

### PROGRAM FOR ARTERIAL SYSTEM SYNCHRONIZATION (PASS)

**FY 18/19 CYCLE** 

### **PROGRAM SUMMARY**

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# PASS FY2018/19 Cycle Program Summary

#	County	Project Sponsors	# of Traffic Signals	Timing Plans/Services	Project Consultant		
1	AL	City of Berkeley	20	Weekday Peaks and Mid / Weekend Peaks and Mid	DKS Associates		
2	SC	City of Campbell	15	Weekday Peaks and Mid/ Weekend Peaks	Iteris, Inc.		
3	SC	City of Cupertino	12	Weekday Peaks and Mid / Weekend Peaks	Iteris, Inc.		
4	SOL	City of Fairfield	37	Weekday Peaks, Mid and School / Weekend Peaks / TSP and Ramp Metering Timing	TJKM Transportation Consultants		
5	MR	Marin County	13	Weekday Peaks, Mid and Off-Peak / Weekend Peaks	DKS Associates		
6	SC	City of Palo Alto	19	Weekday Peaks and Mid / Weekend Peaks	TJKM Transportation Consultants		
7	CC	City of Pittsburg	16	Weekday Peaks and School	TJKM Transportation Consultants		
8	CC	City of Richmond	15	Weekday Peaks and Schools, Weekend Peaks	Iteris, Inc.		
9		West Contra Costa Transportation Advisory Committee (WCCTAC)	110	Weekend Peaks, Weekday Peaks, Special Event Plans	Kimley-Horn and Associates, Inc.		
	Total Signals						

Note: AL = Alameda, CC = Contra Costa, MR = Marin, SC = Santa Clara, SOL = Solano County

#### **Benefit/Cost Summary\*:**

Total Lifetime Benefits: \$86,183,833

Total Program Costs: \$1,415,050

Overall Program Benefit/Cost Ratio: 61:1

#### LIFETIME (5 YRS) PROGRAM BENEFITS:



Auto Travel Time Savings: 23% (3.2 million hrs.)



Average Increase in Auto Speed: 38%



Fuel Consumption Savings: 16% (3.1 million gal.)



Total Emissions Reduced: 124 tons

(ROG, NOx, PM2.5, CO)

<sup>\*</sup>The Program benefits are assumed to be 100% on the first day after implementation of the new timing plans, declining steadily to zero by the end of the fourth year.

# PASS FY2018/19 Cycle Summary of Benefits

Lifetime (5 Years) Project Benefits	Berkeley	Campbell	Cupertino	Fairfield	Marin County	Palo Alto	Pittsburg	Richmond	WCCTAC
Benefit/Cost Ratio	29	59	25	61	27	379	77	18	12
Auto Travel Time Savings (%)	13%	26%	21%	23%	7%	56%	31%	15%	15%
Auto Travel Time Savings (hours	140,809	154,172	55,672	384,749	90,730	1,957,061	159,204	68,782	186,986
Average Reduction in Auto Signal Delay (%)	25%	56%	56%	59%	17%	39%	63%	56%	36%
Average Reduction in Number of Stops (%)	11%	47%	47%	47%	13%	30%	44%	47%	34%
Average Increase in Speed (%)	18%	27%	32%	48%	10%	107%	69%	12%	22%
Fuel Consumption Savings (%)	7%	21%	18%	19%	6%	21%	27%	12%	11%
Fuel Consumption Savings (gallons	236,548	475,100	142,999	561,355	308,457	674,311	214,829	225,520	302,323
Total Emissions Reduction (tons)	7.7	19.4	5.9	22.8	12.3	24.0	8.7	11.4	12.1