

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

REGIONAL COUNCIL OFFICERS

President Alan D. Wapner, San Bernardino County Transportation Authority

First Vice President Bill Jahn, Big Bear Lake

Second Vice President Randon Lane, Murrieta

Immediate Past President Margaret E. Finlay, Duarte

COMMITTEE CHAIRS

Executive/Administration Alan D. Wapner, San Bernardino County Transportation Authority

Community, Economic & Human Development Peggy Huang, Transportation Corridor Agencies

Energy & Environment Linda Parks, Ventura County

Transportation
Curt Hagman, San Bernardino
County

REGULAR MEETING

TRANSPORTATION COMMITTEE

Thursday, November 1, 2018 10:00 AM

SCAG MAIN OFFICE 900 Wilshire Blvd., Ste. 1700 Regional Council Room Los Angeles, CA 90017 (213) 236-1800

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Tess Rey-Chaput at (213) 236-1908 or via email at REY@scag.ca.gov. Agendas & Minutes for the Transportation Committee 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) 236-1908. 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.





Transportation Committee *Members – November 2018*

1. Sup. Curt Hagman

TC Chair, San Bernardino County

2. Hon. Cheryl Viegas-Walker

TC Vice Chair, El Centro, RC District 1

3. Hon. Sean Ashton

Downey, RC District 25

4. Hon. Rusty Bailey

Riverside, RC District 68

5. Hon. Glen Becerra

Simi Valley, RC District 46

6. Hon. Ben Benoit

Air District Representative

7. Hon. Will Berg

Port Hueneme, VCOG

8. Hon. Russell Betts

Desert Hot Springs, CVAG

9. Hon. Austin Bishop

Palmdale, North L.A. County

10. Hon. Drew Boyles

El Segundo, President's Appt.

11. Hon. Art Brown

Buena Park, RC District 21

12. Hon. Joe Buscaino

Los Angeles, RC District 62

13. Hon. Ross Chun

Aliso Viejo, OCCOG

14. Hon. Jonathan Curtis

La Canada Flintridge, RC District 36

15. Hon. Diane Dixon

Newport Beach, OCCOG

16. Hon. Emily Gabel-Luddy

Burbank, AVCJPA





- **17. Hon. James Gazeley** Lomita, RC District 39
- **18. Hon. Jeffrey Giba**Moreno Valley, RC District 69
- **19. Hon. Lena Gonzalez**Long Beach, RC District 30
- **20. Hon. Jack Hadjinian** Montebello, SGVCOG
- **21. Hon. Jan Harnik**Palm Desert, RCTC
- **22. Hon. Dave Harrington** Aliso Viejo, OCCOG
- **23. Hon. Carol Herrera**Diamond Bar, RC District 37
- **24. Hon. Steven Hofbauer** Palmdale, RC Disctrict 43
- **25. Hon. Jose Huizar**Los Angeles, RC District 61
- **26. Hon. Jim Hyatt** Calimesa, RC District 3
- **27. Hon. Mike Judge** Simi Valley, VCTC
- **28. Hon. Trish Kelley**Mission Viejo, OCCOG
- **29. Hon. Linda Krupa** Hemet, WRCOG
- **30. Hon. Randon Lane**Murrieta, RC District 5
- **31. Hon. Clint Lorimore** Eastvale, RC District 4
- **32. Hon. Steve Manos**Lake Elsinore, RC District 63
- **33. Hon. Ray Marquez** Chino Hills, RC District 10





- **34. Hon. Larry McCallon** Highland, SBCTA
- **35. Hon. Marsha McLean**Santa Clarita, RC District 67
- **36. Hon. Dan Medina**Gardena, RC District 28
- **37. Hon. Barbara Messina** Alhambra, RC District 34
- **38. Hon. L. Michael**Rancho Cucamonga, RC District 9
- **39. Hon. Fred Minagar**Laguna Niguel, RC District 12
- **40. Hon. Carol Moore** Laguna Woods, OCCOG
- **41. Hon. Kris Murray** Anaheim, RC District 19
- **42. Hon. Ara Najarian** Glendale, SFVCOG
- **43. Hon. Frank Navarro** Colton, RC District 6
- **44. Sup. Shawn Nelson** Orange County
- **45. Hon. Sam Pedroza**Claremont, RC District 38
- **46. Hon. Greg Pettis**Cathedral City, RC District 2
- **47. Hon. Chuck Puckett** Tustin, RC District 17
- **48. Hon. Teresa RealSebastian**Monterey Park, SGVCOG
- **49. Hon. Dwight Robinson** Lake Forest, OCCOG
- **50. Hon. Crystal Ruiz** San Jacinto, WRCOG



TRANSPORTATION COMMITTEE AGENDA

51. Hon. Ali SalehBell, RC District 27

52. Hon. Damon SandovalMorongo Band of Mission Indians

53. Hon. Marty Simonoff Brea, RC District 22

54. Hon. Thomas Small Culver City, WSCCOG

55. Hon. Barb StantonTown of Apple Valley, RC District 65

56. Hon. Cynthia Sternquist Temple City, SGVCOG

57. Hon. Jess TalamantesBurbank, RC District 42

58. Hon. Brent Tercero Pico Rivera, GCCOG

- **59. Hon. Alan Wapner** SBCTA
- **60. Hon. Alicia Weintraub** Calabasas, LVMCOG
- **61. Hon. Michael Wilson** Indio, RC District 66



TRANSPORTATION COMMITTEE AGENDA

Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700 – Regional Council Room Los Angeles, California 90017 Thursday, November 1, 2018 10:00 AM

The Transportation 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 Curt Hagman, Chair)

PUBLIC COMMENT PERIOD

Members of the public desiring to speak on items on the agenda, or items not on the agenda, but within the purview of the Committee, must fill out and present a Public Comment Card to the Assistant prior to speaking. Comments will be limited to three (3) minutes per speaker. The Chair has the discretion to reduce the time limit based upon the number of speakers and may limit the total time for all public comments to twenty (20) minutes.

REVIEW AND PRIORITIZE AGENDA ITEMS

CONSENT CALENDAR

Approval Items

1. Minutes of TC Meeting, October 4, 2018 (page 8)

Receive and File

- 2. Draft 2019 Local Profiles Data Update (page 14)
- 3. Status Update on the 2020 RTP/SCS PEIR (page 24)
- 4. Future Communities Pilot Program Guidelines (page 26)
- 5. Update on SCAG's Bottom-Up Local Input and Envisioning Process (page 44)
- 6. Transit Climate Adaptation and Resiliency Assessment (page 56)
- 7. 4th California Climate Change Assessment SCAG Regional Report (page 59)

INFORMATION ITEMS

8. The Role of Renewable Natural Gas in Transportation (page 82)	15 Mins.
(Ken Chawkins, Business Policy Manager, Southern California Gas Company)	
9. Promoting Sustainable Transport Solutions – Volvo Group (page 91) (Aravind Kailas, Research and Innovation Manager, Volvo Group,)	20 Mins.
10. Transportation Electrification Partnership – Los Angeles Cleantech Incubator	15 Mins.



TRANSPORTATION COMMITTEE AGENDA

(page 99)

(Michelle Kinman, Director of Transportation, Los Angeles Cleantech Incubator)

11. Virgin Hyperloop One Presentation (page 108)

30 Mins.

(Tony Bauer, Tunnel Engineer, Virgin Hyperloop One)

12. RCTC Logistics Fee/Truck Study (page 119)

20 Mins.

(John Standiford, Deputy Executive Director, RCTC)

13. Last Mile Freight Study (page 135)

10 Mins.

(Scott Strelecki, Senior Regional Planner, Goods Movement and Transportation Finance, SCAG)

CHAIR'S REPORT

(The Honorable Curt Hagman, Chair)

METROLINK REPORT

(The Honorable Art Brown)

STAFF REPORT

(John Asuncion, SCAG Staff)

FUTURE AGENDA ITEMS

ANNOUNCEMENT/S

ADJOURNMENT



Southern California Association of Governments 900 Wilshire Blvd., Suite 1700, Los Angeles, CA 90017 November 1, 2018

TRANSPORTATION COMMITTEE MINUTES OF THE MEETING THURSDAY, OCTOBER 4, 2018

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE TRANSPORTATION COMMITTEE. A DIGITAL RECORDING OF THE ACTUAL MEETING IS AVAILABLE FOR LISTENING IN SCAG'S OFFICE.

The Transportation Committee (TC) met at SCAG, 900 Wilshire Blvd., 17th Floor, Los Angeles, CA 90017. The meeting was called to order by Chair Hon. Curt Hagman, San Bernardino County. A quorum was present.

Members Present:

Hon.	Sean Ashton, Downey	District 25
Hon.	Rusty Bailey, Riverside	District 68
Hon.	Ben Benoit, Wildomar	South Coast AQMD
Hon.	Will Berg, Port Hueneme	VCOG
Hon.	Russell Betts, Desert Hot Springs	CVAG
Hon.	Art Brown, Buena Park	District 21
Hon.	Emily Gabel-Luddy	AVCJPA
Hon.	James Gazeley, Lomita	District 39
Hon.	Jack Hadjinian, Montebello	SGVCOG
Hon.	Curt Hagman (Chair)	San Bernardino County
Hon.	Jim Hyatt, Calimesa	District 3
Hon.	Mike T. Judge, Simi Valley	VCTC
Hon.	Linda Krupa, Hemet	WRCOG
Hon.	Randon Lane, Murrieta	District 5
Hon.	Steve Manos, Lake Elsinore	District 63
Hon.	Ray Marquez, Chino Hills	District 10
Hon.	Larry McCallon	Highland
Hon.	Marsha McLean, Santa Clarita	District 67
Hon.	Dan Medina, Gardena	District 28
Hon.	Barbara Messina, Alhambra	District 34
Hon.	L. Dennis Michael	District 9
Hon.	Carol Moore, Laguna Woods	OCCOG
Hon.	Kris Murray, Anaheim	District 19
Hon.	Frank Navarro, Colton	District 6
Hon.	Greg Pettis, Cathedral City	District 2
Hon.	Charles Puckett, Tustin	District 17
Hon.	Teresa Real Sebastian, Monterey Park	SGVCOG
Hon.	Crystal Ruiz, San Jacinto	WRCOG
Hon.	Ali Saleh, Bell	GCCOG

Hon. Marty Simonoff, Brea
 Hon. Jess Talamantes
 Hon. Brent Tercero, Pico Rivera
 Hon. Cheryl Viegas-Walker, El Centro (Vice Chair)
 Hon. Alan Wapner, Ontario
 Mr. Paul Marquez
 District 1
 SBCTA/SBCOG
 Caltrans District 7

Members Not Present:

Hon.	Glen Becerra, Simi Valley	District 46
Hon.	Austin Bishop, Palmdale	North L.A. County
Hon.	Joe Buscaino, Los Angeles	District 62
Hon.	Ross Chun, Aliso Viejo	OCTA
Hon.	Jonathan Curtis, La Cañada-Flintridge	District 36
Hon.	Diane Dixon, Newport Beach	OCCOG
Hon.	Jeffrey, Giba, Moreno Valley	District 69
Hon.	Gonzalez, Lena, Long Beach	District 30
Hon.	Jan Harnik, Palm Desert	RCTC
Hon.	Dave Harrington, Aliso Viejo	OCCOG
Hon.	Carol Herrera, Diamond Bar	District 37
Hon.	Steven Hofbauer, Palmdale	District 43
Hon.	Jose Huizar, Los Angeles	District 61
Hon.	Trish Kelley, Mission Viejo	OCCOG
Hon.	Clint Lorimore, Eastvale	District 4
Hon.	Fred Minagar, Laguna Niguel	District 12
Hon.	Ara Najarian	Glendale
Hon.	Shawn Nelson	Orange County
Hon.	Sam Pedroza, Claremont	District 38
Hon.	Dwight Robinson, Lake Forest	OCCOG
Hon.	Damon Sandoval	Morongo Band of Mission Indians
Hon.	Thomas Small, Culver City	Culver City
Hon.	Barb Stanton, Apple Valley	SBCTA/SBCOG
Hon.	Cynthia Sternquist, Temple City	SGVCOG
Hon.	Alicia Weintraub, Calabasas	LVMCOG
Hon.	Michael Wilson, Indio	District 66

CALL TO ORDER & PLEDGE OF ALLEGIANCE

Hon. Curt Hagman, San Bernardino County, called the meeting to order at 10:08 a.m. Hon. Art Brown, Buena Park, led the Pledge of Allegiance.

PUBLIC COMMENT

No members of the public requested to comment.

ACTION/DISCUSSION ITEMS

Los Angeles and San Bernardino Inter-County Transit and Rail Connectivity Study

Steve Fox, SCAG staff, reported on the Los Angeles and San Bernardino Inter-County study. Mr. Fox stated that the study area includes east Los Angeles County and western San Bernardino County and examined three major corridors in the region, Metrolink's San Bernardino and

Riverside lines and Interstate 10. He noted that the objectives include assessing the market for transit and rail travel in the corridor, including geographic distribution of origins for employee and passenger trips to Ontario International Airport. The study seeks to estimate potential ridership, travel, economic benefits as well as capital/operating costs associated with different transit and rail options and to recommend a path forward for cost-effective transit service that best serves local communities.

Mr. Fox reviewed the different study alternatives including, No Build, Transportation Systems Management, Light Rail, Commuter Rail, Hybrid Rail and Express Bus/Bus Rapid Transit. Next, he reviewed the various strengths and weaknesses associated with each alternative.

Hon. Russell Betts, Desert Hot Springs, asked if the study examined the total passenger trip time from home to the airport considering that the passenger will have luggage when travelling on transit. Mr. Fox responded that origin and destination information was used to understand trip length for each of the alternatives examined.

A MOTION was made (Brown) and SECONDED (Simonoff) to receive the Inter-County Transit and Rail Connectivity Study findings and direct staff to finalize the report and transmit the Final Report to Los Angeles County Metropolitan Transportation Authority and San Bernardino County Transportation Authority. The motion passed by the following votes:

AYES: Ashton, Bailey, Benoit, Berg, Betts, Brown, Gabel-Luddy, Gazeley, Hadjinian, Hagman,

Hyatt, Judge, Krupa, Manos, Marquez, McCallon, McLean, Messina, Michael, Murray,

Navarro, Pettis, Puckett, Ruiz, Simonoff, Talamantes, Viegas-Walker (27)

NOES: None (0) ABSTAIN: None (0)

CONSENT CALENDAR

2. Minutes of the September 6, 2018 Meeting

Receive and File

- 3. Future Communities Pilot Program Update
- 4. Environmental Justice Working Group Update
- 5. Notification to HCD & Caltrans of Estimated RTP Adoption Date
- 6. High Quality Transit Area (HQTA) Pilot Program
- 7. APA California Recognizes Outstanding Planning in SCAG Region
- 8. Go Human Campaign Update
- 9. Highlights from 29th Annual Demographic Workshop June 11, 2018

A MOTION was made (Navarro) and SECONDED (Brown) to approve Consent Calendar items 2 – 9. The Motion passed by the following votes:

AYES: Ashton, Bailey, Benoit, Berg, Betts, Brown, Gabel-Luddy, Gazeley, Hadjinian, Hagman,

Hyatt, Judge, Krupa, Manos, Marquez, McCallon, McLean, Messina, Michael, Moore, Murray, Navarro, Pettis, Puckett, Real Sebastian, Ruiz, Saleh, Simonoff, Talamantes,

Tercero, Viegas-Walker (31)

NOES: None (0) ABSTAIN: None (0)

INFORMATION ITEMS

10. <u>Customer-Based Ridesharing and Transit Interconnectivity Study</u>

Heather Menninger, AMMA Transit Planning, reported on the SBCTA Customer-Based Ridesharing and Transit Interconnectivity Study. Ms. Menninger stated that the study area includes the San Bernardino Valley and examines, from the customer view point, how to increase multi-modalism, attract new transit riders, retain existing ones and take advantage of revolutions occurring in transportation technology, communications and big data. She reviewed commute data in the study area which indicated that while two-thirds drive alone there is a segment of potential users who are open to using other modes of transportation. Ms. Menninger noted that the customer experience can be enhanced with improvements in first and last mile enhancements, customer information, and institutional and rider support.

Ms. Menninger reviewed the different action steps outlined in the study. She noted that customer information can be improved through the use of modern digital applications and customer facing technology. Further, first-mile/last-mile strategies can include improved feeders to the West Valley Connector, a ride hail pilot project to Ontario Airport, on-demand flex service within downtown San Bernardino, an Omnitrans warehouse-district connecting service, bikeshare and improved bike/pedestrian infrastructure. Rider support enhancements can include electronic fare payment, rideshare incentives as well as targeted safety enhancement. She noted that institutional strategies can include improved linkage between agencies and the creation of seamless technology interoperability. Ms. Menninger stated that the action plan seeks to build a customer-based, technology-enabled, multi-modal experience to attract and retain new riders.

Hon. Alan Wapner, Ontario, announced that the Emerging Technology Committee is being formed and those interested in serving on it can make their interest known. He noted that it would continue efforts of the Open Data/Big Data Committee and would report directly to the Regional Council.

Hon. Curt Hagman, San Bernardino County, asked if it is known how many of those surveyed for the study indicated that they do not have access to technology such as a cell phone and is it significant enough for policy makers to consider implementing digital screens at transit stops. Ms. Menninger responded that survey results indicate that transit riders are increasingly using digital technology to access mobility information and that she would forward the data.

11. <u>Goods Movement Border Crossing – Study Phase II/Industrial Warehousing Study Revised</u> Releases

Mike Jones, SCAG staff, provided an update on the Goods Movement Border Crossing Study Phase II and the Industrial Warehousing study. Mr. Jones stated that the studies have been revised and re-released to insure critical findings are made available to partners, local, state, and federal agencies, academics and other goods movement stakeholders. He noted the studies were first released in 2016 and they explore existing and future challenges associated with regional freight such as capacity and infrastructure issues as well as identifying potential strategies and recommendation to accommodate projected freight growth. He noted the studies have become a useful resource for goods movement partners and that they are available at freightworks.org.

12. I-105 Corridor Sustainability Study Status Report

Gary Hamrick, Cambridge Systematics, provided a status report on I-105 Corridor Sustainability Study. Mr. Hamrick stated the study examines an area extending 3 miles around I-105. He noted

it examines multi-modal conditions along the corridor and the study objectives include reducing per capita delays, vehicle miles traveled, improve system efficiency and improve connectivity between modes. Mr. Hamrick reviewed current conditions for the I-105 corridor and connecting corridors such as peak speed conditions, pavement roughness conditions and bridge ratings. Next, truck, vehicle, bicycle and pedestrian collisions were reviewed.

Mr. Hambrick noted that in the future population and employment in the study area is expected to grow. Additionally, traffic volume on the I-105 is expected to increase in the future further congesting corridor flow. He noted that a series of project ideas are being assembled to help improve conditions for all modes of transportation in the study area. He noted next steps include completing evaluation and improvement scenarios, issuing a draft report November 2018 and a final report December 2018.

Hon. Jim Hyatt, Calimesa, noted the high number of bicycle and pedestrian accidents and fatalities and asked about the reporting time period. Mr. Hambrick responded that it was a 3-year reporting period.

Hon. Curt Hagman, San Bernardino County, asked how much future transportation technology is integrated into planning. Mr. Hamrick responded that several projects being developed for the area that would utilize technology such as interconnecting traffic signals, changeable message and advance warning signs as well as integrating timing of traffic flow from the feeder corridors.

CHAIR'S REPORT

Curt Hagman, San Bernardino County, encouraged jurisdictions to consider the importance of future technology in managing mobility and transportation including connecting traffic signals to assist traffic management for different day part needs. Further, to consider the implications of 5G and the benefit of traffic flow planning that extends across multiple jurisdictions.

METROLINK REPORT

Art Brown, Buena Park, reported that beginning July 1, 2018 the San Bernardino line reduced fare prices 25% as a pilot program and has seen a 7% increase in ridership since that time. Additionally, the fall schedule will begin October 8, 2018 and some schedules will change. Additionally, Metrolink leadership, staff, elected officials, industry leaders and first responders gathered at Union Station recently to remember the 10-year anniversary of the Chatsworth accident.

STAFF REPORT

John Asuncion, SCAG staff, offered committee members a SCAG label to help identify their building access cards.

ADJOURNMENT

Hon. Curt Hagman, San Bernardino County, adjourned the meeting at 11:36 a.m.

[MINUTES ARE UNOFFICIAL UNTIL APPROVED BY THE TRANSPORTATION COMMITTEE]

John Asuncion, Senior Regional Planner

Transportation Planning

		7	Γrans	port	atior	n Cor		tee A	ttenda	nce F	Repor	t						
2018 X = County Represented																		
Member (including Ex-		_^	- 000	IIILY F	epre	Senie	u	^-	Attent	Jeu		INO INI E	eung	N	IVI – INE	www	ibei	Mtgs
Officio) Last Name, First Name	Representing	IC	LA	ос	RC	SB	vc	Feb	Mar	April	GA May	June	July	Aug	Sept	Oct	Nov	Atten ded
Ashton, Sean*	Downey		Х					Х	Х	Х					Х	Х		
Bailey, Rusty*	Riverside, WRCOG				Х			Х	Х						Х	Х		
Becerra, Glen*	Simi Valley						Х	Х	Х	Х								
Benoit, Ben*	South Coast AQMD				Х			Х	Х	Х						Х		
Berg, Will	VCOG, Port Hueneme							Х	Х	Х					Х	Х		
Betts, Russell	CVAG				Х			Х	Х	Х					Х	Х		
Bishop, Austin	County																	
Brown, Art*	Buena Park			х				Х	Х	Х					Х	Х		
Buscaino, Joe*	Los Angeles		х					Х	Х	Х					Х			
Chun, Ross	Aliso Viejo, OCTA			х				Х	Х	Х					Х			
Curtis, Jonathan*	La Cañada Flintridge		х							Х								
Dixon, Diane	Newport Beach														Х			
Gabel-Luddy, Emily	Burbank, AVCJPA		х							Х						х		
Gazeley, James*	Lomita		х					х	Х	Х					х	Х		
iba, Jeffrey*	Moreno Valley		Ė		Х			X	Х	Х					X			
Gonzalez, Lena*	Long Beach		х												''			
Iadjinian, Jack	Montebello, SGVCOG		X					х		Х					х	х	 	
Hagman, Curt* (Chair)	San Bernardino County		F			Х		X	х	X					X	X	 	
Harnik, Jan*	Palm Desert, RCTC		 		Х	-		<u> </u>	^	^					 ^ 	<u> </u>	 	
Iarnik, Jan." Iarrington, Dave	Aliso Viejo, OCCOG		 	х	^										<u> </u>		 	-
Herrera, Carol*	Diamond Bar		 					- V	v	v					-		<u> </u>	-
			X					X	X	X					l v			-
Hofbauer, Steven*	County		X					Х	Х	Х					Х		<u> </u>	-
Iuizar, Jose*	Los Angeles		Х												<u> </u>			
Iyatt, Jim*	Calimesa				Х			Х	Х	X					Х	Х		
udge, Mike*	Simi Valley, VCTC						Х	Х	Х	X					Х	Х		
Celley, Trish	Mission Viejo, OCCOG			Х				Х	Х	Х					Х			
Krupa, Linda	Hemet, WRCOG				Х											Х		
ane, Randon* (Vice Chair)	Murrieta				Х			Х	Х	X					Х	Х		
Lorimore, Clint*	Eastvale				Х			Х	Х	X					Х			
Manos, Steve*	Lake Elsinore				Х			Х	Х	X					Х	Х		
Marquez, Ray*	Chino Hills					Х		Х	Х	X					Х	Х		
AcCallon, Larry	Highland					Х		Х	Х	Х					Х	Х		
McLean, Marsha*	Santa Clarita		Х					Х	Х	Х					Х	Х		
Medina, Dan*	Gardena		Х					Х	Х	Х					Х	Х		
Messina, Barbara*	Alhambra		х					Х	Х	Х					Х	Х		
Dennis Michael*	Rancho Cucamonga					Х		Х		Х					Х	Х		
Minagar, Fred*	Laguna Niguel			х				Х	Х						Х			
Moore, Carol	Laguna Woods, OCCOG			х				х	Х	Х					х	х		
Murray, Kris*	Anaheim			Х					Х	Х						X		
Najarian, Ara	Glendale		1	Ĥ					^	<u> </u>					Х	Ĥ		
Vayarran, Ara Vavarro, Frank*	Colton		 			Х		х		Х					X	х	 	
Nelson, Shawn*	County of Orange		l —	Х		<u> </u>		<u> </u>		^					 ^	 ^	 	
Pedroza, Sam*	Claremont		х	<u> </u>				х	Х	Х					Х		-	-
Pettis, Greg*	Cathedral City		⊢		~												-	-
			 		Х			X	X	X					X	X	<u> </u>	-
Puckett, Charles*	Tustin		 					X	X	X					X	X	<u> </u>	<u> </u>
Real Sebastian, Teresa	Monterey Park/SGVCOG		Х	<u> </u>				Х	Х	Х					Х	Х		
Robinson, Dwight	Lake Forest, OCCOG		<u> </u>	Х											<u> </u>		<u> </u>	<u> </u>
Ruiz, Crystal	WRCOG/San Jacinto		<u> </u>		Х				Х						<u> </u>	Х	<u> </u>	<u> </u>
aleh, Ali*	City of Bell, GCCOG		Х					Х	Х	X					Х	Х		
andoval, Damon	Morongo Band of Mission Indians																	
imonoff, Marty*	Brea			х				х	х	х					х	х		
mall, Thomas															NM			
tanton, Barb*	Apple Valley					Х												
ternquist, Cynthia	Temple City		Х					Х										
alamantes, Jess			Х						Х	Х					Х	Х		
ercero, Brent	Pico Rivera		х					х	Х	Х						Х		
/iegas-Walker, Cheryl*	El Centro	х						х	Х	Х						Х		
Vapner, Alan*	SBCT A/SBCOG					х		х	Х	Х					х	х		
Veintraub, Alicia	Calabasas/LVMCOG		х					Х							Х			
Wilson, Michael*	Indio, CVAG		<u> </u>		Х			Х							Ë			
																1		



Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

INTERIM

EXECUTIVE DIRECTOR'S

APPROVAL

To: Energy & Environment Committee (EEC)

Transportation Committee (TC)

Transportation Committee (TC)

Transportation Committee (TC)

From: Michael Gainor, Senior Regional Planner, Compliance &

Performance Monitoring, (213) 236-1822, Gainor@scag.ca.gov

Subject: Draft 2019 Local Profiles Data Update

RECOMMENDED ACTION FOR CEHD:

For Information Only - No Action Required

RECOMMENDED ACTION FOR EEC AND TC:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 3: Be the foremost data information hub for the region.

EXECUTIVE SUMMARY:

Since 2009, SCAG has prepared and updated the Local Profiles reports every two years as a service to our member jurisdictions. The reports provide current and historical demographic, socioeconomic, housing, transportation, public health, and education data compiled from a variety of sources. The 2019 Local Profiles reports, to be released at the SCAG General Assembly in May 2019, generally focus on changes that have occurred since 2000. The information is presented to help identify current trends that provide a useful resource to local governments with activities and research supportive of community planning, economic development, grant writing, and public outreach efforts. The Local Profiles are also used as a resource for businesses evaluating expansion or relocation options, academic research, and to members of the public who seek to learn more about their communities.

BACKGROUND:

The Local Profiles were first released at the SCAG Regional Conference and General Assembly in May 2009, and have been updated every two years since. The Local Profiles provide a quick, but comprehensive, resource for local data and analytical support. As part of the biennial update, the new 2019 Local Profiles reports, scheduled for release at the SCAG General Assembly in May 2019, will include updated information and data related to local and regional demographic trends, housing, employment, income, education and public health. The data included in the Local Profiles reports is compiled through a wide variety sources and refined through extensive input from our member jurisdictions.





The Local Profiles reports have served as information and communication resources for elected officials, businesses, and residents in our local communities. Local government staff have used the reports to respond to a wide variety of public information inquiries regarding growth and change occurring within their jurisdictions. The Local Profiles are also frequently used by local jurisdictions in support of community planning, public outreach, local visioning initiatives, economic development, grant applications, and marketing and promotional materials. In addition, the biennially produced reports provide a useful tool in support of regional and local performance monitoring. Some examples of how the reports have been used include the provision of locally specific data to support residential and commercial development decision-making by private development firms; as a community information resource for local jurisdictions in support of General Plan updates; as an appendix to local strategic plans; and as a compendium of relevant local data to support various grant applications by local jurisdictions throughout the SCAG region.

With each edition of the Local Profiles, the selection of specific data and topics to be presented in the reports evolves to some extent to ensure consistency with the overall goal of providing a highly relevant product that reflects the current priorities in the SCAG region in a concise, easy to read format. For the 2019 Local Profiles several data enhancements are being introduced in the reports including a stronger focus on sustainable transportation and disadvantaged communities.

Attachment 1 of this staff report features the set of data items continuing from the 2017 Local Profiles reports to be included in the 2019 edition.

Attachment 2 of this report provides the set of proposed new data items to be included in the 2019 Local Profiles reports.

The 2017 Local Profiles are posted on the SCAG website: www.scag.ca.gov/resources/profiles.htm

FISCAL IMPACT:

Work associated with this item is included in the Fiscal Year 2018-2019 Overall Work Program (WBS Number 080.0153.04: Performance Assessment & Monitoring).

ATTACHMENT(S):

- 1. Attach 1_2019 Local Profiles_Continuing Data Items
- 2. Attach 2_2019 Local Profiles_Proposed New Data Items
- 3. Attach 3_2019 Local Profiles_Presentation

Attachment 1: 2019 Local Profiles: Data Items Continuing from 2017

Category	Data Type	Data Source
	Total Population: 2017 & 2018	California Department of Finance
	Population: % Hispanic: 2018	US Census, Nielsen Co
	Population: % Non-Hispanic White: 2018	US Census, Nielsen Co
	Population: % Non-Hispanic Asian: 2018	US Census, Nielsen Co
Donulation	Population: % Non-Hispanic Black: 2018	US Census, Nielsen Co
Population	Population: % Non-Hispanic American Indian: 2018	US Census, Nielsen Co
	Population: % All Other Non-Hispanic: 2018	US Census, Nielsen Co
	Population by Age: 2017 & 2018	US Census, Nielsen Co
	Median Age: 2018	US Census, Nielsen Co
	Population Density: 2018	SCAG
	Number of Households: 2017 & 2018	California Department of Finance
	Average Household Size: 2017 & 2018	California Department of Finance
Households	Share of Households by Household Size: 2018	US Census, Nielsen Co
	Median Household Income: 2018	US Census, Nielsen Co
	Share of Households by Household Income: 2018	US Census, Nielsen Co
	Homeownership Rate: 2018	US Census, Nielsen Co
	Median Existing Home Sales Price: 2017 & 2018	Dataquick (CoreLogic)
	Number of Foreclosures	Dataquick (CoreLogic)
	Share of Housing Stock by Decade Built	US Census, Nielsen Co
	Number of Housing Units: 2017 & 2018	California Department of Finance
Housing	Number of Housing Units by Housing Type: 2018	California Department of Finance
	Total Housing Building Permits Issued: 2017 & 2018	Construction Industry Research Board
	Single-Family Housing Building Permits Issued: 2017 & 2018	Construction Industry Research Board
	Multi-Family Housing Building Permits Issued: 2017 & 2018	Construction Industry Research Board
	Housing Cost Share of Household Income: Homeowners	American Community Survey (ACS)
	Housing Cost Share of Household Income: Renters	American Community Survey (ACS)
	Transportation Mode Share: 2018	US Census, Nielsen Co
	Average Travel Time to Work: 2018	US Census, Nielsen Co
Transportation	Top 10 Commuter Work Destination Cities: Table	LEHD O/D Employment Statistics
rransportation	Top 10 Commuter Work Destination Cities: Map	SCAG
	Vehicles per Household: 2000, 2010, 2018	American Community Survey (ACS)
	Travel Time to Work Distribution (by range of minutes): 2000-2018	US Census, Nielsen Co
Active Transportation	Miles of Bicycle Lanes by Class (by county): 2016	County Transportation Commissions
	Total Number of Jobs: 2016 & 2017	California Employment Development Dept
	Number of Jobs by Sector: 2017	California Employment Development Dept
	Number of Manufacturing Jobs: 2016 & 2017	California Employment Development Dept
Employment	Number of Construction Jobs: 2016 & 2017	California Employment Development Dept
Employment	Number of Retail Trade Jobs: 2016 & 2017	California Employment Development Dept
	Number of Professional & Management Jobs: 2016 & 2017	California Employment Development Dept
	Average Annual Salary: 2017	California Employment Development Dept
	Average Annual Salary by Sector: 2017	California Employment Development Dept
Deskille Herelik	Obesity Rate	California Health Interview Survey
Public Health	Physical Activity Rate (Walking)	California Health Interview Survey
Retail Sales	Real Retail Sales: 2016 & 2017	California Board of Equalization
	% Completed High School or Higher: 2018	US Census, Nielsen Co
	% Completed Bachelor Degree or Higher: 2018	US Census, Nielsen Co
	K-12 Public School Enrollment: 2017 & 2018	California Department of Education
Education		
Education	K-6 Public School Student Enrollment: 2017 & 2018 Grades 7-9 Public School Student Enrollment: 2017 & 2018	California Department of Education California Department of Education

Attachment 2: 2019 Local Profiles: Potential New Data Items

Data Item	Local Profiles Section	Definition	Data Source	
Travel distance distribution	Transportation	Commute distance travelled (by range)	Commute travel distance data at jurisdictional level.	U.S. Census American Community Survey (ACS)
Average travel distance	Transportation	Average commute distance travelled	Commute travel distance data at jurisdictional level.	U.S. Census American Community Survey (ACS)
English language fluency	•	Share of population with limited English language fluency	Share of population 5+ years of age with limited English language fluency	U.S. Census American Community Survey (ACS)

2019 Local Profiles Data Update

Community, Economic, & Human Development Committee

November 1, 2018



Mike Gainor Senior Regional Planner

Local Profiles Program Overview

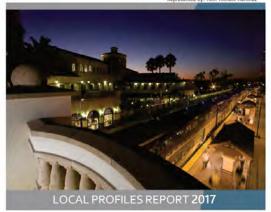


- Prepared biennially for each member city, county, & unincorporated area in the SCAG region
- Contains current demographic, socio-economic, housing, transportation, & education data within historical context
- Helps identify current & evolving demographic trends in local jurisdictions
- Provided as a service to our member jurisdictions
- The 2017 Local Profiles are posted on the SCAG website: <u>www.scag.ca.gov/resources/profiles.htm</u>

Profile of

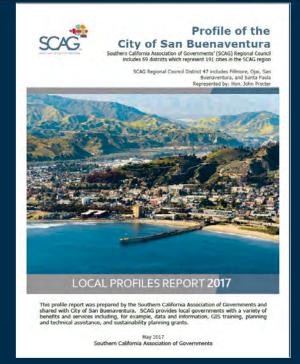






This profile report was prepared by the Southern California Association of Governments and shared with the City of Santa Ana. SCAG provides local governments with a variety of benefits and services including, for example, data and information, GIS training, planning and technical assistance, and sustainability planning grants.

May 2017 Southern California Association of Governments



2017 Local Profiles



2017 Local Profiles Data Categories

- Population: Total, by Age, by Ethnicity
- Households: Number, Size, Income, Owner/Renter Status
- Housing: Production by Type, Permits Issued, Median Sales Price, Housing Stock Age, Foreclosures
- Transportation: Mode Choice, Travel Time
- Employment: Top Employment Destinations, Total Number of Jobs, Jobs by Sector, Average Salary
- Retail Sales: Total Sales, Sales per Person
- Education: Enrollment by Grade Level, Educational Attainment



2017 New Data Categories

- Active Transportation: Bike Lane Mileage by Class (by County)
- Public Health: Rates for Obesity, Physical Activity, Asthma, Diabetes, & Heart Disease

2017 New Data Items

- Population Density
- Housing Cost Share (for Renters & Homeowners)
- Travel Time to Work (by Range of Minutes)
- Household Vehicle Ownership (Number of Vehicles per Household)

2019 Local Profiles



2019 Proposed New Data Items

- Travel Distance Distribution (Transportation Section)
- Average Travel Distance (Transportation Section)
- English Language Fluency (Population Section)

6



2019 Proposed New Data Items

Travel Distance Distribution:

- Commute travel distance provided by range of minutes by local jurisdiction
- Data obtained through U.S. Census American Community Survey (ACS)
- Five travel distance data ranges displayed in pie chart format

2019 Local Profiles



2019 Proposed New Data Items

Average Travel Distance:

- Average commute distance travelled by local jurisdiction
- Data obtained through U.S. Census American Community Survey (ACS)
- Average travel distance data for years 2000, 2010, &
 2018 displayed in bar chart format

8



2019 Proposed New Data Items

English Language Fluency:

- Share of population (age 5+) that speak English at a 'Less than Well' level of fluency
- Data obtained through U.S. Census American Community Survey (ACS) 5-year estimates
- English fluency data for the years 2010, 2013, & 2016 displayed in bar chart format

2019 Local Profiles

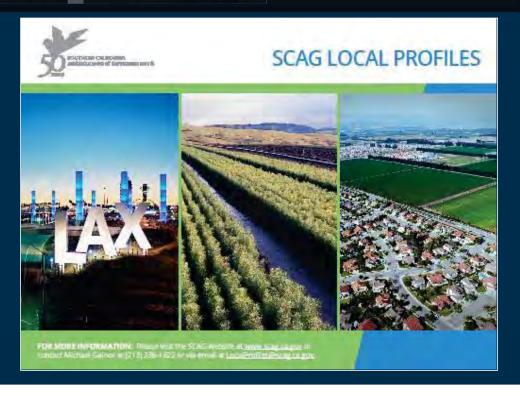


Next Steps:

- Data acquisition, processing, & analysis (through January, 2019)
- Draft reports provided for local jurisdictional review & comment (mid-February, 2019)
- Draft report jurisdiction comment period (February-March, 2019)
- Revise draft reports to incorporate jurisdictional comments & SCAG
 QA process (March-April, 2019)
- Production of final reports (late April, 2019)
- Release of final 2019 Local Profiles reports & post on SCAG website (May, 2019)

10





Thank you!

Mike Gainor (213) 236-1822 gainor@scag.ca.gov







Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

INTERIM

EXECUTIVE DIRECTOR'S

APPROVAL

To: Community

Economic & Human Development Committee (CEHD)

Energy & Environment Committee (EEC)

Transportation Committee (TC)

From: Roland Ok, Senior Regional Planner, Compliance &

Performance Monitoring, (213) 236-1819, ok@scag.ca.gov

Subject: Status Update on the 2020 RTP/SCS PEIR

RECOMMENDED 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:

The purpose of this staff report is to inform the EEC, CEHD, TC and RC that staff has initiated environmental documentation for the 2020 Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal or Plan). A Program Environmental Impact Report (PEIR) for the Plan will be prepared in accordance with the California Environmental Quality Act (CEQA). The PEIR will be a program-level document that will analyze the cumulative effects of the proposed actions, as well as transportation improvements and land use developments discussed in the Plan.

BACKGROUND:

Connect SoCal is a long-term plan which emphasizes the development and preservation of the region's transportation system. For a transportation project to become eligible for federal and state funding, it must be included in the financially-constrained portion of the RTP. In addition, per state law, the Plan must include a Sustainable Communities Strategy (SCS) that demonstrates compliance with California Air Resources Board greenhouse gas (GHG) emission reduction targets from cars and light duty trucks.

CEQA, Pub. Res. Code § 21000 et seq., and its implementing regulations, CEQA Guidelines, codified at 14 C.C.R. § 15000 et seq., require SCAG as the Lead Agency to prepare an Environmental Impact Report for the Plan. The Plan necessitates preparation of a PEIR, which is a "first-tier" CEQA document designed to consider "broad policy alternatives and program-wide mitigation measures" (CEQA Guidelines §15168).

The PEIR will serve as a programmatic document that provides a region-wide assessment of potential significant environmental effects of the Plan. The PEIR will provide an opportunity to inform decision-makers and the public about these effects. The PEIR will evaluate region-wide,



potential significant environmental effects, including direct and indirect effects, growth-inducing impacts, and cumulative impacts of the Plan at a programmatic level. The PEIR will consider a range of reasonable alternatives to the Plan, including the no-project alternative and alternatives capable of achieving most of the basic objectives of the Plan and that may be capable of avoiding or substantially lessening any of the significant environmental effects the Plan. The PEIR will also evaluate proposed feasible mitigation measures capable of avoiding or reducing the significant effects of the Plan.

STATUS OF THE 2020 RTP/SCS PEIR:

On August 20, 2018, SCAG's Executive Administration Committee (EAC), approved the Consultant's contract (18-026-C01) to assist SCAG with the preparation of a legally defensible PEIR. The Consultant will assist SCAG in completing the PEIR and provide services to ensure compliance with federal and state planning and environmental laws in the PEIR.

On September 6, 2018, SCAG staff informed the Energy and Environment Committee (EEC) that the CEQA documentation process had been initiated. After the September 6 meeting, a formal kick-off meeting occurred with SCAG and the Consultant on September 27, 2018. The kick-off meeting focused on the scope of work and strategies to complete a legally defensible PEIR.

NEXT STEPS:

While SCAG initially planned to release the Notice of Preparation (NOP) prior to the end of 2018, SCAG and the Consultant decided that January 2019 would be the optimal release date for the NOP as it would allow for a robust description of the Connect SoCal Plan, it's proposed goals, policies, scenarios and alternatives. The NOP will formally kick-off the PEIR process and will undergo a 30-day public review period which will allow for public comments. Following the release of the NOP and public review phase, SCAG will host two (2) scoping meetings. The scoping meetings will provide a presentation on the Plan's process and vision and allow for further comments on the Plan and the PEIR. Comments received will be incorporated into the PEIR and will potentially serve as a guidance tool to assist with the environmental analysis. Pursuant to AB 52, SCAG will request for formal consultation with Native American Tribes within 14 days after the NOP release date. After the request, SCAG will work towards hosting tribal consultation meetings to fulfill AB 52 requirements.

FISCAL IMPACT:

Work associated with this item is included in the current Fiscal Year 2018/19 Overall Work Program (020.0161.04: Regulatory Compliance).



Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

INTERIM

EXECUTIVE DIRECTOR'S

APPROVAL

To: Executive/Administration Committee (EAC)

Community

Economic & Human Development Committee (CEHD)

Energy & Environment Committee (EEC)

Transportation Committee (TC)

Regional Council (RC)

From: Kome Ajise, Director of Planning, Planning Division, 213-236-

1835, Ajise@scag.ca.gov

Subject: Future Communities Pilot Program Guidelines

RECOMMENDED ACTION FOR EAC:

Recommend that Regional Council approve the Future Communities Pilot Program Guidelines.

RECOMMENDED ACTION FOR TC, EEC, CEHD:

Receive and File

RECOMMENDED ACTION FOR RC:

Approve the Future Communities Pilot Program Guidelines.

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians. 2: Advance Southern California's policy interests and planning priorities through regional, statewide, and national engagement and advocacy. 3: Be the foremost data information hub for the region. 4: Provide innovative information and value-added services to enhance member agencies' planning and operations and promote regional collaboration. 7: Secure funding to support agency priorities to effectively and efficiently deliver work products.

EXECUTIVE SUMMARY:

SCAG, in partnership with the Mobile Source Air Pollution Reduction Committee of the South Coast Air Quality Management District (MSRC), created the Future Communities Pilot Program (FCPP) to support city and county agencies in implementing innovative pilot projects that reduce emissions-producing vehicle miles traveled (VMT) from local travel and municipal operations. The FCPP will award approximately \$2.7 million to cities and counties within the South Coast Air Basin. SCAG, with support and input of consultants, technical experts and stakeholders, has prepared funding guidelines for the FCPP that outline the program goals, funding requirements, scoring criteria and application process. Following the review and adoption of the FCPP Guidelines by the Regional Council, SCAG will issue the FCPP Call for Proposals and conduct outreach to solicit project proposals. Staff anticipates returning to the Regional Council in February with funding recommendations for 5 to 10 pilot projects.



BACKGROUND:

SCAG hosted an Open Data/Big Data – Smart and Connected SCAG Region Committee (Committee) from June to November of 2017 to assess the changing landscape of technology in regional planning and to provide guidance for local governments. The Committee's key achievement was the development and adoption by the Regional Council of a Future Communities Framework to help the region with smart technology implementation.

In addition to the policy framework, the Committee reviewed and endorsed the Future Communities Initiative, a short-term work program including the following work elements: Regional Data Platform, a Policy Lab/Tool Builder, a Data Science Fellowship, and an annual forum and a new grant program called the Future Communities Pilot Program (FCPP). Each initiative harnesses the power of new technologies, big data, open data as well as enhanced analytics to promote innovation in regional and local planning and reduce transportation demand.

The FCPP is a project to support city and county agencies in implementing innovative pilot projects that reduce emissions-producing vehicle miles traveled (VMT) from local travel and municipal operations through the use of new technologies and enhanced data analytics. In July 2018, SCAG partnered with the MSRC to implement the FCPP in four phases: 1) Promising Practice Research 2) Call for Projects 3) Implementation and 4) Evaluation and Final Report.

In July 2018, SCAG hired Nelson Nygard to conduct the Promising Practice Research phase of the program. Research included the following tasks:

- Technical Advisory Committee (TAC)
- Expert Interviews
- Promising Practice Identification
- Case Studies
- Readiness Survey

Building on the Promising Practice Research, SCAG staff and the consultant team developed program guidelines and an application for a Future Communities Pilot Program Call for Projects.

The FCPP project team shared key components of the program guidelines with and incorporated feedback from a variety of stakeholders, including the Energy and Environment Committee, MSRC, Caltrans, and the TAC. The guidelines were reviewed for coordination with the 2016 RTP/SCS and upcoming Connect SoCal, consistency with funding source goals and requirements, and for support of innovative advancements in Transportation Demand Management (TDM) initiatives.

Program Goals

The goals ensure that the projects selected will meet statutory requirements for the funding sources used for the program as well as the direction of the Committee and the Future Communities Framework.

The goals of the FCPP are:



- Apply new technologies and data analytics to test innovative approaches for reducing emissions-producing VMT from local travel and municipal operations.
- Explore opportunities for data analytics and technology projects in a variety of contexts/communities, including projects that support and engage disadvantaged communities.
- Improve efficiency and reduce the costs of city and county municipal services.
- Identify and quantify relative impacts of a variety of technology-based VMT reduction strategies.
- Promote replicable Pilot Projects that support new policy development, improve processes for government service provision, and pilot innovative engagement practices with private sector mobility providers.

Eligibility & Funding

SCAG has a total of \$2.7 million to award with a requirement of a 25% local match from each applicant. Due to MSRC funding restrictions, projects must be located within the South Coast Air District and will be limited to cities and county agencies from Los Angeles, Riverside, Orange, and San Bernardino counties. The maximum project size is \$500,000. Funding awards will be made on a competitive basis and in accordance with geographic equity requirements set by the MSRC.

Project Examples

A wide range of data analytics and technology projects are eligible for FCPP funding within the framework of the program goals. The program guidelines, supplemental case studies, and promising project research include eligible project examples. SCAG's research primarily focused on the following two project areas but, due to the desire to fund innovative projects, applications are not limited to these specific project areas.

- Projects that reduce VMT generated by municipal operations
 - Use of remote/teleconference services
 - Use of fleet telematics to track vehicle use
 - Use of route optimization to improve efficiencies
 - Use of Internet of Things (IoT) or asset management applications to improve fleet deployment efficiency
- Projects that reduce VMT by using technology to maximize benefits of new mobility services
 - Curbside management projects
 - Smart parking projects
 - Mobility as a Service projects
 - Mobile apps that implement direct incentives for switching to non-auto modes that reduce VMT

Scoring Criteria

FCPP applications will be scored according to the criteria outlined below. The top-scoring applications will be short-listed. Short-listed applicants will be invited for a one-on-one presentation and discussion with SCAG staff in early January 2019.



Scoring Criteria - Application	Point Value
Topic 1: Project Rationale	15 pts
Topic 2: Project Design	60 pts
Topic 3: Readiness and Sustainability	25 pts

Scoring Criteria - Interview	Point Value
Topic 1: Presentation	15 pts
Topic 2: Interview	15 pts

<u>Schedule</u>

The schedule for the Call for Projects and the Pilot Program Period moves quickly. The program guidelines outlines all project milestones including the following important dates.

Milestone	Date
Call for Applications Opens	November 1, 2018
Application Workshop #1	November 13, 2018
Application Workshop #2	December 4, 2018
Call for Project Application Deadline	December 13, 2018
One-on-One Meetings with Potential Awardees	January 7-11, 2019
SCAG Regional Council Approval of 2018 FCPP Awards	February 7, 2019
Pilot Launch	Spring 2019
Pilot Programs Conclude	December 2020
Pilot Program Final Reporting	December 2020

FISCAL IMPACT:

The Future Communities Pilot Program is funded by \$2,000,000 in funding from the Mobile Source Air Pollution Reduction Committee (MSRC) and \$1,000,000 in SB1 Funding in OWP Task Number 280.4824.01. An additional \$1,000,000 will be provided by awardees in the form of local match.

ATTACHMENT(S):

- 1. DRAFT Final_SCAG FCPP_Call for Projects Guidelines
- 2. Future Communities

FUTURE COMMUNITIES PILOT PROGRAM PROGRAM GUIDELINES

BACKGROUND

The Future Communities Pilot Program (FCPP) is a new grant program designed to provide local cities and counties with the resources needed to reduce emissions-producing vehicle miles traveled (VMT) using new technology and data solutions. The FCPP is a partnership between the Southern California Association of Governments (SCAG) and the Mobile Source Air Pollution Reduction Committee (MSRC) to improve air quality and implement SCAG's 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). VMT and emission reduction goals support the State's Climate Change Scoping Plan, which outlines strategies for achieving California's 2030 greenhouse gas target. The FCCP is also a major component of SCAG's Future Communities Initiative, which is a three-year work program for implementing the policy direction from SCAG's Open Data/Big Data, Smart and Connected SCAG Region Committee.

FCPP funding is available to cities and municipalities within the South Coast Air Quality Management District (SCAQMD) portions of Los Angeles, Orange, Riverside and San Bernardino counties, and is funded through a combination of MSRC funding and Senate Bill 1 – The Road Maintenance and Rehabilitation Program (SB1). Proposed projects must consider the requirements outlined below to ensure compliance with the requirements of both funding sources.

GOALS

The FCPP has the following goals, which will shape the pilot selection process described in this document:

- Apply new technologies and data analytics to test innovative approaches for reducing emissions-producing VMT from local travel and municipal operations.
- Explore opportunities for data analytics and technology projects in a variety of contexts/communities, including projects that support and engage disadvantaged communities.
- Improve efficiency and reduce the costs of city and county municipal services.
- Identify and quantify relative impacts of a variety of technology-based VMT reduction strategies.
- Promote replicable Pilot Projects that support new policy development, improve processes for government service provision, and pilot innovative engagement practices with private sector mobility providers.

ELIGIBLE PROJECT TYPES AND PROMISING PRACTICES

Eligible projects must be implemented and demonstrate measurable VMT reduction during the project period. A wide range of data analytics and technology projects are eligible for FCPP funding within the framework of the program goals. To support applicants and provide examples

of possible projects, SCAG has conducted research into promising practices for the reduction of municipal VMT, as well as the role of technology and data analytics for the identification and deployment of strategies/tactics to decrease the production of VMT and greenhouse gases.

SCAG has developed in depth case studies to provide project applicants of potential project concepts. While SCAG's case studies focus on two main themes for VMT reduction (VMT reduction from municipal operations and technology solutions for working with new mobility services), applicants are encouraged to submit a wide range of accessibility and mobility related proposals that meet the goals of the program. In addition to the case studies, SCAG developed a list of other promising practices that could support the goals of the program. Information regarding the case studies and promising practices can be found on SCAG's website.

The first theme that SCAG studied and developed case studies for includes projects that reduce VMT generated by municipal operations. Existing municipal services can be responsible for the production of significant VMT and emissions. Pilot Projects in this arena would reduce the production of VMT through the implementation of innovative data collection and analytic techniques to improve municipal operating policies, practices, and guidelines. These could include use of remote/teleconference services, use of fleet telematics, use of route optimization, use of Internet of Things (IoT), or asset management applications to improve fleet deployment efficiency.

SCAG's research also considered projects that reduce VMT by using technology to maximize benefits of new mobility services — or to reduce "new" VMT sources. New technologies have spawned several new forms of mobility services, adding to the demands placed on the existing transportation network and increasing competition for operating space and resources. Pilot Projects in this category would develop innovative solutions for managing the operation of these new services within the local jurisdiction. These could include curbside management projects, smart parking projects, Mobility as a Service (MaaS) projects, or mobile apps that implement direct incentives for switching to non-auto modes that reduce VMT.

As mentioned above, applicants are not limited to the project types included in the case studies or the promising practices spreadsheet. Rather, those examples are provided to help applicants explore potential project ideas and identify implementation considerations. Given the limitations on timeline for deployment and completion of this Call for Projects, applications should be focused, clear, and action-oriented/plug and play ready. Entities considering applying to the FCPP should ask themselves the following questions when determining which type of Pilot Project to submit:

- Does it use data or technology in innovate ways?
- Does it clearly identify how it will aim to reduce VMT?
- Is it feasible to implement/operationalize and measure VMT reduction within the short project period (~18 months)?
- Has the jurisdiction identified matching resources?

ELIGIBLE APPLICANTS

Given the restrictions of funding sources, only city and county municipal applicants from within the South Coast Air Quality Management District (SCAQMD) portions of San Bernardino, Riverside, Los Angeles, and Orange Counties are eligible to apply for FCPP funding.

SCAG will consider sub-applicants within the following contexts:

- To encourage participation by cities with a variety of resource levels, cities may apply in
 partnership with sub-regional or regional agencies or multi-jurisdictional partners (e.g.
 councils of government), if such a partnership will improve the likelihood of successful
 implementation. Given that the sustainability of the projects is important, applicants in
 these situations will need to describe how they would sustain the knowledge of processes
 and maintenance of products once the project is completed and the partnering agency is
 no longer available to provide technical assistance.
- Departments outside of the immediate confines of a municipal structure, such as school districts, may be included as sub-applicants in partnership with a city- or county-lead agency.
- Sub-regional and regional entities may be included as sub-applicants to provide guidance
 on project design and implementation, and to ensure regional or sub-regional consistency
 with similar efforts and data standards. However, SCAG does not desire to enter into
 complicated contracting structures due to the limited time for project implementation. It
 is recommended that such participation be considered for meeting the local matching
 requirements.
- Collaboration between multiple partners is allowed; however, the tight timeline for project implementation and completion (~18 months) requires rapid deployment.
 Partnerships that may involve lengthy new collaborative experiences may not be competitive.
- Due to the inclusion of SB1 funding, at the time of award notice an applicant, subapplicant and/or jurisdiction will be required to have a housing element in substantial compliance with the State Housing Element Law, and must have submitted updated Housing Element Annual Progress Reports.

Because these are implementation-oriented projects tied to municipal VMT reduction goals, it is important that the implementer of the project is closely involved and represented in the application package. Having the available resources to successfully implement the project is not only an important factor for project selection, but will also be important for project success given the limited time available to complete the projects.

Commensurate with the limited timeline for project delivery and the technical capacity required to effectively implement and execute Pilot Projects, significant effort will be required in the staffing and mobilization of resources for successful deployment. Therefore, SCAG expects that consultants or other third party professional service providers may be critical to successfully implementing projects.

FUNDING SOURCES AND MATCH REQUIREMENTS

The funding available for these projects totals \$2.7 million and is a combination of both MSRC funding and SB1 funding. Funding awards and mix will depend on the number and type of applications received and regional equity funding targets. Below are important factors about the funding sources that applicants should consider:

- Maximum project size for applications is \$500,000.
- Funding is only available to city and county municipal applicants within the <u>South Coast Air Quality Management District (SCAQMD)</u> portion of the counties of Los Angeles, Orange, Riverside and San Bernardino.

- The grant program requires a 25% match from applicants.
 - o In-kind matches, cash matches, and leveraged resources from other supporting projects (e.g. grants, parallel development efforts, etc.) are eligible as co-funding.
 - Agencies using match other than cash will be required to document their staff hours and/or other expenses on a quarterly basis.
 - If a cash match is provided, the Agency should identify the source of funding (i.e. General Fund, AB 2766, Prop A, etc.) and include it in the project budget.
 - In kind participation of agency staff participation can count towards funding match contributions.
 - o The match should, if possible, be expended concurrently in proportion to the grant funding. All matching funds must be spent by the completion of the project.
- In accordance with SB funding requirements, SB-1 funds may only be used for planning activities; not program implementation. Therefore, applicants should clearly identify and distinguish planning-related tasks from those aligned with implementation of the Pilot Projects in the proposed project scopes of work (SOW) and budgets.

SCAG does not intend to directly fund applicants' internal labor costs through this grant program. Due to the complexity of projects and rapid mobilization requirements, SCAG expects to hire professional service providers on behalf of successful applicants to implement the projects. While the proposed projects are likely to rely heavily on consultant staff, their approach to implementation and operation should give thought toward developing a project that is sustainable in the post-pilot phase. Applicants that intend on using their own internal labor force to complete the majority of the work must justify the need to do so in their applications and show that their staff will have the capacity and skills to complete the project within the timeframe of the project.

APPLICATION PROCESS

Applications are due by December 13, 2018 by 5:00 p.m. as outlined in the submittal section of these guidelines. All project types will follow a single application process, which reflects the goals and requirements described in these guidelines. The application is posted on the <u>project website</u>.

Multiple applications from an agency are possible. However, due to the limited amount of funding available through the Call for Projects, applicants should be judicious in only submitting their best projects that meet the goals of the program and can be completed within the timeline set out in these guidelines.

Project sponsors do not need a board resolution in order to apply, but they will be required to agree to submit a supporting resolution from the elected body or a letter of intent in support of the project from the appropriate executive officer prior to project kickoff.

Once the Call for Projects opens, SCAG will hold two application workshops to help guide potential applicants through the process as they finalize submissions. **SCAG also has an "open door" policy** during this application period, and is able to answer technical questions about the application content or process at any point during the call for projects.

SCORING RUBRIC & CRITERIA

The scoring criteria for all projects funded through the FCPP will be the same. Question topics and their relationships to the scoring criteria are outlined below. Exact questions and further clarification regarding how points are awarded are provided in the call for projects application packet.

Table 1: FCPP Application Scoring Rubric

Scoring Criteria	Point Value
Topic 1: Project Rationale	15 pts
Source of VMT Production	5
Baseline Estimation of Current VMT Production	5
VMT Reduction Approach and Methodology	5
Topic 2: Project Design	60 pts
Goals, Objectives, and Outcomes	5
Innovation, Technology and Data Analytics	10
Project Implementation and Management	20
VMT Reduction Estimate and Cost Reduction Potential	15
Proposed Schedule and Budget	5
Performance Reporting	5
Topic 3: Readiness and Sustainability	25
Supportive Policies and Commitments	5
Expansion and Replicability	5
Match and Resource Leveraging	5
Disadvantaged Community Considerations	10

FCPP applications will be scored according to the rubric above. The top-scoring applications will be short-listed. Short-listed applicants will be invited for a one-on-one presentation and interview between January 7 and January 11, 2019 at SCAG's offices. All short-listed applicants will be scored as follows:

Table 2: Individual Interview and Presentation Scoring Rubric

Scoring Criteria	Point Value
Presentation	15 pts
Management Approach and Technical Capacity	
Project Readiness and Sustainability	

Scoring Criteria	Point Value
Value Added Opportunities/Benefits	
Interview	15 pts
Project Specific Interview Questions	

EVALUATION PROCESS

SCAG will coordinate an internal review process for applications received. Review will include multidisciplinary teams from multiple SCAG planning groups. Each application will be scored by a minimum of three reviewers. Upon completion of the review process, SCAG will rank projects in accordance with the geographic representation and regional equity considerations required by each funding source to create a short-list of projects.

SCAG will then conduct one-on-one interviews with the short-listed applicants in each county to determine project readiness and availability of resources to successfully complete the projects. Applicants will be asked to provide a presentation on the project which will be followed by a standardized set of structured interview questions. Applicants should ensure that any critical personnel required for these meetings are available between January 7 and January 11, 2019.

Pending review of application details, SCAG reserves the right to request that potential grant recipients modify their proposed project scope of work to maximize the use of available funds. Final selection of grantee recipients will be based on the combined results of the technical application evaluation and interview. All one-on-one meetings will occur at SCAG's main office building; however, in the spirit of reducing VMT, SCAG will coordinate videoconferencing with regional offices if necessary.

SCHEDULE

The Call for Projects and the Pilot Program Period will both move quickly. The following schedule outlines important dates:

Milestone	Date
SCAG Future Communities Pilot Project Call for Applications Opens	November 1, 2018
Application Workshop #1	November 13, 2018
Application Workshop #2	December 4, 2018
Call for Project Application Deadline	December 13, 2018
One-on-One Meetings with Potential Awardees	January 7-11, 2019
SCAG Regional Council Approval of 2018 FCPP Application Rankings	February 7, 2019
Pilot Launch	Spring 2019
Pilot Programs Conclude	December 2020
Pilot Program Final Reporting	December 2020

TIMELY USE OF FUNDS AND TIME EXTENSIONS

SCAG intends all selected projects to be completed in a timely manner and requires that applicants coordinate internal resources to ensure timely completion of the projects by December 31, 2020. A project initiation schedule and expectations regarding period of performance will be determined within three months of project award announcements and will be based on project complexity, funding source, and SCAG staff capacity.

Once the project schedule has been established, extensions will be considered on a case-by-case basis. Extensions and scope changes must be requested in letter format. All requests must include an explanation of the issues and actions the agency has taken to correct the issues. All extensions will be contingent on funding availability and the program requirements of the funding source assigned to the project when awarded. No extensions will be allowed beyond December 31, 2020.

SUBMITTAL INFORMATION

Applications are due, via electronic submittal, by **December 13, 2018 by 5:00 p.m.** using the instructions provided in the application. Required application components include:

- Cover letter
- Signatory page
- FCPP application form
- Scope of Work and Management Plan
- Project schedule and proposed budget (including local match contribution)

Applications should include all supporting documents in a single PDF file. Files should be labeled using the format below:

- City/Agency Name Project Name.pdf
 - For example: SCAG_Future-Communities-Pilot-Program.pdf

CONTACT INFORMATION

Direct questions about the Future Communities Pilot Project application or process to:

Rye Baerg, Senior Regional Planner

(213) 236-1866

baerg@scag.ca.gov

or

Deanna Dupuy, Assistant Regional Planner

(213) 236-1884

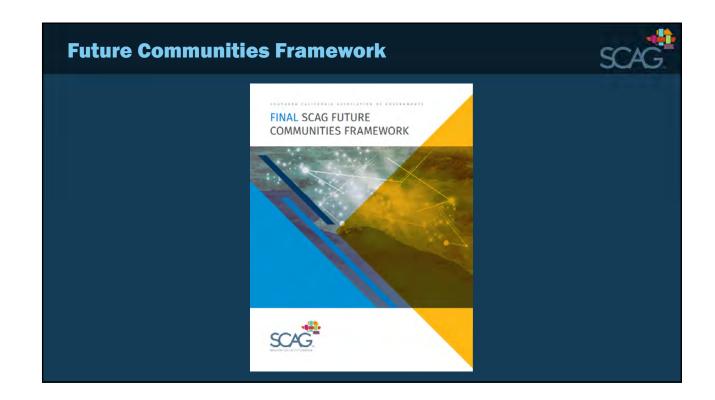
dupuy@scag.ca.gov

Future Communities Pilot Program Guidelines

RegionalCouncil

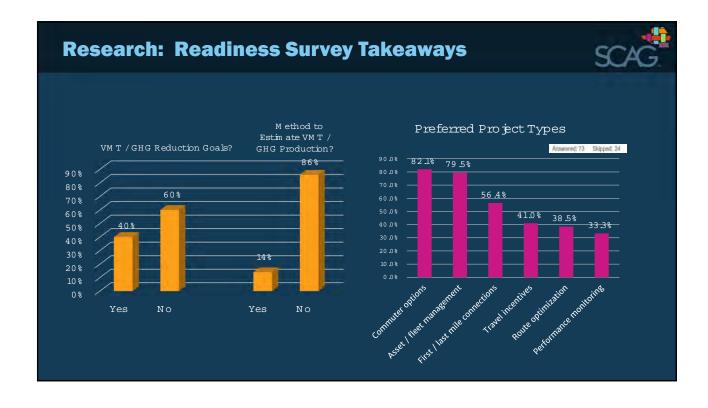
Rye Baerg
SeniorRegionalPlanner, SCAG
November 1, 2018



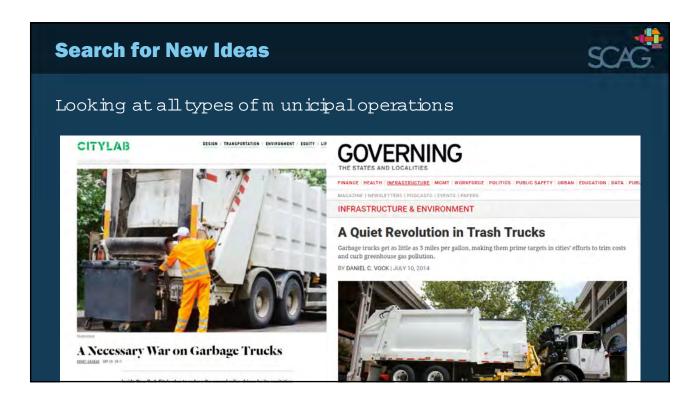










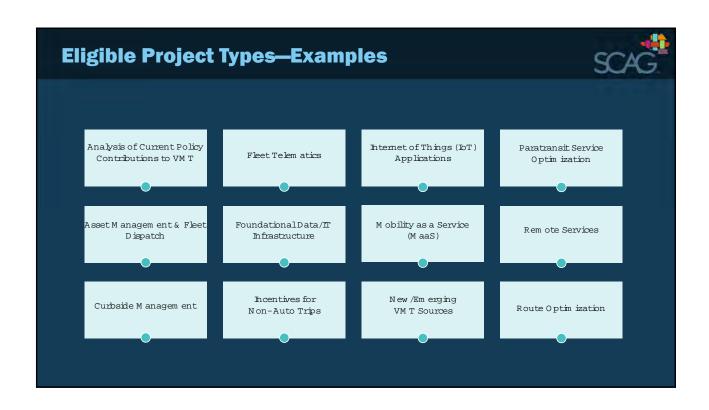




Program Goals



- Apply new technologies and data analytics to reduce em issions-producing VM T from local traveland municipal operations
- Explore opportunities for projects in a variety of contexts/com m unities (with consideration for disadvantaged com m unities)
- Im prove efficiency and reduce costs of county and municipal services
- Identify and quantify relative in pacts of a variety of technology-based VM T reduction strategies
- Prom ote replicable Pilot Projects



Evaluation Criteria



Scoring Criteria - Application	Point Value
Topic 1: Project Rationale	15 pts
Topic 2: Project Design	60 pts
Topic 3: Readiness and Sustainability	25 pts

Scoring Criteria - Interview	Point Value
Topic 1: Presentation	15 pts
Topic 2: Interview	15 pts

Call for Projects Schedule



M ilestone	Date	
SCAG Future Com m unities Pilot Project Call for Applications Opens	November 1, 2018	
Application W orkshop #1	November 13, 2018	
Application W orkshop # 2	December 4,2018	
Call for Project Application Deadline	Decem ber 13,2018	
One-on-One Meetings with Potential Awardees	January 7-11,2019	
SCAG RegionalCouncilApprovalof 2018 FCPP Awards	February 7,2019	
Pilot Launch	Spring 2019	
Pilot Program s Conclude	December 2020	
Pilot Program Final Reporting	December 2020	





Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

INTERIM

EXECUTIVE DIRECTOR'S

APPROVAL

To: Energy & Environment Committee (EEC)

Transportation Committee (TC)

Community, Economic and Human Development Committee

(CEHD)

From: Kimberly Clark, Regional Planner Specialist, Research &

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

Subject: Update on SCAG's Bottom-Up Local Input and Envisioning

Process

RECOMMENDED ACTION FOR CEHD:

For Information Only – No Action Required

RECOMMENDED ACTION FOR TC and EEC:

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. 4: Provide innovative information and value-added services to enhance member agencies' planning and operations and promote regional collaboration.

EXECUTIVE SUMMARY:

In preparation for adoption of the region's next RTP/SCS in Spring 2020, SCAG has been engaging with local jurisdictions, subregions, and other stakeholders to inform development of the Regional Housing Needs Assessment (RHNA) and Connect SoCal. SCAG's <u>Bottom-Up Local Input and Envisioning Process</u> kicked off in fall 2017 with a regional training and webinar, and staff have been engaging stakeholders to establish a clear picture of local existing conditions and best practices to help inform potential regional policy options. Over the course of the last year, SCAG staff have met one-on-one with every city, town, and county in the Southern California region to review the planning process and local data elements that will inform both the RHNA and Connect SoCal; SCAG also offered on-site technical assistance to over 90 agencies requesting additional help. The deadline for jurisdictions to provide feedback on SCAG's base data was October 1, 2018, and SCAG received feedback from 88% of jurisdictions on one or more data elements under local review.

BACKGROUND:

Southern California will be facing new challenges in the development of the region's upcoming vision for the future — Connect SoCal; principally, transformational technologies in the transportation and employment sectors, new greenhouse gas (GHG) reduction targets from the California Air Resources Board (CARB), new Federal Highway Administration planning requirements, MAP 21 performance metrics/goals, and a concurrent Regional Housing Needs



Assessment (RHNA) cycle. Given these factors, it is important to establish a solid baseline of existing policies and plans to understand how Southern California can accommodate future growth and thrive in the coming decades.

To ensure that all jurisdictions are fully informed of the planning process and have clear and adequate opportunities to provide input, SCAG kicked off our <u>Bottom-Up Local Input and Envisioning Process</u> in fall 2017 to solicit local feedback on base land use data, anticipated population/household/employment growth, resource areas, sustainability practices, and transit-supportive measures to help decision makers understand how the region will perform under current circumstances in future years. Each jurisdiction was sent a detailed work plan during the first week of December 2017 to explain this process, identify support from subregional organizations, outline milestones, and provide instructions on submitting feedback. Several trainings have also been hosted throughout the region, and session content is available as webinars on SCAG's website.

To review this material and answer questions, SCAG staff met one-on-one with all 197 local jurisdictions in our region with the help of our subregional partners and offered on-site technical assistance to over 90 agencies requesting additional help. As of mid-October, 88% of jurisdictions (174) provided feedback on one or more of SCAG's data elements. 21 jurisdictions requested an extension of one to four weeks to review these data elements, and SCAG has granted all extensions on a case-by-case basis. For a complete listing of input provided by jurisdiction, please refer to Attachment 1. Moving forward, SCAG will be updating our datasets with input received to date. This information will then be used to develop potential scenarios for Connect SoCal through a structured and collaborative engagement with local jurisdictions, CTCs, a broad range of stakeholder groups, and the general public.

The 2020 RHNA will also be completed concurrently and in coordination with the Bottom-Up Local Input and Envisioning Process. The projection period for the 6th cycle of the RHNA will be from year 2021 to 2029. Staff will begin to meet with the California Department of Housing and Community Development (HCD) starting early next year to initiate the regional housing need determination process, after which a methodology will be reviewed and adopted by the RHNA Subcommittee, Community, Economic, and Human Development Policy Committee, and Regional Council. The regional determination will use input submitted during the Bottom-Up Local Input and Envisioning Process as the starting point for the RHNA allocation. SCAG plans to distribute the draft RHNA allocation to each jurisdiction in early winter 2020 and adopt the final RHNA allocation by October 2020. SCAG will continue to explore ways to maximize outreach and participation in the RHNA process.

FISCAL IMPACT:

Work associated with this item is included in the current FY 2018-2019 Overall Work Program (150-4069.04, Outreach and Technical Collaboration).

ATTACHMENT(S):

1. Input Received by Jurisdiction for SCAG's Bottom-Up Local Input and Envisioning Process (as of October 18, 2018)





2. PowerPoint Presentation: Bottom Up Local Input Process

ID 1	COUNTY	SUBREGION*	JURISDICTION Brawley	Input Received on One or More Data Elements**	Input on Geographic Data within GIS Data/Map Book Input Received	Input on Growth Forecast (Jurisdictional Level and/or TAZ Level) within GIS Data/Map Book Input Received	Input on Survey (PDF or Survey Monkey Submission)	Data Approval (GIS Data/Map) -	Data Approval (Growth Forecast) -	Data Input and Approval Form (or Other Form of Confimation)	Subregional TAC Presentation	One on One Meeting Scheduled
2	Imperial Imperial	ICTC ICTC	Calexico Calipatria	Input Received - Input Received	Input Received - Input Received	Input Received - -	- -		-	10/2/2018 - -		12/13/2017 12/13/2017 12/12/2017
4 5	Imperial Imperial	ICTC ICTC	El Centro Holtville	Input Received Input Received	Input Received Input Received	Input Received	-	Approved		9/25/2018 -		12/12/2017 12/12/2017 12/12/2017
6 7	Imperial Imperial	ICTC	Imperial Unincorporated	Input Received	Input Received			-	-	-		12/11/2017 12/11/2017
8 9	Imperial Los Angeles	ICTC Arroyo Verdugo	Westmorland Burbank	Input Received	Input Received -	Input Received -		Reviewing -	-			6/12/2018 4/17/2018
10 11	Los Angeles Los Angeles	Arroyo Verdugo Arroyo Verdugo	Glendale La Canada Flintridge	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Approved	-	10/1/2018 9/5/2018		4/17/2018 1/31/2018
12 13	Los Angeles Los Angeles	City of Los Angeles City of Los Angeles	Los Angeles San Fernando	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Approved	- Approved	- 8/27/2018		6/5/2018 3/26/2018
14 15	Los Angeles Los Angeles	City of Los Angeles GCCOG	Unincorporated Artesia	Input Received Extension Requested	Input Received -	Input Received -	Input Received -	-	Approved -	10/3/2018 -		6/13/2018 6/12/2018
16 17	Los Angeles Los Angeles	GCCOG GCCOG	Avalon Bell	Input Received Input Received	Input Received Input Received	Input Received -	Input Received -	Reviewing -	•	10/17/2018 -		5/31/2018 5/22/2018
18 19	Los Angeles Los Angeles	GCCOG GCCOG	Bell Gardens Bellflower	- Input Received	- Input Received	- Input Received	- Input Received	-	-	- 10/12/2018		5/14/2018 5/7/2018
20 21	Los Angeles Los Angeles	GCCOG GCCOG	Cerritos Commerce	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Reviewing -	- Approved	9/18/2018 -		5/16/2018 5/16/2018
22 23	Los Angeles Los Angeles	GCCOG GCCOG	Compton Cudahy	Input Received	Input Received	Input Received	Input Received	-	-	- -		6/6/2018 4/12/2018
24 25	Los Angeles Los Angeles	GCCOG GCCOG	Downey Hawaiian Gardens	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received -	- Approved	-	10/1/2018 10/4/2018		5/14/2018 5/24/2018
26 27	Los Angeles Los Angeles	GCCOG GCCOG	Huntington Park La Habra Heights	- - -	-	-	- -	-	•	-		5/15/2018 5/30/2018
28 29	Los Angeles Los Angeles	GCCOG GCCOG	La Mirada Lakewood	Input Received Input Received	Input Received	- -	Input Received Input Received	-	-	-		5/10/2018 6/7/2018
30 31	Los Angeles Los Angeles Los Angeles	GCCOG GCCOG	Long Beach Lynwood Maywood	Input Received	Input Received	Input Received	Input Received	- - -	- -	- - -		5/22/2018 6/4/2018 7/3/2018
33 34	Los Angeles Los Angeles	GCCOG GCCOG	Norwalk Paramount	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received	Approved Reviewing	-	9/26/2018 10/2/2018		5/30/2018 6/5/2018
35 36	Los Angeles Los Angeles	GCCOG GCCOG	Pico Rivera Santa Fe Springs	Extension Requested Input Received	- Input Received	- Input Received	-	-	-	10/2/2010		5/15/2018 5/17/2018
37 38	Los Angeles Los Angeles	GCCOG GCCOG	Signal Hill South Gate	Input Received Input Received	Input Received	Input Received	- Input Received	-	Approved	10/1/2018		5/21/2018 5/23/2018
39 40	Los Angeles Los Angeles	GCCOG GCCOG	Vernon Whittier	Input Received	Input Received	Input Received	Input Received	Approved -	Approved	9/10/2018 -		5/31/2018 6/12/2018
41 42	Los Angeles Los Angeles	Las Virgenes Malibu COG Las Virgenes Malibu COG	Agoura Hills Calabasas	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Approved	-	9/27/2018 5/31/2018		2/15/2018 3/6/2018
43 44	Los Angeles Los Angeles	Las Virgenes Malibu COG Las Virgenes Malibu COG	Hidden Hills Malibu	- Input Received	- Input Received	- Input Received	- Input Received	-	-	- 10/1/2018		3/20/2018 3/15/2018
45 46	Los Angeles Los Angeles	Las Virgenes Malibu COG North Los Angeles County	Westlake Village Lancaster	Input Received Extension Requested	Input Received	Input Received	Input Received	Reviewing -	Approved -	8/22/2018		6/6/2018 4/2/2018
47 48	Los Angeles Los Angeles	North Los Angeles County North Los Angeles County	Palmdale Santa Clarita	Input Received Extension Requested	Input Received -	Input Received -	Input Received -	- -	-	9/27/2018 -		5/29/2018 3/5/2018
49 50	Los Angeles Los Angeles	SBCCOG SBCCOG	Carson El Segundo	- Input Received	- Input Received	- -	- Input Received	-	-	- -		4/12/2018 4/19/2018
51 52	Los Angeles Los Angeles	SBCCOG SBCCOG	Gardena Hawthorne	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Approved -	Approved -	9/27/2018 -		6/8/2018 4/9/2018
53 54	Los Angeles Los Angeles	SBCCOG SBCCOG	Hermosa Beach Inglewood	Input Received Extension Requested	Input Received	Input Received -	Input Received	-	-	10/2/2018 -		6/14/2018 2/5/2018
55 56	Los Angeles Los Angeles	SBCCOG SBCCOG	Lawndale Lomita	Input Received Input Received	Input Received	Input Received	Input Received Input Received	-	- Approved	- 9/14/2018		4/9/2018 4/12/2018
58	Los Angeles Los Angeles	SBCCOG SBCCOG	Manhattan Beach Palos Verdes Estates	Input Received Input Received	Input Received	Input Received	Input Received Input Received	-	-	10/1/2018		4/10/2018 6/14/2018
59 60	Los Angeles	SBCCOG SBCCOG	Rancho Palos Verdes Redondo Beach	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Input Received	Reviewing -	-	10/1/2018 9/27/2018		4/16/2018 4/18/2018
61 62	Los Angeles Los Angeles	SBCCOG SBCCOG	Rolling Hills Rolling Hills Estates	Input Received Input Received	Input Received	-	Input Received	-	-	-		4/30/2018 4/16/2018
63 64	Los Angeles Los Angeles	SBCCOG SGVCOG	Torrance Alhambra	Input Received Input Received	Input Received -	Input Received Input Received	Input Received Input Received	Approved -	-	10/1/2018 -	11/30/2017	6/11/2018 2/20/2018
65 66	Los Angeles Los Angeles	SGVCOG SGVCOG	Arcadia Azusa	- -	- -	- -	- -	- -	-	-	11/30/2017 11/30/2017	2/14/2018 3/22/2018
67 68	Los Angeles Los Angeles	SGVCOG SGVCOG	Baldwin Park Bradbury	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Reviewing -	-	9/26/2018 -	11/30/2017 11/30/2017	2/12/2018 3/14/2018
69 70 71	Los Angeles Los Angeles	SGVCOG SGVCOG SGVCOG	Claremont Covina Diamond Bar	Input Received Input Received Input Received	Input Received Input Received	Input Received Input Received	-	Reviewing - Reviewing	-	- - 9/26/2018	11/30/2017 11/30/2017 11/30/2017	3/8/2018 3/20/2018 2/26/2018
71 72 73	Los Angeles Los Angeles Los Angeles	SGVCOG SGVCOG SGVCOG	Duarte El Monte	Input Received Input Received	Input Received Input Received Input Received	Input Received - Input Received	- - Input Received	Reviewing - -	- - Approved	9/26/2018 - 10/1/2018	11/30/2017 11/30/2017 11/30/2017	2/13/2018 2/13/2018 1/17/2018
74 75	Los Angeles Los Angeles	SGVCOG SGVCOG	Glendora Industry	Input Received Extension Requested	Input Received	Input Received	Input Received	Reviewing -	- -	- - -	11/30/2017 11/30/2017 11/30/2017	2/8/2018 3/6/2018
76 77	Los Angeles Los Angeles	SGVCOG SGVCOG	Irwindale La Puente	Input Received Input Received	Input Received	Input Received Input Received	Input Received	-	-	- 10/1/2018	11/30/2017 11/30/2017 11/30/2017	3/15/2018 2/21/2018
78 79	Los Angeles Los Angeles	SGVCOG SGVCOG	La Verne Monrovia	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received	- Approved	-	10/8/2018	11/30/2017 11/30/2017	2/22/2018 2/7/2018
80 81	Los Angeles Los Angeles	SGVCOG SGVCOG	Montebello Monterey Park	- -	-	-		-		- -	11/30/2017 11/30/2017	3/20/2018 1/29/2018
82 83	Los Angeles Los Angeles	SGVCOG SGVCOG	Pasadena Pomona	Input Received Input Received	Input Received Input Received	-	Input Received	-		-	11/30/2017 11/30/2017	1/31/2018 2/22/2018
84 85	Los Angeles Los Angeles	SGVCOG SGVCOG	Rosemead San Dimas	Input Received Input Received	Input Received Input Received	- Input Received	-	-	-	- 10/1/2018	11/30/2017 11/30/2017	2/12/2018 2/8/2018
86 87	Los Angeles Los Angeles	SGVCOG SGVCOG	San Gabriel San Marino	Extension Requested Input Received	- Input Received	-	- Input Received	- Approved	-	- 10/2/2018	11/30/2017 11/30/2017	4/4/2018 3/15/2018
88 89	Los Angeles Los Angeles	SGVCOG SGVCOG	Sierra Madre South El Monte	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Approved Approved	-	9/26/2018 8/7/2018	11/30/2017 11/30/2017	2/7/2018 2/21/2018
90 91	Los Angeles Los Angeles	SGVCOG SGVCOG	South Pasadena Temple City	Input Received Input Received	- Input Received	- Input Received	Input Received Input Received	- Approved	-	- 8/1/2018	11/30/2017 11/30/2017	2/20/2018 1/29/2018
92 93	Los Angeles Los Angeles	SGVCOG SGVCOG	Walnut West Covina	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Approved -	-	6/27/2018 10/1/2018	11/30/2017 11/30/2017	2/14/2018 2/26/2018
94 95	Los Angeles Los Angeles	WCCOG WCCOG	Beverly Hills Culver City	Input Received Input Received	Input Received Input Received	- Input Received	Input Received Input Received	- Approved	- Approved	10/1/2018 10/1/2018		6/7/2018 6/13/2018
96 97	Los Angeles Los Angeles	WCCOG WCCOG	Santa Monica West Hollywood	Input Received Extension Requested	Input Received -	-	-	-	-	10/17/2018		6/4/2018 5/30/2018
98 99	Orange Orange	OCCOG OCCOG	Aliso Viejo Anaheim	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Approved -	-	9/27/2018	12/5/2017 12/5/2017	3/27/2018 3/27/2018
100	Orange Orange	OCCOG OCCOG	Brea Buena Park	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Approved -	•	10/4/2018	12/5/2017 12/5/2017	3/19/2018 3/8/2018
102	Orange Orange	OCCOG OCCOG	Costa Mesa Cypress	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	-	-	10/8/2018	12/5/2017 12/5/2017	3/21/2018 3/27/2018
104	Orange Orange	OCCOG OCCOG	Dana Point Fountain Valley	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received	Approved -	•	8/9/2018 10/3/2018	12/5/2017 12/5/2017	3/13/2018 3/21/2018
106 107	Orange Orange	OCCOG OCCOG	Fullerton Garden Grove	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Approved	-	9/24/2018	12/5/2017 12/5/2017	3/21/2018 3/14/2018
108 109 110	Orange Orange Orange	OCCOG OCCOG	Huntington Beach Irvine La Habra	Input Received Input Received Input Received	Input Received Input Received	Input Received Input Received Input Received	Input Received Input Received Input Received	- -	-	9/28/2018 - 10/1/2018	12/5/2017 12/5/2017 12/5/2017	3/20/2018 3/7/2018 3/19/2018
110 111 112	Orange Orange	OCCOG OCCOG	La Habra La Palma Laguna Beach	Input Received Input Received Input Received	Input Received Input Received Input Received	Input Received Input Received Input Received	Input Received Input Received Input Received	- -	- -	10/1/2018 - -	12/5/2017 12/5/2017 12/5/2017	3/19/2018 3/20/2018 3/28/2018
112 113 114	Orange Orange	OCCOG OCCOG	Laguna Beach Laguna Hills Laguna Niguel	Input Received Input Received Input Received	Input Received Input Received Input Received	Input Received Input Received Input Received	Input Received - Input Received	- - -	-	- - -	12/5/2017 12/5/2017 12/5/2017	3/28/2018 3/7/2018 3/19/2018
115 116	Orange Orange	OCCOG OCCOG	Laguna Woods Lake Forest	Input Received Input Received	Input Received Input Received	Input Received Input Received Input Received	- Input Received	Approved -	-	- - -	12/5/2017 12/5/2017 12/5/2017	3/12/2018 3/8/2018
117 118	Orange Orange	OCCOG OCCOG	Los Alamitos Mission Viejo	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Input Received	Approved -	-	9/10/2018	12/5/2017 12/5/2017 12/5/2017	3/14/2018 3/19/2018
119 120	Orange Orange	OCCOG OCCOG	Newport Beach Orange	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Input Received	-	-	- 10/3/2018	12/5/2017 12/5/2017 12/5/2017	3/28/2018 3/20/2018
121 122	Orange Orange	OCCOG OCCOG	Placentia Rancho Santa Margarita	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	-	-	9/21/2018	12/5/2017 12/5/2017 12/5/2017	3/21/2018 3/13/2018
123 124	Orange Orange	OCCOG OCCOG	San Clemente San Juan Capistrano	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	- -	-	10/5/2018	12/5/2017 12/5/2017	3/12/2018 3/13/2018
125 126	Orange Orange	OCCOG OCCOG	Santa Ana Seal Beach	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	-	-	10/2/2018 10/18/2018	12/5/2017 12/5/2017	3/14/2018 3/28/2018
127 128	Orange Orange	OCCOG OCCOG	Stanton Tustin	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	-	-	- 10/1/2018	12/5/2017 12/5/2017	3/14/2018 3/8/2018
129 130	Orange Orange	OCCOG OCCOG	Unincorporated Villa Park	Input Received Input Received	Input Received -	Input Received Input Received	Input Received	-	-	- -	12/5/2017 12/5/2017	3/7/2018 3/12/2018
131 132	Orange Orange	OCCOG OCCOG	Westminster Yorba Linda	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	-	- -	10/4/2018 -	12/5/2017 12/5/2017	3/8/2018 3/13/2018
133 134	Riverside Riverside	CVAG CVAG	Blythe Cathedral City	Input Received	- -	-	- Input Received	- -	- -	- -		6/12/2018 11/28/2017
135 136	Riverside Riverside	CVAG CVAG	Coachella Desert Hot Springs	- - -	- -	- -	-	-	-	-		11/29/2017 5/31/2018
137 138	Riverside Riverside	CVAG CVAG	Indian Wells Indio	Input Received Input Received	Input Received -	Input Received Input Received	Input Received Input Received	Approved -	- -	9/18/2018 9/14/2018		11/27/2017 11/28/2017
139 140	Riverside Riverside	CVAG CVAG	La Quinta Palm Desert	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received	-	-	10/2/2018 10/2/2018		11/27/2017 11/28/2017
141 142	Riverside Riverside	CVAG CVAG	Palm Springs Rancho Mirage	Input Received Input Received	Input Received Input Received	- Input Received	Input Received Input Received	-	•	- 10/15/2018		11/29/2017 11/28/2017
143 144	Riverside Riverside	WRCOG WRCOG	Banning Beaumont	Input Received Input Received	Input Received Input Received	Input Received	- - Innut Despised	- -	- - -	- 10/15/2018		1/9/2018 1/10/2018
145 146	Riverside Riverside	WRCOG WRCOG	Calimesa Canyon Lake	Input Received	Input Received	Input Received	Input Received -	Approved -	Approved -	10/3/2018		1/16/2018 1/16/2018
147 148	Riverside Riverside	WRCOG WRCOG	Corona Eastvale	Input Received Input Received	Input Received	Input Received Input Received	-	Approved -	-	10/2/2018		12/20/2017 1/11/2018
149 150	Riverside Riverside	WRCOG WRCOG	Hemet Jurupa Valley	Input Received Input Received	Input Received Input Received	- -	Input Received	-	-	10/11/2018		2/27/2018 2/5/2018
151 152	Riverside Riverside	WRCOG WRCOG	Lake Elsinore Menifee	Input Received Input Received	Input Received	Input Received	Input Received Input Received	-	-	10/3/208		12/19/2017 12/18/2017
153 154	Riverside Riverside	WRCOG WRCOG	Moreno Valley Murrieta	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Approved -	-	7/18/2018 10/1/2018		1/16/2018 1/10/2018
155 156	Riverside Riverside	WRCOG WRCOG	Norco Perris	Input Received	- -	Input Received	-	-	-	9/26/2018		1/8/2018 1/25/2018
157 158	Riverside Riverside	WRCOG WRCOG	Riverside San Jacinto	Input Received Extension Requested	- -	Input Received	- -	-	-	-		12/21/2017 1/30/2018
159 160	Riverside Riverside	WRCOG WRCOG	Temecula Unincorporated	Input Received	Input Received	Input Received	Input Received	Approved -	-	9/13/2018		12/18/2017 1/25/2018
161 162	Riverside San Bernardino	WRCOG SBCTA	Wildomar Adelanto	Input Received Input Received	Input Received Input Received	Input Received Input Received	Input Received Input Received	Reviewing Reviewing	Approved -	7/19/2018 -		12/19/2017 4/25/2018
163 164	San Bernardino San Bernardino	SBCTA SBCTA	Apple Valley Barstow	Input Received Input Received	Input Received Input Received	Input Received Input Received		- Reviewing		- - 40/5/2040		5/15/2018 3/19/2018
165	San Bernardino	SBCTA	Big Bear Lake Chino	Input Received Input Received	Input Received Input Received	Input Received Input Received	- Input Received	Approved -	-	10/5/2018 10/4/2018		3/20/2018 4/18/2018

ID	COUNTY	SUBREGION*	JURISDICTION	Input Received on One or More Data Elements**	Input on Geographic Data within GIS Data/Map Book	Input on Growth Forecast (Jurisdictional Level and/or TAZ Level) within GIS Data/Map Book	Input on Survey (PDF or Survey Monkey Submission)	Data Approval (GIS Data/Map)	Data Approval (Growth Forecast)	Data Input and Approval Form (or Other Form of Confimation)	Subregional TAC Presentation	One on One Meeting Scheduled
167	San Bernardino	SBCTA	Chino Hills	Input Received	Input Received	Input Received	-	-	-	10/16/2018		3/26/2018
168	San Bernardino	SBCTA	Colton	Input Received	Input Received	Input Received	-	Reviewing	-	5/15/2018		4/18/2018
169	San Bernardino	SBCTA	Fontana	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018		3/26/2018
170	San Bernardino	SBCTA	Grand Terrace	Input Received	Input Received	Input Received	Input Received	Reviewing	-	-		4/19/2018
171	San Bernardino	SBCTA	Hesperia	Input Received	Input Received	Input Received	Input Received	Reviewing	Approved	-		3/29/2018
172	San Bernardino	SBCTA	Highland	Input Received	Input Received	Input Received	-	-	-	10/2/2018		3/20/2018
173	San Bernardino	SBCTA	Loma Linda	Input Received	-	Input Received	-	-	-	10/18/2018		4/25/2018
174	San Bernardino	SBCTA	Montclair	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		4/19/2018
175	San Bernardino	SBCTA	Needles	Input Received	-	Input Received		-	-	-		5/31/2018
176	San Bernardino	SBCTA	Ontario	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		3/27/2018
177	San Bernardino	SBCTA	Rancho Cucamonga	Input Received	Input Received	Input Received		-	-	10/18/2018		3/27/2018
178	San Bernardino	SBCTA	Redlands	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		4/26/2018
179	San Bernardino	SBCTA	Rialto	Input Received	Input Received	Input Received	-	-	-			5/7/2018
180	San Bernardino	SBCTA	San Bernardino	Input Received	-	Input Received	Input Received	-	-	-		4/23/2018
181	San Bernardino	SBCTA	Twentynine Palms	Input Received	Input Received	Input Received	Input Received	Reviewing	Approved	10/15/2018		3/21/2018
182	San Bernardino	SBCTA	Unincorporated	Input Received	Input Received	Input Received	Input Received	-	-	10/2/2018		-
183	San Bernardino	SBCTA	Upland	Input Received	Input Received	Input Received	-	-	-	-		4/18/2018
184	San Bernardino	SBCTA	Victorville	Input Received	Input Received	Input Received	-	-	Approved	9/27/2018		3/15/2018
185	San Bernardino	SBCTA	Yucaipa	Input Received	Input Received	Input Received	Input Received	Reviewing	-	9/20/2018		4/24/2018
186	San Bernardino	SBCTA	Yucca Valley	Input Received	Input Received	Input Received	-	-	-	10/5/2018		3/21/2018
187	Ventura	VCOG	Camarillo	Input Received	Input Received	Input Received	-	Reviewing	-	7/10/2018		4/26/2018
188	Ventura	VCOG	Fillmore	· -	-	-	-	-	-	-		3/6/2018
189	Ventura	VCOG	Moorpark	Input Received	Input Received	Input Received	Input Received	-	Approved	10/1/2018		3/22/2018
190	Ventura	VCOG	Ojai	Input Received	Input Received	Input Received	Input Received	-	Approved	10/1/2018		6/12/2018
191	Ventura	VCOG	Oxnard	Input Received	Input Received	Input Received	·	-	-	9/27/2018		4/3/2018
192	Ventura	VCOG	Port Hueneme	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018		4/11/2018
193	Ventura	VCOG	San Buenaventura	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018		4/26/2018
194	Ventura	VCOG	Santa Paula	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		5/8/2018
195	Ventura	VCOG	Simi Valley	Input Received	Input Received	Input Received	Input Received	-	-	10/8/2018		4/25/2018
196	Ventura	VCOG	Thousand Oaks	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		3/15/2018
197	Ventura	VCOG	Unincorporated	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		4/23/2018
			Input	•	147	138	113	0	0	101	65	196
			Remaining Jurisdictions		50	59	84	150	180	96	132	1
			Percent Completed		75%	70%	57%	0%	0%	51%	33%	99%

Local jurisdiction has requested additional time to provide feedback on one or more datasets

Input was received from local jurisdiction on one or more data elements

Input Received

Extension Requested

STATUS

^{*} Note: Many jurisdictions belong to more than one subregion. For the purposes of tracking input and avoiding double-counting, SCAG assigns a primary subregion for each jurisdiction

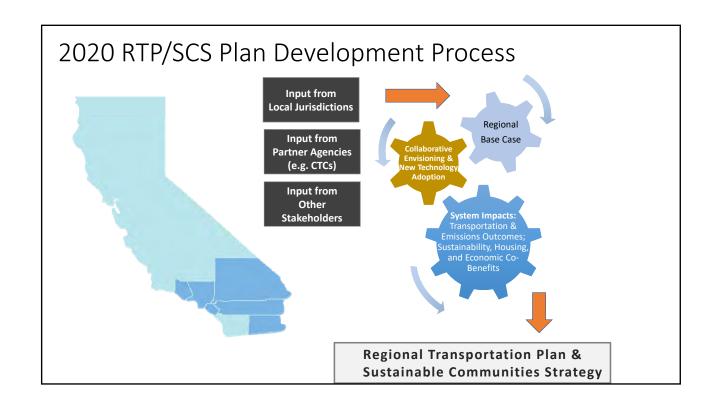
Update on the Bottom-Up Local Input and Envisioning Process for the 2020 RTP/SCS and RHNA

Community, Economic, and Human Development Committee

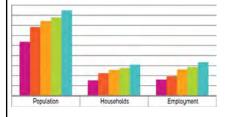
Kimberly Clark
Regional Planner Specialist

November 1, 2018





2020 RTP/SCS Plan Development Process Regional Base Case



Current and Future
Population, Households, Employment



Existing and Planned Land Use, Local Transportation Infrastructure, Resource Areas, Potential Infill Parcels

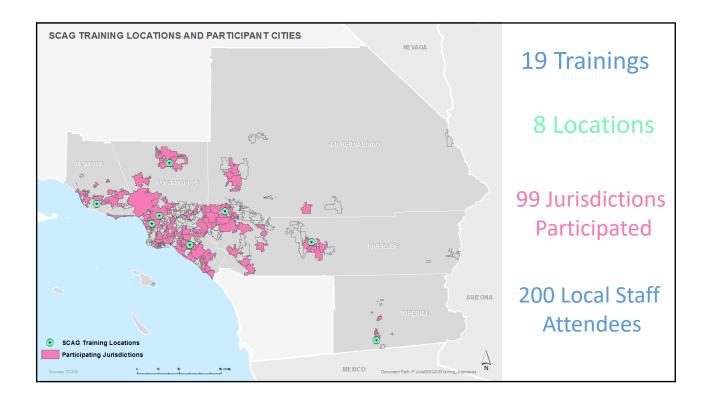


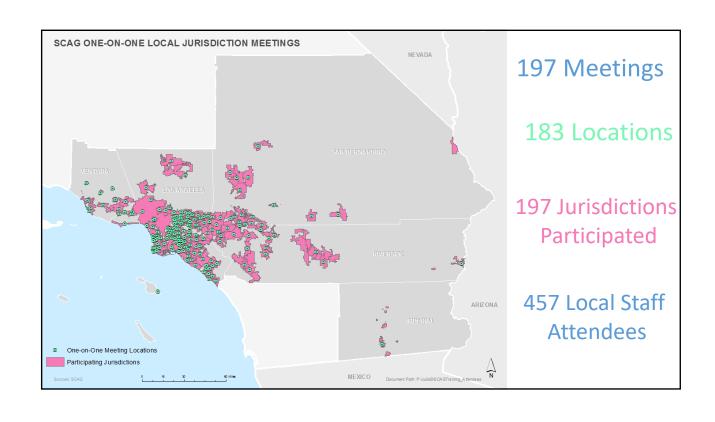
Sustainability Best Practices, Transit Supportive Measures

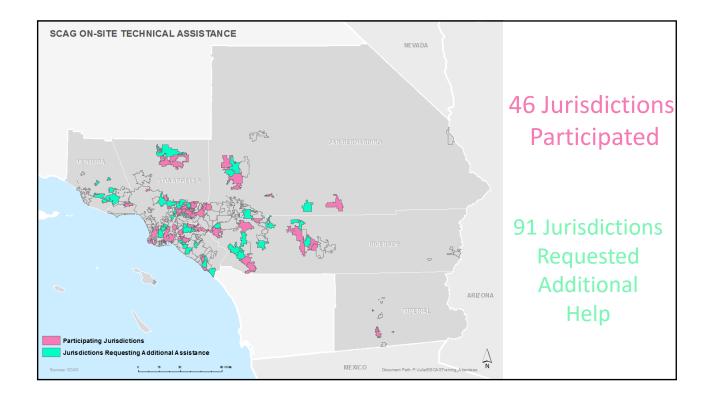
Bottom-Up Local Input and Envisioning Process Outreach to Date

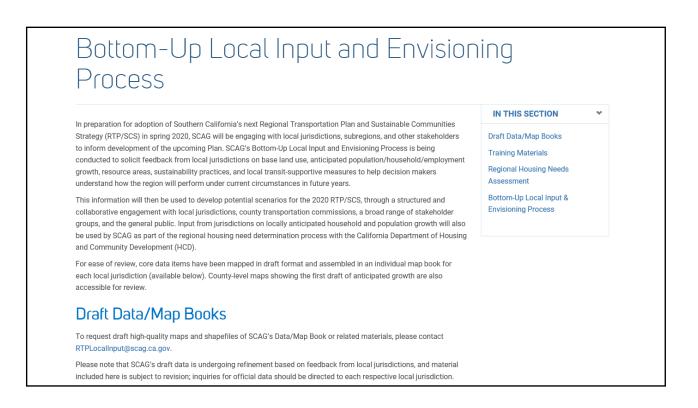
- (197) Letters and Work Plans Distributed to Local Jurisdictions
 - 197 One-on-One Meetings
 - 80 Jurisdictions Offered On-Site Technical Assistance
 - 21 Subregional Presentations
 - 19 Regional and Classroom-Style Trainings
- 1 City Council Study Session





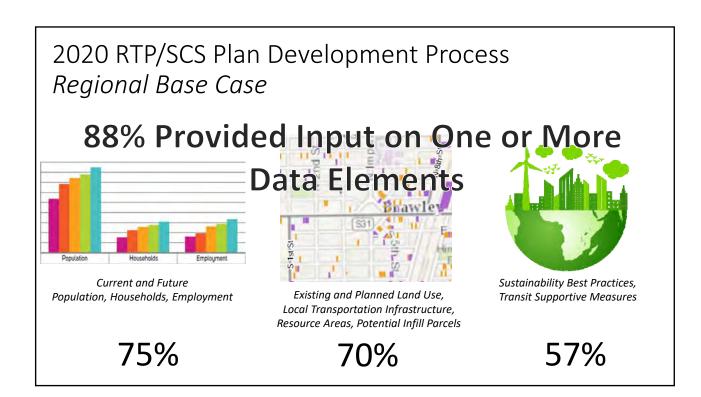


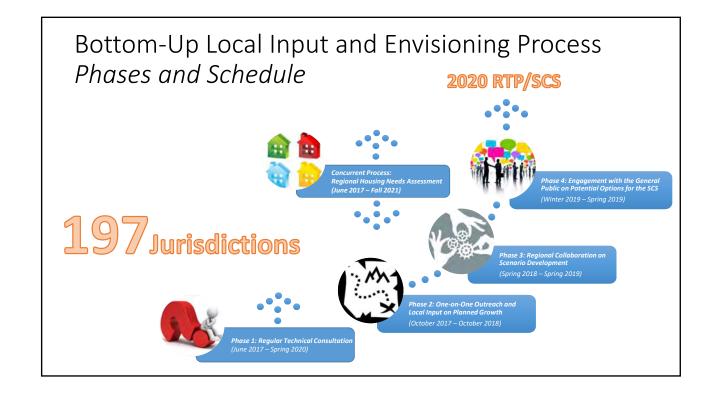
















Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

To: Transportation Committee (TC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Matthew Gleason, Senior Regional Planner, Transit/Rail, (213)

236-1832, gleason@scag.ca.gov

Subject: Transit Climate Adaptation and Resiliency Assessment

RECOMMENDED 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:

Work recently concluded on the Transit Climate Adaptation and Resiliency assessment, an 18-month effort to provide a toolbox of resources that local providers of public transportation could use to incorporate resilience to the impacts of global climate change into their planning, contracting, and asset management practices. The report below provides an overview of the project and its products.

BACKGROUND:

At its February 15, 2013 meeting, the High-Speed Rail and Transit Subcommittee directed staff to pursue efforts to improve the resiliency of the region's transit systems in the face of natural disasters. Subsequent to that direction, staff applied for and received a grant to assist local providers of public transportation incorporate climate change resiliency into their planning. The used to fund the production toolbox of grant was of a resources.

PROJECT AIMS AND OBJECTIVES:

The Transit Climate Adaptation and Resiliency effort sought to evaluate the potential effects of changes in climate stressors, and developed resources to aid local agency staff in incorporating climate change adaptation strategies into their planning processes, to ensure system resiliency. The study team developed a toolbox of resources, provided an asset class based inventory of regional transit assets, sought out regional climate forecast information, and performed a high level assessment of vulnerability to, and risk from, climate stressors. Work concluded in June 2018, and the resources are available at:

http://scagmain-auth/programs/Pages/Adaptation-and-Resilience-Planning.aspx.

This effort's methodology included producing a toolbox of resources to be used to identify critical assets and routes; integrate climate considerations into local and regional planning processes; and implement adaptation practices to improve transit system resilience while complying with state and



federal regulations. These resources were developed via a collaborative process with local agencies, through in-person workshops and panel reviews, to develop a toolbox of resources that will assist transit agencies in completing these activities with limited resources. This project, including the final "Climate Resilience Toolbox", achieved the following five objectives through engagement with transit agencies and completion of project deliverables:

- Objective 1 Provide an actionable climate adaptation and resilience plan. The Toolbox empowers transit agencies to conduct their own high level criticality and vulnerability assessments efficiently and cost-effectively, enabling them to quickly move to adaptation planning and implementation.
- Objective 2 Identify critical assets and routes. Through collaboration workshops with local transit agencies, resources for determining the criticality of existing transit assets were developed.
- Objective 3 Integrate climate change forecast data. The Toolbox provides guidance for transit agency staff seeking to access and apply local climate change projection data. The toolbox also includes a summary of projected changes in climate in the SCAG Region, reducing the need for transit agencies to locate and interpret projected climate trends themselves.
- Objective 4 Increase regional transit system disaster recovery and resilience. Collaborative workshops allowed us to work with local transit agencies to begin and continue to promote transit system resilience. The Toolbox also includes resources to assist agencies in pursuing climate resiliency initiatives.
- Objective 5 Support local planning efforts. The Toolbox includes guidance for integrating climate change information and considerations into existing processes, including those required by local or federal standards.

OUTREACH:

Local agency input was key to the effort. This study was presented to the Regional Transit Technical Advisory Committee in May 2017, November 2017, and April 2018.

In addition, there were three outreach workshops with invited staff from participating transit agencies. The first workshop focused on vulnerability and criticality. The consultant team shared climate forecast information and exposure maps, illustrated how routes might be exposed to key stressors, and provided guidance for obtaining climate information in a cost-effective manner. The second two workshops focused on potential adaptation strategies, evaluating their feasibility and effectiveness, and developing a framework for incorporating these strategies into normal agency processes, including planning, procurement, and asset management.



THE TOOLBOX:

The project team prepared a series of resources. The final adaptation toolbox includes eleven different elements, based on input from the workshop process, and intended to help guide providers to improve their resilience climate change related stresses.

#	Resource Name	Purpose
1	Projected Changes in	Overview of projected changes in sea level, extreme
	Climate in the SCAG	precipitation, inland flooding, and extreme heat across the SCAG
	Region	region.
2	Assessing Vulnerability	Guidance on articulating goals, refining the assessment focus, and
	and Consequences:	using available frameworks and other resources.
	Getting Started	
3	Integrating Climate	Overview of how climate change resiliency can be worked into
	Change into Transit	three key transit processes: procurement/contracting, transit
	Planning Processes	asset management, and short range transit plans.
4	How to Obtain Detailed	For some analyses, detailed data are needed. This resource
	Climate Projection Data	provides guidance on where and how to obtain this information.
5	Assessing Criticality	Some agencies may wish to focus efforts on the most critical
		components of their system. Different approaches for assessing
		criticality are discussed, and a scoring system to rank assets based
		on criticality is presented. The accompanying Excel spreadsheet
		helps automate criticality calculations.
6	Sensitivity Matrix	Simple to use Excel matrix discusses how common transit assets
		may be sensitive to changes in climate.
7	Example Adaptation	Discusses different categories of adaptation measures, and gives
	Measures	examples of actual adaptation measures being implemented by
		transit agencies. The accompanying Excel file allows these
		measures to be filtered by type.
8	Tips for Selecting and	Provides suggestions to consider when determining which
	Implementing Adaptation	adaptation measures are right for your agency.
	Measures	
9	Climate Resilience	Simple template that outlines roles, responsibilities, timelines,
	Planning Template	and key next steps in the resiliency planning process.
10	Contingency Plan	Template for developing a contingency plan in advance of
	Template	adverse climate events.
11	Transit Resiliency Funding	Profiles five state and federal grant programs that could be used
	Opportunities	to fund resiliency efforts.

FISCAL IMPACT:

This project is complete and was funded in the FY 2017-18 OWP under Work Element No 18-145.SCG03475.01. Work on this project was funded through a Caltrans FTA 5304 Statewide and Urban Transit Planning Grant.



Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

INTERIM

EXECUTIVE DIRECTOR'S

APPROVAL

To: Community

Economic & Human Development Committee (CEHD)

Transportation Committee (TC)

Energy and Environment Committee (EEC)

From: Grieg Asher, Program Manager I, Sustainability, (213) 236-

1869, asher@scag.ca.gov

Subject: 4th California Climate Change Assessment - SCAG Regional

Report

RECOMMENDED ACTION FOR EEC:

For Information Only - No Action Required

RECOMMENDED ACTION FOR TC AND CEHD:

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.

EXECUTIVE SUMMARY:

The State of California has released the Fourth Climate Change Assessment (Fourth Assessment) which provides the scientific foundation for understanding climate-related vulnerability at the local scale and informing adaptation actions. The Fourth Assessment seeks to promote effective and integrated action at the state and local level to safeguard California from climate change. The Fourth Assessment includes research on the SCAG region that was led by University of California Los Angeles (UCLA) researchers and affiliates. Dr. Neil Berg, Associate Director for the Center for Climate Science at the UCLA Institute of the Environment and Sustainability, served as the lead author for the Los Angeles Region report, and SCAG served on the Report's stakeholder advisory committee. Dr. Berg will brief the Committee on the Fourth Assessment, which summarizes the state of climate change in California, and will specifically focus on findings relevant to the SCAG region.

BACKGROUND:

California has produced periodic assessments on the potential impacts of climate change and reports on potential mitigations and adaptation responses. Required by California Executive Order #S-03-05 signed by Governor Schwarzenegger, these assessments influence legislation and inform policy makers. As a global leader in using, investing in, and advancing research to set proactive climate change policy, California's climate change assessments provide the scientific foundation for understanding climate-related vulnerability at the local scale and informing adaptation actions. The



assessments directly inform State policies, plans, programs, and guidance to promote effective and integrated action to safeguard California from climate change.

The Fourth Assessment was released in late August 2018, and focused reports were prepared for the Los Angeles and Inland Desert regions. Some key statewide findings include:

- The average annual maximum daily temperature is projected to increase by 5.6 − 8.8 degrees Fahrenheit by 2100.
- Water supply from snowpack is projected to decline by two-thirds by 2050.
- 31 to 67 percent of Southern California beaches may completely erode by 2100 without large-scale human interventions.
- Heat-Health Events (HHEs) will worsen drastically throughout the state; by 2050 heat waves
 in cities could cause 2-3 times more heat-related deaths, and vulnerable populations will
 experience the worst of these effects.

This cutting-edge research initiative is comprised of a wide-ranging body of technical reports, including rigorous, comprehensive climate change scenarios at a scale suitable for illuminating regional vulnerabilities and localized adaptation strategies in California; datasets and tools that improve integration of observed and projected knowledge about climate change into decision-making; and recommendations and information to directly inform vulnerability assessments and adaptation strategies for California's energy sector, water resources and management, oceans and coasts, forests, wildfires, agriculture, biodiversity and habitat, and public health. These technical reports have been distilled into summary reports and a brochure, allowing the public and decision-makers to easily access relevant findings from the Fourth Assessment.

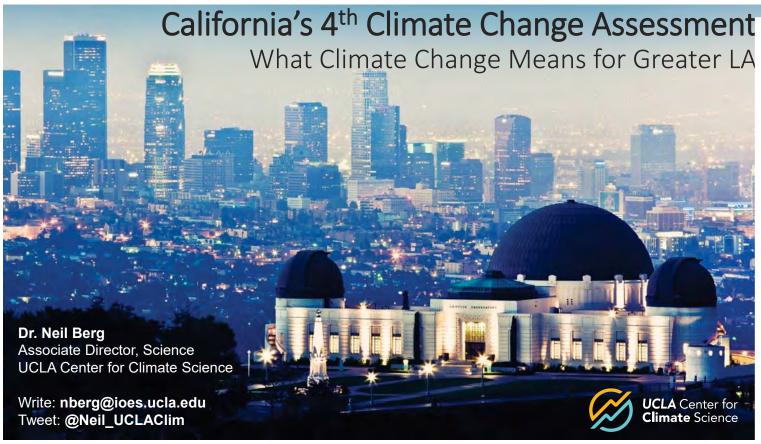
Dr. Neil Berg, Associate Director for the Center for Climate Science at the UCLA Institute of the Environment and Sustainability, will brief the Committee and describe the findings from the Fourth Assessment, which included over 50 technical studies and 9 regionally-focused reports. He will specifically address findings and conclusions applicable to the SCAG region.

FISCAL IMPACT:

No Fiscal Impact. This is not a SCAG funded project.

ATTACHMENT(S):

1. PowerPoint Presentation: 4th Climate Assessment



Overview: California's 4th Climate Change Assessment

http://www.climateassessment.ca.gov/

- · Understand climate-related vulnerability at local scales
- Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



Statewide Summary Report + special breakout reports on:

- Climate Justice
- Tribal and Indigenous Communities
- California's Ocean and Coast

Overview: California's 4th Climate Change Assessment

http://www.climateassessment.ca.gov/

- Understand climate-related vulnerability at local scales
- · Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



9 regional reports:

North Coast, Sierra Nevada, San Francisco Bay Area, San Joaquin Valley, Sacramento Valley, Central Coast, Los Angeles, Inland Desert, and San Diego

Overview: California's 4th Climate Change Assessment

http://www.climateassessment.ca.gov/

- · Understand climate-related vulnerability at local scales
- Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



44 technical reports:

Energy, water, agriculture, coasts, forests, public health, biodiversity, governance, and details on the projections, data, and tools from the Assessment.

Overview: California's 4th Climate Change Assessment

http://www.climateassessment.ca.gov/

- · Understand climate-related vulnerability at local scales
- · Inform resilience actions, State policies, plans, programs, and guidance
- · Promote effective and integrated action to safeguard California from climate change



6 tools:

- 1. Cal-Adapt
- 2. Cal-Heat
- 3. Coastal Storm Modeling System (CoSMoS)
- 4. Hazard Exposure Reporting and Analytics (HERA)
- 5. Adaptation Capability Advancement Toolkit (Adapt-CA)
- 6. CA Emergency Response Infrastructure Climate Vulnerability (CERA-Climate)

Highlights from the LA Regional Chapter



Los Angeles region topography and boundary definition as a solid red line, which encompasses Los Angeles, Ventura, and Orange Counties, and adjacent urbanized portions of San Bernardino and Riverside Counties.

Attachment: PowerPoint Presentation: 4th Climate Assessment (4th California Climate Change Assessment - SCAG Regional Report)

Highlights from the LA Regional Chapter

Climate Science

Impacts to Systems

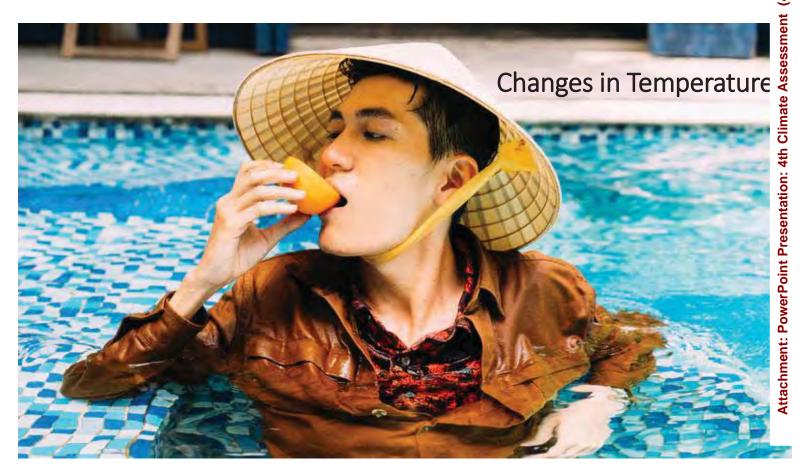
Highlights from the LA Regional Chapter

Climate Science	Impacts to Systems
Temperature	
 Precipitation 	
Extreme storms	
 Santa Ana winds 	
Sea level rise	
Wildfire	
 Drought 	
• Clouds	
Humidity	
Air quality	

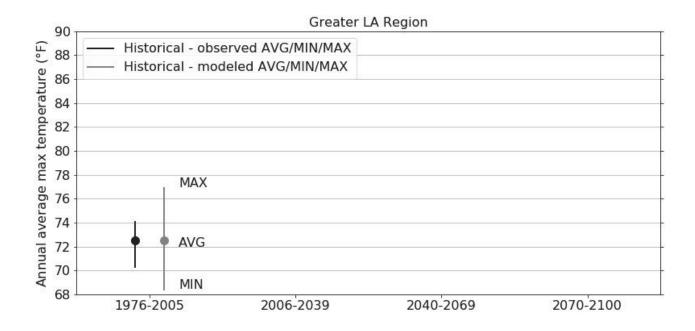
Attachment: PowerPoint Presentation: 4th Climate Assessment (4th California Climate Change Assessment - SCAG Regional Report)

Highlights from the LA Regional Chapter

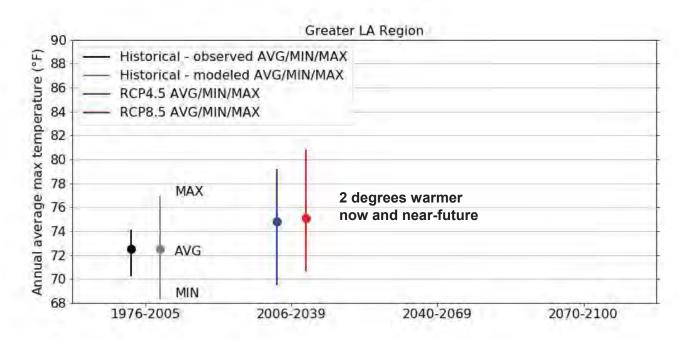
Climate Science	Impacts to Systems					
TemperaturePrecipitation	Human	Economic	Natural and Managed			
Extreme stormsSanta Ana winds	Public HealthEmergency	 Energy Transportation	WaterAgriculture			
Sea level riseWildfire	Mgmt. • Env. Justice	Land Use and Development	Veg & FloraOceans &			
• Drought	Env. Justice	Development	Coasts			
CloudsHumidity						
Air quality						



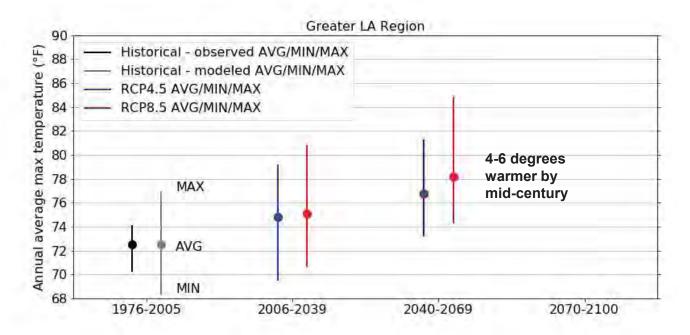
Higher Average Max Temperatures



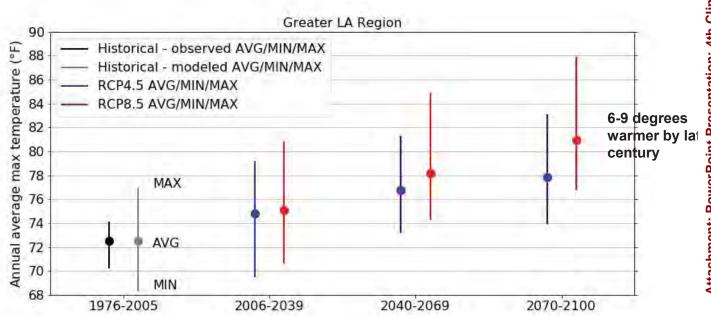
Higher Average Max Temperatures

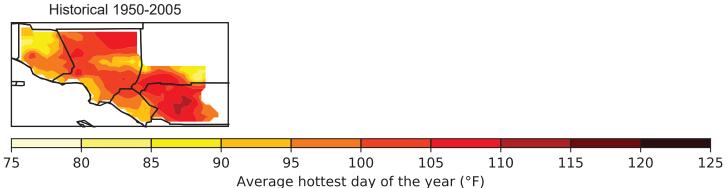


Higher Average Max Temperatures

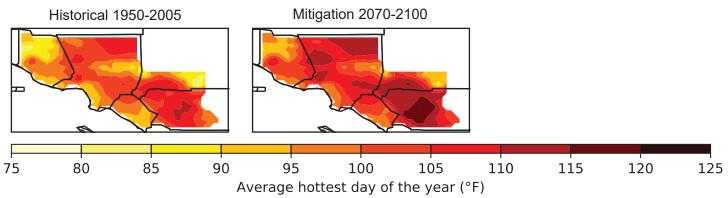


Higher Average Max Temperatures



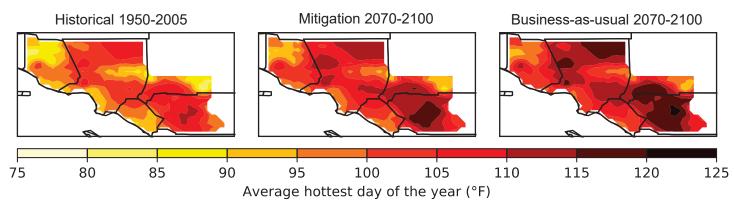


Even Hotter Hottest Day of the Year

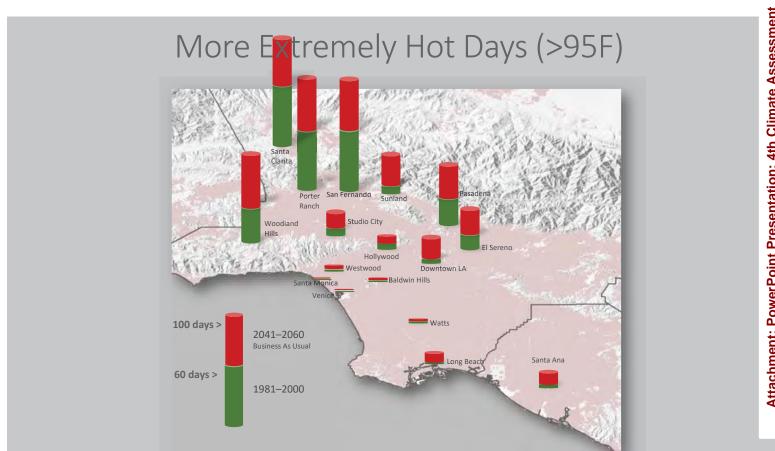


4-8 degrees warmer by late-century

Even Hotter Hottest Day of the Year



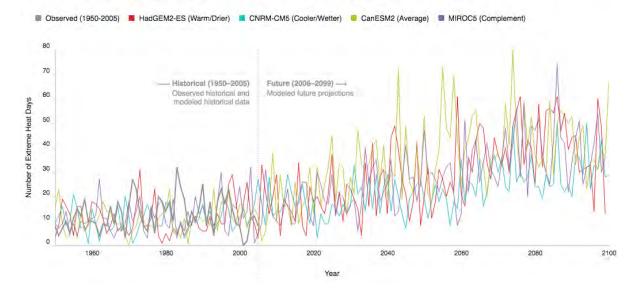
5-12 degrees warmer by late-century



Extreme heat tools: cal-adapt.org/tools/extreme-heat/

Number of Extreme Heat Days by Year

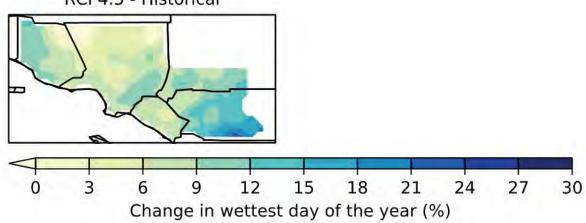
This chart shows number of days in a year when daily maximum temperature is above the extreme heat threshold of 90 °F. Data is shown for Grid Cell (34.03125, -118.28125) under the RCP 4.5 scenario in which emissions peak around 2040, then decline.





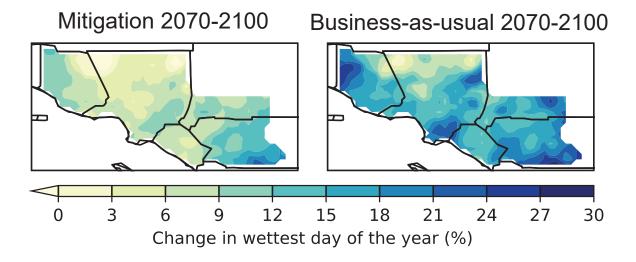
Even Wetter Wettest Day of the Year

Mitigation 2070-2100 RCP4.5 - Historical



Up to 15% wetter by the late-century

Even Wetter Wettest Day of the Year



Up to 30% wetter by the late-century



Attachment: PowerPoint Presentation: 4th Climate Assessment (4th California Climate Change Assessment - SCAG Regional Report)

More Extremely Dry Years like 1976-1977



Swain et al. (2018) Increasing Precipitation Volatility in 21st Century California. Nature Climate Change.

http://framework.latimes.com/2014/06/23/1976-california-drought/

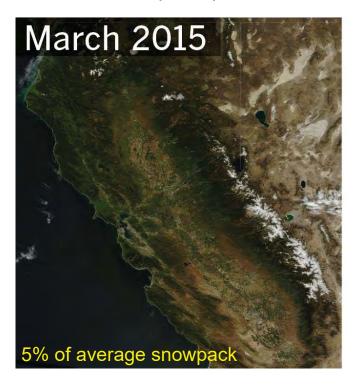
More Extremely Dry Years like 1976-1977



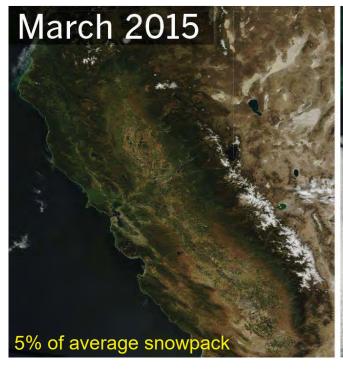
Swain et al. (2018) Increasing Precipitation Volatility in 21st Century California. Nature Climate Change.

http://framework.latimes.com/2014/06/23/1976-california-drought/

More Extremely Dry to Extremely Wet Years: "whiplash"

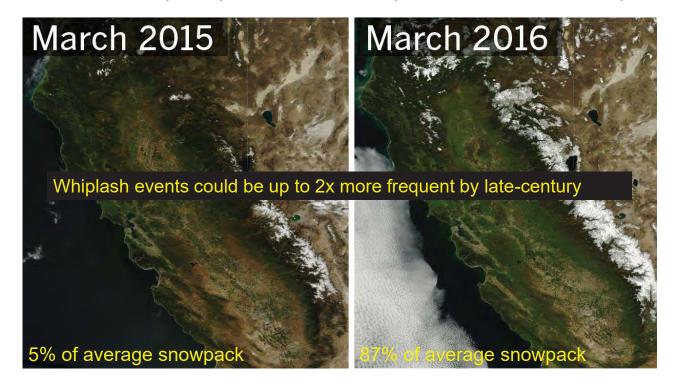


More Extremely Dry to Extremely Wet Years: "whiplash"



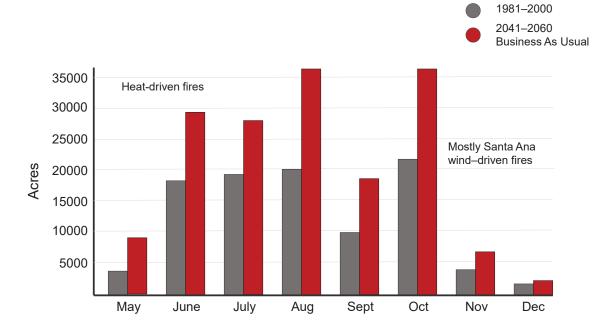


More Extremely Dry to Extremely Wet Years: "whiplash"



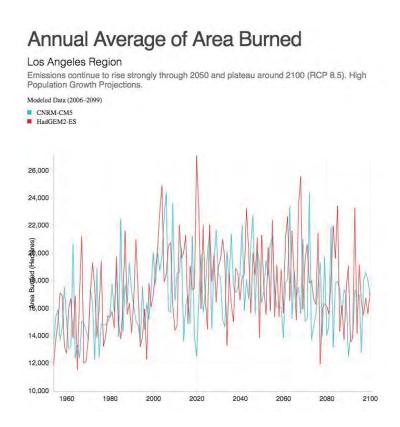


Increased Area of Wildfire



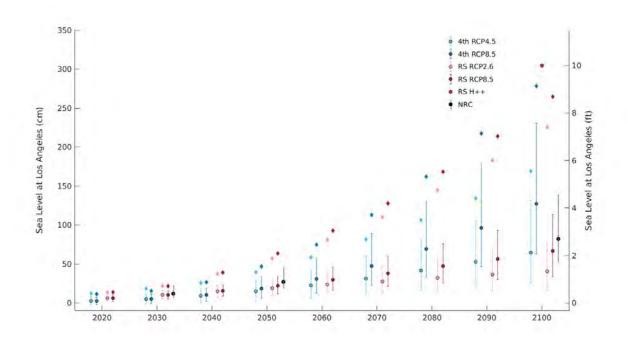
Jin et al. (2015). Identification of two distinct fire regimes in Southern California: implications for economic impact and future change. ERL.

Wildfire tools: cal-adapt.org/tools/wildfire/





Los Angeles SLR Projections Through 2100



CoSMoS Model and Mapping Tool

http://data.pointblue.org/apps/ocof/cms/

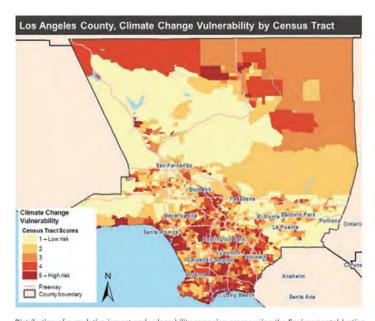
Our Coast Our Future (OCOF) hosts the data visualization tool for different SLR scenarios and storm types for the entire CA coastline.

The image to the right is for ~6 ft SLR + 20-year storm event.



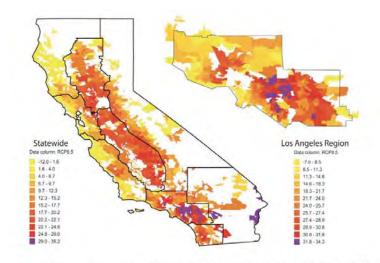
Environmental Justice

Vulnerability map for LA County that considers future climate change.



Distribution of cumulative impact and vulnerability screening scores using the Environmental Justice Screening Method (Sadd et al. 2011) that includes a climate change impacts score. The impact is more concentrated in urban portions of the region. (Map from English, et.al, 2013: https://escholarship.org/uc/item/8h669570)

Increased Energy Demand



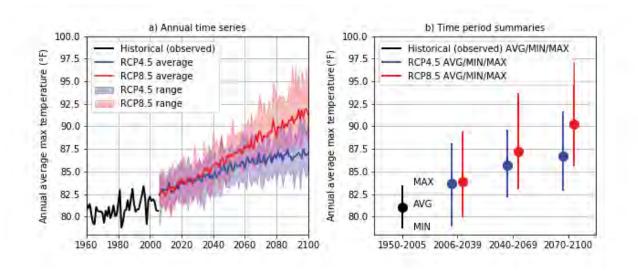
Forecasted percentage increases in total annual electricity consumption by zip code by the year 2100 under RCP8.5 (Auffhammer 2018).

The highest projected increases in electricity demand by 2100 across the entire state are within the LA region.

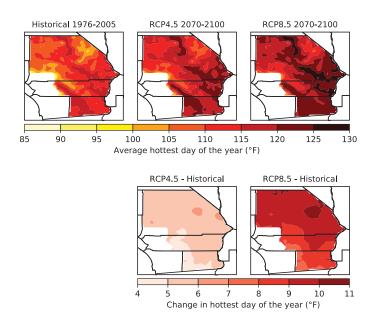
Inland Desert Highlights



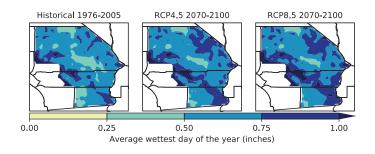
Rising Temperatures Throughout the 21st Century

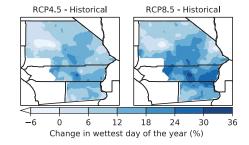


Even Hotter Hottest Day of the Year



Even Wetter Wettest Day of the Year









Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

To: Transportation Committee (TC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Naresh Amatya, Manager, Planning Division, (213) 236-1885,

amatya@scag.ca.gov

Subject: The Role of Renewable Natural Gas in Transportation -

Addressing California's Environmental Challenges

RECOMMENDED ACTION:

For Information Only – No Action Required.

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 4: Provide innovative information and value-added services to enhance member agencies' planning and operations and promote regional collaboration.

EXECUTIVE SUMMARY:

This report updates TC members on the Southern California Gas Company's efforts to help California meet its greenhouse gas reduction goals. Mr. Ken Chawkins, Business Policy Manager of Southern California Gas Company, will provide a presentation and update the committee.

BACKGROUND:

The energy needs in the State of California are vast. With new climate goals for years 2030 and 2050, the need to have energy be safe, reliable, affordable and clean make the challenge of providing that energy complicated.

The Southern California Gas Company will present on how natural gas and renewable natural gas must be part of an integrated solution if California is to achieve its goals quickly and efficiently. This presentation will highlight a few of the natural gas technologies available as part of the effort.

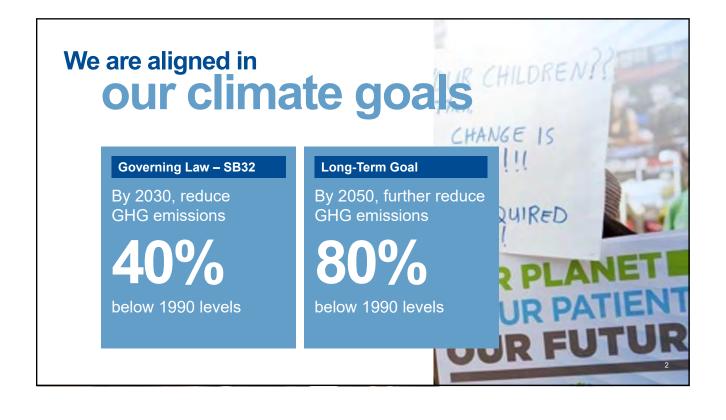
FISCAL IMPACT:

None.

ATTACHMENT(S):

1. Natural Gas

Natural Gas – Part of a Balanced Energy Approach that Can Work for Everyone SCAG Transportation Committee - November 1, 2018 Ken Chawkins, SoCalGas Business Policy Manager



But First – Good Old Fashioned SMOG

- Two (2) Air Basins in Extreme Nonattainment for Ozone Pollution
 - Extreme: 8 hour Ozone >0.175 ppm
 - South Coast & San Joaquin Valley
- Pollution
 - NOx => O₃ (Ozone) = Smog
 - Particulate Matter (PM) get trapped deep in lungs and potentially blood
 - Causing
 - Asthma
 - Heart/lung disease
- Sources?

https://www.arb.ca.gov/consprod/geninfo/cpsmog.htm

We have a **CLEAR FOCUS: Transportation** 80% of the region's SMOG Major Ozone (NOx) Emission Nearly 40% Heavy-Duty Diesel Trucks Off-Road Mobile Equipment of its GHG emissions ■ RECLAIM Ocean Going Vessels ■ Locomotives ■ Cars/Light-Duty Trucks/SUVs Electricity Residential ■ Aircraft Generation (In ■ Manufacturing and Industrial State) ■ Residential Fuel Combustion ommercial 11% ■ Heavy-Duty Gas Trucks Commercial Harbor Craft <1% ■ Service and Commercial Buses ■ Medium-Duty Trucks Recreational Boats sportation Other Source Draft 2016 AQMP Emissions Planning Inventory - January 2016 2015 Total CA Emissions: 440.4 MMTCO26

NGV Game Changer:

NEW "NEAR-ZERO" TRUCK ENGINE TO BE READY FOR PRIME TIME



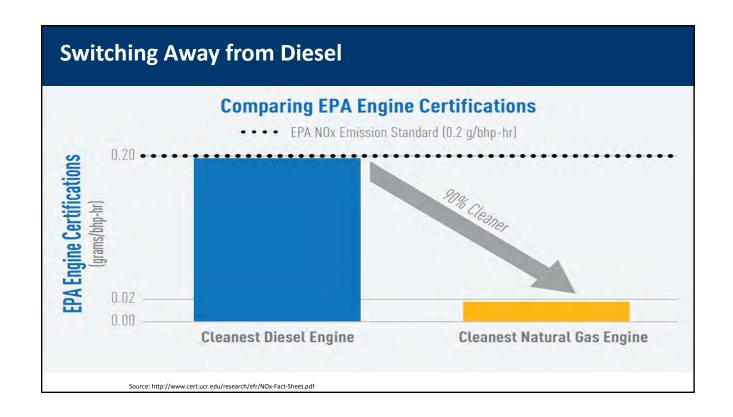
- Heavy Duty truck engine with 90% lower NOx emissions TODAY
- Tailpipe emissions are the same as emissions from generating electricity to run a similar electric truck
- For Goods Movement, this truck will meet California's ambitious 2050 targets decades before any other technology
- RNG already delivering greatest GHG reductions from diesel TODAY?

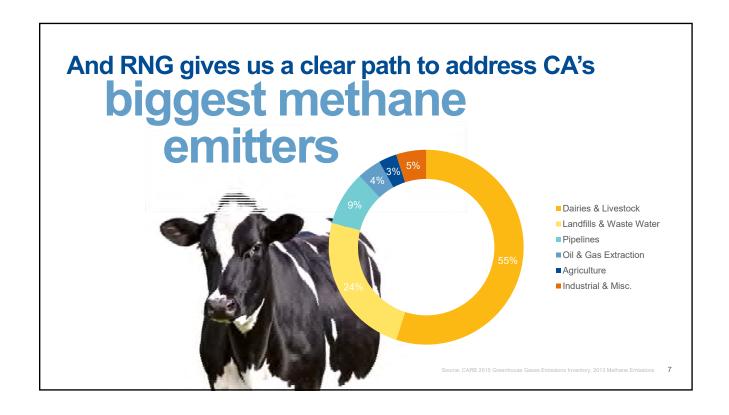
Near-Zero Emissions Natural Gas Engine

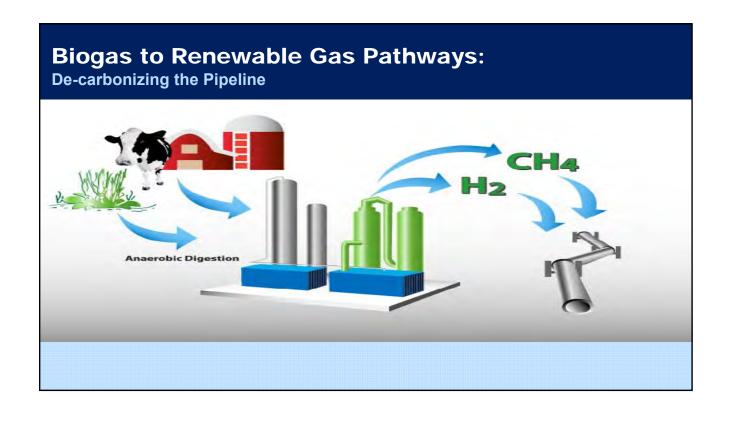
<0.02 g NOx 90% NOx reduction

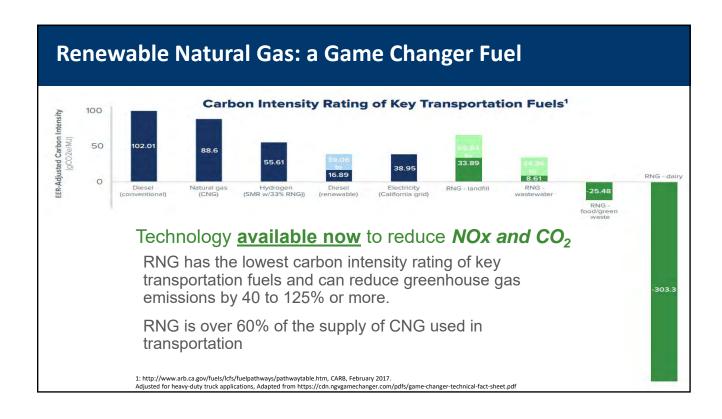
Renewable Natural Gas as Transportation Fuel

> 80% GHG reduction









CNG Fueling Infrastructure 378 stations in CA 165 are open to the public Grant financing available for CNG station building CNG does not have time dependent premium pricing

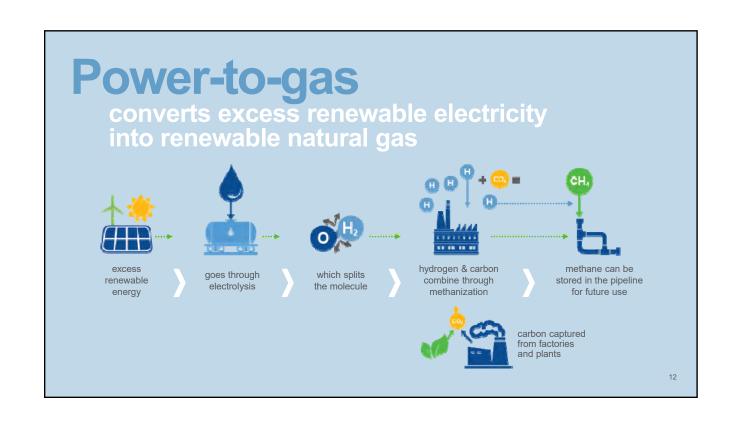
CNG Public Fueling Infrastructure

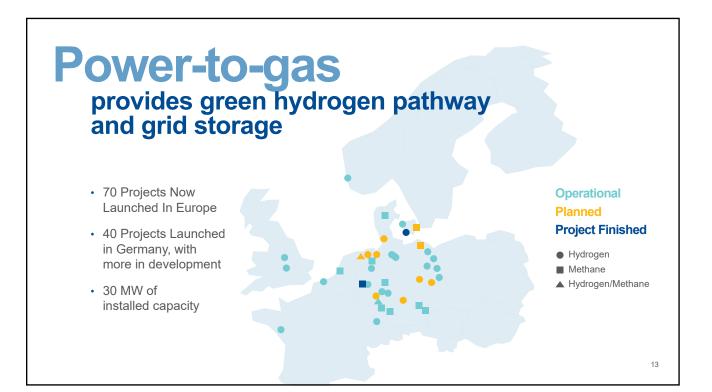
Public "fast-fill" stations



- · On-the-go fueling
- · Can accommodate all vehicle classes
- · Fueling speeds equivalent to diesel







Recap

Natural Gas in Transportation

- Environmental advantages over diesel / NOx and GHG
- Next-generation Low-NOx CNG engines Available NOW
- CNG range and performance equivalent to diesel
- RNG from zero to negative carbon
- Power To Gas Uses NG pipelines as grid scale storage and enables renewable energy





Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

To: Transportation Committee (TC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Mike Jones, Senior Regional Planner, Goods Movement &

Transportation Finance, (213) 236-1978, jonesm@scag.ca.gov

Subject: Promoting Sustainable Transport Solutions – Volvo Group

RECOMMENDED ACTION:

For 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 Volvo Group is a leading manufacturer of trucks, buses, construction equipment, and drive systems for marine and industrial applications. The Volvo Group solutions to global challenges are driven by its mission to drive prosperity through transport solutions and its vision to be the most desired and successful transport solution provider in the world. Innovations within transport will reshape the cities of tomorrow. Automated driving, electromobility, and connected vehicles will allow for quieter, cleaner and safer megacities to grow and prosper. Keeping this in mind, Aravind Kailas from the Volvo Group will discuss Volvo's preparation for the emerging connected and autonomous vehicle ecosystems.

BACKGROUND:

The Volvo Group is one of the world's leading manufacturers of trucks, buses, construction equipment and marine and industrial engines. The Group also provides complete solutions for financing and service. Recognizing that innovations within the transport sector will reshape the cities of tomorrow, the Volvo Group is pursuing a variety of initiatives globally in vehicle automation, electromobility, and connected solutions that will enable safer, cleaner and quieter megacities to grow and prosper. In fact, connectivity is one of the key technology areas for Volvo Group, and an enabler for some automation and electromobility solutions.

The technology choices will be determined by its added value for customers and society, and will be introduced in real customer operations gradually. For example, the autonomous mining truck in the mines at Boliden, Sweden have not only enhanced safety (for humans at the mining sites), but are also starting to show productivity efficiencies. Working with as many as sixteen partners from the public and private sectors, the electric bus (Route 55) in Gothenburg, Sweden is another success story to make cities cleaner and quieter.





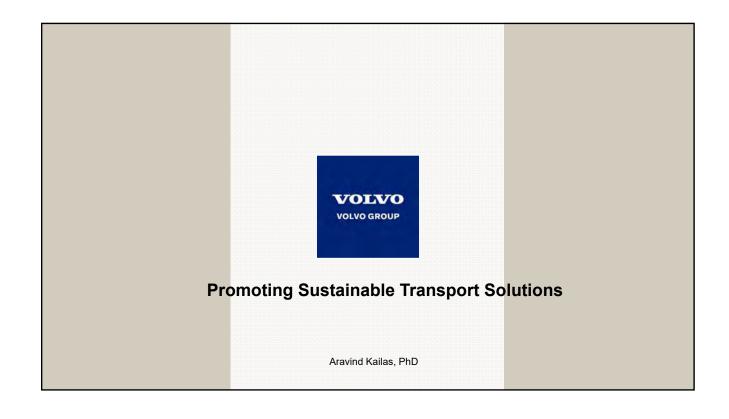
Aravind Kailas from the Volvo Group will discuss his role, and present a ringside view of select Volvo Group initiatives to develop and commercialize sustainable transport solutions by engaging public agencies and local communities, both globally and in the US.

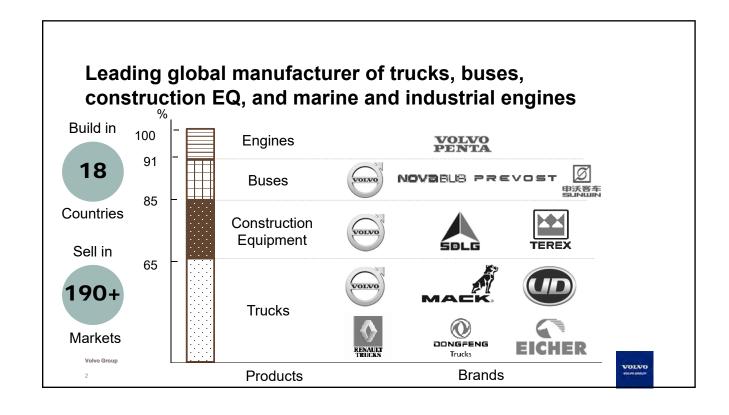
FISCAL IMPACT:

No Fiscal Impact

ATTACHMENT(S):

1. PowerPoint Presentation: Volvo Group





Globally, the group is pushing ahead to commercialize sustainable transportation products at a rapid pace













olvo Group

3

Volvo aims to sell electric trucks in North America by 2020.

VOLVO

Many initiatives in CA to develop and demonstrate environmentally sustainable transport solutions







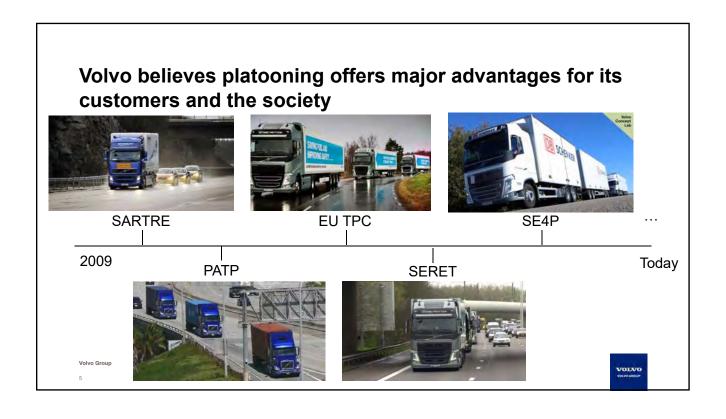


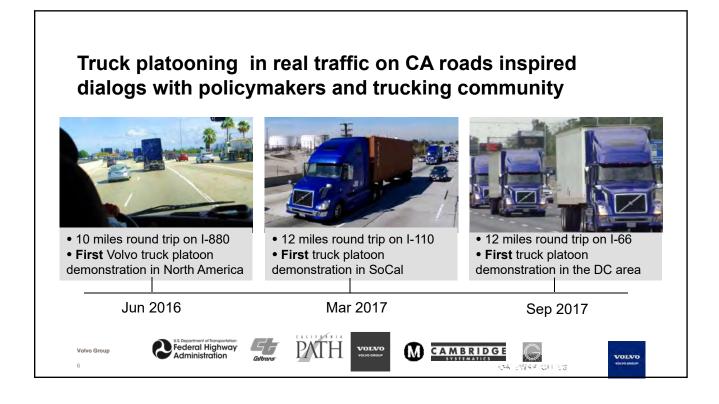


VOLVO GROUP

Volvo Group

4





Increasing momentum around technology policies and deployment guidelines is needed



Connectivity and automated driving will allow for cleaner and safer megacities to grow and prosper



Working with LD OEMs + public agencies to test and deploy V2X technologies to increase road safety





Nov 2015

First-ever testing of V2I apps on public roads in Farmington Hills, MI

Mar 2016

First-ever FHWA V2I demonstration in Fowlerville, MI

Oct 2016

Testing on public roads and live work zones in MI

Jan 2017

First-ever V2I demonstration in Washington, DC

Sep 2017

Seminal efforts for standardization and harmonization of V2I across US - in MI, TX, AZ,

CA, ...

U.S. Department of transportation Federal Highway Administration















Two California projects with a <u>common goal</u> to implement and evaluate eco-driving on arterials near the ports

Plug-in Hybrid Electric Vehicle (PHEV) Ultra Eco-Freight Advanced Traveler Information Systems (FRATIS)

























Onboard app

Cloud-based app

Volvo Group

VOLVO VOLVO GROUP

Pooling resources has resulted in the <u>first ITS corridor</u> at the ports, spanning <u>6-8 miles</u>, <u>demo planned for 2/8</u>



11



Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

INTERIM

EXECUTIVE DIRECTOR'S

APPROVAL

To: Community

Economic & Human Development Committee (CEHD)

Energy & Environment Committee (EEC)

Transportation Committee (TC)

From: Mike Jones, Senior Regional Planner, Goods Movement &

Transportation Finance, (213) 236-1978, jonesm@scag.ca.gov

Subject: Transportation Electrification Partnership – Los Angeles

Cleantech Incubator

RECOMMENDED ACTION:

For 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 Los Angeles Cleantech Incubator (LACI) is advancing the Transportation Electrification Partnership, an unprecedented collaboration among regional stakeholders to accelerate transportation electrification and zero emissions goods movement by 2028, coinciding with the 2028 Olympic and Paralympic Games in Los Angeles. LACI represents an alliance among the Office of the Mayor of Los Angeles, Los Angeles area universities and research organizations (i.e., UCLA, USC, Caltech, and Jet Propulsion Laboratory), the Los Angeles County Economic Development Corporation (LAEDC), the Los Angeles Business Council, the Los Angeles Area Chamber of Commerce, Los Angeles Department of Water and Power (LADWP) and the CRA/LA. As an organization, LACI aims to advance the commercialization of clean technologies and accelerate the development of innovative products by independent entrepreneurs. Through its 2028 Zero Emissions Roadmap, LACI intends to move the region toward transportation to achieve key goals including meeting statewide greenhouse gas (GHG) emissions targets, improving regional air quality, and ensuring that an autonomous future is shared and electric.

BACKGROUND:

On September 13, 2017, Los Angeles Mayor Garcetti signed the host city contract with the International Olympic Committee which fully committed the City of Los Angeles to serving as the host of the 2028 Olympic and Paralympic Games. Building on Los Angeles' historic success in hosting the Games in 1932 and 1984, and following recent precedent set by London, England during the 2012 Olympic and Paralympic Games, Los Angeles intends to rely heavily on existing venues and event infrastructure. However, a significantly larger regional population and expected attendance will drive Los Angeles, and the region itself, to plan for the additional critical transportation necessary infrastructure to accommodate the Games. While this will be a challenge, it also offers the opportunity for the region to expedite sorely needed projects. The region is already pursuing



strategies to realize these opportunities, such as the "Twenty-Eight by 28" initiative being considered by the Los Angeles County Metropolitan Transportation Authority (Metro). Recognizing this opportunity, and consistent with recent approved legislation such as California Senate Bill 100 (SB 100) which sets an aspirational goal of California getting its power from 100 percent renewable sources by 2045, Los Angeles Cleantech Incubator (LACI) has set a goal of reducing greenhouse gas (GHG) emissions and air pollution by 25 percent by 2028 in the region through development of the 2028 Zero Emissions Roadmap (Roadmap).

LACI is a non-profit organization funded by the CRA/LA and the Los Angeles Department of Water and Power (LADWP). In partnership with the city's exceptional educational and research organizations – University of California Los Angeles (UCLA), University of Southern California (USC), California Institute of Technology (Caltech), and NASA Jet Propulsion Laboratory (JPL) – LACI helps accelerate the commercialization of clean technologies and accelerate new products developed by independent entrepreneurs. LACI is a result of the Clean Tech Los Angeles (CTLA) alliance among the Office of the Mayor of Los Angeles, Los Angeles area universities and research organizations (i.e., UCLA, USC, Caltech, and Jet Propulsion Laboratory), the Los Angeles County Economic Development Corporation (LAEDC), the Los Angeles Business Council, the Los Angeles Area Chamber of Commerce, Los Angeles Department of Water and Power (LADWP) and the CRA/LA.

With a focus on overall mobility, LACI's Roadmap operates within the framework of four guiding principles: 1) ensuring that people and goods can move emissions-free throughout the region when they arrive for the Games, 2) eliminating anxiety related to range distances by ensuring sufficient charging infrastructure for vehicles, 3) enhancing quality of life through improved car quality, jobs, and access to mobility, and 4) growing the regional economy through transportation electrification. The Roadmap recognizes a future grid infrastructure that is dependent on renewable energy and able to meet the increased demands from vehicle electrification. Achieving this end goal will ensure that the transition to electrified passenger cars and trucks is frictionless for consumers and businesses, and integrates emerging technologies. To achieve this, the Roadmap seeks to expand electrical grid infrastructure in a way that ensures resilience and promotes electric vehicle adoption at scale. The initiative focuses strongly on the movement of people and goods.

For goods movement, the Roadmap acknowledges that medium and heavy-duty long-haul and drayage trucks comprise the second largest categories of GHG emissions in the transportation sector, and goods movement represents the region's largest source of air pollution. This category represents a streamlined effort to map out the future of zero emissions goods movement in the region. To improve freight efficiency and the transition of goods movement modes to zero-emissions technologies, the Roadmap aims to ensure that infrastructure planning and investments support modern zero-emission freight corridors in a way that increases competitiveness and future economic growth for the region and state. Some of the identified goals include:

- Goods movement charging infrastructure: 10,000-100,000 zero emission chargers installed for goods movement;
- Heavy-duty drayage trucks: 10-40% of drayage trucks on the road are zero emissions;
- Heavy-duty long-haul trucks: 5-25% of trucks on the road are zero emission vehicles;



- Medium-duty delivery trucks: 25-50% of medium-duty delivery trucks are electric;
- Marine shipping and freight terminals: Begin electrification of shipping and freight rail in the region; and
- Aerial: Ensure local delivery drones are electric.

The movement of people is also a significant focus of the Roadmap. Passenger vehicles including cars, SUVs, large pickups, and vans are the largest emitting group of transportation vehicles and represent the greatest opportunity for transportation electrification. The Roadmap also addresses public buses and light rail transportation, along with first mile and last mile solutions that increase transit ridership as well as encourage walking and biking. The Roadmap endeavors to ensure: 1) equal access to zero-emission transportation options that are cost-competitive, safe, and convenient, 2) an autonomous future is electric and does not increase vehicle-miles-traveled (VMT), and 3) that first and last mile electric options complement the region's public transit network. Some of the identified goals include:

- Charging infrastructure: 60,000 to 130,000 public chargers installed;
- Light-duty private vehicles: 20-45% of all light-duty private vehicles on the road are electric;
- Shared cars: 50-100% of shared cars are electric;
- Local transit: 80-100% of Metro and LADOT buses on the road, and 100% of new buses being introduced are electric;
- Commuter rail: Begin planning for electrification of one or more commuter rail lines with key partners;
- Light electric vehicles (LEVs): All disadvantaged communities with a walk score of less than 65 have LEV hubs to reduce single-occupancy vehicle (SOV) trips; and
- Aerial: Ensure short-haul and VTOL transit is electric.

FISCAL IMPACT:

No Fiscal Impact.

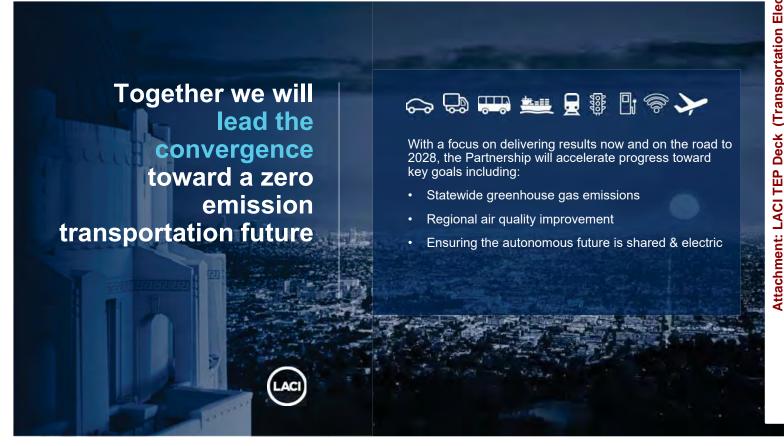
ATTACHMENT(S):

1. LACI TEP Deck













The Zero Emissions 2028 Roadmap will set ambitious targets to accelerate shared goals for mobility in SoCal and zero emissions transportation statewide



Starting from a strong baseline of existing regional emissions, transportation & statewide goods movement

(e.g. Sustainable City Plan, CARB scoping plan, etc.)

Identify Gaps

In funding, technology, infrastructure, rules, & market signals, etc.

Set Ambitious yet Achievable Goals & Prioritize

Setting shared goals for policies, projects, & initiatives needed to accelerate emissions reductions, regional transportation, & statewide goods movement

Imagine the Future

Scenarios for LA's land use future with shared, electric AVs

Integrate Partners

Working groups & key partners (e.g., Metro's Office of Extraordinary Innovation, AQMD, etc.)

The partnership will accelerate zero emissions goods movement statewide to improve air quality other measures. and reduce greenhouse gas (

Goods movement is the single greatest source of air emissions in greater Los Angeles, and is a major contributor to GHGs statewide. The partnership will:

- Work with CARB to release an RFI for the 100 EV trucks pilot called for in the Joint Clean Air Action Plan.
- Conduct a study of the I-5 Corridor, including the infrastructure needs for electric heavy duty trucks, technology gaps, anticipated air quality benefits, and
- Create a zero emissions goods movement pilot along the I-5 Corridor (e.g., along the Grapevine).
- Partner with the Climate Mayors to advance their Green Ports Collaborative with West Coast port cities.





	2018 ACTIC	N PLAN	
	MAY	Announce goals and la Electrification Partners	aunch LACI Transportation ship
Our inaugural 2018 action plan and 10 year timetable	SUMMER	Launch mobility techno Release RFI for EV tru	Map partner and advisory oblogy & start up competition acks
demonstrate the partnerships near-and long-term ambitions	FALL	Unveil 2028 ZE Roadmap Global Transportation Summit	
	WINTER	Announce start up competition winnersFirst pilot launch	
	10 YEAR TI	10 YEAR TIMETABLE	
	ANNOUNCE YEAR 1	DEVELOP & TEST YEAR 2 TO 6	DELIVER YEAR 7 TO 10
LACI	 See 2018 Action Plan 	 Lessons from pilots Policy development Pilots & Test Bed(s) Start up convening LACI Expansion/Mobility 	Unveil tech expansion Continue partnerships 2028 Games Preview Showcase Successes Lab



Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

To: Transportation Committee (TC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Annie Nam, Manager of Goods Movement, Goods Movement

& Transportation Finance, 213-236-1827, Nam@scag.ca.gov

Subject: Virgin Hyperloop One Presentation

RECOMMENDED ACTION:

For 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:

Tony Bauer, Senior Tunnel Engineer of Virgin Hyperloop One, will present an overview the company's hyperloop system.

BACKGROUND:

Hyperloop is a vision for a ground-transport system that would travel faster than a commercial airliner and at a fraction of the price. The concept was initially popularized by "Hyperloop Alpha", a paper produced by Elon Musk in 2013. Practically, hyperloop is expected to offer substantial speed for the transport of cargo, with top speed estimates of up to 620 miles per hour (mph). At the end of 2017, Virgin Hyperloop One set a test speed record of nearly 240 mph during its third phase of testing at DevLoop, the world's first full-scale hyperloop test site.

In May 2018, it was announced that the Dubai-based terminal operator DP World and Virgin Hyperloop One formed a joint venture to expedite the implementation of hyperloop for land cargo transportation. A focal point for hyperloop is global e-commerce, which is projected to grow to a \$4.1 trillion industry over the next few of years. Based on recent published information, hyperloop costs are expected to be about 50-percent greater than trucks, but taking only 16 hours versus a 4-day shipment. Compared with air cargo, costs are estimated to be only one-eighth of the cost, with some time savings.

Within the United States, the company has partnered in Missouri and Texas where hyperloop feasibility studies are currently underway in select corridors. Earlier this year, the Mid-Ohio Regional Planning Commission (MORPC) announced it will be conducting two studies related to hyperloop including a feasibility study, followed by components of an environmental study of a corridor connecting Chicago, Columbus, and Pittsburgh.





Tony Bauer, Senior Tunnel Engineer of Virgin Hyperloop One, will present an overview of the company's hyperloop system for the Committee's information.

FISCAL IMPACT:

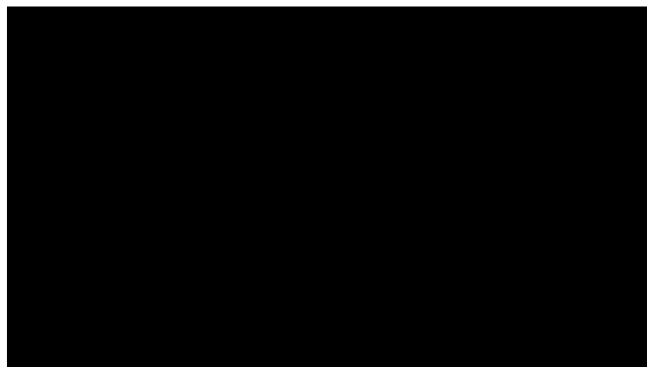
None.

ATTACHMENT(S):

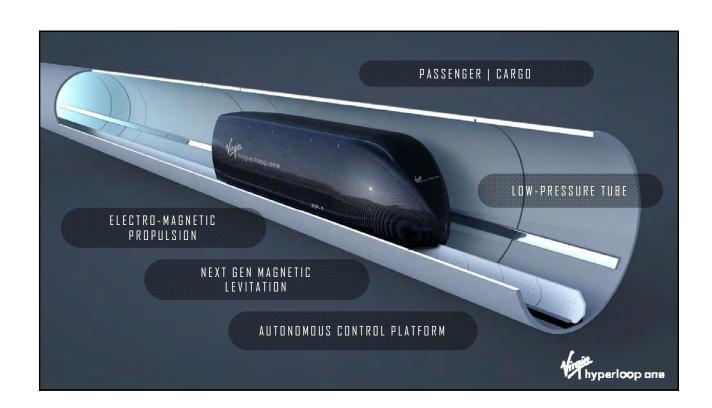
1. PowerPoint (and video) Presentation: Virgin Hyperloop



VIDEO WILL BE SHOWN

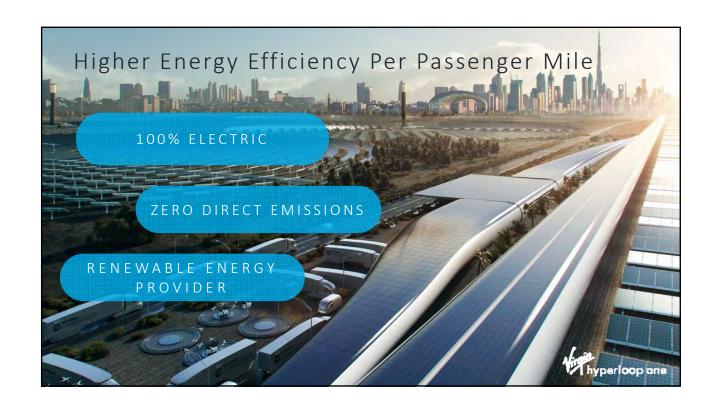






300 m/s 1080 km/h 671 mph

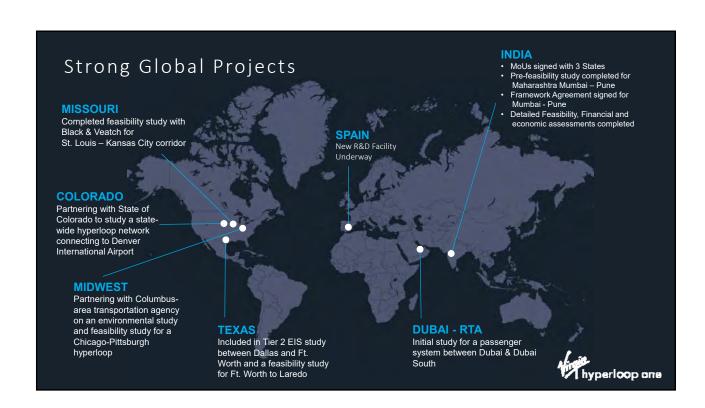


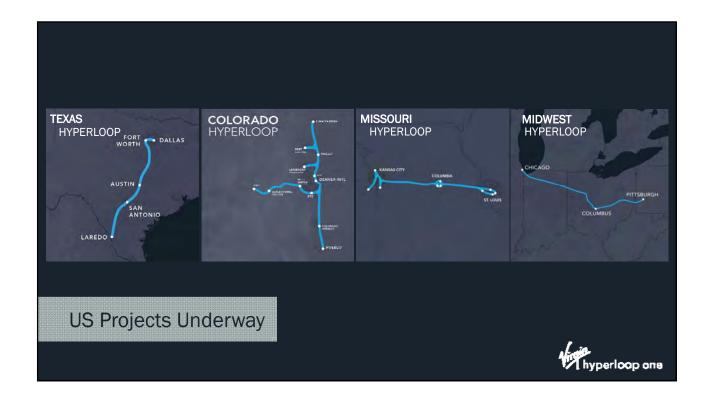








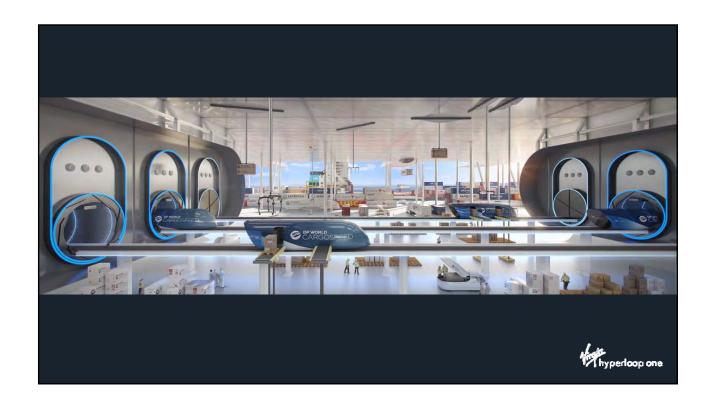




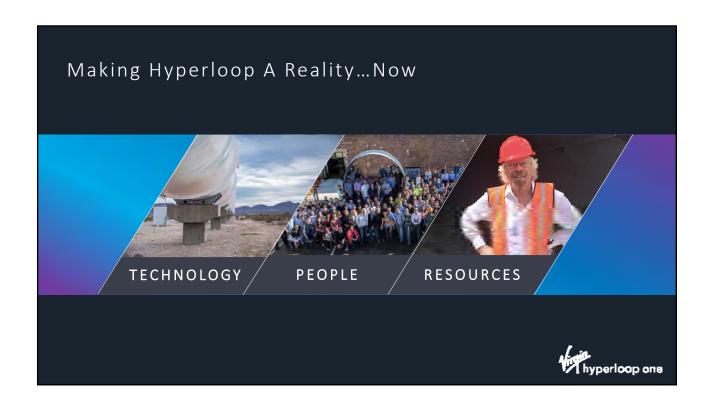
















Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

To: Transportation Committee (TC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Stephen Yoon, Senior Regional Planner, Goods Movement &

Transportation Finance, 213-236-1991, yoon@scag.ca.gov

Subject: RCTC Logistics Fee/Truck Study

RECOMMENDED ACTION:

For 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. 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:

The impact of trucks and other traffic associated with warehousing and logistics uses has increasingly emerged as an issue of concern in Riverside County as more of these developments are located within the county. The issue of adequate mitigation of the impacts of these uses on regional freeways recently culminated with a multi-party lawsuit involving mitigation of the Highland Fairview development in Moreno Valley. As part of a settlement agreement between the respective parties to the lawsuit, it was agreed that the Riverside County Transportation Commission (RCTC) would undertake a regional truck study to verify the cumulative level of impact of warehousing and logistics uses on the freeway system in Riverside County as the basis for establishing a regional logistics mitigation fee. The RCTC Truck Study (Study) and Development and Implementation of Regional Logistics Mitigation Fee are intended to verify the anticipated rate of growth in warehousing and logistics-related development in Riverside County, and to quantify the associated level of traffic impacts on the Riverside County highway system because of the expected growth in warehousing and logistics activities. In quantifying impacts, the Study is also intended to determine the amount that each new warehousing or logistics development should pay in lieu of completing actual freeway improvements to mitigate the cumulative regional traffic impacts specifically associated with truck trips generated by new warehousing and logistics developments. The findings of this Study are intended to provide the framework for implementing a program to collect impact fees that will contribute to mitigating the truck traffic impacts associated with new warehousing and logistics developments in Riverside County. RCTC staff will provide an overview presentation of the Study.

STRATEGIC PLAN:





This item supports SCAG's Strategic Plan, Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians, Objective A: Create plans that enhance the region's strength, economy, resilience and adaptability by reducing greenhouse gas emissions and air pollution. Objective B: Be the leading resource for best practices that lead to local implementation of sustainable and innovative projects. Objective E: Facilitate inclusive and meaningful engagement with diverse stakeholders to produce plans that are effective and responsive to community needs.

BACKGROUND:

In 2015, RCTC and the County of Riverside (County) filed a lawsuit against the City of Moreno Valley and Highland Fairview, the developer of the World Logistics Center (WLC) project. The lawsuit challenged the environmental impact report to ensure adequate mitigation to impacts created by the WLC project. The WLC is proposed to be located in the eastern portion of the city, southerly of State Route 60, between Redlands Boulevard and Gilman Springs Road. The project would encompass over 2,610 acres with 40 million square feet for a large-scale logistics operation and is estimated to attract over 14,000 truck trips and 68,721 trips daily. In July 2016, a settlement agreement was reached between RCTC, the County, the City of Moreno Valley, and Highland Fairview. A key provision of the settlement required that the four parties each contribute \$250,000, for a total of \$1 million, for RCTC to conduct a regional transportation study to evaluate a logisticsrelated regional fee, including the fee structure and implementing mechanism. A result of the Study could be a new fee program that would, for example, set a fee on new distribution center warehouses, based on facility size, to help pay for highway improvements. This fee would differ from existing Transportation Uniform Mitigation Fee (TUMF) Programs in that it would only focus on highway projects, as compared to the regional TUMF Programs, which collect funds for regional arterials and local streets. Per the settlement agreement, if the County or at least 75 percent of RCTC's member cities adopt a regional warehouse fee within two years after a final court judgment is issued, Highland Fairview will pay 65 cents per square foot for each operating warehouse within the WLC. If no regional fee is adopted, the fee would be 50 cents per square foot. Proceeds would be used for projects identified as part of the regional truck study.

Project Status

In January 2017, RCTC approved the award of a contract to conduct a regional truck study and development and implementation of a regional logistics mitigation fee to WSP USA, formerly Parsons Brinckerhoff, Inc. The Study was kicked off in spring 2017 and a Study advisory team was created to review and discuss the data and deliverables provided by the consultant team. Since then, staff also provided updates on the Study to RCTC's Technical Advisory Committee (TAC), comprised of Public Works Directors and City Engineers as appointed by the City Managers within Riverside County. At its June 2018 Commission meeting, staff and the project consultant provided an update on this effort as follows:

- Sufficient data sources are available to justify the completion of a Nexus Study;
- Logistics warehousing is estimated to grow in Riverside County by about 37 million square feet by 2040;



- Future deficiencies in the highway network caused by logistics growth were identified in Western County;
- Proposed projects to mitigate the logistics growth could range from the addition of an auxiliary lane at on-and-off ramps, or, the widening of a mainline;
- Existing capacity deficiencies, pass-through trips in Riverside County, and infrastructure improvements that are already planned or have been completed (i.e. SR-91 Capital Improvement Program or French Valley Parkway) would be excluded;
- Total cost of infrastructure improvements is estimated at \$383.3 million, of which the attributable share to logistics growth is \$47.8 million; and
- A potential fee could be up to \$1.28 per square foot of gross floor area. A Nexus Study is under development to establish the relationship between growth related to logistics facilities and truck traffic and the improvements needed to mitigate such growth. The Mitigation Fee Act requires an agency to make five findings with respect to a proposed fee, as follows:
 - 1. Purpose of the Fee
 - 2. Use of Fee Revenues
 - 3. Use/Type-of-Development Relationship
 - 4. Need/Type-of-Development Relationship
 - 5. Proportionality Relationship

The scope also calls for an analysis of the Fee Allocation Structure and Implementing Mechanism. This task is also underway and will include the review of other similar types of fees, the administration and structure of a logistics-related fee program, and an economic market analysis to see how a fee might impact development growth in the county.

John Standiford, Deputy Executive Director of RCTC and Lorelle Moe-Luna, Acting Multimodal Services Director of RCTC will present an overview of the Study.

FISCAL IMPACT:

There is no financial impact for this item.

ATTACHMENT(S):

1. PowerPoint Presentation: Regional Logistics Fee Study



REGIONAL LOGISTICS FEE STUDY

SCAG TRANSPORTATION COMMITTEE NOVEMBER 1, 2018

John Standiford, Deputy Executive Director Forelle Moe-Luna, Acting Multimodal Services Director



Study Background



World Logistics Center



- Large-scale logistics operations with 40.6 million SF of building space
- · Covers 2,610 acres
- Expected to draw as many as 14,000 truck trips per day at build-out
- Skechers is 1.8 million SF



Challenging the EIR

- RCTC filed suit in Sept. 2015
- Additional suits filed by the County and SCQAMD
- Additional CEQA lawsuits filed by environmental organizations
- Highland Fairview launched initiatives to supplant city approval of the project
- RCTC filed suit challenging the initiatives in Feb. 2016





Reaching a Settlement

- World Logistics Center Settlement
- Each party to contribute \$250,000

MHIGHLANDFAIRVIEW







SETTLEMENT AGREEMENT

This settlement agreement ("Agreement") is made at Riverside, California, as of July 21, 2016, between THE COUNTY OF RIVERSIDE (the "County") and the RIVERSIDE COUNTY TRANSPORTATION COMMISSION (the "RCTC"), on the one hand, and the CITY OF MORENO VALLEY and the MORENO VALLEY COMMUNITY SERVICES DISTRICT (collectively the "City"), HF PROPERTIES,

2. Highland Fairview, the City, the County and the RCTC will each contribute, directly or indirectly, \$250,000, for a total of \$1,000,000, to be used for an RCTC-conducted regional transportation study to evaluate a logistics-related regional fee. The contributions shall be submitted to the RCTC and shall be managed according to its regular accounting practices. The contributions will be made no later than 60 calendar days after a final

...regional transportation study to evaluate a logistics-related regional fee...

these funds at any time.



Other Terms and Conditions

- HF and Moreno Valley must contribute \$100,000 each for air quality studies
- HF to receive TUMF credit for widening Gilman Springs
- HF to contribute \$3 million for Gilman Springs safety improvements
- HF to contribute \$2 million for widening the 60 and \$1 million for improving the Theodore Interchange



Potential Regional Fee

- HF will pay \$0.65/SF in-lieu fee if there is an established regional logistics fee program
- A regional fee would need approval of the county or 75 percent of the cities
- Approval must take place within 24 months of the HF and Moreno Valley \$250,000 contribution for the study
- Should no regional fee be approved, the fee is reduced to \$0.50/SF





Implementing a Truck Study

- Key is to establish nexus for a fee program to mitigate project impacts
- Can only assess fees and mitigate for new projects
- Pass through trips and existing development cannot be borne by this kind of fee program
- No overlap with the existing TUMF programs, this study focuses on mainline freeway truck impacts and mitigation (which are not a part of either TUMF).





Study Participation

















Project Timeline

Task/Scope	Status
May 2017	Study Kick-Off
May 2017 - May 2018	Data Collection/Analysis 1) Existing and Future Conditions Analysis 2) Funding and Cost Analysis
May 2018 - Sept 2018	Nexus Study
Sept 2018 - Dec 2018	Stakeholder Outreach
Dec 2018 – Jun 2018	Study Recommendations



Completed Tasks



Major Study Tasks

Task/Scope

- 1) Existing and Future Conditions Analysis
 - ✓ Forecast logistics growth
 - ✓ Forecast truck trips
 - ✓ Identify capacity deficiencies
- 2) Funding and Cost Analysis
 - ✓ Attribute deficiencies to new logistics development
 - ✓ Estimate project costs
 - ✓ Compute fee amount
- 3) Nexus Study
 - ✓ Prepare report to establish the relationship between logistics-related facilities growth, truck traffic, and the improvements to mitigate such growth

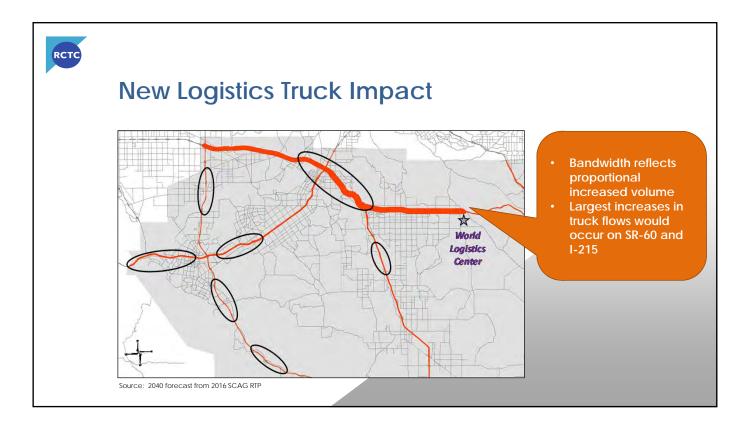


Forecast Logistics Growth

Warehouse Employment Growth for Riverside County								
2016 2040 Growth Employees Employees Employees								
SCAG 2016 RTP/SCS Employment Forecast	5,343	13,612	8,269	Basis to				
EDD Employment Trend Forecast	13,080	27,662	14,582	model impacts				
EDD warehouse employment trend forecast was used for modeling purposes								

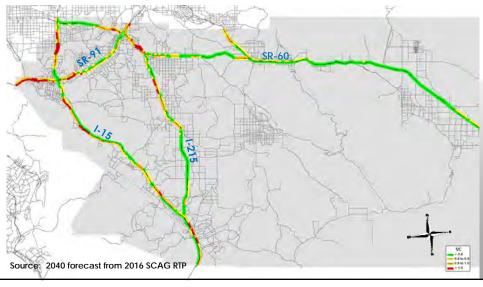
Warehouse Building Area Growth for Riverside County 2016 2040 Growth SF GFA SF GFA SF GFA SCAG 2016 RTP/SCS HDT Model GFA Forecast 63,309,990 100,642,169 37,332,179 EDD Employment Trend Forecast 29,312,280 61,990,542 32,678,262

EDD employment trend forecast was multiplied by 2,241 square feet per employee ratio from NAIOP Logistics Trends and Specific Industries that Will Drive Warehouse and Distribution Growth and Demand for Space, March 2010





Identified Deficiencies Based on New Warehousing Development





Attributing the Share of Impacts

- Adjust for the following factors:
 - Existing capacity deficiency
 - Share of future traffic growth that is attributable to other development activity
 - Pass through trips that have a trip end outside Riverside County
- Accomplished by comparing base model run to model run that separates warehouse and logistics uses



Attributing the Share of Impacts

						<u> </u>			
ID I	Route Name	Dir	Beginning	End	Segment Length (mi)	2040 Max V/C Recommended Improvement		% Deficiency Attributable to New Logistics Trucking	
1			SR-79 S	Rancho California Rd	1.0	1.01	Add aux lane between the on- and off-ramps	1%	
1			Rancho California Rd	Winchester Rd	1.1	1.01	Add adx falle between the on- and on-ramps	1%	
2		NB	Winchester Rd	Lane Add south of I-15/I-215 Split	0.7	1.08	Add aux lane between the on-ramp and the lane add	1%	
3		140	Clinton Keith Rd	Baxter Rd	0.8	1.03	Add aux lane between the on- and off-ramps	0.3%	
4	I-15		El Cerrito Rd	Ontario Ave	0.2	1.03	Add aux lane between the on- and off-ramps	1%	
5	1-13		Norco Dr/6th Street	Limonite Ave	2.0	1.14	Add aux lane between the on- and off-ramps	1%	
6			Cantu Galeano Ranch Rd	Limonite Ave	1.3	1.02	Add aux lane between the on- and off-ramps	4%	
U		SB	Limonite Ave	Norco Dr/6th Street	2.0	1.04	Add adx falle between the on- and on-ramps	5%	
7		36	El Cerrito Rd	Dos Lagos Dr	2.1	1.09	Widen mainline to 4 lanes	2%	
8			Temescal Canyon Rd	Indian Truck Trail	2.2	1.01	Add aux lane between the on- and off-ramps	1%	
q	SR-60	FB	Rubidoux Blvd	Market St	0.8	1.03	Add aux lane between the on- and off-ramps	31%	
9	3K-00	ED	Market St	Main St	0.1	1.06	Add adx falle between the on- and on-ramps	39%	
10			Box Springs Rd	Central Ave	0.4	1.07	Add aux lane between the on- and off-ramps	14%	
10		NB	Watkins Dr	Martin Luther King Jr	0.8	1.23	Add adx falle between the on- and on-ramps	38%	
10c	I-215	NB	University Ave Off-Ramp	Upstream of Univ Ave On-ramp	0.4	1.04	Add aux lane upstream of the on-ramp to the off-ramp	13%	
11	1-215		Center St Off-Ramp	Riverside County Line/Iowa Ave	0.5	1.03	Add aux lane between the off-ramp and the county line	12%	
12		SB	Martin Luther King Jr	Sycamore Canyon Rd	1.6	1.25	Add aux lane between the on- and off-ramps	57%	
13		28	Van Buren Blvd	Harley Knox Blvd	1.2	1.06	Add aux lane between the on- and off-ramps	4%	
			Riverside County Line	Green River Rd Off-Ramp	0.8	1.23	Add aux lane from the county line to Green River Rd. off-ramp	1%	
14			Green River Rd Off-Ramp	SR-71	1.3	1.02	Widen mainline to 6 lanes	10%	
			SR-71	Serfas Club Dr Off-Ramp	1.4	1.27	Widen mainline to 6 lanes	1%	
15		NB	Serfas Club Dr Off-Ramp	Grand Blvd Off-Ramp	2.3	1.23	Widen mainline to 5 lanes	9%	
16	SR-91		On-Ramp from SB I-15	On-Ramp from NB I-15	0.3	1.07	Add aux lane	8%	
17			McKinley St Off-Ramp	Pierce St	1.6	1.14	Widen mainline to 4 lanes	10%	
18			Magnolia Ave	La Sierra Ave	0.3	1.00	Add aux lane between the ramps	8%	
19		SB	Serfas Club Dr Off-Ramp	Lane Add at SR-71	2.3	1.12	Widen mainline to 5 lanes	3%	
19		эВ	Lane Add at SR-71	Riverside County Line	1.7	1.07	Widen mainline to 6 lanes	2%	



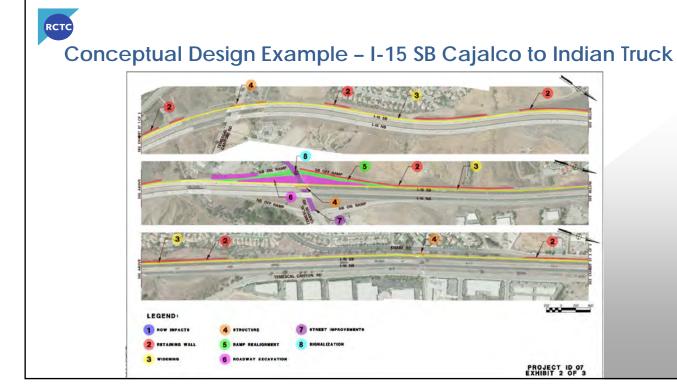
Cost Estimation Methodology

- Deficient segments were reviewed to determine project limits/logical termini for mitigation project concepts
- Mitigation project concepts were compared to completed and ongoing RCTC program to determine where deficiencies have been/are being mitigated
- Conceptual designs were developed using Google desktop research.
 - All costs and impacts based on visual analysis
 - No detailed engineering completed for verification



Cost Estimation Methodology

- Conceptual costs were developed based on the quantification of construction elements in the conceptual designs
- Unit cost values based on Caltrans 2016/2017
 Construction Cost Database
- Various ancillary and support cost factors, and contingency factor applied





Total Conceptual Cost Estimate

			Capaci	ty Improvement Project Con-	ceptual Cost Estimate	Summary *
ID	Route Name	Dir	Beginning	End	Total Conceptual Project Cost	Findings
f			SR-79 S Rancho California Rd	Rancho California Rd Winchester Rd	\$36,237,000	Cost reduced by TUMF inclusion of 1-15 at Rancho California
2		NB	Winchester Rd	Lane Add south of I-15/I-215 Split	in the same of the	Mitigated by French Valley Parkway Project
3		NB	Clinton Keith Rd	Baxter Rd	\$7,406,000	Cost reduced by TUMF inclusion of 1-15 at Baxter
4	No.	-	El Cerrito Rd	Ontario Ave		Mitigated by I-15 Tolled Express Lanes (TEL)
5	1-15		Norco Dr/6th St	Limonite Ave	×	Mitigated by I-15 Tolled Express Lanes (TEL)
6		SB	Cantu Galeano Ranch Rd Limonite Ave	Limonite Ave Norco Dr/6th		Mitigated by I-15 Tolled Express Lanes (TEL)
7	1 1		Cajalco Rd	Indian Truck Trail	\$37,825,000	Cost reduced by TUMF inclusion of 1-15 at Temescal Canyon
8			El Cerrito Rd	Calalco Rd	\$10,408,000	Cost reduced by TUMF inclusion of 1-15 at Cajalco
	9 SR-60		Rubidoux Blvd	Market St	\$40,234,000	
9		EB	Market St	Main St		
46		NB -	Box Springs Rd	Central Ave/Watkins Dr	400 540 000	
10			Central Ave/Watkins	Martin Luther King	\$26,513,000	
Oc			Martin Luther King Blvd	SR-91	\$55,081,000	
11	1-215		Center St Off-Ramp	Riverside County Line/Iowa	\$42,212,000	Cost reduced by TUMF inclusion of 1-215 at Highgrove/Center
12	7.5.0		Martin Luther King Jr	Sycamore Canyon Rd	\$13,403,000	
13			Van Buren Blvd	Case Rd	\$95,365,000	Cost reduced by TUMF inclusion of 1-215 at Perris, Nuevo, Placentia (MCP), Ramona and Harley Knox
		NB	Riverside County Line	Green River Rd Off-Ramp		
14			Green River Rd Off-Ramp	SR-71		Mitigated by SR-91 Express Lane Extension Project
			SR-71	Serfas Club Dr Off-Ramp		
15			Serfas Club Dr Off-Ramp	Grand Blvd Rd Off-Ramp	C	Mitigated by SR-91 Express Lane Extension Project
16	SR-91	1.00	On-Ramp from SB-I-15	On Ramp from NB- I-15	\$7,611,000	
17			McKinley St Off Ramp	Pierce St	(Mitigated by SR-91 Express Lane Extension Project
18			Pierce St	Magnolia St	\$13,040,000	
19		SB	Serfas Club Dr Off-Ramp	Lane Add at SR-71		Millianted by CD 01 Europe Lone Eutopolea Broleat
19		58	Lane Add at SR-71	Riverside County Line/Iowa	Carrier State Carrier	Mitigated by SR-91 Express Lane Extension Project
m Tot	al:				\$385,335,000	

^{*}Includes auxiliary lane improvements

Total Conceptual Cost Estimate: \$385,335,000

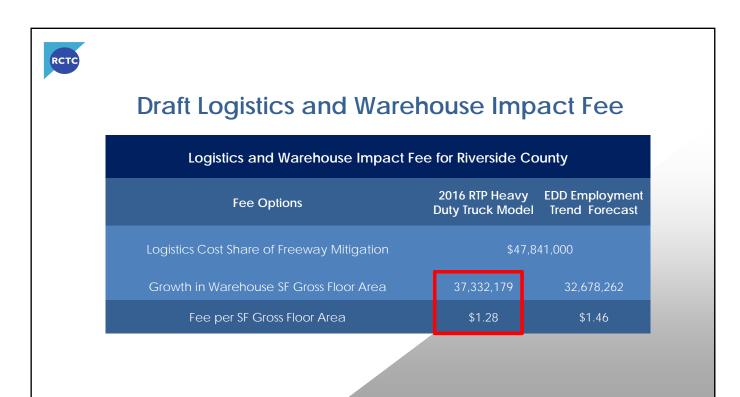


Total Logistics Cost Share

ID	Route Name	Dir	Beginning	End	Total Conceptual Project Cost	Logistics Attributable Share	Logistics Cost Share
1	1 NB		SR-79 S Rancho California Rd	Rancho California Rd Winchester Rd	\$36,237,000	0.7%	\$258,000
3	1-15	1-15	Clinton Keith Rd	Baxter Rd	\$7,406,000	0.3%	\$19,000
7	0.15	SB	Cajalco Rd	Indian Truck Trail	\$37,825,000	2.2%	\$820,000
8		28	El Cerrito Rd	Cajalco Rd	\$10,408,000	1.4%	\$142,000
9	SR-60	EB	Rubidoux Blvd Market St	Market St Main St	\$40,234,000	31.8%	\$12,802,000
10	The last	700	Box Springs Rd Central Ave/Watkins	Central Ave/Watkins Dr Martin Luther King	\$26,513,000	30.0%	\$7,963,000
10c	2 414	NB	Martin Luther King Blvd	SR-91	\$55,081,000	13.3%	\$7,317,000
11	1-215		Center St Off-Ramp	Riverside County Line/Iowa	\$42,212,000	11.8%	\$4,978,000
12		SB	Martin Luther King Jr	Sycamore Canyon Rd	\$13,403,000	57.1%	\$7,658,000
13	SB	OB	Van Buren Blvd	Case Rd	\$95,365,000	4.4%	\$4,235,000
16	SR-91	1 NB	On-Ramp from SB-I-15	On Ramp from NB- I-15	\$7,611,000	7.5%	\$571,000
18	8 SH-91	IND	Pierce St	Magnolia St	\$13,040,000	8.3%	\$1,078,000
ım Tot	al:				\$385,335,000	12.4%	\$47,841,000

^{*}Includes auxiliary lane improvements

Total Logistics Cost Share: \$47,841,000







Next Steps

- Public Outreach/Public Comment Period
 - Stakeholder Workshops
- Analysis of Fee Allocation and Implementation
 - Research fees of similar nature, Economic elasticity analysis and impact on local employment and economic development



Southern California Association of Governments 900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017

November 1, 2018

To: Transportation Committee (TC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Scott Strelecki, Senior Planner, Goods Movement &

Transportation Finance, (213) 236-1893, strelecki@scag.ca.gov

Subject: Last Mile Freight Study

RECOMMENDED ACTION:

For 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:

This report updates TC members on the Last Mile Freight Study. SCAG is conducting the Last Mile Freight Study to assess delivery conditions and recommend best practices in a complete streets context for both commercial freight delivery operators and recipients.

BACKGROUND:

E-commerce growth estimates call for the parcel delivery market in the United States to more than double by 2025. This will impact dense urban areas and business districts, commercial and industrial streets, as well as residential neighborhoods. With e-commerce on the rise, and considering the growth of transportation network companies (TNCs) like Uber and Lyft along with bike share, car share, and enhanced transit, there is a fundamental need to account for, maintain, and manage curb and sidewalk space in many city areas throughout the region. Augmenting "complete streets" initiatives with the commercial aspect of last-mile deliveries is an important consideration in today's highly complex transportation environment.

SCAG is conducting the Last Mile Freight Study to assess localized delivery conditions including the identification of specific issues experienced by commercial freight delivery operators and recipients; and the initial documentation of TNCs in terms of curbside access and utilization. Solutions to be evaluated by the study will consider strategies looking to reduce costs and delays, ensure safety, and enable efficient utilization and management of curbside assets. The initial case study area is within the City of Los Angeles, focused on methods and recommendations suitable for consideration throughout the Southern California region and across the United States.

FISCAL IMPACT:

Work associated with this item is included in the Fiscal Year 2017-19 Overall Work Program under Project No. 19-130.0162.18 for Goods Movement Planning.





ATTACHMENT(S):

1. PowerPoint Presentation: LM Freight Study

Last Mile Freight Study

Transportation Com m ittee

Scott Strelecki
Senior Transportation Planner
November 1, 2018

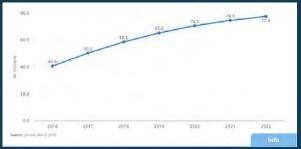


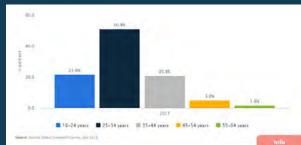
U.S. Online Retail Sales Growth (YOY) Total Online Amazon (IP+3P) Nest of Online Amazon (IP+3P) Rest of Online Since Since Since Source: FTI Analysis Rest of Online Source: SEC filings. U.S. Cereus Burnau and FTI estimates.

Overview of Key Trends



• Ride Sharing Perform ance





Study Update



- Study Goals
 - Create transparency of last-m ile delivery conditions as it relates to com plete streets
 - Understand the challenges and needs from a variety of users
 - Quantify delivery issues and conditions
 - Balance conflicting dem ands for street space
 - Develop strategies appropriate for different areas
 - Identify pilot projects for delivery in provem ents
 - Have a stakeholder-driven process





Study Update



- Cityw ide Data Analysis
 - PAC m eeting discussions
 - Defined existing conditions
 - Identified case study locations

G IS Screening by Attributes M apping Screen Locations and Visually Identify Clusters

Visual Review of Block Clusters Added to Draft Case Study List

Field Data Collection • Developed processes and methodologies • Data collection and analysis • Video cameras • Technician documentation Canada 170 Purpose **Technician documentation** **Technician documentati

Study Update



■ Transportation Network Companies (TNCs)

		Type o	Type of Curb Area Used For Passenger Loading					
Туре	All Passenger Loading	R ed	Parking	Yellow	W hite	Other (e.g. Drivew ay)		
TNC/(e.g.Uber,								
Lyft)	10%	73%	9%	3%	5%	10%		
Taxi/Shuttle	3%	44%	15%	11%	19%	11%		
Bus	46%	99%	0%	0%	0%	1%		
PersonalVehicle	41%	47%	12%	5%	27%	9%		
Total	100%	73%	6%	3%	12%	7%		



Study Update



Delivery Strategy Categories

Curb Area

- 1. Curb Loading Area
- 2. Manage Curb Dem and
- 3. Shared Space
- 4. Operating Hours
- 5. Restricted Locations

Shippers and Receivers

- 1. Delivery Consolidation
- 2. Building/Parking Improvements
- 3. Vehicle Options

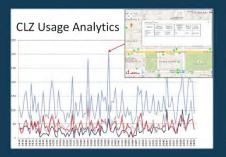
Application / Adm in istration

- 1. Enforcem ent
- 2. Outreach and Information
- 3. Research
- 4. Technology

Study Update



- Toolbox of Strategies Elem ents
 - Site specific recom m endations within the context of typologies
 - Policy/cityw ide recom m endations
 - Com pendium matrix
 - Potential pilot projects







Study Update



- Next Steps
 - Draft Report/findings review and discussions
 - PAC and other local jurisdiction stakeholders
 - Identification of key strategies
 - Potential pilot projects
 - Final Report com pletion fall 2018

