

IDEA Category 1 Applications and Recommendations
Category 1: Deploy Mature, Commercially-available Advanced Technologies

	County	Agency	Project Corridor(s)	Project Description	Full Project Budget	Requested Grant Amount	Recommended Grant Amount
1	Multi-county	AC Transit	Dumbarton Express Route (SR84)	Expand existing TSP; implement bus queue jump lanes [a]	\$ 3,685,651	\$ 2,733,803	\$ 2,300,000
2	Alameda	City of Alameda	SR260 (Webster & Posey tubes), Park St.	Deploy ATSPM, bluetooth units, automated pedestrian detection	\$ 369,000	\$ 276,000	\$ 276,000
3	Contra Costa	City of Concord	Clayton Rd and Treat Blvd	Deploy ATSPM, fish-eye cameras	\$ 716,040	\$ 537,030	
4	Alameda	City of Dublin	Dublin Blvd, Dougherty Rd, Tassajara Rd	Deploy ATSPM and bike detection; expand adaptive traffic signal system	\$ 929,461	\$ 650,119	
5	Solano	City of Fairfield	Air Base Parkway, North Texas St, Peabody Rd	Deploy ASCT, CCTV cameras	\$ 1,712,500	\$ 1,284,375	
6	Alameda	City of Fremont	Citywide	Install new EVP system	\$ 625,000	\$ 468,750	
7	Alameda	City of Hayward	Tennyson Rd, Foothill Blvd, 2nd St, Mission St, Jackson St	Deploy ATSPM	\$ 401,925	\$ 301,444	\$ 302,000
8	San Mateo	City of Menlo Park	Willow Rd, Marsh Rd, Bayfront Expressway	Implement signal timing plans for existing ASCT	\$ 275,000	\$ 250,000	
9	Alameda	City of Oakland	Bancroft Ave	Implement bicycle greenwave	\$ 403,300	\$ 306,000	\$ 310,000
10	Alameda	City of Pleasanton	Hacienda Dr, Hopyard Rd, Stoneridge Dr, Owens Dr, Foothill Blvd, Santa Rita Rd, W. Los Positas, Sunol Blvd, Vineyard Av	Deploy ATSPM; data integration	\$ 387,000	\$ 290,250	\$ 290,000
11	Sonoma	City of Rohnert Park	Rohnert Park Expwy, Golf Course Dr, Commerce Blvd	Deploy ASCT; expand existing EVP	\$ 797,900	\$ 542,200	
12	San Mateo	City of San Carlos	Citywide	Deploy ATSPM and video detection	\$ 661,000	\$ 434,600	
13	Santa Clara	City of San Jose	Citywide	Deploy ATSPM	\$ 2,158,750	\$ 1,619,062	\$ 1,400,000
14	Alameda	City of San Leandro	Marina Blvd, Hesperian Blvd	Expand existing ASCT; deploy ATSPM; install pedestrian detection	\$ 778,980	\$ 544,204	
15	Marin	City of San Rafael	Downtown San Rafael	Deploy ATSPM [b]	\$ 2,352,410	\$ 1,735,115	\$ 830,000
16	Contra Costa	City of San Ramon	Bollinger Canyon Rd, Crow Canyon Rd	Deploy ATSPM and fish-eye cameras; upgrade signal infrastructure	\$ 762,372	\$ 563,308	\$ 563,000
17	Santa Clara	City of Santa Clara	Great America Parkway	Deploy ASCT	\$ 404,000	\$ 299,000	
18	Santa Clara	County of Santa Clara	Lawrence Expwy, San Tomas Expwy, Foothill Expwy	Install bike/pedestrian detection	\$ 1,100,000	\$ 825,000	
19	Santa Clara	Santa Clara Valley Transit Authority	N. First St, Tasman Dr	Install advanced pedestrian crossing technology; implement archived video and video analytics	\$ 2,265,000	\$ 1,698,750	
20	San Mateo	City of South San Francisco	Airport Blvd, South Airport Blvd, Gateway Blvd, Oyster Pt Blvd, Forbes Blvd, East Grand Av	Deploy ATSPM; implement variable lane assignment	\$ 709,825	\$ 532,000	\$ 532,000
21	Santa Clara	City of Sunnyvale	Sunnyvale-Saratoga, Mathilda Av, Wolfe Rd, Fair Oaks Av, Homestead Rd, Maude Av, Caribbean Dr	Install video sensors, CCTV cameras, thermal imaging pedestrian detection	\$ 2,844,000	\$ 2,133,000	
22	Marin	Transportation Authority of Marin	Sir Francis Drake Blvd	Deploy ASCT, ATSPM, bicycle/pedestrian detection, TSP	\$ 1,255,000	\$ 930,000	
23	Alameda	City of Union City	Union City Blvd, Decoto Rd	Expand existing ASCT; deploy ATSPM, bicycle/pedestrian detection; upgrade signal infrastructure	\$ 1,098,265	\$ 709,765	\$ 710,000
24	Solano	City of Vallejo	Tennessee St, Georgia St, Broadway St	Install fish-eye cameras; deploy ATSPM	\$ 682,871	\$ 461,062	
25	Multi-county	MTC	Various	Technical Assistance			\$ 487,000
Total IDEA Category 1					\$ 27,375,250	\$ 20,124,837	\$ 8,000,000

Notes: [a] Final project scope will be determined in consultation with applicable stakeholders of MTC's Dumbarton Forward project.

[b] Omits the ASCT element of the application due to justification of need.

Acronyms: ASCT = Adaptive Signal Control Technology; ATSPM = Automated Traffic Signal Performance Measures; CCTV = Closed Circuit Television;
EVP = Emergency Vehicle Preemption; TSP = Transit Signal Priority

IDEA Category 2 Applications and Recommendations

Category 2: Deploy and Pilot Connected and Automated Vehicle Technologies

	County	Agency	Project Corridor(s)	Project Description	Full Project Budget	Requested Grant Amount	Recommended Grant Amount
1	San Mateo	City of Belmont	Ralston Ave.	Deploy ASCT and CV EVP.	\$ 960,000	\$ 710,000	
2	San Mateo	City/County Association of Governments	State Route 82 (El Camino Real)	Deploy eco-driving application that recommends to auto drivers the optimal speed to drive to increase arrivals on green phases, to minimize intersection delay and stops.	\$ 1,312,240	\$ 984,180	
3	Contra Costa	Contra Costa Transportation Authority	Concord Blvd., Clayton Rd. and Willow Pass Rd.	Deploy next generation TSP, an eco-driving application that recommends a speed for transit vehicles to increase their arrivals on green phases; deploy a transit passenger application to improve the reliability of connections for riders transferring from BART.	\$ 747,271	\$ 560,453	\$ 560,000
4	Alameda	City of Dublin	Citywide	Deploy an SAV on city streets; implement pedestrian/bicycle and CV transit applications.[a]	\$ 650,133	\$ 443,433	\$ 385,000
5	Alameda	City of Emeryville	Powell, Shellmound, Christie and 40th St.	Deploy ATSPM and TSP; implement virtual bicycle detection technology that utilizes a mobile device application to increase bicycle arrivals on green phases.	\$ 1,099,251	\$ 784,313	\$ 785,000
6	Alameda	City of Fremont	Fremont Blvd., Auto Mall Parkway and Warren Ave.	Implement a mobile application for Tesla truck drivers to provide arrival time to manufacturing operators at Tesla's Fremont facility and deploy Freight Signal Priority using DSRC-enabled truck platoons.	\$ 625,000	\$ 468,750	
7	Contra Costa	City of Lafayette	Mt. Diablo Boulevard, Moraga Rd. and Pleasant Hill Rd.	Install video detection and CV roadside units to transmit SPaT data to facilitate improved signal timing.	\$ 385,020	\$ 269,901	
8	Santa Clara	Town of Los Gatos	Los Gatos Boulevard	Deploy ASCT, ATSPM, and a virtual bicycle detection application that utilizes a mobile device application to increase bicycle arrival on green phases.	\$ 1,075,600	\$ 698,500	\$ 700,000
9	Santa Clara	City of Mountain View	N.Rengstroff, W MiddleField and Charleston Rd.	Deploy ATSPM, ASCT, bicycle/pedestrian detection, bluetooth devices, CV TSP, dynamic transit routing, and DSRC-enabled bicycle safety system.	\$ 3,161,000	\$ 1,846,000	
10	Santa Clara	City of Palo Alto	Bryant, N. California and Embarcardero	Implement a system that provides real-time speed guidance to bicycles to increase their arrivals on green phases via dynamic signage and real-time route guidance.	\$ 939,000	\$ 704,200	
11	Alameda	City of Pleasanton	Citywide	Implement an application that provides safety and eco-driving notifications to automobiles and a predictive analytical tool using video data to gauge possible traffic conflicts.	\$ 1,491,390	\$ 1,118,543	
12	Santa Clara	Valley Transportation Authority	N. First Street Corridor and Tasman	Deploy and test a new vulnerable road user protection system where roadside detection directly alerts a CV of the presence of a bicyclist or pedestrian at the intersection.	\$ 361,012	\$ 274,762	
13	Santa Clara	Valley Transportation Authority	Veterans Administration Palo Alto Medical Center	Deploy an eAV that is accessible to persons with disabilities for deployment at Veterans Administration Palo Alto Medical Center.	\$ 1,112,020	\$ 829,316	\$ 830,000
14	Contra Costa	City of Walnut Creek	California Blvd. Main St. Broadway St. Creekside Dr. and Locust St.	Deploy a CV TSP application designed to reduce energy and emissions	\$ 892,745	\$ 675,050	\$ 680,000
15	Contra Costa	City of Walnut Creek	Olympic Blvd. S. California Blvd, and Newell Avenue	Deploy CV TSP and EVP, bicycle/pedestrian detection, bluetooth devices.	\$ 1,121,000	\$ 836,000	
16	Multi-county	MTC	Various	Technical Assistance			\$ 1,060,000
Total IDEA Category 2					\$ 15,932,682	\$ 11,203,401	\$ 5,000,000

Notes: [a] Omits the bikeshare station in the application, as it is an ineligible project under the IDEA Grant Program.

Acronyms: ASCT = Adaptive Signal Control Technology; ATSPM = Automated Traffic Signal Performance Measures; CV = Connected Vehicle; DSRC = Dedicated Short Range Communications; eAV = Electric Automated Vehicle; EVP = Emergency Vehicle Preemption; SAV = Shared Autonomous Vehicle; TSP = Transit Signal Priority