

**California Local HSIP Advisory Committee**

**Meeting Agenda Thursday,  
November 1st, 2018  
1:00 pm – 4:00 pm**

**Sacramento International Airport Terminal A,  
2<sup>nd</sup> Floor, Air-Media Conference Room**

**(916) 874-0182**

<b>Time*</b>	<b>Topic</b>	<b>Lead(s)</b>
1:00 PM	Welcome/Updates	Robert/Tom
1:10 PM	MPO Safety Performance Targets	Ross
1:40 PM	Tribal Transportation Safety Workshop Update	Ken/Richard
1:50 PM	DDSA Local Agency Peer Exchange Status	Robert
2:10 PM	EDC Rural-Road-Departure Update	Robert
2:20 PM	Delivery and OA Status	Chiu
2:30 PM	HSIP Cycle-9 Summary	Robert/Richard
3:10 PM	Discussion for CM S4-Dilemma Zone Detection	Robert
3:30 PM	Roundtable	ALL
4:00 PM	Adjourn	
<b>*Times are approximate Next Meeting: 23 January 2019, 1-4 PM, Air-Media Conference Room</b>		
<b><u>Future Agenda Topics</u></b> <ul style="list-style-type: none"><li>• TBD</li></ul>		



# Draft In-State Data Driven Safety Analysis (DDSA) Peer Exchange Agenda

**Date:** February 5<sup>th</sup> and 6<sup>th</sup>

**Time:** 8:30 a.m. to 5:00 p.m – 8:30 to 12:00 pm

**Location:** Sac St University, Alumni Center

**Contact:**

Start Time	Topic	Lead	Desired Outcome
8:30 a.m.	1. Registration		
	2. Welcome and Introductions	Caltrans / LTAP	
	3. Fundamentals of Data Driven Safety Analysis – Systemic Approach	FHWA	
	4. SHSP / Performance Measures – Efforts needed to to move the needle	Caltrans Traffic Ops	
	5. Washington St / Thurston County LRSP presentation	Thurston County (WA)	
	6. Pilot LRSPs	County(Marin)	
	7. HSIP Cycle 9 results / SSARP impact	DLA	
	9. Stanislaus County network screening and MIRE initiative	County	
	10. City of San Diego – using systemic approach to identify CMs for intersections	City of San Diego	
	11. Roundtable discussion – Safety analysis best practices within local agencies –report out .	Local Agencies	
	12. Close out discussion - requirements for Cycle 10, what potential changes for next call, etc. Set asides?	HQ HSIP	

**Highway Safety Improvement Program (HSIP) Delivery Status Report for Delayed Projects (sorted by Caltrans District and Agency)  
Status as of 10/19/2018**

General Project Information													Delivery Milestone Status (see notes on the other spreadsheet)		
27	3	4	5	6	7	8	9	10	11	12	13	37	38	39	
Unique Project ID	Prefix	Cycle	Federal Project Number	District	Agency	County	MPO	RTPA	Project Location	Description of Work	Total Cost (\$)	Federal Funds (\$)	Milestone Status (PE)	Milestone Status (CON)	Delayed?
H8-06-011		8		6	Kingsburg		FCOG		Intersection of Sierra Street (Conejo Avenue) at Bethel Avenue.	Construct a single lane roundabout.	\$ 1,296,900	\$ 1,296,900	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
HSIP6-06-003	HSIPL	6	5146014	6	Coalinga	Fresno County	FCOG	Council of Fresno County Governments	SR 33 (Elm Ave)/Cambridge Ave	Install traffic signals, signs, striping, sidewalks, curb and gutter, curb ramps, widen pavement and other safety improvements	\$ 485,700	\$ 437,000	Authorized	Past due (due 6/30/2017)	Yes (CON)
HSIP6-06-007	HSIPL	6	5942241	6	Fresno County	Fresno County	FCOG	Council of Fresno County Governments	Auberry Rd/Copper Ave	Install traffic signals, left turn phase and left turn lanes	\$ 891,600	\$ 802,200	Authorized	Past due (due 6/30/2017)	Yes (CON)
H8-07-003		8		7	Carson		SCAG		Six (6) Intersections -Avalon Blvd at Victoria Street, Main Street at Sepulveda Blvd, Main Street at 220th Street, Main Street at 223rd Street, Figueroa Street at 223rd Street, and Figueroa Street at Torrance Blvd.	Construct intersection upgrades (new signal heads, ADA ramps, service upgrades, LED safety lighting, bike detection, audible pedestrian signals, signal poles, signal mast arms, signal cabinets, raised medians, signing, striping, and left-turn phasing)	\$ 1,912,100	\$ 1,720,890	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-004		8		7	Commerce		SCAG		E Gage Avenue south of Slauson Ave and Washington Ave just west of the I-5 freeway.	Construct crosswalks, sidewalks and curb ramps, and install signage, pavement markings and pedestrian countdown heads.	\$ 173,700	\$ 156,330	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-005		8		7	Compton		SCAG		The Compton Blvd. corridor between Willowbrook Avenue and Central Avenue.	Install bike lanes and lighting along the corridor, and enhance pedestrian crossings at fifteen (15) intersections.	\$ 1,298,000	\$ 1,168,200	Past due (due 12/31/2017)	Due by 12/31/2019	Yes (PE)
H8-07-006		8		7	Compton		SCAG		Twenty (20) intersections.	Install Pedestrian Countdown Heads.	\$ 249,800	\$ 249,800	Past due (due 12/31/2017)	Due by 12/31/2019	Yes (PE)
H8-07-009		8		7	Hawaiian Gardens		SCAG		Various signalized intersections along Carson St. between Western City Limit (Pioneer Blvd) and Eastern City Limit (Bloomfield Ave).	Install traffic signal hardware improvements.	\$ 397,500	\$ 397,500	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-010		8		7	Hawaiian Gardens		SCAG		Various intersections on Norwalk Blvd between 214th St and 226th St.	Install traffic signal improvements.	\$ 516,000	\$ 464,400	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-015		8		7	La Puente		SCAG		Eight (8) crosswalk locations throughout the City of La Puente.	Install Rectangular Rapid Flashing Beacons (RRFBs), curb extensions, advanced pavement markings, warning signs, and high visibility crosswalks.	\$ 783,600	\$ 783,600	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-016		8		7	La Verne		SCAG		Fruit Street between Baseline Road and Foothill Boulevard.	Install protected left turn phase improvements at Baseline Road, and install raised medians along Fruit Street from south of Interstate 210 Freeway to north of Foothill Boulevard.	\$ 881,900	\$ 793,710	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-018		8		7	Lancaster		SCAG		Intersection of Sierra Highway at Avenue G.	Install a new traffic signal, and install advance "Signal Ahead" signs and flashing beacons.	\$ 526,700	\$ 526,700	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-020		8		7	Long Beach		SCAG		Various locations on Anaheim Street between the Los Angeles River and Pacific Coast Highway.	Install controlled-access medians, signal upgrades, and pedestrian refuges.	\$ 3,326,300	\$ 2,993,670	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-021		8		7	Long Beach		SCAG		Ten (10) signalized intersections on Los Coyotes Diagonal from Outer Traffic Circle to Carson Street.	Install new traffic signal poles, indications and related equipment to accommodate the protected left turn phasing.	\$ 872,200	\$ 872,200	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-022		8		7	Long Beach		SCAG		Eighteen (18) uncontrolled intersections.	Install enhanced pedestrian crossings, including high visibility crosswalks along with yield triangles, new pedestrian signs and solar powered warning flashers.	\$ 250,000	\$ 250,000	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)

**Highway Safety Improvement Program (HSIP) Delivery Status Report for Delayed Projects (sorted by Caltrans District and Agency)  
Status as of 10/19/2018**

General Project Information													Delivery Milestone Status (see notes on the other spreadsheet)		
27	3	4	5	6	7	8	9	10	11	12	13	37	38	39	
Unique Project ID	Prefix	Cycle	Federal Project Number	District	Agency	County	MPO	RTPA	Project Location	Description of Work	Total Cost (\$)	Federal Funds (\$)	Milestone Status (PE)	Milestone Status (CON)	Delayed?
H8-07-034		8		7	Norwalk		SCAG		Pioneer Boulevard between 166th Street (South City Limits) and Lakeland Road (North City Limits).	Upgrade signals to provide separate left-turn phasing at eight (8) intersections and provide various safety improvements at adjacent intersections.	\$ 2,911,000	\$ 2,911,000	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-035		8		7	Norwalk		SCAG		Pioneer Boulevard between 166th Street (South City Limits) and Lakeland Avenue (North City Limits).	Update signal timing and coordinated operations of fifteen (15) signalized intersections, construct a fiber-optic communication network to integrate with the City's Traffic Management Center (TMC).	\$ 1,281,700	\$ 640,850	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-036		8		7	Norwalk		SCAG		Norwalk Boulevard from 166th Street (South City Limits) to Rosecrans Avenue; and from Adoree Street to Lakeland Road (North City Limits).	Upgrade signals to provide separate left turn phasing at six (6) intersections and provide various safety improvements at adjacent intersections.	\$ 2,294,500	\$ 2,294,500	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-037		8		7	Norwalk		SCAG		Norwalk Boulevard from 166th Street (South City Limits) to Rosecrans Avenue; and from Adoree Street to Lakeland Road (North City Limits).	Update signal timing and coordinated operations of eleven (11) signalized intersections, construct a fiber-optic communication network to integrate with the City's Traffic Management Center (TMC).	\$ 1,135,100	\$ 567,550	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-042		8		7	Palos Verdes Estates		SCAG		Eleven (11) locations throughout the City.	Upgrade existing metal beam guardrails to Midwest Guardrail System (MGS) standards, including new end treatments and beam sections, and relocate guardrails to correct locations.	\$ 243,400	\$ 243,400	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-053		8		7	Whittier		SCAG		Forty (40) signalized intersections within the City of Whittier.	Install LED countdown pedestrian heads, Accessible Pedestrian Signals (APS) with ADA compliant push buttons.	\$ 256,000	\$ 250,000	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-054		8		7	Whittier		SCAG		La Serna Drive from Whittier Boulevard (State Route 72) to Youngwood Drive adjacent to La Serna High School.	Construct new sidewalks and ADA compliant wheelchair access ramps; install new centerline striping, Class II Bike Lanes, Sharrow pavement markings & Signing.	\$ 134,000	\$ 120,600	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
H8-07-055		8		7	Whittier		SCAG		Twenty-two (22) various locations of guard rails within the City of Whittier.	Upgrade guardrails.	\$ 363,000	\$ 363,000	Past due (due 9/30/2017)	Due by 12/31/2019	Yes (PE)
HSIP4-07-009	HSIPL	4	5358015	7	Rosemead	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	SR 19 (Rosemead Blvd.) between Valley Blvd. and the RR grade crossing at Grand Ave.	Construct sidewalks; install safety lighting and bike lanes; upgrade traffic signals	\$ 479,400	\$ 430,900	Authorized	Past due (due 8/31/2018)	Yes (CON)
HSIP4-07-037	HSIPL	4	5069013	7	Monrovia	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	Huntinton Dr./5th Ave.; Duarte Rd./Peck Rd.; Foothill Blvd./Sunset Pl.; Foothill Blvd./California Ave.	Install pedestrian safety devices and crosswalk lighting system; upgrade traffic signals	\$ 730,000	\$ 657,000	Authorized	Past due (due 5/1/2018)	Yes (CON)
HSIP6-07-002	HSIPL	6	5112019	7	Azusa	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	One-mile segment of Arrow Highway between Citrus Ave and approx. 500' west of Azusa Ave	Install raised medians	\$ 613,300	\$ 490,600	Authorized	Past due (due 6/30/2018)	Yes (CON)
HSIP6-07-004	HSIPL	6	5403025	7	Carson	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	Various locations on Figueroa St, Main St, Victoria St, and Carson St in Carson	Install bike lanes	\$ 1,487,200	\$ 1,352,790	Authorized	Past due (due 6/30/2017)	Yes (CON)
HSIP6-07-005	HSIPL	6	5403026	7	Carson	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	Various locations on University Dr, Avalon, Central Ave, Del Amo Blvd, and 223rd St in Carson	Install bike lanes	\$ 1,389,100	\$ 1,263,440	Authorized	Past due (due 6/30/2017)	Yes (CON)
HSIP6-07-012	HSIPL	6	5419047	7	Lancaster	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	On E Avenue I between Challenger Way and Price Lane	Install sidewalks and bike lanes, curb ramps, curb extension, and crosswalks; Upgrade signals	\$ 1,368,400	\$ 1,231,400	Authorized	Past due (due 6/30/2017)	Yes (CON)
HSIP6-07-013	HSIPL	6	5419048	7	Lancaster	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	On E Avenue I between Price Lane and 35th St East	Install sidewalks and bike lanes, curb ramps, curb extension, and crosswalks; Upgrade signals	\$ 1,647,500	\$ 1,482,600	Authorized	Past due (due 6/30/2017)	Yes (CON)

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HSIP6-07-031	HSIPL	6	5953698	7	Los Angeles County	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	Various locations throughout the unincorporated Los Angeles Counties of Willbrook and West Rancho Dominguez	Install bike lanes; Road Diet (reduce travel lanes)	\$ 1,630,600	\$ 1,467,400	Authorized	Past due (due 8/31/2018)	Yes (CON)
HSIP6-07-032	HSIPL	6	5953704	7	Los Angeles County	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	On Washington Blvd between Bellford Ave and N Altadena Dr, On N Altadena Dr between Canyon Close Rd and E Washington Blvd	Install bike lanes; Road Diet (reduce travel lanes)	\$ 1,956,000	\$ 1,492,100	Authorized	Past due (due 7/31/2018)	Yes (CON)
HSIP6-07-037	HSIPL	6	5347038	7	Norwalk	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	On Rosecrans Ave between Studebaker Rd and Carmenita Rd	Upgrade traffic signals (interconnect); install pedestrian countdown heads	\$ 1,267,800	\$ 1,140,900	Authorized	Past due (due 9/30/2018)	Yes (CON)
HSIP6-07-038	HSIPL	6	5347039	7	Norwalk	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	On Studebaker Rd between Alondra Blvd and Rosecrans Ave	Upgrade traffic signals (interconnect)and curb ramps; Install pedestrian countdown heads	\$ 801,700	\$ 721,300	Authorized	Past due (due 4/30/2018)	Yes (CON)
HSIP6-07-039	HSIPL	6	5347040	7	Norwalk	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	On San Antonio Ave-Norwalk Blvd between Rosecrans Ave and Civic Center Dr, and On Civic Center Dr between Norwalk Blvd and Bloomfield Ave	Upgrade traffic signals (interconnect)and curb ramps; install pedestrian countdown signal heads	\$ 897,600	\$ 807,600	Authorized	Past due (due 9/30/2018)	Yes (CON)
HSIP6-07-050	HSIPL	6	5071019	7	South Pasadena	Los Angeles County	SCAG	Los Angeles County Metropolitan Transportation Authority	Mission St/Diamond Ave, Mission St/Fairview Ave, and Fremont Ave/Lyndon St	Upgrade crosswalks; Install in-roadway warning lights	\$ 264,962	\$ 238,465	Authorized	Past due (due 5/1/2018)	Yes (CON)
HSIP7-07-005		7		7	Compton	Los Angeles	SCAG	Los Angeles County Metropolitan Transportation Auth.	Compton Boulevard, from Willowbrook Avenue to eastern City limits.	Installation of raised medians and Class II bicycle lanes	\$ 1,928,400	\$ 1,691,098	Past due (due 12/31/2017)	Due by 6/30/2019	Yes (PE)
HSIP7-07-011		7		7	La Verne	Los Angeles	SCAG	Los Angeles County Metropolitan Transportation Auth.	Foothill Boulevard (State Route 66) Corridor (1.5 miles) from Damien Ave. in the west to Towne Center Dr. in the east Wheeler Avenue, Emerald Avenue and Fruit Street/White Avenue	Installation of larger signal heads, signal masts & reflective back plates at 3 major intersections; left turn signal phase at Foothill Blvd./Emerald Ave.; and installation of pedestrian countdown signals at 8 intersections	\$ 409,200	\$ 409,200	Past due (due 3/31/2017)	Due by 6/30/2019	Yes (PE)

**SSARP Projects vs Cycle 9**

Year Selected	Agency	SSARP Funds	Allocation Date	# of Cycle 9 Applications Submitted	From SSARP?	# of applications from SSARP?		First Time Submitting HSIP Application?	Last cycle to submit	Comments	Total # of projects programmed prior to Cycle 9
						Aside	BCR				
2016	Monterey	\$ 198,000	07/05/2016	2	1	0	1	No	Cycle 3	Sent in 2 applications	1
2016	Monterey County	\$ 90,000	07/08/2016	0	n/a	n/a	n/a	No	Cycle 8	Two projects from Cycle 8	10
2016	Plumas County	\$ 90,000	07/26/2016	0	n/a	n/a	n/a	No	Cycle 8	Guardrail upgrade, this is the only application	2
2016	Merced County	\$ 108,000	07/26/2016	1	0	n/a	n/a	No	Cycle 8		8
2016	San Francisco Municipal Transportation Agency	\$ 250,000	07/29/2016	2	1	0	1	No	Cycle 4	Sent in 2 applications	5
2016	Santa Barbara County	See Note	See Note	4	4	2	2	No	Cycle 5	Came from FHWA funded LRSP pilot	6
2016	Long Beach	\$ 225,000	07/29/2016	0	n/a	n/a	n/a	No	Cycle 8		6
2016	Del Norte County / Crescent City	\$ 67,500	08/12/2016	0	n/a	n/a	n/a	No	Cycle 6		5
2016	South San Francisco	\$ 99,000	08/16/2016	2	2	1	1	No	Cycle 8		5
2016	Sanger	\$ 61,200	08/18/2016	0	n/a	n/a	n/a	n/a	n/a	have never submitted	0
2016	Eastvale	\$ 80,190	09/01/2016	1	0	n/a	n/a	No	Cycle 8		1
2016	Lemon Grove	\$ 30,690	09/01/2016	0	n/a	n/a	n/a	n/a	n/a	have never submitted	0
2016	Mono County	\$ 45,000	09/07/2016	0	n/a	n/a	n/a	n/a	n/a	have never submitted	0
2016	Fountain Valley	\$ 225,000	09/09/2016	1	1	0	1	Yes	n/a	have never submitted	0
2016	Colma	\$ 250,000	09/14/2016	1	1	0	1	Yes	n/a	have never submitted	0
2016	Los Angeles County	\$ 247,500	09/16/2016	8	0	0	0	No	Cycle 8		37
2016	TRPA / El Dorado County	\$ 225,000	09/20/2016	1	1	0	1	No	n/a		0
2016	TRPA/ South Lake Tahoe	n/a	n/a	1	1	0	1	Yes	n/a	have never submitted	0
2016	Riverside County	\$ 250,000	09/30/2016	4	2	1	1	No	Cycle 8		19
2016	Marin County (All Cities within the County)	\$ 499,500	10/06/2016	2	1	0	1	No	Cycle 8		11
2016	Navato (Marin County SSARP)	see above	See above	1	1	0	1	No	Cycle 5		1
2016	Sonoma	\$ 72,000	10/13/2016	1	0	n/a	n/a	No	Cycle 8		2
2016	Solano Transportation Authority /Benicia	\$ 500,000	10/19/2016	2	2	2	0	No	Cycle 7	Solano Trans. Authority took lead - Dixon and Solano County did not submit applications	2
2016	Solano Transportation Authority /Fairfield	see above	See above	3	3	2	1	No	Cycle 6		2
2016	Solano Transportation Authority / Suisun City	see above	See above	1	1	1	0	No	Cycle 7		3
2016	Solano Transportation Authority / Rio Vista	see above	See above	1	1	1	0	Yes	n/a		0
2016	Solano Transportation Authority / Vacaville	see above	see above	2	2	1	1	Yes	n/a		0

**SSARP Projects vs Cycle 9**

Year Selected	Agency	SSARP Funds	Allocation Date	# of Cycle 9 Applications Submitted	From SSARP?	# of applications from SSARP?		First Time Submitting HSIP Application?	Last cycle to submit	Comments	Total # of projects programmed prior to Cycle 9
						Aside	BCR				
2016	Solano Transportation Authority / Vallejo	see above	See above	2	2	1	1	No	Cycle 5		1
2016	Modesto	\$ 225,000	10/27/2016	0	n/a	n/a	n/a	n/a	Cycle 8		6
2016	Woodland	\$ 180,000	11/03/2016	2	2	1	1	No	Cycle 4		2
2016	El Cajon	\$ 67,500	11/03/2016	2	0	n/a	n/a	No	Cycle 8		12
2016	San Diego	\$ 247,500	11/07/2016	3	1	0	1	No	Cycle 8		3
2016	Humboldt County	\$ 67,500	11/14/2016	2	2	0	2	No	Cycle 8		6
2016	Tehama County	\$ 247,500	11/29/2016	5	5	0	5	No	Cycle 4		8
2016	Desert Hot Springs	\$ 90,900	12/01/2016	3	3	1	2	Yes	n/a		0
2016	Sacramento	\$ 225,000	12/16/2016	8	8	0	8	No	Cycle 8		17
2016	Ceres	\$ 73,170	12/19/2016	0	n/a	n/a	n/a	No	Cycle 8	ped xing set aside in last cycle	1
2016	San Buena Ventura	\$ 127,500	12/21/2016	0	n/a	n/a	n/a	No	n/a		0
2016	Alameda County	\$ 220,000	12/30/2016	4	3	0	3	No	Cycle 8		7
2016	San Bernardino	\$ 250,000	12/30/2016	2	2	0	2	No	Cycle 4		6
2016	Madera County	\$ 247,500	01/04/2017	0	n/a	n/a	n/a	No	Cycle 6		3
2016	La Canada Flintridge	\$ 45,000	01/04/2017	2	2	0	2	Yes	n/a		0
2016	South Gate	\$ 54,000	01/04/2017	3	3	1	2	No	Cycle 8		6
2016	Bell	\$ 19,800	01/06/2017	0	n/a	n/a	n/a	n/a	Cycle 7		1
2016	Orange County Transportation Authority (County Wide)	\$ 315,000	01/18/2017	0	n/a	n/a	n/a	n/a	n/a	Looks like no application came from this...used funds to develop guidance	0
2016	Contra Costa County	\$ 180,000	01/19/2017	4	0	n/a	n/a	No	Cycle 8		23
2016	San Pablo	\$ 225,000	01/19/2017	2	2	0	2	Yes	n/a		0
2016	Reedley	\$ 225,000	02/01/2017	1	1	0	1	No	Cycle 1		3
2016	Los Angeles	\$ 247,500	02/13/2017	3	0	n/a	n/a	No	Cycle 8		59
2016	Palos Verdes Estates	\$ 112,500	02/16/2017	0	n/a	n/a	n/a	No	Cycle 8	mbgr upgrade	1
2016	Dinuba	\$ 24,000	02/23/2017	2	2	0	2	No	Cycle 8	set aside ped crossing	1
2016	Stanislaus County	\$ 250,000	03/20/2017	1	0	n/a	n/a	No	Cycle 8		10
2016	Kingsburg	\$ 18,000	04/10/2017	0	n/a	n/a	n/a	No	Cycle 8	roundabout for their only HISP project	1
2016	Mcfarland	\$ 225,000	4/10/2017	0	n/a	n/a	n/a	No	Cycle 8	set aside ped crossing	1
2016	Hemet	\$ 90,000	04/10/2017	0	n/a	n/a	n/a	No	Cycle 8	set aside ped crossing	1
2016	Placentia	\$ 148,500	04/19/2017	1	1	0	1	Yes	n/a		0
2016	San Luis Obispo County	\$ 108,000	04/25/2017	4	0	n/a	n/a	No	Cycle 8		12

**SSARP Projects vs Cycle 9**

Year Selected	Agency	SSARP Funds	Allocation Date	# of Cycle 9 Applications Submitted	From SSARP?	# of applications from SSARP?		First Time Submitting HSIP Application?	Last cycle to submit	Comments	Total # of projects programmed prior to Cycle 9
						Aside	BCR				
2016	El Monte	\$ 247,500	04/27/2017	0	n/a	n/a	n/a	n/a	n/a	have never submitted	0
2016	Kern County	\$ 225,000	5/1/2017	4	0	n/a	n/a	No	Cycle 8		14
2016	Millbrae	\$ 49,500	05/08/2017	0	n/a	n/a	n/a	n/a	n/a	have never submitted	0
2016	Compton	\$ 247,500	05/22/2017	0	n/a	n/a	n/a	No	Cycle 8		3
2017	El Dorado County	\$ 180,000	05/26/2017	6	0	n/a	n/a	No	Cycle 8		11
2017	Elk Grove	\$ 250,000	05/26/2017	3	0	n/a	n/a	No	Cycle 8		3
2017	Paradise	\$ 225,000	05/26/2017	1	1	0	1	No	Cycle 7		6
2017	Rancho Cordova	\$ 63,000	05/26/2017	1	1	0	1	No	Cycle 8		6
2017	Yuba County	\$ 162,000	05/26/2017	2	0	n/a	n/a	No	Cycle 8		10
2016	Lake Elsinore	\$ 49,500	05/30/2017	1	1	0	1	No	Cycle 8		1
2017	Fremont	\$ 247,500	06/27/2017	2	0	n/a	n/a	No	Cycle 8		9
2017	Sunnyvale	\$ 250,000	07/18/2017	3	0	n/a	n/a	No	Cycle 8		6
2017	La Quinta	\$ 139,500	07/24/2017	0	n/a	n/a	n/a	No	Cycle 7		2
2017	Placer County	\$ 135,000	08/01/2017	1	1	0	1	No	Cycle 8		12
2017	West Sacramento	\$ 135,000	08/01/2017	4	4	1	3	No	Cycle 7		1
2017	Yuba City	\$ 144,000	08/01/2017	1	0	n/a	n/a	No	Cycle 5		1
2016	Daly City	\$ 135,000	08/16/2017	0	n/a	n/a	n/a	No	Cycle 4		2
2016	Kings County	\$ 90,000	08/18/2017	3	3	0	3	No	Cycle 8		4
2016	Hermosa Beach	\$ 84,150	08/23/2017	0	n/a	n/a	n/a	No	Cycle 3		1
2017	Bell Gardens	\$ 148,500	08/24/2017	1	1	0	1	No	Cycle 8		3
2017	Redlands	\$ 248,850	08/28/2017	2	0	n/a	n/a	No	Cycle 8		9
2017	Imperial County	\$ 225,000	09/05/2017	0	n/a	n/a	n/a	No	Cycle 8		14
2017	Menifee	\$ 90,000	09/19/2017	2	0	n/a	n/a	No	Cycle 8		3
2017	Fontana	\$ 225,000	09/21/2017	0	n/a	n/a	n/a	No	Cycle 7		5
2017	Ridgecrest	\$ 67,500	10/11/2017	0	n/a	n/a	n/a	No	Cycle 8	set aside ped crossing for cycle 8	9
2017	Lancaster	\$ 225,000	11/8/2017	2	0	n/a	n/a	No	Cycle 8		15
2017	Fresno	\$ 225,000	11/29/2017	5	0	n/a	n/a	No	Cycle 8		19
2017	Pismo Beach	\$ 249,300	12/11/2017	0	n/a	n/a	n/a	No	Cycle 7		1
2017	Ontario	\$ 249,750	12/20/2017	0	n/a	n/a	n/a	No	Cycle 6		7
2017	Moreno Valley	\$ 135,000	1/3/2018	2	0	n/a	n/a	No	Cycle 8		12
2017	Santa Clarita	\$ 90,000	1/9/2018	2	0	n/a	n/a	No	Cycle 8		14
2017	Twentynine Palms	\$ 225,000	1/18/2018	1	1	0	1	No	Cycle 7		1
2017	Goleta	\$ 225,000	1/31/2018	0	n/a	n/a	n/a	No	Cycle 7		2
2017	Baldwin Park	\$ 121,500	2/20/2018	0	n/a	n/a	n/a	No	Cycle 5		2
2017	West Covina	\$ 54,000	2/20/2018	0	n/a	n/a	n/a	No	Cycle 6		5

**SSARP Projects vs Cycle 9**

Year Selected	Agency	SSARP Funds	Allocation Date	# of Cycle 9 Applications Submitted	From SSARP?	# of applications from SSARP?		First Time Submitting HSIP Application?	Last cycle to submit	Comments	Total # of projects programmed prior to Cycle 9
						Aside	BCR				
2017	California City	\$ 84,600	2/23/2018	0	n/a	n/a	n/a	No	Cycle 6		2
2017	South Pasadena	\$ 180,000	3/2/2018	0	n/a	n/a	n/a	No	Cycle 7		3
2017	Atwater	\$ 112,500	3/6/2018	0	n/a	n/a	n/a	No	Cycle 7		1
2017	Wildomar	\$ 75,510	3/8/2018	0	n/a	n/a	n/a	No	Cycle 8		4
2016	La Habra	\$ 135,000	3/8/2018	2	2	0	2	No	Cycle 4		1
2017	Stockton	\$ 250,000	3/28/2018	9	0	n/a	n/a	No	Cycle 8		25
2017	National City	\$ 90,000	5/4/2018	4	0	n/a	n/a	No	Cycle 8		14
2017	Rialto	\$ 54,000	5/11/2018	2	0	n/a	n/a	No	Cycle 8		7
2017	Mission Viejo	\$ 250,000	5/11/2018	1	0	n/a	n/a	No	Cycle 8		2
2017	Orange County	\$ 247,500	5/11/2018	0	n/a	n/a	n/a	No	Cycle 7		4
2017	Arroyo Grande	\$ 67,500	5/15/2018	0	n/a	n/a	n/a	No	Cycle 5		1
2017	Azusa	\$ 90,000	5/18/2018	0	n/a	n/a	n/a	No	Cycle 6		1
2017	Cudahy	\$ 135,000	5/18/2018	0	n/a	n/a	n/a	No	Cycle 7		2
2017	Montebello	\$ 225,000	5/18/2018	0	n/a	n/a	n/a	No	Cycle 7		5
2017	Pico Rivera	\$ 180,000	5/24/2018	0	n/a	n/a	n/a	No	Cycle 8		6
2017	Montclair	\$ 189,000	6/21/2018	0	n/a	n/a	n/a	No	Cycle 6		1
2017	Fowler	\$ 18,000	6/30/2018	0	n/a	n/a	n/a	No	Cycle 5		2
Total number of Agencies	109 agencies			164	79	16	63				
Agencies with SSARPs that didn't submit an application		43			48%	20%	80%				
How many agencies had never had an HSIP application programmed		9									
How many agencies submitted applications previously but have not had a project programmed within the last 2 cycles		11									
Total number of HSIP applications that SSARP may have helped bring agency back to program		36									

**HSIP Cycle 9 - Project Selection Analysis (Draft - Do not distribute)**

**BCR Applications**

BCR>	HSIP \$ (non HFST)	HSIP \$ (HFST)
1	\$ 279,378,464	\$ 19,502,520
2.5	\$ 279,378,464	\$ 19,502,520
3.5	\$ 277,068,614	\$ 19,309,320
4	\$ 244,067,605	\$ 18,399,820
5	\$ 222,148,195	\$ <b>12,003,760</b>
6	\$ 187,687,595	\$ 7,508,500
7	\$ 153,809,020	\$ 6,826,200
8	\$ <b>134,436,495</b>	\$ 5,750,400
9	\$ 106,348,311	\$ 5,750,400
10	\$ 93,194,541	\$ 5,750,400
11	\$ 80,236,011	\$ 3,951,100

\* Set-aside for High Friction Surface Treatment: \$5 million.

**Set-asides**

	Max HSIP Amount (million)	HSIP \$	BCR>=8	Difference
Set-aside for Guardrail Upgrade	<b>20</b>	\$ 21,592,283	\$ 978,800	\$ 20,613,483
Set-aside for Horizontal Curve Signing	<b>5</b>	\$ 648,800	\$ -	\$ 648,800
Set-aside for Pedestrian Crossing Enhancements	<b>8</b>	\$ 16,285,534	\$ 3,086,813	\$ 13,198,721
Set-aside for Tribes	<b>2</b>	\$ 842,606	\$ -	\$ 842,606
<b>Total</b>	<b>35</b>	\$ 39,369,223	\$ 4,065,613	\$ <b>35,303,610</b>

5

**Total HSIP Funds**

**\$ 181,743,865**

**Agencies that will have at least \$3 million (excluding set-asides)**

Agency	HSIP Funds Awarded
Alameda County	\$ 6,067,730
El Cajon	\$ 4,818,534
Fresno	\$ 3,353,792
Kern County	\$ 6,687,500
Sacramento	\$ 3,966,840
Sacramento County	\$ 4,701,040
San Bernardino	\$ 9,832,200
Tulare County	\$ 3,223,600

### HSIP Cycle 9 - Project Selection Summary (DRAFT - Do Not Distribute)

	Count	HSIP Amounts	HSIP \$ per Application	Average BCR
<b>Applications</b>	351	\$ 411,006,986	\$ 1,170,960	
<b>Applications to be funded</b>	220	\$ 181,743,865	\$ 826,108	
	63%	44%		
<b>BCR Applications</b>	241	\$ 340,971,003	\$ 1,414,817	11.8
<b>BCR Applications to be funded</b>	121	\$ 130,370,882	\$ 1,077,445	17.7
	50%	38%		
<b>Set-aside Applications</b>	95	\$ 39,828,323	\$ 419,246	
<b>Set-aside Applications to be funded</b>	92	\$ 39,369,223	\$ 427,926	
	97%	99%		
<b>Set-aside Applications to be funded as BCR</b>	9	\$ 4,065,613	\$ 451,735	39.1
<b>HFST Applications</b>	15	\$ 30,207,660	\$ 2,013,844	7.2
<b>HFST Applications to be funded</b>	7	\$ 12,003,760	\$ 1,714,823	9.8
	47%	40%		
<b>Applications from SSARP</b>	79	\$ 101,128,930	\$ 1,280,113	
<b>Applications from SSARP to be funded</b>	57	\$ 59,465,110	\$ 1,043,248	
	72%	59%		
<b>BCR Applications from SSARP</b>	59	\$ 91,147,619	\$ 1,544,875	14.8
<b>BCR Applications from SSARP to be funded</b>	37	\$ 49,483,799	\$ 1,337,400	20.3
	63%	54%		
<b>Applications from Tribes</b>	9	\$ 4,329,456	\$ 481,051	
<b>Applications from Tribes to be funded</b>	6	\$ 1,193,806	\$ 198,968	
	67%	28%		

### HSIP Obligation Authority (OA) vs. Obligation

FFY	Total OA Available	Obligation (OA used)	End OA Balance	Change
2013/14			\$ 186,646,478	
2014/15	\$ 227,544,844	\$ 66,079,346	\$ 161,465,497	\$ (25,180,981)
2015/16	\$ 245,807,197	\$ 96,936,121	\$ 148,871,077	\$ (12,594,420)
2016/17	\$ 218,018,521	\$ 85,193,868	\$ 132,824,653	\$ (16,046,424)
2017/18	\$ 203,043,326	\$ 53,298,387	\$ 149,744,939	\$ 16,920,286

### Existing HSIP Projects that need to be programmed in FTIP (Status as of 10/19/18)

Cycle	Need FTIP	Con due date	
1	\$ -		
2	\$ 400,000		
3	\$ 1,243,192		
4	\$ 1,395,297		
5	\$ 2,041,100		
6	\$ 22,324,015		\$ 27,403,604
7	\$ 124,182,295	12/31/18 or 6/30/19	(Cycles 1 to 6)
8	\$ 184,669,361	12/31/19 or 6/30/20	

Total        \$        **336,255,260**

S3, Improve signal timing (coordination, phases, red, yellow, or operation)

For HSIP Calls-for-projects			
Funding Eligibility	Crash Types Addressed	CRF	Expected Life
50% federal funding	All	15%	10 years
Notes:	<p>This CM only applies to crashes occurring on the approaches / influence area of the new signal timing. For projects coordination signals along a corridor, the crashes related to side-street movements should not be applied. This CM does not apply to projects that only 'study' the signal network and do not make physical timing changes, including corridor operational studies and improvements to Traffic Operation Centers (TOCs).</p> <p>In Caltrans calls for projects, this CM has a federal reimbursement ratio of 50%, considering that it will improve the signal operation rather than merely the safety.</p>		
General information			
<b>Where to use:</b>			
Locations that have a crash history at multiple signalized intersections. Signalization improvements may include adding phases, lengthening clearance intervals, eliminating or restricting higher-risk movements, and coordinating signals at multiple locations. Understanding the corridor or roadway's crash history can provide insight into the most appropriate strategy for improving safety.			
<b>Why it works:</b>			
Certain timing, phasing, and control strategies can produce multiple safety benefits. Sometimes capacity improvements come along with the safety improvements and other times adverse effects on delay or capacity occur. Corridor improvements often have the highest benefit but may take longer to implement. Projects focused on capacity improvements (without a separate focus on signal timing safety needs) may not result in a reduction in future crashes.			
<b>General Qualities (Time, Cost and Effectiveness):</b>			
In general, these low-cost improvements to multiple signalized intersections can be implemented in a short time. Typically these low cost improvements are funded through local funding by local maintenance crews. However, some projects requiring new interconnect infrastructure can have moderate to high costs making them more appropriate to seek state or federal funding. The expected effectiveness of this CM must be assessed for each individual project.			
<b>FHWA CMF Clearinghouse:</b>	Crash Types Addressed:	All	CRF: 0 - 41%

S4, Provide Advanced Dilemma-Zone Detection for high speed approaches

For HSIP Calls-for-projects			
Funding Eligibility	Crash Types Addressed	CRF	Expected Life
100% federal funding	All	40%	10 years
Notes:	<p>This CM only applies to crashes occurring on the approaches / influence area of the new detection and signal timing.</p>		
General information			
<b>Where to use:</b>			
More rural/remote areas that have a high frequency of right-angle and rear-end crashes. The Advanced Dilemma-Zone Detection system enhances safety at signalized intersections by modifying traffic control signal timing to reduce the number of drivers that may have difficulty deciding whether to stop or proceed during a yellow phase. This may reduce rear-end crashes associated with unsafe stopping and angle crashes due to illegally continuing into the intersection during the red phase.			
<b>Why it works:</b>			
Clearance times provide safe, orderly transitions in ROW assignment between conflicting streams of traffic. An Advanced Dilemma-Zone Detection system has several benefits relative to traditional multiple detector systems, which have upstream detection for vehicles in the dilemma zone but do not take the speed or size of individual vehicles into account. These benefits include: Reducing the frequency of red-light violations; Reducing the frequency of crashes associated with the traffic signal phase change (for example, rear-end and angle crashes); Reducing delay and stop frequency on the major road and a reduction in overall intersection delay.			
<b>General Qualities (Time, Cost and Effectiveness):</b>			
Installation costs should be low and the time to implement short. Additional modifications to the traffic signal controller may also necessary. In general, This CM can be very effective and can be considered on a systematic approach. Video detection equipment is now available for this purpose, making installation and maintenance more efficient.			
<b>FHWA CMF Clearinghouse:</b>	Crash Types Addressed:	All	CRF: 39%