which includes buffered Class II (0.35 mi) and Class IV (0.65 mi) bicycle facilities, curb extensions, pedestrian refuge areas, path improvements, pedestrian lighting, and additional shade trees with Road Diet from 4 to 2 lanes (1 mile).	5/15/2023	
LOS ANGELES, CITY OF	LATP17M014	Arts District Pedestrian & Cyclist Safety Project. The project will establish critical pedestrian and cyclist connections to and within the Arts District in Downtown Los Angeles which is a historic industrial neighborhood with a complex street system that challenges the mobility of all users whether they are on foot, on a bike or in a vehicle. Utilizing Toll Credits to match ATP funds.	4/26/2022	
LOS ANGELES, CITY OF	LATP16S006	Boyle Heights Pedestrian Linkages. Pedestrian infrastructure improvements including sidewalk repairs, 3,400 linear feet of new sidewalk, and installation of pedestrian lighting, continental crosswalks, and curb ramps to improve connectivity within community and to 6th Street Viaduct Replacement Project. Utilizing Toll Credits.	10/1/2022	

TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
LOS ANGELES, CITY OF	LAF9422	LADOT will procure seven (7) 30-ft Electric clean fuel vehicles to reduce headways on six selected DASH routes	4/30/2022
LOS ANGELES, CITY OF	LA0G1566	Purchase of up to 120 electric 30' to 35' buses for the DASH program expansion	9/26/2022
LOS ANGELES, CITY OF	LAF9527	Project will construct a 3.1 mile cycletrack along Chandler Boulevard, connecting the Chandler and Orange Line Bike Paths and bridging a gap in the low-stress bicycle network	1/1/2023
LOS ANGELES, CITY OF	LAF7814	LADOT STREETS FOR PEOPLE: TRANSIT CORRIDOR PARKLETS AND PLAZAS: Installs 12 parklets and 3 plazas. The limits of the parklets will be equal to two curbside parking spaces (approx. 40x 6). The plaza limit varies ranging from 2,000 to 6,000 SF.	12/31/2021
LOS ANGELES, CITY OF	LA0G1380	Purchase of 170 solar-powered, real-time bus arrival information signs for bus stop improvement in the Los Angeles Promise Zone	6/30/2022
LOS ANGELES, CITY OF	LARE1701A	Implementing Dynamic Corridor Ramp Metering System (DCRMS) in I-405 Sepulveda Pass Corridor (Interstate 405 from I-10 to SR101), a system-wide adaptive ramp metering strategy which simultaneously coordinates with arterial traffic signal operation. The system will dynamically adjust traffic according to current capacity restrictions caused by incidents or recurrent congestion. Improve traffic movement and access to freeway and major arterial including transit operation.	12/31/2022
LOS ANGELES, CITY OF	LA0G1349	Purchase 35 alternative-fuel 30-foot buses to expand DASH fleet and increase service hours and headways.	12/31/2022
LOS ANGELES, CITY OF	LAE3764	Sepulveda Boulevard Closed-Circuit Television Traffic Signal Improvement Signal Sync	4/30/2025
LOS ANGELES, CITY OF	LA0C53	HOLLYWOOD INTERMODAL TRANSPORTATION AND PUBLIC PARKING CENTER ON HAWTHORNE AVE. BETWEEN HIGHLAND AVENUE AND NORTH ORANGE DRIVE (EXIST 500 SP PARK STRUCTURE).TCRP#49.2	10/1/2020
LOS ANGELES, CITY OF	LAF3644	Broadway Historic Theater District Pedestrian Improvements 4th-6th Streets. The project will improve pedestrian safety by installing curb extensions, widening sidewalks, improving pedestrian lighting, enhancing crosswalks, and provide pedestrian amenities; benches, street trees, landscaped buffers from traffic and 10 bike racks. Utilizing Toll Credits to match ATP funds.	6/30/2023
LOS ANGELES, CITY OF	LAF1524	San Fernando Rd. Bike Path Ph. IIIA - Construction. Recommend Phase IIIA-Construction of a Class I bike path within Metro owned rail right-of-way along San Fernando Rd. between Branford St. and Tuxford St incl bridge. 2 mile bikepath.	6/30/2021
MALIBU	LA0G1748	This project aims to improve safety and traffic flow by providing striping and signage for bicycles, a connecting bike path along the beach, separation of pedestrians and bicycles from the active roadway, connectivity to Pacific Coast Highway, a safe pathway for pedestrians, a sand wall, and driveways for Lifeguard Tower access. The proposed bicycle facility will include 1,200 ft of Class I, 1,800 ft of Class II, and 3,800 ft of Class III bike lanes. The pedestrian path is 1,350 ft.	6/30/2021
MALIBU	LA0G910	Pacific Coast Highway Regional Traffic Message Systems. The project will enable the City of Malibu and other agencies to notify travelers of critical regional traffic and safety information and facilitate traffic flow throughout the region. The project will install a maximum of 4 permanent changeable message signs at strategic locations along PCH/SR-1 corridor in the City of Malibu.	3/31/2021

	TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
Metro Gold Line Foothill Extension Construction Au	LA29212XY	METRO RAIL GOLD LINE FOOTHILL EXTENSION - AZUSA TO CLAREMONT (LA County Line) 12 MILE, 5 STATION LRT EXTENSION. SAFETEA-LU # 285 LEAD AGENCY WILL CHANGE TO METRO GOLD LINE.	6/30/2025	
MONTEBELLO	LATP17M028	The project consists of dedicated Class II bike lanes, sidewalk construction, ADA-compliant corner ramps, and pedestrian lighting and traffic signal improvements along Montebello Boulevard to connect retail/employment centers with low/moderate income housing to increase active transportation-related activities. 1.4 miles from Lincoln Ave to Paramount Blvd.	3/16/2022	
MONTEREY PARK	LAF9502	Monterey Pass Road Complete Streets Bike Project is a 1.6 mile corridor providing multimodal transportation alternatives increasing ped, bike & transit use for the first last mile.	12/31/2023	
NORWALK	LA0G1342	Imperial Highway ITS Project, from San Gabriel River to Shoemaker Road: Traffic Signal Synchronization	3/31/2021	
NORWALK	LATP17S028	Design and construct 12,000 LF of Class 2 bicycle lanes and improve 2,000 LF of sidewalk on Alondra Blvd. This is part of a long-range project identified in the Gateway Cities 2014 Strategic Transportation Plan to create over 14 miles of bike lanes along this corridor.	6/1/2026	
PASADENA	LATP17M021	The City of Pasadena will install a 1.5-mile, two-way, protected cycle track (Class I) on Union Street from Hill Avenue to Arroyo Parkway, including necessary signal upgrades with Road diet from 3 to 2 lanes. Also installing bike boulevard (0.3 miles, Class III) along Holliston Avenue between Union St and Cordova St (no Road Diet.)	12/31/2022	
PASADENA	LAF3522	Cordova Street Complete Streets Project. Convert the vehicular-oriented street to a complete street by removing 2 vehicular traffic lanes to accommodate bike and pedestrian facilities. City of Pasadena - Hill Street to Arroyo Parkway.	7/30/2023	
PASADENA	LAF3701	Pasadena ARTS Enhanced Passenger Information. Enhancement of the Pasadena Area Rapid Transit System Vehicle Arrival Information System via telephone and 26-50 wayside signs	12/31/2021	
PICO RIVERA	LAF7502	Regional Bikeway Project. The project will install a bicycle/pedestrian bridge, Class II bicycle lanes, a Class I shared- use path, traffic calming medians, sidewalks, curb ramps, signal modifications, and wayfinding signage, connecting to two regional Class I routes.	12/31/2021	
POMONA	LATP19S009	Priority projects of the Pomona Active Transportation Plan, including 10.2 miles of bike lanes, 1.8 miles of traffic calming measures, and 14 intersections of bike/ped improvements.	9/24/2024	
POMONA	LAF9526	Pomona ATP Phase 2 Bicycle Network for Community Assets: Nearly 9 miles of bikeways along 5 roads, improving access to community destinations and assets, enhancing access to the local and regional multi-modal transportation network.	12/1/2026	
REDONDO BEACH	LA0G1423	Purchase and install a Real Time Passenger Information System on Beach Cities Transit fixed route buses.	6/30/2022	
REDONDO BEACH	LAF3502	Redondo Beach Bicycle Transportation Plan Implementation. Implement Class II and III bike facilities identified in the City of Redondo Beach's adopted Bicycle Transportation Plan. Approximately 2.1 centerline miles of bike lanes and 15.8 centerline miles of bike routes throughout the City of Redondo Beach.	6/30/2022	

	TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
REDONDO BEACH	LAF5301	Grant Avenue Signal Improvements. This project is located in Redondo Beach in the South Bay subregion on Grant Av between Inglewood Av and Aviation Bl. The project will upgrade six existing traffic signals. The project involves synchronization, bike detection, signal replacement, video detection, adaptive signal coordination, wireless connection and integration into the Redondo Beach Traffic Management Center (TMC).	6/30/2022	
REDONDO BEACH	LAF7521	BICYCLE TRANSPORTATION PLAN IMPLEMENTATION PHASE II: (1) Road diet with bidirectional Class 2 bike lanes on Prospect Av (3.33mi) and on Catalina Av (1.63mi). (2) Installs bulbouts at stop-controlled intersections on Catalina. (3) Installs roundabout on North Harbor Dr at Yacht Club Wy and at Herondo St. (4) Installs high-visibility crosswalks at all-way controlled intersections and at crossings approaching the roundabout.	12/31/2023	
REDONDO BEACH	LA0D29	CITY BUS TRANSFER STATION. Relocate existing transit terminal & construct new transit center w/12 bus bays, pax waiting area & info center, & driver lounge. Property provides 339 public pkg spaces (plus 2 for staff maint & security) & bicycle facilities. Location 1521 Kingsdale Ave, RB, CA 90278. Project also includes minor surface street improvements on Kingsdale Ave and 182nd: Kingsdale widening adds dedicated right turn lane and 182nd restriping removes bus layover and adds a bike lane.	12/31/2021	
SAN FERNANDO	LAF9313	This project improves operation of 6 major arterials by synchronizing 35 intersections along 6 corridors, minor lane/signal modification & installation of 3 changeable message signs.	3/31/2023	
SANTA CLARITA	LA0G774	Vista Canyon Ranch Transit Center - relocate the existing, temporary Via Princessa Metrolink Station to the Vista Canyon project site; includes Metrolink Station and Bus Transfer Station, a pedestrian overpass or undercrossing of the tracks and an adjacent parking structure with up to 750 parking spaces.	6/30/2022	
SANTA CLARITA	LAF9118	LYONS AV/DOCKWEILER DR EXTENSION (2 of 2): Construct Dockweiler Drive gap closure between 12th St. and existing terminus of Dockweiler Dr, just west of Valle Del Oro. Constructs 8-ft sidewalks and Class II bike lanes on both sides.	12/31/2024	
SANTA CLARITA	LAF9513	Railroad Avenue Class I Bike Path: Project will add 1.45 miles of Class I bike path on Railroad Avenue and enhance connectivity to the Jan Heidt newhall Metrolink Station to the City's bicycle trail network	6/30/2023	
SANTA MONICA	LAF7320	This project will enhance the existing Traffic Management System with the installation of video detection systems. The new equipment will facilitate detection of bicycles at intersections resulting in enhanced multi-modal signal timing. The detection of bicycles at intersections would optimize signal timing and create shorter call times for the transit corridors. New traffic signal poles may be required to install the video equipment.	12/31/2021	
SIGNAL HILL	LATP17S010	The project will install approximately 2.0 lane miles of bike lanes (Class II) on Spring Street, repave roadway to minimize drainage to bike lanes/level surface, revised striping, signing, modified pedestrian walkways/ramps, signal pedestrian countdown heads, safety lighting, and install bio-retention stormwater quality devices.	9/15/2026	

	TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
SOUTH EL MONTE	LAF5516	Installation of Class II bike lanes on Santa Anita Ave from Klingerman St to end of City Limits south of Merced Ave (1.5 mi) and on Merced Ave from Fern Ave to Santa Anita Ave (1.3 mi) while Class III bike routes with shared-lane markings will be installed on Lerma Ave from Merced Ave to SW City Limits (0.3 mi) and on Thienes Ave from Tyler Ave to SE City Limits (1 mi). The scope of work also includes installation of bike parking at the Civic Center and wayfinding/signage.	6/30/2022	
SOUTH GATE	LA9918774	Construct raised median included in the scope of work is Timing and Coordination and Intelligent Transportation System for existing three (3) traffic signals.	12/31/2023	
SOUTH GATE	LAF7309	TWEEDY BOULEVARD SIGNAL SYNCHRONIZATION PROJECT: (1) Interconnects 18 traffic signals using fiber optic cable and wireless communications (2) synchronizes signal timing to improve traffic flow, and reduces delays along the 2.7-mile arterial. (3) Install a Closed Circuit Television Camera (CCTV) at the intersection of Long Beach BI to support the Advance Transportation Management Systems (ATMS).	4/30/2022	
SOUTH GATE	LATP17S006	Install a Class I bike path (750 ft), Class II bike lanes (2.65 miles), and Class III bike routes (1.61 miles) along with pedestrian improvements including sidewalk, curb extensions, ADA curb ramps, high visibility crosswalks, rectangular rapid flashing beacon, bus shelters, and bike racks.	5/24/2026	
SOUTH PASADENA	LAF5308	South Pasadena's ATMS, Central TCS and FOIC for Fair Oaks Av. This project is located in South Pasadena on Fair Oaks Av between Columbia St and Huntington Dr. It will establish a fiber-optic backbone communication system connection between 12 signals on Fair Oaks Av and City Hall and install the ATMS/central management/control system at its City Hall Building. Funds are for design and construction costs.	12/31/2021	
SOUTHERN CALIF REGIONAL RAIL AUTHORITY	LA0G1596	San Fernando Road Bike Path Phase III - Crossings Safety Improvement. The project is located along San Fernando Road between Branford Street in the City of Los Angeles to CP Hollywood in the City of Burbank and includes 4.2 mile of bike path and 5 at-grade crossings.	12/31/2023	
SOUTHERN CALIF REGIONAL RAIL AUTHORITY	LA0G1298	Procurement of two (2) new locomotives to increase Metrolink service frequency and reduce headways. The locomotives will be EPA Tier-4 F-125 units that will improve emissions, reliability and performance relative to the F59 locomotives currently in service.	12/31/2022	
TORRANCE	LA0G358	South Bay Regional Intermodal Transit Center Project at 465 N. Crenshaw Blvd., Torrance, CA 90503.	6/30/2022	
TORRANCE	LA0G1589	Anza Ave from Del Amo Blvd to Sepulveda Blvd; asphalt pavement rehabilitation, repair damaged sidewalks and curb and gutter, traffic signal improvements to increase capacity and throughput (video detection, pedestrian actuation), installation of emergency vehicle preemption. \$258k of Toll Credits being used to match STPL funds in CON for FY20/21.	12/31/2021	
TORRANCE	LA0G1280	Purchase of seven (7) all electric buses for a new circulator service. Rubber-wheel trolley service will operate in Old Town area, as well as hotel and financial district on Hawthorne Blvd. Origin/terminus is at the Torrance Transit Park and Ride Regional Terminal (465 Crenshaw Blvd).	12/31/2022	
VERNON	LATP17M018	The project will install one-way protected cycle tracks (Class II - 1.13 miles) with a raised curbed buffer on Pacific Boulevard between Santa Fe Avenue and Fruitland Avenue and install safety improvement at signalized and uncontrolled crosswalk locations along Pacific Boulevard and at the uncontrolled cross location at Santa Fe Avenue and 52nd Street.	11/1/2022	

TABLE IV-C-A-1. LOS ANGELES COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
WESTLAKE VILLAGE	LA0G1682	The project consists of a one (1) mile curvilinear pedestrian walkway extending along Lindero Canyon Rd from Agoura Road to Foxfield Drive, creating a safe corridor for pedestrians by eliminating the need to walk in the street, which has a 45mph speed limit and had a history of pedestrian/vehicular accidents. The project includes bioswales and infiltration elements, site lighting, seat walls, landscape improvements.	12/31/2022
WHITTIER	LAF7519	WHITTIER GREENWAY TRAIL EAST EXTENSION: This project is located in the City of Whittier. It will implement a two-mile Class I bike/pedestrian path on a City-controlled easement along the Union Pacific Railroad corridor from Mills Av to Leffingwell Rd, and it will also provide a trailhead east of Mills Av. The project promotes a regional bikeway corridor by extending the 4.5-mile Whittier Greenway Trail east at the City and LA County limits. \$247 in Toll Credits added in FY 19 to match CMAQ	1/31/2022
WHITTIER	LAF5314	Gateway Cities Forum Traffic Signal Corridors Project - improve traffic signal operations by upgrading each traffic signal to federal and state standards, providing additional vehicle detection to enable operation as a fully traffic-actuated signal, installing the appropriate components to enable each signal to be capable of time-based coordination and retiming signals to improve the overall progression of traffic.(approximately 17 signals included)	6/30/2021
WHITTIER	LATP16S011	Whittier Greenway Trail East Extension Gap Closure. Acquisition of final 0.5 mile and construction/completion of final 2.8 miles of the 7.3-mile Whittier Greenway Trail, a Class I bicycle and pedestrian trail along southern boundary of Whittier, connecting LA & Orange County.	6/30/2021

TABLE IV-C-A-2. ORANGE COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE
ANAHEIM	ORA151509	West Street and Citron Street Sidewalk Gap Closure - Construction of sidewalk gap closures to create new 5-ft-wide sidewalk, curb and gutter, and drainage facilities along West and Citron Streets, as well as non-infrastructure activities. Toll Credit for ATP-MPO.	2/1/2023
ANAHEIM	ORA152211	Nohl Ranch Open Space Trail - project will consist of a 10-foot wide Class I bikeway and a 3 to 10-foot wide pedestrian trail (pending clearance), in compliance with Caltrans standards. The project alignment would be approximately 5,100 LF and connect Anaheim Hills Road to the signalized crossing on the east side of Avenido Bernardo North. Ancillary features of the project include lighting, lane markings, signs, bicycle parking and pedestrian amenities.	6/30/2023
LA HABRA	ORA113011	La Habra Union Pacific Railroad Bikeway. ENG for Union Pacific Railroad ROW between La Habra West City Limits and La Habra East City Limits. ROW for La Habra West City Limits to Beach Boulevard. Toll Credit Match for ATP-MPO - Split project with ORA190920 for ROW.	7/1/2025

	TABLE IV-C-A-2. ORANGE COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
ORANGE COUNTY	ORA170205	HAZARD AVENUE BIKEWAY PROJECT between Goldenwest Street and Euclid Avenue. Construct approximately 4 miles of a Class IV (paved, on-road protected) Bikeway in the cities of Westminster and Garden Grove.	12/1/2023	
ORANGE COUNTY	ORA172202	OC Loop El Cajon Bikeway Gap Closure (Segment H) - Install Class II, III & IV bikeway facilities within the City of Yorba Linda, Anaheim & unincorporated Orange County spanning 1.2 miles from Fairlynn Blvd to the terminus of the existing Santa Ana River Regional Riding & Hiking Trail and Bikeway.	10/31/2026	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA130099	Purchase (15) Expansion Paratransit Vans (OCTA)	12/31/2022	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA171401	Six 40' Compressed Natural Gas Expansion Buses (Route 529)	9/30/2024	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA080909	OC STREETCAR BETWEEN SARTC AND A NEW TRANSIT CENTER IN GARDEN GROVE, NEAR THE INTERSECTION OF HARBOR BOULEVARD AND WESTMINSTER AVENUE. (Transit Development Credit Match for FHWA Transfer FY16/17 is \$306k & TDC Match for FHWA Transfer FY18/19 is \$2.822M)	12/31/2022	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA030605	I-405 FROM SR-73 TO I-605. Add 1 MF lane in each direction and additional capital improvements (by 2022), convert existing HOV to HOT. Add 1 additional HOT lane each direction. Combined with ORA045, ORA151, ORA100507, ORA120310, and ORA030605A. Signage from PM 7.6 to 24.2	12/31/2026	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA085004	Anaheim Canyon Station project will add double track and another platform as well as extend the existing platform to be in conformance with the Metrolink standards for passenger platform length. (TDCs in FY18/19 \$136 for DES, \$29 for ROW and \$2,532 for CON; 5307 FHWA Transfer: \$43 in FY19/20 from Orange Parking Structure savings already in FTA grant CA-2017-072)	12/31/2022	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA030612	PLACENTIA TRANSIT STATION - E OF SR-57 AND MELROSE ST AND N OF CROWTHER AVE. CONSTRUCT NEW METROLINK STATION AND RAIL SIDING PPNO 9514	12/31/2022	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA190701	Orange County Traffic Signal Synchronization Projects: El Toro Road, Magnolia Street and Brookhurst Street. El Toro Road (Bridger Road to Orange Street): 9 miles and includes 20 traffic signals. Magnolia Street (Banning Avenue to Commonwealth Avenue): The 16.2 miles and includes 50 traffic signals. Brookhurst Street (PCH to Commonwealth Avenue): The 16.5 miles and includes 58 traffic signals	1/31/2022	
ORANGE COUNTY TRANS AUTHORITY (OCTA)	ORA112702	Rideshare Vanpool Program - Capital Lease Cost FY12/13 - FY20/21. This project includes subsidy, marketing, database, ride guide and associated costs for the Rideshare/Vanpool program. Transit Development Credits: FY18/19 FTA 5307 Transfer @ \$516, FY20/21 CMAQ @ \$516 and FY21/22 CMAQ @ \$516	9/30/2024	
SANTA ANA	ORA190901	Freemont Elementary and Spurgeon Intermediate SRTS - Pedestrian/bicyclist traffic safety improvements for Fremont Elementary and Spurgeon Intermediate safe routes to school. Work includes bulbouts, curb ramps, 2,383 linear feet (If) of new sidewalk, 10,824 lf of class 3 bikeways and a road diet with 5,280 lf of class 2 bikeways. State only funds.	12/15/2024	
SANTA ANA	ORA152212	Bristol Street Protected Bicycle Lanes - Install 1.25 mile protected bike lane on Bristol Street from Edinger Avenue to 1st Street.	6/30/2023	

	TABLE IV-C-A-2. ORANGE COUNTY			
LEAD AGENCY	PROJECT ID	PROJECT DESCRIPTION	COMPLETION DATE	
SANTA ANA	ORA170802	First Street Pedestrian Improvements - Widen existing sidewalks by three feet, narrow the vehicle lanes, construct ADA improvements on sidewalks and wheel chair ramps, provide high visibility marked crosswalks, and add a signal controlled pedestrian crossing along First Street, 1.1 mile corridor.	12/14/2026	
SANTA ANA	ORA152210	Bristol Street - Edinger Avenue Class II Bike Lanes - Install a 1.25 mile Class II Bike Lane on Bristol Street from Sunflower Avenue to Central Avenue and install a .5 mile Class II Bike Lane on Edinger Avenue from Bristol Street to Flower Street.	6/30/2023	
SANTA ANA	ORA151502	Santa Ana and Fifth Protected Bike Lane - Install median protected bike lanes on Santiago, Sixth, Brown, Garfield, French, Fifth and Santa Ana with all applicable signage, striping, and signal improvements. ATP State only funding.	12/1/2026	
SANTA ANA	ORA151503	The Edinger Ave Protected Bike Lanes Project - Install bike lanes down the 1.7 mile corridor passing through residential homes, schools, parks, and small business shopping centers. The Project includes a Safe Routes to School program at 3 schools. ATP State-Only funded.	12/1/2026	
SANTA ANA	ORA190905	Standard Avenue Class IV Protected Bike Lane and Class II Buffered Bike Lane from 3rd Street to Warner Avenue and Protected Intersection Project at McFadden in the City of Santa Ana. Project includes 9,900 linear feet (If) of road diets, 4,000 lf class II, 1,700 lf class III, and 5,900 lf class IV bikeways. ATP toll credits.	12/15/2024	
SANTA ANA	ORA190904	McFadden Ave. Protected Bike Lane and Bicycle Blvd. Project - McFadden Ave. 15,050 linear feet of class IV protected bike lanes and road diets and 6,365 linear feet of class III Bicycle Blvd from Harbor Blvd to Grand Ave in the City of Santa Ana. ATP toll credits.	12/15/2024	
TCA	10254	SAN JOAQUIN HILLS TRANSPORTATION CORRIDOR (SJHTC - SR 73). 15 MI TOLL RD BETWEEN 1-5 IN SAN JUAN CAPISTRANO & RTE 73 IN IRVINE, CONSISTENT WITH SCAG/TCA MOU 4/5/01. EXISTING 3 M/F EA DIR. 1 ADDITIONAL M/F EA DIR, PLUS CLIMBING & AUX LANES BY 2022.	12/31/2022	
TCA	ORA051	FOOTHILL TRANSPORTATION CORRIDOR-NORTH (FTC-N - SR 241). 12.7 MI TOLL ROAD BETWEEN OSO PKWY AND ETC, CONSISTENT WITH SCAG/TCA MOU 4/05/01. EXISTING 2 M/F IN EA DIR. 2 ADDITIONAL M/F, PLS CLIMBING & AUX LANES BY 2022.	12/31/2022	
TCA	ORA050	EASTERN TRANSPORTATION CORRIDOR (ETC- SR 241/261/133) 26.4 MI TOLL ROAD CONNECTS SR 91 to I-5 via SR 261 and SR 133, CONSISTENT WITH SCAG/TCA MOU 4/05/01. EXISTING 2 M/F EA DIR. 2 ADDITIONAL M/F IN EA DIR, PLUS CLIMBING AND AUX LANES BY 2022.	12/31/2022	
VARIOUS AGENCIES	ORA111207	241/91 EXPRESS LANES (HOT) CONNECTOR: NB SR-241 TO EB SR-91, WB SR-91 TO SB SR-241.	12/31/2035	
VARIOUS AGENCIES	ORA100511	SR-55 WIDENING BETWEEN I-405 AND I-5 - ADD 1 MF AND 1 HOV LANE EACH DIRECTION AND FIX CHOKEPOINTS FROM I-405 TO I-5; ADD 1 AUX LANE EA DIR BTWN SELECT ON/OFF RAMP AND NON-CAPACITY OPERATIONAL IMPROVEMENTS THROUGH PROJECT LIMITS. Toll Credit for RSTP and CMAQ. (Including street traffic signal improvement at I-5/Newport Avenue onramp for mitigation. non-capacity)	4/30/2027	
VARIOUS AGENCIES	ORA111801	I-5 (Alicia Parkway to El Toro Road) Segment 3 - The project will add one general purpose lane on the I-5 in each direction between Alicia Parkway and El Toro Road (approximately 1.7 miles), Extend the 2nd HOV lane in both directions and add auxiliary lanes where needed.	9/30/2025	

TABLE IV-C-A-2. ORANGE COUNTY				
LEAD AGENCY PROJECT ID PROJECT DESCRIPTION				
VARIOUS AGENCIES	ORA111209	LAGUNA NIGUEL TO SAN JUAN CAPISTRANO PASSING SIDING - ADD 1.8 MILES OF NEW RAILROAD TRACK ADJACENT TO THE EXISTING MAIN TRACK. (INCLUDES SLOPE STABILIZATION/RETAINING WALL) MP 193.9 - MP 195.7 (project will utilize TDC Match - 5307 FHWA Transfer: \$438 in FY13/14; \$2,125 in FY16/17. CMAQ: \$264 in FY21/22. 5307 FHWA Transfer: \$47 in FY19/20 from Orange Parking savings already in grant CA-2017-072)(PPNO 2107)	2/28/2023	
VARIOUS AGENCIES	ORA111210	I-5 FROM SR 55 TO SR 57 - ADD 1 HOV LANE EACH DIRECTION (PPNO 2883A). Signage from PM 31.1 to 37.7. (Utilize toll credit match)	12/31/2021	

TABLE IV-C-A-3. RIVERSIDE COUNTY					
LEAD AGENCY	LEAD AGENCY PROJECT ID PROJECT DESCRIPTION				
CITY OF EASTVALE	in the City of Eastvale: Pedestrian Safety Improvement Project - Construction of sidewalk along Hall Avenue between Chandler Street and Walters (approximately 2,000 sf), Citrus Street between Scholar Way and Carrollton Place (1,420 ft) and handicap ramp at the intersection of Schleisman Road and Sumner Avenue.		12/31/2021		
CITY OF JURUPA VALLEY	IN WESTERN RIVERSIDE COUNTY FOR THE CITY OF JURUPA VALLEY - SRTS PROJECT TO PROVIDE CURB, GUTTER, SIDEWALK, AND DIRT TRAILS ALONG MARTIN ST, 48TH ST, AND TROTH ST, INCLUDING LED CROSSWALK FLASHERS AT THE MARTIN/BELLEGRAVE INTERSECTION AND CURB BUMP OUTS AT THE MARTIN ST INTERSECTIONS.		12/31/2024		
HEMET	RIV181010	IN CITY OF HEMET - HEMET VALLEY BIKEWAY CONX: INSTALL CLASS II (1,200 LF), III (10,500 LF) BIKE LNS, NEW S/W (4,000 LF) W/ ADA RAMPS, XING IMP., ON PALM BW ESPLANDE & JOHNSTN, WHITTIER BW PALM & GILBERT, JOHNSTN BW PALM & GILBERT BW WHITTIER & CHAMBERS, CHAMBERS BW GILBERT & STATE; BIKE STAGING W/ DETECTION, LOCKERS, REPAIR AREA; INCL OUTREACH. (ATP-3 AUG STATE) TC UTILIZ FOR FY19, FY20.	9/1/2023		
RIVERSIDE COUNTY	RIV181007	IN WEST RIV CO IN UNINCORPORATED CABAZON: CABAZON SRTS SIDEWALK SAFETY IMPROVEMENTS: INSTALL 3,000 LF OF NEW S/W, CURB&GUTTER, PAVEMENT WIDENING, ADA CURB RAMPS, DRIVEWAY APPROACHES, SIGNS, MARKINGS ALONG THE EAST SIDE OF BROADWAY ST. (B/W CARMEN AVE & 400 FT. S/O MAIN ST) & ALONG THE S/S OF CARMEN AVE (B/W ALMOND ST & CABAZON ELEMENTARY) (ATP-3 AUG-STATEWIDE) (STATE-ONLY FUNDS)	12/31/2022		
RIVERSIDE COUNTY TRANS COMMISSION (RCTC)	RIV200105	In Western Riverside County - Continue the implementation of subsidies for eligible vanpools commuting to worksites in Western County.	12/30/2030		

TABLE IV-C-A-3. RIVERSIDE COUNTY					
LEAD AGENCY	LEAD AGENCY PROJECT ID PROJECT DESCRIPTION				
RIVERSIDE COUNTY TRANS COMMISSION (RCTC)	RIV160101	IN WESTERN RIVERSIDE COUNTY ON SR-91/I-15: On I-15 - ADD TOLL EXPRESS LANE MEDIAN DIRECT CONNECT FROM SB15 TO WB91 & EB91 TO NB15, 1 TOLL EXPRESS LANE EACH DIRECTION FROM HIDDEN VALLEY TO SR91 DIRECT CONNECTOR. CONSTRUCT OPERATIONAL IMPROVEMENT BY EXTENDING THE EB91 EXPRESS LANE AND AUXILARY LANE ALONG SR91. CONSTRUCT ADDITIONAL SIGNAGE ALONG SR91 AT PM R18.0 IN OR COUNTY.	6/30/2023		
RIVERSIDE COUNTY TRANS COMMISSION (RCTC)	RIV111207	IN WESTERN RIVERSIDE COUNTY - CONTINUE THE IMPLEMENTATION OF PARK & RIDE FACILITIES THROUGH PROPERTY LEASES (VARIOUS LOCATIONS THROUGHOUT THE WESTERN COUNTY).	12/30/2028		
RIVERSIDE COUNTY TRANS COMMISSION (RCTC)	RIV151104	FREEWAY SERVICE PATROL (FSP) – CONTINUED IMPLEMENTATION OF FSP ON SR-91 (ORANGE COUNTY LINE TO 60/91/215 INTERCHANGE), SR-60 (MILLKEN TO THEODORE), I-215 (SAN BERNARDINO COUNTY LINE TO MURRIETA HOT SPRINGS), I-15 (SR-60 TO SR-79/TEMECULA PARKWAY).	12/31/2028		
RIVERSIDE TRANSIT AGENCY	RIV180131	IN WESTERN RIV CO IN THE CITY OF HEMET FOR RTA - CONSTRUCTION OF THE HEMET MOBILITY HUB ON 2 ACRE PARCEL LOCATED EAST OF RAIL ROW, SOUTH OF EAST DATE STREET, W/O NORTH JUANITA ST, AND NORTH OF EAST DEVONSHIRE AVE TO INCLUDE: 10 BUS BAYS, 10 SHELTERS/CANOPIES, 20 PARKING SPACES, 1 TRAFFIC SIGNAL AT DEVONSHIRE & CARMALITA, 1 CONTROLLED INTERSECTION AT DEVONSHIRE AND JUANITA; STORAGE AND RESTROOM FACILITY. (FTA 5339: FY15 \$1,626 (URBAN); FY16 \$317 AND FY17 \$326 (SMALL URBAN).	12/31/2030		
RIVERSIDE, CITY OF	RIV181012	IN WESTERN RIVERSIDE COUNTY IN THE CITY OF RIVERSIDE - LA SIERRA NEIGHBORHOOD SIDEWALK IMP: INSTALLATION OF 1.28 MILE OF ADA-COMPLIANT SIDEWALK ON CARMINE ST, RICHMOND ST, NORWOOD AVE. FROM COLLEGE AVENUE TO SIERRA VISTA AVE., ON DOVERWOOD DR. FROM BUTLER DR. TO LA SIERRA AVE., ON A PORTION OF BUTLER DR. AND ON COLLEGE AVE FROM DOVERWOOD DR. TO NORWOOD AVE. (ATP-3 AUG STATEWIDE, SOF)	3/30/2023		
RIVERSIDE, CITY OF	RIV140841	IN WESTERN RIVERSIDE COUNTY FOR CITY OF RIVERSIDE-IOWA AVE & MLK BLVD BIKE IMPROVEMENTS: CONSTRUCT 0.8 MI 10 FT WIDE TWO DIR MULTI-USE PATH ON N.SIDE OF MLK BLVD B/W CANYON CREST DR & CHICAGO AVE & WIDENING IOWA AVE B/W MLK BLVD & EVERTON PL INCLUDES GRADING, ASPHALT PAVING, SIGNS, & RESTRIPING & INSTALL 6 FT CLASS II BIKE LNS FOR 0.8 MI WITH 2 FT BUFFERS	12/31/2020		
RIVERSIDE, CITY OF	RIV160404	IN WESTERN RIVERSIDE COUNTY FOR THE CITY OF RIVERSIDE - CITYWIDE BIKE AND PEDESTRIAN IMPROVEMENTS INCLUDING: INSTALL OF 5.5 MI OF CLASS II BIKE LANES ON CENTRAL AVE; 2.4 MI OF CYCLE TRACKS ON WATKINS DR AND CANYON CREST; SHARROW PAVEMENT MARKINGS AROUND FAIRMOUNT PARK; 20 BIKE RACKS THROUGHOUT DOWNTOWN AREA; & HAWK SIGNALS AT 3 UNCONTROLLED CROSSWALKS.	12/31/2024		

TABLE IV-C-A-4. SAN BERNARDINO COUNTY					
LEAD AGENCY	LEAD AGENCY PROJECT ID PROJECT DESCRIPTION				
FONTANA	20131506	IN FONTANA: SAN SEVAINE TRAIL (PHASE 1, SEG 2) North/South 1.25 mile long, 12 ft wide paved multi- use trail from Banyan St. to the Pacific Electric Trail in Fontana	6/30/2022		
OMNITRANS	REDLANDS PASSENGER RAIL PROJECT (RPRP): NEW PASSENGER RAIL SERVICE FROM RIALTO / E ST IN SAN BERNARDINO TO REDLANDS. (SBCTA is sub recipient of FTA funds & is actual project Lead Agency)(TD Credits: 5307-TR FTA FUNDS FY19/20 \$3,998) (THE PROJECT MANAGEMENT COST OF APPROX \$20M IN LOCAL FUNDS IS NOT INCLUDED IN FTIP TOTAL COST.)(Includes locomotive purchase from study project 20151303)				
OMNITRANS	20150307	COUNTY-WIDE VANPOOL PROJECT (Ongoing)(TDC: FY16/17 CMAQ CON \$460k)	6/30/2023		
SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY	201186	AT SR-210/BASE LINE IC: RECONSTRUCT/WIDEN BASE LINE BETWEEN CHURCH AVE AND BOULDER AVE FROM 4 TO 6 THROUGH LANES AND EXTEND LEFT TURN LANES, WIDEN RAMPS: WB EXIT 1 TO 3 LANES, WB AND EB ENTRANCES 1 TO 3 LANES INCLUDING HOV PREFERENTIAL LANES (EA 1C970)	12/31/2022		
SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY	SBCTA Metrolink Station Accessibility Improvement Project - Phase II: Bicycle and pedestrian accessibility improvements near five Metrolink transit stations (Montclair, Upland, Rancho Cucamonga, Fontana, and San Bernardino). Toll Credit to match ATP		5/21/2024		
SAN BERNARDINO COUNTY TRANSPORTATION AUTHORITY	20159901	I-15 Express Lanes (Contract 1): Construct 1 Exp. Lane in each direction between Cantu-Galleano Ranch Rd. and SR-60 and 2 Exp. Lanes in each direction between SR-60 and north of Foothill Blvd. Additional improvements to AUX LN widening, undercrossing, and reconstruction of ramps and lane transitions where needed.	10/1/2026		
VARIOUS AGENCIES	20159902	I-10 CORRIDOR EXPRESS LANE WIDENING (Contract 1): FROM SAN ANTONIO AVE TO I-10/I-15 IC; IMPLEMENT 2 EXPRESS LNS IN EACH DIRECTION FOR A TOTAL OF 4 GENERAL PURPOSE AND 2 EXPRESS LNS IN EACH DIRECTION AND AUX LANE WIDENING, UNDERCROSSINGS, OVERCROSSINGS, AND RECONSTRUCTION OF RAMPS AND LANE TRANSITIONS WHERE NEEDED. (Toll Credits to match STP, CMAQ) (Toll System Provider (TSP) split as 20159902a)	10/1/2023		

Attachment B: Reasonably Available Control Measure (RACM) Analysis - TCMs

Section 108 (f) 1. Programs for Improved Public Transit

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
1.1	Regional Express Bus Program	Purchase of buses to operate regional express bus services.	Yes		CTCs (MTA, OCTA), Transit Operators
1.2	Transit access to airports	Operation of transit to airport to serve air passengers.	Yes		Transit Operators, Burbank Glendale Pasadena Airport, CTCs (MTA, SCRRA)
1.3	Accelerate Bus Retrofit Program	Accelerate application of retrofit of diesel-powered buses to achieve earlier compliance with state regulations.	Yes		CTCs (MTA, OCTA), Transit Operators
1.4	Mass transit alternatives	Major change to the scope and service levels.	Yes		SCAG, CTCs
1.5	Expansion of public transportation systems	Expand and enhance existing public transit services.	Yes		CTCs
1.6	Transit service improvements in combination with park-and-ride lots and parking Management	Local jurisdictions and transit agency improve the public transit system and add new park-and-ride facilities and spaces on an as needed basis.	Yes		CTCs (MTA, SCRRA)

Section 108 (f) 1. Programs for Improved Public Transit

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
1.7	Free transit during special events	Require free transit during selected special events to reduce event-related congestion and associated emission increases.	No	The Legislature significantly reduced authority of SOUTH COAST AQMD to implement indirect source control measures through revisions to the Health & Safety Code (HSC 40717.8). Transit agencies should decide individually whether this measure is economically feasible for them. Note that the Mobile Source Air Pollution Reduction Review Committee (MSRC) has been cofunding free event center shuttle service projects.	
1.8	Require that government employees use transit for home to work trips, expand transit, and encourage large businesses to promote transit use	Require all government employees use transit a specified number of times per week, or expand transit, and encourage business to promote transit use.	Yes		CTCs
1.9	Increase parking at transit centers or stops	Encourage transit convenience by providing additional parking at transit centers.	Yes		CTCs
1.10	Expand regional transit connection ticket distribution	Provides interchangeability of transit ticket.	Yes		CTCs, Metrolink
1.11	Bus Signal Priority	Wireless bus signal priority system on bus fleets for increased operation efficiency and travel time savings.	Yes		Transit Agencies

Section 108 (f) 1. Programs for Improved Public Transit

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
1.12	Passenger rail improvements	Installation of additional platforms, double tracks, concrete ties, bridges, signal relocation.	Yes		Cities, Transit Agencies
1.13	Alternative Fuel Buses	Self-explanatory.	Yes		Cities, Transit Agencies
1.14	Intermodal Centers	Improved transit connection of various travel modes	Yes		Cities, Transit Agencies
1.15	Maglev	Construct regional low-speed magnetic levitation transit	No	Though considered in past SCAG transportation plans, Maglev has never been a committed TCM; in addition, the region is already being serviced by light rail; Not Cost-effective.	
1.16	High Speed Rail	Construct high speed rail connecting large metropolitan centers in the state	Yes		HSRA
1.17	Public transit facility improvements and operating assistance	Construct and/or improve bus and rail terminals, stations, and maintenance facilities	Yes		CTCs, Transit Agencies
1.18	Paratransit Service	Self-explanatory	Yes		CTCs, Cities, Transit Agencies
1.19	Express Busways/Dedicated Bus Lanes	Construct bus-only lanes	Yes		CTCs

Section 108 (f) 2. Restriction of Certain Roads or Lanes to, or Construction of Such Roads or Lanes for Use By, Passenger Buses or High Occupancy Vehicles

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
2.1	Update High Occupancy Vehicle (HOV) Lane Master Plan	Analysis of increased enforcement, increasing occupancy requirements, conversion of existing HOV lanes to bus only lanes and/or designation of any new carpool lanes as bus-only lanes; utilization of freeway shoulders for peak-period express bus use; commercial vehicle buy-in to HOV lanes; and appropriateness of HOV lanes for corridors that have considered congestion pricing or value pricing.	Yes		SCAG, Caltrans, CTCs
2.2	Fixed lanes for buses and carpools on arterials	Provide fixed lanes for buses and carpools on arterial streets where appropriate.	Yes		CTCs (MTA, OCTA), LA City
2.3	Expand number of freeway miles available, allow use by alternative fuel vehicles, changes to HOV lane requirements and hours	Various measures evaluated in many ozone nonattainment areas. Specifics vary according to freeway system, use patterns and local characteristics.	Yes		CARB, Caltrans
2.4	Express toll lanes/High Occupancy Toll (HOT) Lanes	Self-explanatory.	Yes		Caltrans, CTCs

Section 108 (f) 3. Employer-Based Transportation Management Plans, Including Incentives

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
3.1*	Commute solutions	The federal <i>Commuter Choice Program</i> provides for benefits that employers can offer to employees to commute to work by methods other than driving alone.	Yes		Employer, SOUTH COAST AQMD
3.2*	Parking cash-out	State law requires certain employers who provide subsidized parking for their employees to offer a cash allowance in lieu of a parking space.	Yes		Employer, CARB
3.3*	Employer Rideshare Program Incentives	Employer rideshare incentives and introduction of strategies designed to reduce single occupant vehicle trips. Implementation includes information systems and marketing. Examples include: employee awareness campaigns, Transportation Management Associations (TMA) membership, alternative work hours, and financial incentives.	Yes		CTCs, Caltrans, Employer, SOUTH COAST AQMD
3.4*	Implement Parking Charge Incentive Program	Evaluate feasibility of an incentive program for cities and employers that convert free public parking spaces to paid spaces. Review existing parking polices as they relate to new development approvals.	Yes		Cities, Counties, Employer

^{*} This measure relates to SOUTH COAST AQMD Rule 2202, On-Road Motor Vehicle Mitigation Options. Administered by AQMD, Rule 2202 provides a menu of options for employers in choosing how they will comply. Individual employers implement the mitigation option(s) that they have chosen. Note: Rule 2202 is subject to change through the South Coast AQMD rule amendment process.

Section 108 (f) 3. Employer-Based Transportation Management Plans, Including Incentives

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
3.5*	Preferential parking for carpools and vanpools	This measure encourages public and private employers to provide preferential parking spaces for carpools and vanpools to decrease the number of single occupant automobile work trips. The preferential parking could include covered parking spaces or close-in spaces.	Yes		Employer, SOUTH COAST AQMD
3.6*	Employee parking fees	Encourage public and private employers to charge employees for parking.	Yes		Employer, SOUTH COAST AQMD
3.7	Merchant transportation incentives	Implement "non-work" trip reduction ordinances requiring merchants to offer customers mode shift travel incentives such as free bus passes and requiring owners/managers/developers of large retail establishments to provide facilities for non-motorized modes.	No	Require state legislation.	
3.8*	Purchase/lease/third-party vans for vanpool programs	Provide a specified number of vans for use in employee commute travel.	Yes		Employer, SOUTH COAST AQMD
3.9*	Encourage regulated employers to subsidize the cost of transit for employees	Provide outreach and possible financial incentives to encourage local employers to provide transit passes or subsidies to encourage less individual vehicle travel.	Yes		Employer, SOUTH COAST AQMD

^{*} This measure relates to SOUTH COAST AQMD Rule 2202, On-Road Motor Vehicle Mitigation Options. Administered by South Coast AQMD, Rule 2202 provides a menu of options for employers in choosing how they will comply. Individual employers implement the mitigation option(s) that they have chosen. Note: Rule 2202 is subject to change through the South Coast AQMD rule amendment process.

Section 108 (f) 3. Employer-Based Transportation Management Plans, Including Incentives

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
3.10*	Compressed work weeks	Work 80 hours in 9 days, or 40 hours in 4 days, or 36 hours in 3 days in lieu of working 40 hours in 5 days.	Yes		Employer, SOUTH COAST AQMD
3.11*	Telecommuting	Goal of specified percentage of employees telecommuting at least one day per week.	Yes		Employer, SOUTH COAST AQMD
3.12	Income Tax Credit to Telecommuters	Provide tax relief to employees who participate in telecommuting programs.	No	Requires State legislation.	
3.13*	Extend parking cash-out rule to more employers	Self-explanatory	No	Requires State legislation.	
3.14	Bike to Work Day/Month	Encourage biking to work during bike awareness month. Provide outreach activities, education on the bike-to-work option, and provide assistance in trying to bike to work.	Yes		Employers, Cities, Counties, VCAPCD, CTCs

^{*} This measure relates to SOUTH COAST AQMD Rule 2202, On-Road Motor Vehicle Mitigation Options. Administered by SOUTH COAST AQMD, Rule 2202 provides a menu of options for employers in choosing how they will comply. Individual employers implement the mitigation option(s) that they have chosen. Note: Rule 2202 is subject to change through the South Coast AQMD rule amendment process.

Section 108 (f) 4. Trip Reduction Ordinance

In December 1995, Congress changed the Clean Air Act Amendments to make the Employee Commute Option program voluntary (no longer mandatory). California State Law prohibits mandatory employer based trip reduction ordinance programs (SB437). (HSC 40717.9) To account for these restrictions, SOUTH COAST AQMD Rule 2202 provides employers with a menu of options to reduce mobile source emissions generated from employee commutes. Rule 2202 complies with federal and state Clean Air Act requirements, HSC 40458, and HSC 182(d)(1)(B) of the federal Clean Air Act. Nevertheless, some jurisdictions continue to implement Trip Reduction Ordinances. For example, the City of Santa Monica requires new and existing non-residential development projects to adopt Emission Reduction Plans and pay transportation impact fees to reduce traffic congestion and improve air quality in the city.

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
5.1	Develop Intelligent Transportation Systems	The term "Intelligent Transportation Systems" includes a variety of technological applications intended to produce more efficient use of existing transportation corridors. Includes measures like ramp-metering, and real-time transit information systems.	Yes		CTCs, Caltrans, and Cities
5.2	Coordinate traffic signal systems	This measures implements and enhances synchronized traffic signal systems to promote steady traffic flow at moderate speeds.	Yes		CTCs, Counties, and Cities
5.3	Reduce traffic congestion at major intersections	This measure implements a wide range of traffic control techniques designed to facilitate smooth, safe travel through intersections. These techniques include signalization, turn lanes or median dividers. The use of grade separations may also be appropriate for high volume or unusually configured intersections.	Yes		CTCs, Counties, and Cities

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
5.4	Site-specific transportation control measures	This measure could include geometric or traffic control improvements at specific congested intersections or at other substandard locations. Another example might be programming left turn signals at certain intersections to lag, rather than lead, the green time for through traffic.	Yes		CTCs, Counties, and Cities
5.5	Removal of on-street parking	Require all commercial/industrial development to design and implement off-street parking.	Yes		CTCs, Counties, and Cities
5.6	Reversible lanes	Implement reversible lanes on arterial streets to improve traffic flow where appropriate.	Yes		CTCs, Counties, and Cities
5.7	One-way streets	Redesignate streets (or portions of in downtown areas) as one-way to improve traffic flow.	Yes		CTCs, Counties, and Cities
5.8	On-Street parking restrictions	Restrict on-street parking where appropriate.	Yes		CTCs, Counties, and Cities
5.9	Bus pullouts in curbs for passenger loading	Provide bus pullouts in curbs, or queue jumper lanes for passenger loading and unloading.	Yes		CTCs, Counties, and Cities
5.10	Additional freeway service patrol	Operation of additional lane miles of new roving tow truck patrols to clear incidents and reduce delay on freeways during peak periods.	Yes		CTCs, CHP
5.11	Fewer stop signs, remove unwarranted and "political" stop signs and signals	Improve flow-through traffic by removing stop signs and signals. Potential downside in safety issues.	Yes		CTCs, Counties, and Cities

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
5.12	Ban left turns	Banning all left turns would stop the creation of bottlenecks although slightly increase travel distances.	No	Left turns are not allowed in some heavy-traffic streets. No clear demonstration of emission reduction benefits.	
5.13	Changeable lane assignments	Increase number of one-way lanes in congested flow direction during peak traffic hours.	Yes		Caltrans, CTCs, Counties, and Cities
5.14	Adaptive traffic signals and signal timing	Self-explanatory.	Yes		Counties, Counties, and Cites
5.15	Freeway bottleneck improvements (add lanes, construct shoulders, etc.)	Identify key freeway bottlenecks and take accelerated action to mitigate them.	Yes		Caltrans, SCAG
5.16	Minimize impact of construction on traveling public. Have contractors pay when lanes are closed as an incentive to keep lanes open.	Prohibit lane closures during peak hours, limit work to weekends and/or nights.	Yes		Caltrans
5.17	Internet provided road and route information	Reduce travel on highly congested roadways by providing accessible information on congestion and travel.	Yes		CTCs, Caltrans, Counties, Cities
5.18	Regional route marking systems to encourage underutilized capacity	Encourage travel on local roads and arterials by better route marking to show alternatives.	Yes		Caltrans, Counties, Cities
5.19	Congestion management field team to clear incidents	Self-explanatory.	Yes		CTCs, CHP
5.20	Use dynamic message signs to direct/smooth speeds during incidents	Self-explanatory.	Yes		Caltrans

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
5.21	Get real-time traffic information to trucking centers and rental car agencies	Reduce travel in congested areas by providing information directly to high volume travelers.	Yes		CTCs, Caltrans
5.22	55 mph speed limit during ozone season	Self-explanatory	No	Reductions in freeway speeds are governed by California Vehicle Code 22354, which authorizes Caltrans to lower speeds after doing an engineering and traffic survey, which shows that the legislatively-set maximum speed of 65 mph, is more than is reasonable or safe. No consideration of emissions reductions is contemplated under this statute. This measure is not feasible until the statute is changed.	
5.23	Require 40 mph speed limit on all facilities	Depends on area's emission factors.	No	The California Vehicle Code Sections 22357 and 22358 mandates a methodology for setting speed limits for local areas. This measure is not feasible until the statute is changed.	

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
5.24	Require lower speeds during peak periods	Self-explanatory.	No	The California Vehicle Code Sections 22357 and 22358 mandates methodology for setting speed limits for local areas. This measure is not feasible until the statute is changed.	
5.25	On-street parking restrictions	Restrict on-street parking where appropriate.	Yes		State, Counties, and Cities
5.26	Roundabouts at low traffic intersections	Construct roundabouts and remove stop signs as appropriate	Yes		Counties, Cities
5.27	Eco-Driving educational program	Education program to improve vehicle efficiency by improving driving habits	No	No clear demonstration of emission reduction benefits.	

Section 108 (f) 6. Fringe and Transportation Corridor Parking Facilities Serving Multiple Occupancy Vehicle Programs or Transit Service

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
6.1	Park-and-ride lots	Develop, design, and implement new park-and-ride facilities in locations where they are needed, particularly free parking near transit facilities.	Yes		Caltrans, CTCs, Transit Operators, SCRRA

Section 108 (f) 6. Fringe and Transportation Corridor Parking Facilities Serving Multiple Occupancy Vehicle Programs or Transit Service

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
6.2	Park-and-ride lots serving perimeter counties	Specific to a locality.	Yes		Caltrans, CTCs, Transit Operators, SCRRA

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
7.1	Off-peak goods movement	Restrict truck deliveries by time or place in order to minimize traffic congestion during peak periods.	Yes		PierPass (A non- profit organization of marine terminal operators at the Ports of Los Angeles and Long Beach)
7.2	Truck restrictions during peak periods	Restrict truck travel during peak periods in order to minimize traffic congestion.	Yes		See Measure 7.1
7.3	Involve school districts in encouraging walking/bicycling to school	Decrease vehicle emissions associated with school trips by reducing these trips through education and out-reach programs.	Yes		School Districts

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
7.4	Adjust school hours so they do not coincide with peak traffic periods and ozone seasons	Measure to reduce travel during peak periods and ozone-contributing periods in the early morning.	No	School hours are dictated by many variables, including overcrowding and year-round schooling. This measure is not feasible.	
7.5	Area-wide tax for parking	Reduce driving by limiting parking through implementation of pricing measures.	Yes		Counties, Cities
7.6	Increase parking fees	Reduce driving by limiting parking spaces through pricing measures.	No	Attorney General ruled South Coast AQMD lacks authority to implement this measure.	
7.7	Graduated pricing starting with highest in Central Business District (CBD)	Increase parking charge in the CBD or other high volume areas in a city to discourage vehicle travel in these areas.	Yes		Market Driven
7.8	Purchase parking lots and convert into other land uses	Limit parking by converting available parking to other land uses to discourage driving.	Yes		Counties and Cities

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
7.9	Limit the number of parking spaces at commercial airlines to support mass transit	Reduce airport travel by limits on parking at airports.	No	Regulatory agencies do not have the legal authority to make local land use decisions. It is at the discretion of the regional or local airport authority to make local land use decisions pertaining to airports. Additionally, It is necessary to have significant mass transit available at airports before this measure can be implemented.	
7.10	No CBD vehicles unless LEV, alternative fuel, or electric	Define high-use area and ticket any vehicles present unless they are low emitting, alternative fueled or electric.	No	The Legislature significantly reduced authority of the SOUTH COAST AQMD to implement indirect source control measures through revisions to the Health & Safety Code (40717.6, 40717.8, and 40717.9).	
7.11	Auto restricted zones	No vehicles allowed in certain areas where high emissions, congestion or contribution to ozone problems.	Yes		Counties and Cities
7.12	Incentives to increase density around transit centers	Lower travel by increasing residential and commercial density in areas near transit.	Yes		Counties and Cities
7.13	Land use/air quality guidelines	Guidelines for developments that contribute to achieving air quality goals.	Yes		CARB, SOUTH COAST AQMD,SCAG

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
7.14	Cash incentives to foster jobs/housing balance	Specific to locality – encouraged by California Clean Air Plan.	No	Has never been a committed TCM. No dedicated source of funding for this measure.	
7.15	Trip reduction oriented development	Land use decisions that encourage trip reductions.	Yes		Counties, Cities, CTCs
7.16	Transit oriented development	Land use decisions that encourage walkable communities and multi-modal transit systems.	Yes		Counties, Cities, CTCs
7.17	Sustainable development	Land use decisions that create equitable standards of living to satisfy the basic needs of all peoples, all while taking the steps to avoid further environmental degradation.	Yes		Counties, Cities, CTCs
7.18	Smart Parking Detection System	Utilize mobile communication devices to access the parking availability at multiple lots and provide real-time inventory of parking spaces.	Yes		Cities
7.19	Programs to encourage goods movement by rail	Self-explanatory	Yes		CARB
7.20	Divert Trucks from Nonattainment Areas	Require pass-through trucks to choose routes away from the SCAG region	No	No authority to implement; Not feasible because whole South Coast region is nonattainment area under one or more NAAQS.	
7.21	Buy parking lots and convert to other land use	Limit parking by converting available parking to other land uses to discourage driving	Yes		Counties, Cities

Section 108 (f) 8. Programs For the Provision of All Forms of High-Occupancy, Shared-Ride Services

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
8.1*	Financial Incentives, Including Zero-Bus Fares	Provide financial incentives or other benefits, such as free or subsidized bus passes and cash payments for not driving, in lieu of parking spaces for employees who do not drive to the workplace.	Yes		SOUTH COAST AQMDSOUTH COAST AQMD, Employer
8.2	Internet ride matching services	Provide match-lists, route info, hours and contact information over the internet to assist individuals in joining or developing carpools.	Yes		CTCs, Employer
8.3*					
8.4*	Credits and incentives for carpoolers	Self-explanatory – form depends on locality.	Yes		SOUTH COAST AQMD, Employer
8.5*	Employers provide vehicles to carpoolers for running errands or emergencies	Having vehicles available for workday errands makes it easier to go to work without one.	Yes		SOUTH COAST AQMD, Employer
8.6	Subscription services	Free van services to provide transportation for the elderly, handicapped or other individuals who have no access to transportation.	Yes		County, CTCs, Employer
8.7	School carpools	Self-explanatory and voluntary.	Yes		School Parents

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Section 108 (f) 8. Programs For the Provision of All Forms of High-Occupancy, Shared-Ride Services

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
8.8*	Guaranteed ride home	Self-explanatory.	Yes		CTCs, SOUTH COAST AQMD, Employer
8.9	Transit Voucher Program	Transit vouchers for elderly and low income commuters.	Yes		CTCs, Cities, Counties
8.10	Rideshare and vanpool services	Non-employer based rideshare and vanpool option near transit stations.	Yes		CTCs, Transit Agencies, Cities and Counties

Section 108 (f) 9. Programs to Limit Portions of Road Surfaces or Certain Sections of the Metropolitan Area to the Use of Non-Motorized Vehicles or Pedestrian Use, Both as to Time and Place

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
9.1	Establish Auto-Free Zones and pedestrian malls	Establish auto free zones and pedestrian malls where appropriate.	Yes		Counties and Cities

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Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
9.2	Encouragement of pedestrian travel	This measure involves encouraging the use of pedestrian travel as an alternative to automobile travel. Pedestrian travel is quite feasible for short shopping, business, or school trips.	Yes		CTCs, Counties, Cities, SCAG
9.3	Bicycle/Pedestrian Program	Fund high priority projects in countywide plans consistent with funding availability.	Yes		CTCs, Counties, and Cities
9.4	Close certain roads for use by non- motorized traffic	During special events, weekends, or certain times of the day, close some roads to all but non-motorized traffic.	Yes		Counties, and Cities
9.5	Encourage bicycle travel	Promotion of bicycle travel to reduce automobile use and improve air quality. Bikeway system planning, routes for inter-city bike trips to help bicyclists avoid other, less safe facilities. Another area for potential actions is the development and distribution of educational materials, regarding bicycle use and safety.	Yes		SCAG, CTCs, Counties, Cities, and Employer
9.6	Free bicycles	Provide free bikes in the manner of Boulder, CO. Simple utilitarian bikes that can be used throughout the metro area and dropped off at destination for use by anyone desiring use.	No	Bike share is being implemented in the South Coast region; free bikes are not cost-effective; Evidence suggests that bicycle theft is a problem in other programs and renders the measure technologically and economically infeasible.	

Section 108 (f) 9. Programs to Limit Portions of Road Surfaces or Certain Sections of the Metropolitan Area to the Use of Non-Motorized Vehicles or Pedestrian Use, Both as to Time and Place

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
9.7*	Cash rebates for bikes	Provide financial incentives to purchase bicycles and thereby encourage use.	Yes		Employer
9.8	Close streets for special events for bikes and pedestrians	Self-explanatory.	Yes		Counties and Cities
9.9	Use condemned dirt roads for bike trails	Self-explanatory.	No	Not applicable because there are no condemned dirt roads in the region.	
9.10	Safe Routes to School programs	Encourage educational and encouragement programs with families and schools and support policies to improve pedestrian and bicycle safety.	Yes		State, Counties, CTCs, and Cities

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Section 108 (f) 10. Programs for Secure Bicycle Storage Facilities and Other Facilities, Including Bicycle Lanes, for the Convenience and Protection of Bicyclists, in Both Public and Private Areas

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
10.1*	Bike racks at work sites	Self-explanatory.	Yes		SOUTH COAST AQMD, Employer
10.2	Bike racks on buses	Bike racks would be placed on a to-be-determined number of buses to increase bicycle travel.	Yes		CTCs, Transit Operators, SCRRA
10.3	Regional bicycle parking	Bike Transit Centers	Yes		CTCs
10.4	Develop bicycle travel facilities	Encourages a variety of capital improvements to increase bicycle use. Off-street bikeways where high-speed roadways preclude safe bicycling. Clearly mark travel facilities with signs and provide adequate maintenance.	Yes		CTCs, Transit Operators, SCRRA
10.5	Expedite bicycle projects from RTP/SCS	Create bicycle and pedestrian master plan and build out at an accelerated rate to achieve benefits in advance of attainment deadline.	Yes		SCAG, CTCs, Counties, Cities
10.6	Provide bike/pedestrian facilities safety patrols	Self-explanatory.	Yes		Counties and Cities
10.7	Inclusion of bicycle lanes on thoroughfare projects	Self-explanatory.	Yes		State, CTCs, Counties, and Cities

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Section 108 (f) 10. Programs for Secure Bicycle Storage Facilities and Other Facilities, Including Bicycle Lanes, for the Convenience and Protection of Bicyclists, in Both Public and Private Areas

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
10.8	Bicycle lanes on arterial and frontage roads	Self-explanatory.	Yes		State, Counties, and Cities
10.9	Bicycle route lighting	Self-explanatory.	Yes		State, Counties, Cities
10.10	Complete Streets	Install bicycle and pedestrian facilities, upgrade traffic control systems, urban design improvements, street lights and transit connections.	Yes		Cities, Counties, CTCs, Transit Agencies
10.11	Bike Share	Provide bike-share and neighborhood electric vehicle transit services in downtown areas.	Yes		Cities, Counties, Transit Agencies
10.12	Bike Purchase Incentives	Cash incentives to transit riders to purchase collapsible or electric bikes.	Yes		Cities
10.13	Longer Bike Racks on Buses	Install or modify bike rack on transit buses to accommodate up to three bikes	Yes		Transit Agencies
10.14	Greenway Network	Use riverbeds and other rights-of-way for bike and pedestrian paths to separate them from auto traffic	Yes		Cities, Counties
10.15	First Mile/Last Mile Program	Variety of strategies to encourage active transportation including wayfinding, sidewalk improvements, pedestrian priority signalization, and bike/pedestrian facilities near transit.	Yes		CTCs, Transit Agencies

Section 108 (f) 11. Programs to Control Extended Idling of Vehicles

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
11.1	Limit excessive car dealership vehicle starts	Require car dealers to limit the starting of vehicles for sale on their lot(s) to once every two weeks. Presently, a number of new and used car dealers start their vehicles daily to avoid battery failure and assure smooth start-ups for customer test drives.	No	This measure was investigated by the SOUTH COAST AQMD and it was determined that in contrast to colder climates where vehicles are started on a daily basis, vehicles in the South Coast started much less frequently. For this reason it was determined not to be technologically feasible. No clear demonstration of emission reduction benefits.	
11.2	Encourage limitations on vehicle idling	Encourage limitations to limit extended idling operations.	Yes		CARB
11.3	Turn off engines while stalled in traffic	Public outreach or police-enforced program.	No	This measure raises safety and congestion concerns. No clear demonstration of emission reduction benefits.	
11.4	Outlaw idling in parking lots	Self-explanatory and police-enforced program.	No	Enforcement of idle restrictions is a low priority for police relative to their other missions. The cost effectiveness of this measure has not been demonstrated. It is not economically feasible. No clear demonstration of emission reduction benefits.	
11.5	Reduce idling at drive-throughs; ban drive-throughs	Mandate no idling or do not allow drive-through windows during ozone season.	No	No clear demonstration of emission reduction benefits.	

Section 108 (f) 11. Programs to Control Extended Idling of Vehicles

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
11.6	Promote use of pony engines	Use special battery engines to keep air conditioning and other truck systems working while truck not in use.	Yes		CARB
11.7	Idle restrictions at airport curbsides	Self-explanatory and police-enforced.	Yes		Airport Authority
11.8	Truck Stop Electrification	Provide electric charging stations for at truck stops to power heating/AC units and other on-board equipment.	Yes		CARB
11.9	Reduce idling at schools	Self-explanatory	Yes		CARB

Section 108 (f) 12. Program to Reduce Motor Vehicle Emissions Consistent with Title II, Which Are Caused by Extreme Cold Start Conditions				
	Not applicable. The definition of an "extreme cold start" specifies temperatures below 20 degrees Fahrenheit.	Not applicable in the South Coast - No extreme cold start conditions		

Section 108 (f) 13. Employer-sponsored programs to permit flexible work schedules

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
13.1*	Alternative work schedules	Enables workers to choose their own working hours within certain constraints. Flextime provides the opportunity for employees to use public transit, ridesharing, and other Nonmotorized transportation. A related strategy, staggered work hours, is designed to reduce congestion in the vicinity of the workplace. Alternative workweeks have been implemented extensively by large private and public employers.	Yes		SOUTH COAST AQMD, Employer
13.2*	Modifications of work schedules	Implement alternate work schedules that flex the scheduled shift time for employees. Encourage the use of flexible or staggered work hours to promote offpeak driving and accommodate the use of transit and carpooling.	Yes		SOUTH COAST AQMD, Employer
13.3*	Telecommunications- Telecommuting/Teleconferencing	Encourage telecommuting and use of telecommuting/teleconferencing equipment in place of motor vehicle use where appropriate. Set-up satellite work centers closer to where employees live to reduce motor vehicle use where appropriate.	Yes		SOUTH COAST AQMD, Employer

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Section 108 (f) 14. Programs and Ordinances to facilitate Non-automotive travel, provision to and utilization of mass transit, and to generally reduce the need for single-occupant vehicle travel, as part of transportation planning and development efforts

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
14.1	Areawide public awareness programs	This measure focuses on conducting ongoing public awareness programs throughout the year to provide the public with information on air pollution and encourage changes in driving behavior and transportation mode use.	Yes		SOUTH COAST AQMD
14.2	Special event controls	This measure would require new and existing owners/operators of the special event centers to reduce mobile source emissions generated by their events. A list of optional strategies would be available that reduce mobile source emissions.	Yes		Counties, Cities, Special Event Operators
14.3	Land Use/development alternatives	This measure includes encouraging land use patterns, which support public transit and other alternative modes of transportation. In general, this measure would also encourage land use patterns designed to reduce travel distances between related land uses	Yes		CARB, SCAG, SOUTH COAST AQMD, Counties, Cities
14.4	Voluntary No-Drive Day Programs	Conduct voluntary No-Drive Day Programs during the ozone season through media and employer based public awareness activities.	Yes		CTCs
14.5**	New Development Air Quality Impact Evaluation	Evaluate air quality impacts of new development and recommend or require mitigation for significant adverse impacts.	Yes		SOUTH COAST AQMD, Counties, Cities, CEQA Lead Agencies

^{**} SOUTH COAST AQMD and SCAG recommend mitigation as commenting agencies on new development projects; cities and counties require mitigation under their discretionary authority as lead agency.

Section 108 (f) 14. Programs and Ordinances to facilitate Non-automotive travel, provision to and utilization of mass transit, and to generally reduce the need for single-occupant vehicle travel, as part of transportation planning and development efforts

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
14.6	Transportation for Livable Communities (TLC)/Housing Incentive program	Program provides planning grants, technical assistance, and capital grants to help cities and Nonprofit agencies define and implement transportation projects that support community plans including increased housing near transit.	Yes		SCAG, State
14.7	Incentives to increase density around transit centers	Lower travel by increasing residential and commercial density in areas near transit.	Yes		Counties, Cities, CTCs
14.8	Incentives for cities with good development practices	Provide financial or other incentives to local cities that practice air quality-sensitive development.	Yes		CTCs, Counties, Cities
14.9	Increase State gas tax	Self-explanatory.	No	Need State legislation. State gas tax has been increased by SB 1.	
14.10	Pay-As-You-Drive Insurance	Self-explanatory.	No	Need State legislation. No clear demonstration of emission reduction benefits and does not advance attainment date.	

Section 108 (f) 15. Programs for new construction and major reconstructions of paths, tracks or areas solely for the use by pedestrian or other Non-motorized means of transportation when commercially feasible and in the public interest

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
15.113	Encourage Pedestrian Travel	Promote public awareness and use of walking as an alternative to the motor vehicle.	Yes		SOUTH COAST AQMD, SCAG, CTCs, Counties, Cities, Employer
15.2	Pedestrian and bicycle overpasses where safety dictates	Ongoing implementation as development occurs.	Yes		Counties, Cities

Section 108 (f) 16. Program to encourage the voluntary removal from use and the marketplace of pre-1980 model year light duty vehicles and pre-1980 model light duty trucks

Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies
16.1	Counties assess ten dollar license plate fee to fund repair/replacement program for highemitters	Self-explanatory.	Yes		CARB, BAR ¹⁴

¹³ This measure relates to SOUTH COAST AQMD Rule 2202, On-Road Motor Vehicle Mitigation Options. Administered by SOUTH COAST AQMD, Rule 2202 provides a menu of options for employers in choosing how they will comply. Individual employers implement the mitigation option(s) that they have chosen. Note: Rule 2202 is subject to change through the South Coast AQMD rule amendment process.

¹⁴ Similar program administered with different funding source as part of smog check

Section 10	Section 108 (f) 16. Program to encourage the voluntary removal from use and the marketplace of pre-1980 model year light duty vehicles and pre-1980 model light duty trucks						
16.2	Offer incentives for retirement and replacement of vehicles for participants meeting specific requirements	Self-explanatory.	Yes		CARB, SOUTH COAST AQMD ¹⁵		
16.3	Demolish impounded vehicles that are high emitters	Self-explanatory.	No	SOUTH COAST AQMD Rule 1610 issues mobile source emission reduction credits in exchange for the scrapping of old, high emitting vehicles.			
16.4	Do whatever is necessary to allow cities to remove the engines of high emitting vehicles (pre-1980) that are abandoned and to be auctioned	Self-explanatory.	No	SOUTH COAST AQMD Rule 1610 issues mobile source emission reduction credits in exchange for the scrapping of old, high emitting vehicles			
16.5	Accelerated retirement program	Identify high-emitting vehicle age groups and develop a program to remove them from use.	Yes		CARB, SOUTH COAST AQMD		

17. Other						
Measure #	Measure Title	Description	Has It Been Implemented	Reasoned Justification for Not Implementing Measure	Implementing Agency or Agencies	
17.1	Truck-Only Lanes	Self-explanatory.	Yes		Caltrans, CTCs	

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¹⁵ Voluntary car scrapping programs to generate credits. Note: South Coast AQMD rules are subject to change through an amendment process.

17. Other	17. Other							
17.2	Promote business closures on high ozone days	Non-employer-based strategy to require local business to close on bad air quality days, thereby reducing travel.	No	No authority to implement; not economically feasible				
17.3	Clean Fleet Vehicles for Government Employees	Provide alternative fuel vehicles for government employees.	Yes		CARB, SOUTH COAST AQMD, Counties, Cities			

Draft South Coast AQMD 2022 Air Quality Management Plan Appendix IV-C Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures

A Presentation to the Energy and Environment Committee

Rongsheng Luo Planning Strategy Department January 6, 2022

www.scag.ca.gov



Background

- South Coast AQMD 2022 Air Quality Management Plan (AQMP)
 - 2015 8-hour Ozone National Ambient Air Quality Standard
- SCAG Portion:
 - Appendix IV-C Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures

Draft 2022 AQMP Appendix IV-C Outline

SCAG

- Executive Summary
- Three Sections
 - Section I. Introduction
 - Section II. Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures (TCM)
 - Section III. TCM Reasonably Available Control Measure (RACM) Analysis
- Two Attachments
 - Attachment A. Committed Transportation Control Measures (TCMs)
 - Attachment B. Reasonably Available Control Measure (RACM) Analysis - TCMs

Executive Summary



- Purpose of Appendix IV-C
- Overview of the Three Sections

Section I. Introduction

- Federal and State Requirements
- Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)
 - 2020 RTP/SCS (Connect SoCal)
- Federal Transportation Improvement Program (FTIP)
 - 2021 FTIP

Section II. Regional Transportation Plan/Sustainable Communities Strategy and Transportation Control Measures



A Summary of Connect SoCal (2020 RTP/SCS)

- Key Challenges in the Region
- Regional Goals and Guiding Principles
- Plan Strategies and Transportation Control Measures
- Plan Emissions Reduction Benefits
- TCM Emission Reduction Benefits
- Plan Investment
- Cost-Benefit Analysis

Section III. TCM RACM Analysis

SCAC

- Four-Step Analysis
 - 1. SCAG RACM/TCM Development Process
 - 2. Assembly and Review of Candidate TCM RACM
 - 3. Determining RCAM Measures
 - 4. Reasoned Justifications
- Conclusion:

TCMs being implemented in the South Coast Air Basin are inclusive of all TCM RACM.

Two Attachments



- Attachment A. Committed Transportation Control Measures (TCMs)
- Attachment B. Reasonably Available Control Measure (RACM) TCM Analysis - TCMs

Next Steps

- SCAG
- February 2022: Transmittal of Draft Appendix IV-C to South Coast AQMD for Inclusion in Draft 2022 AQMP for Public Review pending Approval by EEC and RC
- May/June 2022: Transmittal of Final Appendix IV-C to South Coast AQMD for inclusion in Final 2022 AQMP pending Approval by EEC and RC
- August 3, 2022: Submittal to US EPA as part of Final 2022 AQMP

Questions?

Rongsheng Luo
Air Quality and Conformity Program Manager
(213) 236-1994, <u>luo@scag.ca.gov</u>
www.scag.ca.gov





To:

AGENDA ITEM 3

REPORT

Southern California Association of Governments Remote Participation Only January 6, 2022

Community Economic & Human Development Committee (CEHD)

Energy & Environment Committee (EEC)

Transportation Committee (TC)

Regional Council (RC)

From: Lyle Janicek, Associate Regional Planner

(213) 236-1966, janicek@scag.ca.gov

Subject: 2021 Student Showcase

Kome Ajrise

EXECUTIVE DIRECTOR'S

APPROVAL

RECOMMENDED ACTION FOR EEC and TC:

Information Only - No Action Required

RECOMMENDED ACTION FOR CEHD AND RC:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 2: Advance Southern California's policy interests and planning priorities through regional, statewide, and national engagement and advocacy. 4: Provide innovative information and value-added services to enhance member agencies' planning and operations and promote regional collaboration.

EXECUTIVE SUMMARY:

Staff will brief the Environment and Energy Committee (EEC) and the Transportation Committee (TC) on the results of the 2021 Student Showcase. Following the introduction, each committee will receive two presentations from the four finalists of the 2021 competition.

BACKGROUND:

For more than five years, SCAG has created a platform for students to apply their critical thinking skills and compete in a planning competition. SCAG invited college and university students in the region to conceptualize, create, and submit ArcGIS StoryMaps using SCAG's open data. StoryMaps are a meaningful way to provide insight, showcase plans, and projects, engage supporters and stakeholders, illustrate the possibilities of data, and highlight the usefulness of open data at the regional level.

The 2021 Student Showcase was a virtual StoryMap competition with two award categories: Innovation and Planning. The 2021 competition received eleven projects from nine different



colleges and universities. A jury of planning professionals evaluated the projects and selected four winners. The program awarded \$6,000 in cash prizes (\$2,000 first place prize and \$1,000 runner-up prize for each category). The winning StoryMaps are linked below and will be presented at the Jan. 6 Transportation Committee and the Energy & Environment Committee.

PLANNING CATEGORY

- 1st Place \$2,000 Prize Reaghan Murphy* University of Southern California: <u>Surviving</u> SoCal's Streets: The Case for Vision Zero
- 2nd Place \$1,000 Prize Lacy Gugliemino** Crafton Hills College: <u>To Reach It, We Have</u> to Teach It!

INNOVATION CATEGORY

- 1st Place \$2,000 Prize Irene Farr** University of California, Los Angeles: <u>Identifying Hidden Open Spaces</u>
- 2nd Place \$1,000 Prize Adam Doyle* California State University, Long Beach: <u>Gas to</u> Green
- *Students will present their StoryMap at the Jan. 6 Transportation Committee
- **Students will present their StoryMap at the Jan. 6 Energy & Environment Committee

The 2022 Student Showcase Competition will be announced in January 2022. Pending Covid-19 protocols, we hope to have finalists from the 2022 competition present their work at the General Assembly and Regional Conference in May and have conference attendees select the winners.

FISCAL IMPACT:

Funding for this Project was provided from the Overall Work Program (OWP) Task: 22-090.0148.02.



AGENDA ITEM 4

REPORT

Southern California Association of Governments Remote Participation Only

January 6, 2022

To: Energy and Environment Committee (EEC)

EXECUTIVE DIRECTOR'S

APPROVAL

From: Kimberly Clark, Program Manager I

(213) 236-1844, clark@scag.ca.gov

Subject: ICARP 2021 State Climate Adaptation Strategy & Natural and Working

Lands Climate Smart Strategy

RECOMMENDED ACTION:

Information Only - No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 2: Advance Southern California's policy interests and planning priorities through regional, statewide, and national engagement and advocacy.

EXECUTIVE SUMMARY:

The State of California recently released two important strategies related to climate change: the 2021 California Climate Adaptation Strategy and the Natural and Working Lands Climate Smart Strategy. On behalf of Southern California, SCAG provided comment letters to the State on how each strategy could be tailored to suit the needs of the region. Amanda Hansen from the California Natural Resources Agency will be providing an overview of both documents, and opportunities presented for Southern California.

BACKGROUND:

On October 18, 2021, the <u>draft</u> of the 2021 California Climate Adaptation Strategy was released for public comment. California is statutorily required to release an updated climate adaptation strategy every three years, and the 2021 update is intended to outline the state's key climate resilience priorities, offer specific and measurable steps, and serve as a framework for action across sectors and regions. The 2021 strategy integrates key elements of the latest sector-specific plans, such as the Natural and Working Lands Climate Smart Strategy, Wildfire and Forest Resilience Action Plan, Climate Action Plan for Transportation Infrastructure, and Water Resilience Portfolio.

The key goals of the strategy are to:

- 1. Set strategic direction and identify needed outcomes;
- 2. Unify efforts across all sectors and regions; and



3. Help all Californians understand and contribute to California's climate resilience.

The strategy is organized around six outcome based **Priorities**, each with a list of **Goals** that include specific **Actions**, **Timeframes**, **Success Metrics**, and responsible **Agency(s)**. The strategy will be released as a website, rather than as a document, to act as a hub for state climate resilience action that can be easily accessed and updated to reflect progress and changes.

In addition to the California Climate Adaptation Strategy, California Natural Resources Agency released a <u>draft</u> of the state's Natural and Working Lands Climate Smart Strategy on October 11, 2021. The strategy, part of <u>Executive Order N-82-20</u> calling for the acceleration of nature-based solutions to achieve the state's climate goals, is intended to align existing state efforts and identify land management actions that can support climate resilience, public health, economic opportunity, and equity

The strategy highlights the critical role that California's natural and working lands play in building climate resilience and simultaneously supporting other state priorities such as improving public health, providing economic opportunity, and increasing equity. The strategy includes the following key content.

- Definitions of California's eight natural and working landscapes;
- Descriptions how these lands can deliver on our climate change goals;
- Priority nature-based climate solutions to address the climate crisis;
- Opportunities for regional climate smart land management;
- Options to track nature-based climate action and measure progress; and
- Almost 200 opportunities to scale climate smart land management across regions and sectors in California.

FISCAL IMPACT:

Work for this effort is funded in SCAG's Fiscal Year 2021-2022 Overall Work Program (OWP) under project 065-4092.01 (Adaptation Analysis).

ATTACHMENT(S):

- 1. SCAG Comment Letter 2021 California Climate Adaptation Strategy
- 2. SCAG Comment Letter Natural & Working Lands Climate Smart Strategy



SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS 900 Wilshire Blvd., Ste. 1700 Los Angeles, CA 90017 T: (213) 236-1800 www.scag.ca.gov

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Community, Economic & Human Development Jorge Marquez, Covina

Energy & Environment David Pollock, Moorpark

Transportation
Sean Ashton, Downey

November 17, 2021

Wade Crowfoot, Secretary
California Natural Resources Agency
715 P Street
Sacramento, CA 95814
Via Email: CaliforniaNature@resources.ca.gov

SUBJECT: Public Comment on the Draft 2021 California Climate Adaptation Strategy

Dear Secretary Crowfoot:

On behalf of the Southern California Association of Governments (SCAG), I want to thank you for the opportunity to comment on the Draft 2021 California Climate Adaptation Strategy (Draft Strategy). As communities and natural systems across Southern California are already experiencing the consequences of climate change, there is a great need for accelerated climate action. SCAG's Regional Council unanimously adopted a resolution on January 7, 2021, affirming the climate crisis in Southern California and calling SCAG to pursue a number of activities to address climate change mitigation, mitigation, and resilience across our six-county region.

SCAG is the largest metropolitan planning organization (MPO) in the nation, representing six counties, 191 cities, and more than 19 million residents in Southern California. Connect SoCal, SCAG's 2020-2024 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), includes an explicit goal to "adapt to a changing climate," and several of the plan's guiding principles promote incorporating climate change vulnerability, adaptation, and resilience in land use, growth strategies, and transportation investments across the region. SCAG also developed the Regional Climate Adaptation Framework (CAF) to assist local and regional jurisdictions in adapting to and building resilience in the face of climate change. The CAF provides an overview of how the Southern California region can work together to plan and prepare for climate impacts by offering tools and resources to help local jurisdictions understand how climate change affects community members, engage with residents, and support local climate adaptation planning.

SCAG generally supports the Draft Strategy, which could help support adaptation efforts for local jurisdictions and facilitate the implementation of many of the regional goals identified in Connect SoCal. Some goals supported by the draft strategy include encouraging regional economic

prosperity and global competitiveness, enhancing the preservation, security, and resilience of the regional transportation system, reducing greenhouse gas emissions and improving air quality, supporting healthy and equitable communities, and promoting conservation of natural and agricultural lands and restoration of habitats. We appreciate that the Draft Strategy considers region-specific challenges and opportunities, as Southern California is one of the most vulnerable areas in the country to climate change and natural hazards.

Extreme heat is particularly severe across the SCAG region. Over 6 million people currently live in areas subject to extreme heat health events. One-third of residents live in areas recognized as disadvantaged communities that are disproportionately vulnerable to climate change impacts like extreme heat. The projected increase in the frequency and intensity of extreme heat events across Southern California will only exacerbate the adverse public health effects of extreme heat and existing systemic inequities shouldered by the most climate-vulnerable communities. While we look forward to an opportunity to review the state's Extreme Heat Framework, we encourage the state to include additional actions that mitigate extreme heat and the resulting public health impacts, such as urban tree planting or alternative heat reduction strategies, within the 2021 Climate Adaptation Strategy.

Additionally, much of Southern California already suffers from poor air quality, which is projected to worsen with climate change and negatively affect human health. In line with the Draft Strategy priorities to "strengthen protections for climate-vulnerable communities" and "bolster public health and safety in light of increasing climate risks," we suggest the state consider actions in the Draft Strategy to reduce and adapt to increasingly hazardous air quality. Further, given the likely impacts to Southern California's crucial infrastructure assets, such as the Port of Los Angeles and Port of Long Beach, the economic impacts of climate change should be further addressed.

SCAG recognizes the threat climate change poses to the Southern California region and its millions of residents. A strategic statewide approach to climate adaptation that considers regional climate risks, priorities, and opportunities can accelerate climate action and build resilience across Southern California. If you have questions, please feel free to contact Kimberly Clark, Program Manager II of Resource Conservation & Resilient Communities, via email at clark@scag.ca.gov.

Sincerely,

Darin Chidsey

Chief Operating Officer



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COMMITTEE CHAIRS

Executive/Administration Clint Lorimore, Eastvale

Community, Economic & Human Development Jorge Marquez, Covina

Energy & Environment David Pollock, Moorpark

Transportation Sean Ashton, Downey November 24, 2021

Wade Crowfoot, Secretary
California Natural Resources Agency
715 P Street
Sacramento, CA 95814
Via Email: CaliforniaNature@resources.ca.gov

SUBJECT: Public Comment on the Draft Natural and Working Lands
Climate Smart Strategy

Dear Secretary Crowfoot:

On behalf of the Southern California Association of Governments (SCAG), I want to thank you for the opportunity to comment on the Draft Natural and Working Lands Climate Smart Strategy ("Draft Strategy"). We are encouraged to see the State advance climate action in the context of natural and working lands. SCAG's leadership is also committed to climate action, having adopted a resolution in January 2021 affirming a climate change crisis in Southern California and calling on SCAG to pursue a number of activities to address climate change in order to strengthen regional resilience.

SCAG is the largest metropolitan planning organization (MPO) in the nation, representing six counties, 191 cities, and more than 19 million residents in Southern California. Connect SoCal, SCAG's 2020-2024 Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS), prioritizes the explicit goal to "promote the conservation of natural and agricultural lands and restoration of habitats" and recommends SCAG "include climate smart conservation" as a policy approach to conserving natural and farmlands. Several key strategies in Connect SoCal highlight the importance of preserving natural areas and farmlands, including for emissions avoidance and carbon sequestration, and emphasize development in the region's infill opportunity areas, called "Priority Growth Areas," and away from natural and farmlands on the edges of urban and suburban areas as well as away from wetlands, wildlife corridors, biodiverse areas, wildfire-prone areas, and floodplains. Additionally, SCAG has initiated a policy framework to establish and supplement conservation and mitigation banks in our region to more effectively address project impacts and support per-capita vehicle miles traveled reductions. SCAG is also undertaking the SoCal Greenprint, a web-based mapping tool that will compile publicly available data sources to help users make better land use and transportation infrastructure decisions, paving the way for the establishment of a Regional Advanced Mitigation Program (RAMP). The SoCal Greenprint will help decision-makers make smart conservation investments to balance our region's growth needs, especially as we take action to address our climate emergency.

Overall, many of the Draft Strategy's overarching goals and priority actions could support the implementation of Connect SoCal. Priority actions in the Draft Strategy that promote compact growth patterns and reduce consumption of resource areas, including agricultural land, are a priority for SCAG, as are actions that support Connect SoCal complementary goals such as encouraging regional economic prosperity, supporting healthy and equitable communities, and adapting to a changing climate. For example, Shrublands and Chaparral Solution A, Croplands Solution D, and Developed Lands Solutions B, F, H, and N align with SCAG's approach to regional growth, conservation, and climate action. SCAG sees great opportunities to advance regional climate-smart conservation through strategies such as innovative land-use policies, promoting best practices, improving natural corridor connectivity, expanding data sharing, urban greening and green infrastructure, and connecting conservation to public health.

Further, our changing climate presents many hazards to the people and landscapes of Southern California now and into the future, with extreme heat impacts being particularly acute. In the SCAG region, over 6 million people currently live in areas subject to extreme heat health events, and onethird of residents live in areas recognized as disadvantaged communities that are disproportionately vulnerable to climate impacts like extreme heat. The projected increase in the frequency and intensity of extreme heat events across Southern California will only exacerbate the adverse public health impacts of extreme heat and existing systemic inequities shouldered by the most climatevulnerable communities. We encourage the state to pursue and invest in additional nature-based strategies and actions that help mitigate extreme heat and its public health impacts, such as urban tree planting, green infrastructure, and improving access to public park space. SCAG recognizes the essential role of our natural and working lands in mitigating, adapting to, and building resilience in the face of climate change. The diverse natural and agricultural landscapes of Southern California are an invaluable asset to the millions of people that call the SCAG region home. SCAG generally supports the State's Natural and Working Lands Climate Smart Strategy to help achieve the goals of Connect SoCal and accelerate climate action across the state. If you have questions, please feel free to contact Kimberly Clark, Program Manager II of Resource Conservation & Resilient Communities, via email at clark@scag.ca.gov.

Sincerely,

Darin Chidsey

Chief Operating Officer



AGENDA ITEM 5

REPORT

Southern California Association of Governments Remote Participation Only

January 6, 2022

To: Energy & Environment Committee (EEC)

EXECUTIVE DIRECTOR'S

APPROVAL

Kome Aprise

From: Kimberly Clark, Program Manager I

(213) 236-1844, clark@scag.ca.gov

Subject: Cooling Long Beach - Urban Heat Island Mitigation

RECOMMENDED ACTION:

Information Only - No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

The Cooling Long Beach project is one of several projects the City of Long Beach is working on to address climate change and reduce greenhouse gas emissions. This project specifically helps to implement measures that are identified in the Long Beach Climate Action and Adaptation Plan and General Plan, such as policies aimed at creating a more resilient and sustainable community. Funding for this project was awarded by SCAG as part of the Sustainable Communities Program.

BACKGROUND:

The entirety of the SCAG region, including large cities such as Long Beach, have started to directly experience climate change impacts, with associated increases in droughts and intensified rainfall, as well as more frequent and severe heat waves. As the changes become more pronounced in the coming decades, they will most likely present local challenges to human health and welfare, the economy, and ecosystems. The Cooling Long Beach project will focus on identifying strategies to cool Long Beach's streets to reduce the risks of climate change and reduce greenhouse emissions.

Urban heat islands are areas that experience higher temperatures than nearby less developed areas because they have more paved surfaces and buildings, and less vegetation. Urban heat islands occur when buildings and pavements absorb heat during the day and radiate the heat at night, leading to poor air quality and health problems. The urban heat island effect, made worse by climate change, disproportionately impacts communities of color and low-income communities.

Impacts of urban heat islands include:



- Increased energy consumption and waste heat as people use air conditioning to keep cool
- Compromised comfort and human health, including increased risk of heat-related illnesses, especially for children and older adults
- Elevated emissions of air pollutants, like smog, and greenhouse gasses
- Impaired water quality; high pavement temperatures warm stormwater and ultimately impact the health of aquatic life

The City of Long Beach has partnered with the Southern California Association of Governments (SCAG), Alta, Habitat for Humanity of Greater Los Angeles, and the Washington Neighborhood Association study the impacts of extreme heat on the Washington Neighborhood and develop a toolkit of strategies to cool its sidewalks, streets, and alleyways. This toolkit will be a resource for both the neighborhood and the city as a whole. This project was made possible by SCAG's Sustainable Communities Program, which dedicates resources and technical assistance to jurisdictions to complete important local planning efforts to enable implementation of the Regional Transportation Plan/Sustainable Communities Strategy.

To date, the 2020-2021 Sustainable Communities Program has held three Calls, awarding 45 projects, totaling approximately \$12.2 million in funding to support local partners in implementing Connect SoCal. A fourth Call for Applications is under development, to be released in Spring 2022 prioritizing investments in Environmental Justice communities.

FISCAL IMPACT:

Work for this effort is funded in SCAG's Fiscal Year 2021-2022 Overall Work Program (OWP) under project 275-4823.03 (Sustainable Communities Program - 2018 Call (FY19 SB 1 Formula).



AGENDA ITEM 6

REPORT

Southern California Association of Governments Remote Participation Only

January 6, 2022

To: Energy and Environment Committee (EEC)

EXECUTIVE DIRECTOR'S

APPROVAL

Kome Aprise

From: Kimberly Clark, Program Manager I

(213) 236-1844, clark@scag.ca.gov

Subject: SCAG Climate Action Resolution Quarterly Update

RECOMMENDED ACTION:

Information Only - No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

On January 7, 2021, the Regional Council (RC) adopted Resolution 21-628-1 affirming a climate change crisis in Southern California and called on SCAG and other local and regional partners to join together to reduce greenhouse gas (GHG) emissions, improve regional resilience, and reduce hazards from a changing climate (the "Resolution"). The RC's action will help to promote climate adaptation, mitigation and resilience in support of the 197 jurisdictions in Southern California and the 19 million residents who call the SCAG region home. This report provides an update on the agency's progress in implementing the Resolution. Quarterly updates will continue to be provided to the Energy and Environment Committee on the agency's progress in addressing Resolution 21-628-1 action steps.

BACKGROUND:

Resolution 21-628-1 calls on SCAG to pursue a number of activities to address climate change in order to strengthen regional resilience. These actions emphasize both adaptation to emerging climate-related hazards, as well as mitigation of GHG emissions to reduce the impacts to the region from a changing climate. Importantly, the RC's direction underscores the need to strengthen partnerships amongst local governments with resources, technical assistance and other support for jurisdictions' climate-related planning initiatives. It also advances several goals, policies, and key connections from Connect SoCal.

Over the last year, SCAG has been working to:



- Develop a regional resilience framework to help the region plan and prepare for a changing climate and other potential near- and long-term disruptions to Southern California;
- Initiate a *regional climate planning network* that will provide technical assistance for local climate adaptation and mitigation initiatives;
- Provide *resource support and technical assistance for local jurisdictions* to integrate climate planning in their local planning activities;
- Initiate a *Regional Advanced Mitigation Program (RAMP)* as described in the Connect SoCal Program Environmental Impact Report (PEIR);
- Develop a work plan to advance the *Accelerated Electrification strategy* envisioned in Connect SoCal:
- Evaluate the *economic* and *job* creation benefits of climate adaptation and *mitigation* practices for inclusion in regional planning efforts; and
- Develop climate adaptation and mitigation analysis and strategies for the 2024 Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS).

Additionally, SCAG will continue to develop programs and outreach strategies to support near-term adaptation to address regionally significant vulnerabilities and long-term regional resilience planning.

Recent Initiatives

Regional Resilience: SCAG staff implemented a cross-departmental Resilience Policy Lab that has been developing the foundations of a regional resilience framework to explore pressing issues and potential near- and long-term disruptions to Southern California, such as extreme weather, drought, wildfires, pandemics, earthquakes and economic shocks. The regional resilience framework will consider the potential degree of disruption to the region that could result from land based, atmospheric, public health and geologic natural hazards. To help inform this work, SCAG is completing a Regional Resilience Landscape Analysis to identify the status of resilience planning at the local level, including best practices that can serve as touchpoints for SCAG and local jurisdictions' future work in resilience. In 2022, SCAG plans to develop a Regional Resilience Framework and will be assembling a strategic advisory group to help guide the effort. Initial findings from the study will help inform resilience policies and strategies in the 2024 Regional Transportation Plan and Sustainable Communities Strategy ("Connect SoCal").

Climate Planning Network: SCAG staff have been engaging with local jurisdictions, regional climate collaboratives, and other stakeholders to initiate a regional climate planning network that will complement existing regional collaboratives and provide technical assistance for local jurisdictions' climate planning initiatives — including consensus building exercises and an information hub featuring a framework of effective mitigation strategies for cities and counties to use in climate





action plans (CAPs) as well as a library of model policies that collectively foster climate change mitigation, adaptation, and resilience. Moving this work forward, SCAG has been conducting outreach to inform stakeholders from the region, state, and greater nation, and internationally of the recently completed Southern California Regional Climate Adaptation Framework to support local jurisdictions' climate planning work, including a library of model policies and a matrix of climate adaptation strategies and actions that can be utilized by jurisdictions with flexibility to address the specific hazards and potentially impacted infrastructure and community assets in their locales. To share these resources and the challenges faced in Southern California, SCAG staff recently attended the Climate Change Adaptation Lab hosted by the Scottish Government, the Californian State Government, Adaptation Scotland, and European Institute of Innovation and Technology Climate Knowledge and Innovation Community (EIT-Climate-KIC) as part of the COP26 event in November, 2021.

This year, SCAG also launched a new resource to help jurisdictions update general plan safety elements and local hazard mitigation plans to address climate adaptation and resilience strategies in compliance with SB 379 (Jackson, 2015). SCAG's <u>SB 379 Compliance Curriculum for Local Jurisdictions</u> was developed with feedback from the Governor's Office of Planning and Research (OPR), and links resources available from local, regional, and state efforts to specific requirements under SB 379. The objective of this guidebook is to reduce the cost and staffing needed for local jurisdictions to be in compliance with the law and effectively plan to reduce the hazards to residents stemming from a changing climate.

To roll out these resources, SCAG partnered with the Los Angeles Regional Collaborative (LARC), Climate Resolve, Southern California Edison, the Los Angeles Chapter of the American Planning Association, and the Malibu Foundation in June 2021 to host a workshop on local climate adaptation planning that provided information, best practices, and other tools for jurisdictions to address climate adaptation and resilience strategies in compliance with SB 379. This event was attended by over 100 stakeholders, including staff from local jurisdictions, utilities, universities, community-based organizations, and industry professionals. Further, SCAG hosted a meeting of the Climate Adaptation Regional Planning Working Group as well as a Toolbox Tuesday training in June.

To engage with jurisdictions on a one-on-one basis, SCAG launched the *General Plan SB 379 Technical Assistance Program* to walk local staff through available resources and provide hands-on training on available data tools leading up to the January 1, 2022 deadline for SB 379 compliance. SCAG reached out to jurisdictions that expressed interest in receiving SB 379 technical assistance during the June Toolbox Tuesday training, as well as jurisdictions with recently updated Local Hazard Mitigation Plans. From this initial outreach, SCAG held multiple trainings during 2021 for the City of Westminster, City of West Hollywood, City of Camarillo, and City of Fillmore. SCAG has been expanding its outreach efforts and providing technical assistance trainings on a rolling basis up to and beyond the January 1, 2022 deadline. The *SB 379 Technical Assistance Program* is





part of SCAG's Local Information Services Team (LIST), an ongoing program which provides tailored training to assist with General Plan Housing, Safety and Environmental Justice Elements. The LIST program provides one-on-one assistance, helping local jurisdictions leverage SCAG's comprehensive parcel-level land use database and Esri software to advance long range planning.

In these multiple engagements, local jurisdictions have emphasized the need for resources to support climate adaptation and mitigation activities, including identifying funding resources for climate action plans, general plan safety element updates, local hazard mitigation infrastructure financing plans, electric vehicle permitting, urban heat mitigation plans, organic waste reduction plans, wildlife corridor restoration plans, greenway connectivity master plans, among other efforts. SCAG staff have been monitoring emerging regional, state, and federal opportunities to this end and have been working to advance the allocation, distribution, and expenditure of resources to meet the region's needs. SCAG also provided feedback to the Strategic Growth Council on the implementation of SB 1072's Regional Climate Collaboratives Program.

Additionally, SCAG joined the Inland Southern California Climate Collaborative (ISC3) in August to collaborate and engage with one of the major Southern California climate networks. SCAG has been connecting and learning from existing climate networks, such as LARC, Central Coast Climate Collaborative (4C), and other regional climate planning networks from and engage with existing regional climate planning networks.

Regional Advance Mitigation: Since the conservation and management of natural and farm lands serves as an important strategy to mitigate climate change-inducing GHG emissions, options for the establishment of Regional Advance Mitigation Program (RAMP) are being explored. Advance mitigation is a science-based approach to identify mitigation opportunities early in the planning process ahead of the design and permitting phases to more effectively address impacts for projects that support reduction of per capita vehicles miles traveled. A RAMP can support long-term management and stewardship of mitigated properties. To support establishment of a RAMP, Connect SoCal's adopted Programmatic Environmental Impact Report (PEIR) includes mitigation measures that call for the establishment of a regional Greenprint, which can serve as a strategic web-based conservation tool that provides the best available scientific data and scenario visualizations to help cities, counties and transportation agencies make better land use and transportation infrastructure decisions and conserve natural and farm lands. This type of data-rich tool can help SCAG and other stakeholders to identify priority conservation areas to develop advanced mitigation programs or include them in future transportation measures. To guide development of a Greenprint tool and RAMP, SCAG staff completed stakeholder interviews with each of the region's six county transportation commissions, as well as organizations in the region that have established habitat conservation plans, natural community conservation plans, and multiple species habitat conservation plans. Overall, the RAMP can establish and/or supplement





regional conservation and mitigation banks to offset impacts of transportation and other development projects.

On October 7, 2021 SCAG's Regional Council provided further direction for SCAG staff to develop a white paper and work with a five-member advisory task group (ATG) of the Regional Council on establishing a policy framework for advance mitigation in the region to ensure the Greenprint is aligned with policy objectives. On November 4, 2021 SCAG President Clint Lorimore announced the appointment of Hon. Sean Ashton, Hon. Curt Hagman, Hon. Peggy Huang, and Hon. David Pollock to serve alongside him on the ATG. The Kickoff of the ATG was held in December, with additional meetings anticipated for January, February, and March of 2022. Meetings of the ATG will comply with the Brown Act and will be open and public. Additional information is available online at: https://scag.ca.gov/sites/main/files/file-attachments/statement-

nov17socalgreenprintadvisorytaskforce.pdf?1637300046

Accelerated Electrification: Looking further into opportunities for climate mitigation, staff have been working to advance the Accelerated Electrification strategy adopted in Connect SoCal to provide a holistic and coordinated approach to decarbonizing or electrifying passenger vehicles, transit, and goods movement vehicles to go beyond benefits achieved through state mandates alone. Staff developed a draft work plan, and sought feedback from the EEC and the Transportation Policy Committee in April, 2021.

On the passenger vehicle side, staff have continued to partner with the Governor's Office of Business and Economic Development to conduct outreach and provide trainings on permit streamlining for electric vehicle charging infrastructure pursuant to Assembly Bill 1236. Staff held a training for planning directors from the Gateway Cities Council of Governments in July 2021. As part of SCAG's Electric Vehicle Charging Station Study, staff kicked off one-on-one listening sessions with local jurisdictions to address barriers and opportunities for electric vehicle charging infrastructure and began an electric vehicle site suitability analysis. Staff will also provide coordination and outreach support on a project that was awarded a Department of Energy grant and led by researchers at UC Irvine to operate a fleet of electric vehicles and study vehicle-to-vehicle communication, vehicle-to-infrastructure communication, traffic flows, and multimodal interactions.

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On the medium- and heavy-duty vehicles side, staff is launching a new SCAG-led regional freight and passenger rail electrification analysis for the SCAG region. Staff is also continuing to work on





the Last Mile Freight Program to fund commercial deployment projects targeting zero and near-zero emissions for last mile delivery, including opening another call for applications.

To further advance transportation electrification and coordinate with partner agencies, staff is participating in a Technical Advisory Group to provide input for the Santa Barbara County Association of Governments' Central Coast Zero Emission Vehicle Strategy.

Inclusive Economic Recovery Strategy: The Inclusive Economic Recovery Strategy (IERS) Work Plan is structured around the three work phases of *listen, convene,* and *catalyze*. It builds on listening sessions and data collection produced between July and December 2020, and the Racial Equity Baseline Indicators generated by the SCAG Equity Working Group based on the National Equity Atlas. The post-pandemic economic recovery will be one that respects the region's workforce and respects our natural resources. As such, the IERS focuses on economic development investments that prepare our region for the worsening impacts of climate change such as drought, wildfires, flash floods, and extreme. The IERS makes recommendations for strategies that harness the net economic benefits from climate adaptation and mitigation, both in terms of job creation and for workforce development in transitioning to a greener economy. The IERS also includes recommendations for SCAG to pursue funding resources for infrastructure investments that will better prepare the region to be climate-ready and meet its future resource and safety needs.

With support from Senator Susan Rubio, SCAG was awarded \$3.5 M in one-time grant funding through AB 129. The funding is to implement several core recommendations developed in (IERS), which was adopted by the RC on July 1, 2021. The grant funding is being implemented through an agreement with the California Workforce Development Board and the period of performance is 2022 - 2024. This project has five study areas and deliverables: (1) Supporting expansion of the number of, and access to, middle wage jobs, (2) strengthening supply chains and access to contracting opportunities, (3) construction apprenticeships and training, (4) providing regional data, and (5) addressing human capital needs.

Looking forward, SCAG staff will continue to provide quarterly updates to the Energy and Environment Committee on the agency's progress in fulfilling the direction of the RC on the completion of activities in Resolution No. 21-628-1.

FISCAL IMPACT:

Work for this effort is funded in SCAG's Fiscal Year 2021-2022 Overall Work Program (OWP) under project 065-4092.01 (Adaptation Analysis).