



**METROPOLITAN
TRANSPORTATION
COMMISSION**

PROGRAM FOR ARTERIAL SYSTEM SYNCHRONIZATION (PASS)

FY 17/18 CYCLE

PROGRAM SUMMARY

MTC Contact:
Robert Rich
PASS Program Manager
Tel: 415.778.6621
Email: RRich@BayAreaMetro.gov

PASS FY2017/18 Cycle Program Summary

#	County	Project Sponsors	# of Traffic Signals	Timing Plans/Services	Project Consultant
1	SM	City of Belmont	19	Weekday / School Peaks	TJKM Transportation Consultants
2	CC	City of Concord	67	Weekday Peaks	TJKM Transportation Consultants
3	SC	City of Cupertino	14	Weekday / School Peaks	Iteris, Inc.
4	CC	Town of Danville	21	Weekday / School Peaks	TJKM Transportation Consultants
5	AL	City of Emeryville	41	Weekday / Weekend / Holiday Peaks; TSP Timing	Kimley-Horn and Associates, Inc.
6	SN	City of Rohnert Park	21	Weekday / Weekend Peaks	DKS Associates
7	SC	City of San Jose	44	Weekday / Weekend Peaks	Iteris, Inc.
8	MR	City of San Rafael	54	Weekday / Weekend Peaks	DKS Associates
9	CC	City of Walnut Creek	34	Weekday Peaks; Traffic Responsive Plans Update	Kimley-Horn and Associates, Inc.
Total Signals			315		

Note: AL = Alameda, CC = Contra Costa, MR = Marin, SC = Santa Clara, SM = San Mateo, SN = Sonoma

Benefit/Cost Summary*:

Total Lifetime Benefits: \$90,878,940

Total Program Costs: \$1,386,900

Overall Program Benefit/Cost Ratio: 66:1

*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.

LIFETIME (5 YRS) PROGRAM BENEFITS:



Auto Travel Time Savings: 21% (3.2 million hrs.)



Average Increase in Auto Speed: 29%








Fuel Consumption Savings: 17% (6.1 million gal.)



Total Emissions Reduced: 248 tons:
(ROG, NO_x, PM_{2.5}, CO)

PASS FY2017/18 Cycle Summary of Benefits

Lifetime (5 Years) Project Benefits	Belmont	Concord	Cupertino	Danville	Emeryville	Rohnert Park	San Jose	San Rafael	Walnut Creek
Benefit/Cost Ratio	122.2	91.3	88.2	33.3	17.0	59.9	41.0	40.0	196.1
 Auto Travel Time Savings (%) Auto Travel Time Savings (hours)	21% 369,611	18% 657,638	26% 279,134	19% 115,349	22% 109,978	22% 272,958	13% 354,446	21% 344,220	25% 692,839
 Average Reduction in Auto Signal Delay (%) Average Reduction in Number of Stops (%)	47% 12%	41% 28%	56% 47%	64% 60%	32% 26%	57% 24%	56% 47%	41% 22%	48% 44%
 Average Increase in Speed (%)	21%	25%	375	35%	30%	31%	18%	25%	41%
 Fuel Consumption Savings (%) Fuel Consumption Savings (gallons)	17% 640,978	15% 1,468,362	21% 651,322	15% 173,180	17% 246,758	20% 375,026	11% 738,720	17% 606,171	21% 1,235,807
 Total Emissions Reduction (tons)	25.7	59.6	26.4	7.3	9.5	15.1	30.5	24.5	49.9