



DRAFT TRANSPORTATION PROJECT LIST

MAY 2021



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Draft Plan Bay Area 2050: Transportation Project List

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Acknowledgements

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Draft Plan Bay Area 2050 Transportation Project List

The Draft Plan Bay Area 2050 Transportation Project List highlights the project and program investments that comprise each of the 12 transportation strategies, as well as components of several environmental strategies funded with Plan Bay Area 2050’s transportation revenues. Under federal and state regulations, the Transportation Project List is fiscally constrained based upon reasonably anticipated monies.

The Transportation Project List was approved by the Commission as part of the Final Blueprint approval in fall 2020, as it specifies key details about the transportation strategies in Plan Bay Area 2050. The projects and programs listed in the table below are consistent with the Final Blueprint approval action by the Commission; however, some investment groupings have been modified to enable the inclusion of design scopes. These changes are merely administrative and do not change the transportation investments that are included in the Transportation Project List or which projects can be constructed in the years ahead. The administrative changes merely alter how some projects and programs are listed in the table below.

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOY)
T01	21-T01-001	Operate & Maintain the Existing System Baseline Public Transit Service Levels Regional	This program includes funding to operate the Bay Area's baseline transit services. Improvements include operations, routine preventative maintenance, and investments to restore transit service hours to 2019 levels.	Various	\$211,000
T01	21-T01-002	Operate & Maintain the Existing System Public Transit Capital Assets Regional	This program includes funding to maintain and replace the Bay Area's baseline transit capital assets. Improvements include vehicle rehabilitation or replacement; reconstruction or renovation of transit buildings and structures; and rehabilitation or reconstruction of track.	Various	\$59,500
T01	21-T01-003	Operate & Maintain the Existing System Local Streets & Roads Regional	This program includes funding to operate and maintain the Bay Area's local streets and roads. Improvements include routine patching and pothole repair; sweeping and cleaning; signal operations; lighting; resurfacing or rehabilitation with no new capacity; preventative maintenance; and emergency repair.	Various	\$61,900
T01	21-T01-004	Operate & Maintain the Existing System Local Bridges Regional	This program includes funding to operate and maintain the Bay Area's local bridges. Improvements include bridge rehabilitation, replacement or retrofitting with no new capacity.	Various	\$2,550
T01	21-T01-005	Operate & Maintain the Existing System Toll Bridges Regional	This program includes funding to operate and maintain the Bay Area's seven state-owned toll bridges and generally implement the region's Toll Bridge Program. Improvements include toll bridge rehabilitation, replacement or retrofitting with no new capacity, and toll operations.	Various	\$21,900
T01	21-T01-006	Operate & Maintain the Existing System Highways Regional	This program includes funding to operate and maintain the Bay Area's state highways and generally implement the State Highway Operation and Protection Program (SHOPP). Improvements include resurfacing and/or rehabilitation with no new capacity, preventative maintenance, and emergency repair.	Various	\$24,400
T01	21-T01-007	Other Investments to Operate & Maintain the Existing System Regional	This program includes funding to implement other programmatic investments to operate and maintain the Bay Area's transportation systems. This program generally implements county, transit agency and other local programs and initiatives to improve upon baseline transit conditions. Improvements include resurfacing and/or rehabilitation of local streets and roads; construction of new bus or rail storage/maintenance facilities; and modernization or minor expansions of transit structures and facilities outside existing right-of-way, such as stations or rail yards. Example investments include implementation of BART's Hayward Maintenance Complex, Electrical & Mechanical Infrastructure Program, and Seismic Retrofit Program; Marin Transit's Operations & Maintenance Facility; VINE's Maintenance Facility; and the Caldecott Tunnel (Bore 1 & 2) Modernization.	Various	\$8,300
T02	21-T02-008	Community-Led Transportation Enhancements in Equity Priority Communities Regional	This program includes funding to implement transportation priorities identified by the Bay Area's Equity Priority Communities. Improvements could include lighting and safety measures; improvements to transit stations and stops; and subsidies for shared mobility, like bike share or car share.	Various	\$8,000
T03	21-T03-009	Seamless Mobility Enhancements Regional	This program includes funding to deploy a smartphone app for trip planning, payment and real-time passenger information, and to implement county, transit agency and other local station access and mobility programs and initiatives. Improvements include bus stop modernization; small passenger shelters and information kiosks; transfer centers; and station access improvements, including wayfinding signage.	Various	\$3,440
T04	21-T04-010	Regional Transit Fare Policy Regional	This program includes funding to implement a streamlined fare structure across the Bay Area's transit operators and replace operator-specific fare programs with an integrated regional fare structure and means-based fare discount.	Various	\$10,000

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T04	21-T04-011	Local Transit Fare Policy Regional	This program includes funding to implement county, transit agency and other local programs and initiatives to implement discount transit fare programs. This program includes funding to implement VTA's Measure B Affordable Fare Program.	Various	\$44
T05	21-T05-012	Per-Mile Tolling Regional	This program includes funding to implement toll infrastructure, such as toll gantries, to collect per-mile tolls charged to vehicles on the Bay Area's congested freeway corridors with transit alternatives. Toll corridors include: I-80 (ALA, CC, SOL); I-238 (ALA); I-280 (SF, SM, SCL); I-380 (SM); I-580 (ALA); I-680 (ALA, CC, SCL); I-880 (ALA, SCL); US-101 (MRN, SF, SM, SCL, SON); SR-4 (CC); SR-17 (SCL); SR-24 (ALA, CC); SR-85 (SCL); SR-87 (SCL); SR-92 (SM); SR-237 (SCL); and SR-242 (CC).	2021 - 2035	\$1,000
T06	21-T06-013	Corridor & Interchange Improvements I-80 Contra Costa County	This program includes funding to implement interchange improvements at Central Ave, San Pablo Dam Rd and Pinole Valley Rd.	Various	\$128
T06	21-T06-014	Corridor & Interchange Improvements I-80 San Francisco	This program includes funding to implement interchange improvements at Yerba Buena Island.	2021 - 2035	\$281
T06	21-T06-015	Corridor & Interchange Improvements I-80 Solano County	This program includes funding to implement interchange improvements at I-680/SR-12, Redwood Pkwy and Lagoon Valley Rd.	Various	\$737
T06	21-T06-016	Corridor & Interchange Improvements I-280 San Francisco	This program includes funding to implement interchange improvements at the Balboa Park Station area.	2021 - 2035	\$27
T06	21-T06-017	Corridor & Interchange Improvements I-280 Santa Clara County	This program includes funding to implement interchange improvements at Lawrence Expy/Stevens Creek Blvd, Winchester Blvd, Wolfe Rd, Saratoga Ave, SR 85/Homestead Rd, Bird Ave, and between 3rd St and 7th St; braided ramps between Foothill Expy and SR-85; and new HOV lanes between Magdalena Ave and the Santa Clara/San Mateo county line.	Various	\$595
T06	21-T06-018	Corridor & Interchange Improvements I-380 San Mateo County	This program includes funding to implement interchange improvements at US-101 and El Camino Real and a new eastbound freeway lane between I-280 and El Camino Real.	2021 - 2035	\$47
T06	21-T06-019	Corridor & Interchange Improvements I-580 Alameda County	This program includes funding to implement Design Alternatives Assessments between the Bay Bridge Toll Plaza and SR-238; for interchange improvements at Hacienda Dr/Fallon Rd and Santa Rita Rd/Tassajara Rd; and funding for a planning study to scope interchange improvements at I-680.	Various	\$316
T06	21-T06-020	Corridor & Interchange Improvements I-580 Richmond-San Rafael Bridge	This program includes funding to implement improvements to east side bridge access. It also reserves funding to implement permanent recommendations based on the third eastbound freeway lane pilot project and the westbound bicycle/pedestrian path pilot project.	2021 - 2035	\$173
T06	21-T06-021	Corridor & Interchange Improvements I-680 Alameda County	This program includes funding to implement interchange improvements at Stoneridge Dr.	2036 - 2050	\$44

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOY)
T06	21-T06-022	Corridor & Interchange Improvements I-680 Contra Costa County	This program includes funding to implement interchange improvements at SR-4, as well as and new auxiliary lanes between Rudgear Rd and El Cerro Blvd and between Bollinger Canyon Rd and Alcosta Blvd.	Various	\$473
T06	21-T06-023	Corridor & Interchange Improvements I-680 Santa Clara County	This program includes funding to implement interchange improvements at Montague Expy, Alum Rock Ave and McKee Rd.	2036 - 2050	\$97
T06	21-T06-024	Corridor & Interchange Improvements I-880 Alameda County	This program includes funding to implement interchange improvements on I-880 at Oak St/Union St, at Whipple Rd, at Winton Ave/A St, between 23rd Ave and 29th Ave, at 42nd Ave and High St, and at 5th Ave and Washington St.	2021 - 2035	\$528
T06	21-T06-025	Corridor & Interchange Improvements I-880 Santa Clara County	This program includes funding to implement interchange improvements at Montague Expy.	2036 - 2050	\$19
T06	21-T06-026	Corridor & Interchange Improvements US-101 Marin County	This program includes funding to implement interchange improvements at I-580 and a new southbound HOV lane between Novato and the Sonoma/Marin county line ("Marin-Sonoma Narrows").	2021 - 2035	\$312
T06	21-T06-027	Corridor & Interchange Improvements US-101 San Mateo County	This program includes funding to implement interchange improvements at SR-92, 3rd Ave, Holly St, Peninsula Ave, Produce Ave, Sierra Point Pkwy, University Ave, and Woodside Rd; and funding for a planning study to scope interchange improvements at Candlestick.	2021 - 2035	\$901
T06	21-T06-028	Corridor & Interchange Improvements US-101 Santa Clara County	This program includes funding to implement interchange improvements at SR-25, SR-237, Blossom Hill Rd, Buena Vista Ave, Ellis St, Mabury Rd/Taylor St, Moffett Blvd, Montague Expy, Old Oakland Rd, Shoreline Blvd, Trimble Rd/De La Cruz Blvd/Central Expy, Zanker Rd/Skyport Dr/Fourth St, and between San Antonio Rd and Charleston Rd/Rengstorff Ave; and ramp metering improvements in Morgan Hill and Gilroy.	Various	\$1,170
T06	21-T06-029	Corridor & Interchange Improvements US-101 Sonoma County	This program includes funding to implement interchange improvements at Arata Ln, Hearn Ave, Railroad Ave, and Rainier Ave and new HOV lanes through Petaluma ("Marin-Sonoma Narrows").	2021 - 2035	\$239
T06	21-T06-030	Corridor & Interchange Improvements SR-1 San Mateo County	This program includes funding to implement interchange improvements at Manor Dr and safety and operational improvements in Half Moon Bay and between Half Moon Bay and Pacifica.	2021 - 2035	\$134
T06	21-T06-031	Corridor & Interchange Improvements SR-4 Contra Costa County	This program includes funding to implement Integrated Corridor Mobility between I-80 and SR-160 and operational improvements between Port Chicago Hwy and San Marcos Blvd/Willow Pass Rd.	Various	\$259
T06	21-T06-032	Corridor & Interchange Improvements SR-17 Santa Clara County	This program includes funding to implement interchange improvements at SR-9.	2021 - 2035	\$50

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T06	21-T06-033	Corridor & Interchange Improvements SR-24 Contra Costa County	This program includes funding to implement interchange improvements at Camino Pablo and Clayton Rd and a new eastbound auxiliary lane between Wilder Rd and Camino Pablo.	2036 - 2050	\$40
T06	21-T06-034	Corridor & Interchange Improvements SR-29 Napa County	This program includes funding to implement interchange improvements at SR-221 ("Socol Junction"), Lincoln Ave, Madison St, Trower Ave, and Airport Blvd ("Airport Junction"); operational and multimodal improvements between Napa Junction and American Canyon Rd; and new highway lanes between SR-37 and American Canyon.	Various	\$217
T06	21-T06-035	Corridor & Interchange Improvements SR-37 Multiple	This program includes funding to implement new HOV lanes between Mare Island and Sears Point and toll infrastructure to collect tolls charged to westbound vehicles.	2021 - 2035	\$740
T06	21-T06-036	Corridor & Interchange Improvements SR-37 Solano County	This program includes funding to implement interchange improvements at Fairgrounds Dr.	2021 - 2035	\$23
T06	21-T06-037	Corridor & Interchange Improvements SR-84 Alameda County	This program includes funding to implement interchange improvements at I-680; and new highway lanes between Ruby Hill Dr and I-680.	2021 - 2035	\$244
T06	21-T06-038	Corridor & Interchange Improvements SR-84 Dumbarton Bridge	This program includes funding to implement the Gateway 2020 Study, including access improvements to the west side of the Dumbarton Bridge, and Dumbarton Corridor Transportation Studies at US-101, including phased implementation of near-term recommendations and environmental studies for long-term recommendations.	2036 - 2050	\$60
T06	21-T06-039	Corridor & Interchange Improvements SR-85 Santa Clara County	This program includes funding to implement interchange improvements at SR-237 and El Camino Real; auxiliary lane improvements between El Camino Real and SR-237; and a new eastbound auxiliary lane between SR-85 and Middlefield Rd.	2036 - 2050	\$80
T06	21-T06-040	Corridor & Interchange Improvements SR-87 Santa Clara County	This program includes funding to implement interchange improvements at Capitol Expy/Narvaez Ave and technology-based operational improvements between US-101 and SR-85.	2036 - 2050	\$86
T06	21-T06-041	Corridor & Interchange Improvements SR-92 Alameda County	This program includes funding to implement interchange improvements at Clawiter Rd.	2021 - 2035	\$40
T06	21-T06-042	Corridor & Interchange Improvements SR-152 Santa Clara County	This program includes funding for a planning study to scope a new alignment between US-101 and SR-156.	2021 - 2035	\$50
T06	21-T06-043	Corridor & Interchange Improvements SR-237 Santa Clara County	This program includes funding to implement interchange improvements at SR-85, Great American Pkwy, Lawrence Expy/Caribbean Dr, Java Dr, Maude Ave, and Middlefield Rd; intersection improvements at El Camino Real/Grant Rd; a new westbound auxiliary lane between McCarthy to N 1st St; new eastbound auxiliary lanes between Mathilda Ave and Fair Oaks Ave; and new auxiliary lanes between Coyote Creek/Zanker Rd to N 1st St.	Various	\$413

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T06	21-T06-044	Corridor & Interchange Improvements SR-239 Contra Costa County	This program includes funding for a planning study to scope a new alignment between Brentwood and Tracy.	2021 - 2035	\$30
T06	21-T06-045	Corridor & Interchange Improvements SR-242 Contra Costa County	This program includes funding to implement interchange improvements at Clayton Rd.	2036 - 2050	\$91
T06	21-T06-046	Corridor & Interchange Improvements SR-262 Alameda County	This program includes funding to implement interchange improvements at I-680 and new freeway lanes between I-680 and I-880.	2036 - 2050	\$445
T06	21-T06-047	Corridor & Interchange Improvements New Freeway Contra Costa County	This program includes funding to implement new freeway lanes and interchange improvements on SR-4/Vasco Rd between Balfour Rd and Vasco Rd and a new 2-lane expressway between Vasco Rd and Byron Hwy.	2036 - 2050	\$696
T06	21-T06-048	Other Investments to Improve Interchanges & Address Highway Bottlenecks Regional	This program includes funding to implement other programmatic investments to improve interchanges and address highway bottlenecks. This program generally implements county and other local programs and initiatives to programmatically implement highway improvements. Improvements include interchange modifications and minor lane additions (i.e., highway or freeway lane, auxiliary lane, or HOV lane) or lane extensions of less than 1/4-mile. Example investments include implementation of VTA's Envision Highway Minor Projects.	Various	\$600
T06	21-T06-049	Bay Area Forward Program Regional	This program includes funding to implement initiatives to maximize the efficiency of freeway and arterial systems through active traffic demand management and multi-modal strategies. Improvements include implementation of toll bridge corridor "forward" programs, adaptive ramp metering, adaptive signal timing with transit signal priority, bus on shoulder lanes, congestion pricing on toll bridge corridors, arterial first and last mile solutions, and shared mobility pilot deployments.	Various	\$948
T07	21-T07-050	511 Bay Area Program Regional	This program includes funding to support the 511 Bay Area Program, which provides multi-modal traveler information.	Various	\$340
T07	21-T07-051	All Electronic Tolling Program Regional	This program includes funding to support the All-Electronic Tolling Program, which converts the seven state-owned toll bridges to Open Road Tolling. Improvements include procurement of a new toll system and overhead gantries, improvements to roadway infrastructure to allow for high-speed tolling, and support of a regional customer service center.	Various	\$200
T07	21-T07-052	Carpool/Vanpool Program Regional	This program includes funding to provide carpool-matching tools and encourage carpool behavior through outreach, education, rewards, incentives and new technology.	Various	\$800
T07	21-T07-053	Connected Bay Area Program Regional	This program includes funding to implement the Connected Bay Area Program, which improves and integrates system infrastructure and operations to manage the region's transportation network. Improvements include the Regional Communication Infrastructure Network, the Incident Management Program, and the Transportation Management Center & Communications.	Various	\$600

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T07	21-T07-054	Motorist Aid Services Program Regional	The program includes funding to support the Freeway Service Patrol, Call Box programs and other motorist aid activities.	Various	\$520
T07	21-T07-055	Minor Freight Improvements Regional	This program includes funding to implement freight improvements throughout the Bay Area. This program generally implements programs that improve freight operations and support the Port of Oakland. Improvements include new weigh stations and rest areas and improvements to existing freight terminals and freight rail. Example projects include grade separation improvements at 7th Street at the Port of Oakland and improvements at the I-80 Westbound Truck Scales in Cordelia.	Various	\$2,500
T07	21-T07-056	Minor Roadway Improvements Regional	This program includes funding to implement minor roadway improvements. This program generally implements projects exempt from regional air quality conformity, but it does include non-exempt local roadway widenings or extensions. Improvements include local road extensions or new lanes (less than 1/4-mile) and intersection improvements such as channelization and signalization. Example projects include improvements to Oakland Army Base, Quarry Lakes Pkwy, Decoto Rd, Dublin Blvd, El Charro Rd, and Auto Mall Pkwy (ALA); Newell Dr and Airport Junction (NAP); implementation of Envision Expy program, Calaveras Blvd, and Mary Ave (SCL); Hunters Point Shipyard and Candlestick Point, Alemany Rd, and Treasure Island (SF); and Farmers Ln (SON).	Various	\$5,700
T07	21-T07-057	Technology Improvements Regional	This program includes funding to implement technology improvements on the Bay Area's transportation systems. This program generally implements county, transit agency and other local management systems' travel demand management and emissions reduction technologies programs and initiatives. Improvements include incident management; signal coordination; Intelligent Transportation Systems; Traffic Operations Systems/Congestion Management Systems; ramp metering; Computer-Aided Dispatch/Automatic Vehicle Location; fare media; construction or renovation of power, signal and communications systems; toll management systems; toll media; car and bike share; alternative fuel vehicles and facilities; parking programs; carpool/vanpool; ridesharing activities; information, marketing and outreach; and traveler information.	Various	\$1,300
T07	21-T07-058	Planning/Program Regional	This program includes funding to support regional and local planning programs and initiatives to support implementation of Plan Bay Area 2050. Investments include planning, research, technical assistance and program implementation. Example regional projects include support for Priority Development Area (PDA) planning and implementation; the Bay Area Preservation Pilot revolving loan fund; and the Housing Incentive Pool pilot program to incentivize the production of affordable housing.	Various	\$3,300
T07	21-T07-059	Financing/Reserve for Major Capital Projects Regional	This program includes funding for financing costs of major capital projects (e.g., Caltrain Downtown Extension) and a funding reserve for projects with cost overruns.	Various	\$2,300
T08	21-T08-060	Complete Streets Network Regional	This program includes funding to implement a regional Complete Streets network with an emphasis on improvements near transit and in Equity Priority Communities. It also includes funding to implement county and local initiatives to support active transportation systems. Investments include new and extended bike and pedestrian facilities; minor bicycle and/or pedestrian facility gap closures; minor road diets (less than 1/4-mile); ADA compliance; landscaping; lighting; streetscape improvements; secure bike parking at transit stations; and support to local jurisdictions to maintain and expand car-free slow streets. Example projects include the Bay Trail (MUL), Bay Skyway (SF), Better Market Street (SF), East Bay Greenway (ALA), and Urban Greenways and Trails (ALA).	Various	\$12,700

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T09	21-T09-061	Regional Vision Zero Policy through Street Design and Reduced Speeds Regional	This program includes funding to implement and advance a regional Vision Zero policy, which includes implementation of slower highways and streets through street design and automated enforcement, and other programmatic investments to advance Vision Zero policies. This program generally implements regional, county and local programs to support Vision Zero initiatives; Safe Routes to Schools programs; and the Highway Safety Improvement Program. Improvements include railroad/highway crossing improvements; warning devices; shoulder improvements; traffic control devices other than signalization; guardrails, median barriers and crash cushions; pavement marking; fencing; skid treatments; lighting improvements; widening narrow pavements with no added capacity; changes in vertical and horizontal alignment; transit safety, communications and surveillance systems; truck climbing lanes outside urban areas; and emergency truck pullovers.	Various	\$4,200
T10	21-T10-062	Multimodal Transportation Enhancements AC Transit and WETA Alameda Point	This program includes funding to implement improvements to existing transit service in the City of Alameda. Improvements include new bus service on Appezatto Pkwy with dedicated lanes (15 min peak headways); new bus service between Fruitvale BART and Seaplane Lagoon (20 min headways); new crosstown express bus service between Harbor Bay Ferry Terminal and Alameda Main St Ferry Terminal (20 min peak headways); and new ferry service between Seaplane Lagoon and San Francisco Ferry Building (30 min peak headways).	2021 - 2035	\$500
T10	21-T10-063	Multimodal Transportation Enhancements SFMTA Southeast San Francisco	This program includes funding to implement transportation enhancements in the Candlestick/Hunters Point Shipyard project area, including improvements to existing bus service; new express bus service to downtown San Francisco; and multimodal corridors of streets, transit facilities, pedestrian paths and dedicated bicycle lanes.	2021 - 2035	\$635
T10	21-T10-064	Local Bus Modernization VTA Systemwide	This program includes funding to implement improvements to existing bus service. Improvements include transit priority infrastructure; transit signal priority; bus lanes; queue jumps; stop improvements; faster fare collection equipment; off-board fare collection; all-door boarding; and software and hardware upgrades for improved headway management.	2036 - 2050	\$300
T10	21-T10-065	Local Bus Service Frequency Boost AC Transit Systemwide	This program includes funding to implement improvements to AC Transit's existing local bus service. Improvements include frequency upgrades (5-10 min peak headways along routes 72/72M/72R, 18, 51A/B, 6, 20/21, 57, 40/40L, 97, 99, Tempo BRT, NL, F-local and F-Transbay) and local/rapid service on some routes.	2021 - 2035	\$3,760
T10	21-T10-066	Local Bus Service Frequency Boost County Connection	This program includes funding to implement improvements to existing County Connection bus service, including frequency upgrades (15 min peak headways) on routes feeding BART stations.	2036 - 2050	\$35
T10	21-T10-067	Local Bus Service Frequency Boost NVTA	This program includes funding to implement improvements to existing Napa VINE regional/local bus service. Improvements include frequency upgrades (30 min peak headways); expanded service hours (from 4am-12am); and Sunday service.	2036 - 2050	\$165
T10	21-T10-068	Local Bus Service Frequency Boost SFMTA Systemwide	This program includes funding to implement improvements to existing bus service, including Muni Forward transit priority improvements along Rapid and high-frequency transit corridors; transfer and terminal investments; street improvements in support of Vision Zero; route realignments; and frequency upgrades (4-8 min peak headways on routes 1, 7, 8, 14, 14R, 22, 24, 29, 30, 38, 38R, 44, 45 and 55).	2021 - 2035	\$2,520
T10	21-T10-069	Local Bus Service Frequency Boost VTA Systemwide	This program includes funding to implement improvements to existing VTA bus service, including Measure B Frequent Core Network frequency upgrades (15 min peak headways on routes 22, 23, 25, 26, 57, 60, 61, 64, 66, 68, 70, 72, 73 and 77).	2036 - 2050	\$658
T10	21-T10-070	Local Bus Service Frequency Boost PDAs	This program includes funding to implement improvements to existing bus service in Priority Development Areas (PDAs) without existing high-frequency rail, ferry or bus service. Improvements include frequency upgrades (30 min peak headways) and reorganization and/or expansion of bus routes.	2021 - 2035	\$476

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T10	21-T10-071	Local Bus Service Frequency Boost Sonoma County	This program includes funding to implement improvements to existing bus service, including frequency upgrades (15 min peak headways on Santa Rosa City Bus routes 1, 2, 3, 4, 5, 6, 8, 9, 10 and 12; 30-80 min peak headways on Sonoma County Transit routes 30, 40, 48, 56 and 60; 30 min peak headways on Golden Gate Transit route 72).	2021 - 2035	\$332
T10	21-T10-072	Rapid Bus Modernization AC Transit E 14th St/Mission St/Fremont Blvd	This program includes funding to implement new rapid bus service along E 14th St/Mission St/Fremont Blvd between the San Leandro and Warm Springs BART stations. Improvements include frequency upgrades (10 min peak headways for Route 10 and 20 min headways for Route 99), dedicated lanes and mobility hubs at BART stations.	2021 - 2035	\$330
T10	21-T10-073	Rapid Bus AC Transit Modernization	This program includes funding to implement rapid transit improvements to existing bus service. Improvements include new rapid bus service; improved bus stops and stations; new/improved transit signal priority (including on-street and on-bus equipment); transit priority infrastructure; dedicated bus lanes; queue jumps; and frequency upgrades (5-12 min peak headways on routes 18, 20/21, 40, 57, 97 and NL).	Various	\$2,000
T10	21-T10-074	Rapid Bus Modernization VTA El Camino Real	This program includes funding to implement rapid transit improvements to existing bus service along El Camino Real. Improvements include dedicated lanes, transit signal priority, improved stop infrastructure and new rolling stock.	2036 - 2050	\$24
T10	21-T10-075	Rapid Bus Contra Costa Co Service Expansion Antioch-Brentwood	This program includes funding to implement new bus service along SR-4 between Hillcrest eBART to Brentwood Intermodal Station. Improvements include frequency upgrades (20 min peak headways), rapid transit improvements and a new park-and-ride facility.	2036 - 2050	\$296
T10	21-T10-076	BRT Modernization AC Transit 23rd St	This program includes funding to implement new BRT service along 23rd St from Hercules to Contra Costa College, Richmond BART and the Richmond Ferry. Improvements include high-frequency service (10 min peak headways), queue jumps, transit signal priority, new vehicles, improved stops and possible bus-only lanes.	2021 - 2035	\$259
T10	21-T10-077	BRT Modernization AC Transit San Pablo Ave	This program includes funding to implement BRT improvements to existing bus service along San Pablo Ave from 20th St to Richmond Pkwy Transit Center. Improvements include frequency upgrades (5 min peak headways), improved stop infrastructure, merging of local/rapid stops, dedicated lanes and transit signal priority.	2021 - 2035	\$300
T10	21-T10-078	BRT Modernization SamTrans El Camino Real	This program includes funding to implement BRT improvements to existing bus service along El Camino Real from Daly City BART to Palo Alto Caltrain Station. Improvements include frequency upgrades (15 min peak headways), dedicated lanes (45% of route), transit priority infrastructure and transit signal priority.	2036 - 2050	\$352
T10	21-T10-079	BRT Modernization SFMTA Geary Blvd	This program includes funding to implement BRT improvements to existing bus service along Geary Blvd from Market St to 34th Ave. Improvements include frequency (5.5 min peak headways), dedicated lanes, transit signal priority and peak express service.	2021 - 2035	\$684
T10	21-T10-080	BRT Modernization SFMTA Geneva Ave/Harney Way	This program includes funding to implement BRT improvements to existing bus service along Geneva Ave/Harney Way. Improvements include dedicated lanes, transit signal priority, high-quality stations and transit priority infrastructure.	2021 - 2035	\$68
T10	21-T10-081	BRT Modernization SFMTA Van Ness Ave	This program includes funding to implement BRT improvements to existing bus service along Van Ness Ave from Mission St to Union St. Improvements include dedicated lanes, transit signal priority, high-quality stations and transit priority infrastructure.	2021 - 2035	\$225

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOY)
T10	21-T10-082	Light Rail Service Expansion SFMTA Historic Streetcar	This program includes funding to extend Muni's existing E-line or F-line service from Fisherman's Wharf to Fort Mason through the historic railway tunnel between Van Ness Ave and the Fort Mason Center. Improvements include two new stations.	2021 - 2035	\$69
T10	21-T10-083	Light Rail Service Expansion SFMTA to Chinatown ("Central Subway")	This program includes funding to extend Muni's existing T-line to Chinatown through the Central Subway. Improvements include light rail shuttles between Chinatown and Mission Bay (via the Mission Bay Loop) during peak periods and frequency upgrades (7 min peak headways, 4-5 mins with shuttle).	2021 - 2035	\$1,580
T10	21-T10-084	Light Rail Service Frequency Boost SFMTA Muni Forward	This program includes funding to implement improvements to Muni's existing N-line and E-line service. Improvements include Muni Forward transit priority infrastructure and frequency upgrades (N-line 4 min peak headways, and E-line 12 min peak headways).	2021 - 2035	\$117
T10	21-T10-085	Light Rail Grade Separations & Modernization VTA Downtown San Jose	This program includes funding to implement improvements to VTA's existing light rail service in Downtown San Jose. Improvements include grade separation to create a subway between Diridon Station and Civic Center Station and frequency upgrades (7.5 min peak headways).	2036 - 2050	\$3,300
T10	21-T10-086	Light Rail Grade Separations & Modernization VTA North San Jose	This program includes funding to implement improvements to VTA's existing light rail service. Improvements include grade separations between Civic Center Station and Baypointe and frequency upgrades (7.5 min peak headways).	2036 - 2050	\$2,200
T10	21-T10-087	Light Rail Service Expansion VTA Eastridge	This program includes funding to extend VTA's existing Orange Line service from Alum Rock Station to the Eastridge Transit Center. Improvements include two new stations and elevated structures.	2021 - 2035	\$588
T10	21-T10-088	Light Rail Service Expansion VTA Stevens Creek Blvd	This program includes funding to implement new LRT service along Stevens Creek Blvd between De Anza College and Baypointe. Improvements include eight new stations, three-car trains and frequency upgrades (10 min peak headways).	2036 - 2050	\$2,830
T10	21-T10-089	Light Rail Service Expansion VTA Vasona	This program includes funding to extend VTA's existing Green Line service from Winchester Station to Vasona Junction. Improvements include two new stations, one infill station and three-car trains.	2036 - 2050	\$556
T10	21-T10-090	Automated People Mover Service Expansion VTA Mineta San Jose International Airport Connector Automated People Mover	This program includes funding to implement a new automated people mover service between San Jose International Airport and Diridon Station (5 min all-day headways).	2036 - 2050	\$500
T10	21-T10-091	Congestion Pricing Downtown San Francisco	This program includes funding to implement cordon-based congestion pricing for vehicles leaving and entering downtown San Francisco. Improvements include street improvements to support transit operations and cycling and pedestrian safety; frequency improvements on various Muni/SamTrans routes; transit signal priority; and dedicated bus lanes.	2021 - 2035	\$1,090
T10	21-T10-092	Congestion Pricing Treasure Island	This program includes funding to implement cordon-based congestion pricing for vehicles leaving and entering Treasure Island. Improvements include Muni bus frequency upgrades; free shuttles; a new ferry terminal; new ferry service between Treasure Island and the San Francisco Ferry Building; and new AC Transit express bus service to Oakland.	2021 - 2035	\$1,300

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOY)
T10	21-T10-093	Other Investments to Enhance Local Transit Frequency, Capacity & Reliability Regional	This program includes funding to implement other programmatic investments to enhance local transit frequency, capacity and reliability. This program generally implements county, transit agency, and other local programs and initiatives to make bus and light rail travel faster and more reliable. Improvements include fleet and facilities expansions; transit corridor improvements; and transit station improvements.	Various	\$3,300
T11	21-T11-094	Ferry Service Frequency Boost GGBHTD Larkspur-San Francisco	This program includes funding to implement new ferry service between Larkspur and San Francisco Mission Bay (80 min peak headways); and improvements to existing ferry service between Larkspur and San Francisco, including frequency upgrades (20-25 min peak headways).	2021 - 2035	\$413
T11	21-T11-095	Ferry Service Frequency Boost WETA	This program includes funding to implement improvements to existing ferry service between the San Francisco Ferry Building and Alameda/Oakland, Harbor Bay, Vallejo, Richmond and South San Francisco, including frequency upgrades (15-30 min peak headways).	2021 - 2035	\$1,480
T11	21-T11-096	Ferry Service Expansion WETA Berkeley-San Francisco	This program includes funding to implement new ferry service between San Francisco and Berkeley, including a new terminal in Berkeley (30 min peak headways).	2021 - 2035	\$300
T11	21-T11-097	Ferry Service Expansion WETA San Francisco Ferry Building-Mission Bay	This program includes funding to implement new ferry service between the San Francisco Ferry Building and Mission Bay, including a new terminal in Mission Bay (20 min peak headways).	2021 - 2035	\$271
T11	21-T11-098	Ferry Service Expansion WETA Redwood City-San Francisco-Oakland	This program includes funding to implement new ferry service between Oakland, San Francisco and Redwood City, including a new terminal in Redwood City (30 min peak headways).	2021 - 2035	\$472
T11	21-T11-099	Ferry Service Expansion Private Service Antioch-Martinez-Hercules-San Francisco	This program includes funding to implement new privately operated ferry service between San Francisco and Antioch, Martinez and Hercules, including new ferry terminals (2-5 peak trips per day).	2021 - 2035	\$112
T11	21-T11-100	Hovercraft Service Pilot Private Service Foster City-San Francisco	This program includes funding to implement new hovercraft service, as a pilot, between Foster City and San Francisco, including two basic hoverports (30 min peak headways).	2021 - 2035	\$165
T11	21-T11-101	Rail Modernization & Electrification Caltrain/High Speed Rail San Francisco to San Jose	This program includes funding to implement improvements to the Caltrain/High-Speed Rail Corridor. Improvements include corridor electrification between San Francisco and Tamien station in San Jose and frequency upgrades (6 trains per hour per direction in peak).	2021 - 2035	\$1,980
T11	21-T11-102	Rail Modernization & Electrification Caltrain/High Speed Rail San Jose to Pacheco Pass	This program includes funding to implement improvements to the Caltrain/High-Speed Rail Corridor. Improvements include corridor electrification south of Tamien station in San Jose and grade separations from San Jose through the Pacheco Pass.	2036 - 2050	\$3,000
T11	21-T11-103	Rail Grade Separations & Modernization Caltrain/High Speed Rail	This program includes funding to implement improvements to the Caltrain/High-Speed Rail Corridor. Improvements include grade separations funded by Santa Clara County's Measure B and San Mateo County's Measure A, as well as future grade separations to enable High-Speed Rail service within the Bay Area's urban core.	Various	\$5,760

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOY)
T11	21-T11-104	Rail New Station BART Irvington Station	This program includes funding to implement a new BART rail station at Irvington in Fremont, including a park-and-ride facility and complementary route changes to existing AC Transit bus service.	2021 - 2035	\$230
T11	21-T11-105	Rail Service Frequency Boost ACE System	This program includes funding to implement improvements to existing ACE service between San Joaquin County and San Jose, including frequency upgrades (8 daily roundtrips).	Various	\$399
T11	21-T11-106	Rail Service Frequency Boost BART System ("Core Capacity")	This program includes funding to implement improvements to existing BART service, including frequency upgrades (12 min peak headways).	2021 - 2035	\$5,310
T11	21-T11-107	Rail Service Frequency Boost Caltrain System	This program includes funding to implement improvements to existing Caltrain rail service between San Francisco and San Jose, including frequency upgrades (8 trains per hour per direction in peak).	2036 - 2050	\$2,840
T11	21-T11-108	Group Rapid Transit Service Expansion Redwood City-Newark ("Dumbarton Rail")	This program includes funding to implement new group rapid transit service between Redwood City and Newark, including seven new stations (1 min peak headways).	2036 - 2050	\$3,840
T11	21-T11-109	Rail Service Expansion BART to Santa Clara ("Silicon Valley Phase II")	This program includes funding to extend BART's existing Green Line and Orange Line rail services from Berryessa to Santa Clara, including four new stations and park-and-ride facilities.	2021 - 2035	\$10,100
T11	21-T11-110	Rail Service Expansion Caltrain/High Speed Rail to Downtown San Francisco ("DTX")	This program includes funding to extend Caltrain rail service from 4th St/Townsend St in San Francisco to the Salesforce Transit Center in downtown San Francisco, including two new stations.	2021 - 2035	\$3,940
T11	21-T11-111	Rail Service Expansion Capitol Corridor to Coast Subdivision ("South Bay Connect")	This program includes funding to implement improvements to existing Capitol Corridor rail service between Oakland and Newark/Fremont. Improvements include relocation of rail service between Oakland Coliseum and Newark from the Niles Subdivision to the Coast Subdivision and one new station.	2021 - 2035	\$264
T11	21-T11-112	Rail Service Expansion Oakland-San Francisco ("Link21")	This program includes funding to implement Link21, providing new transbay rail service between San Francisco and Oakland, including new stations in the East Bay and San Francisco (10 trains per hour per direction in peak).	2036 - 2050	\$28,800
T11	21-T11-113	Rail Service Expansion SMART to Windsor	This program includes funding to extend SMART rail service from the Sonoma County Airport in Santa Rosa to Windsor.	2021 - 2035	\$142
T11	21-T11-114	Rail Service Expansion San Joaquin County-Dublin/Pleasanton ("Valley Link")	This program includes funding to implement new rail service between San Joaquin Valley and the Dublin/Pleasanton BART station, including three new stations within Alameda County and three-car trains (12 min peak headways).	2021 - 2035	\$2,910

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOY)
T11	21-T11-115	Other Investments to Expand & Modernize the Regional Rail Network Regional	This program includes funding to implement other programmatic investments to expand and modernize the regional rail network. This program generally implements county, transit agency and other local programs and initiatives to make rail and ferry travel faster and more reliable. Improvements include fleet and facilities expansion; track and structures; train control; traction power; and stations or terminals.	Various	\$8,200
T12	21-T12-116	Express Lanes Regional	This program includes funding to implement express lanes through HOV lane conversions on I-80 (ALA); partial HOV lane conversions on I-80 (SOL), I-280 (SF) and US-101 (SF); freeway lane conversions on I-580 (ALA) and I-880 (ALA); new lanes on I-80 (SOL), I-680 (ALA) and US-101 (SM); new dual lanes with HOV lane conversions on SR-85 (SCL); and new dual lanes on US-101 (SCL).	2021 - 2035	\$4,530
T12	21-T12-117	Express Bus Service Expansion GGBHTD	This program includes funding to implement improvements to existing express bus service along US-101 and I-580, including frequency upgrades (20-40 min headways on routes 101, 40X and 56X).	2021 - 2035	\$393
T12	21-T12-118	Express Bus Service Expansion NVTA	This program includes funding to implement new express bus service between Napa (Redwood Park-and-Ride) and the Vallejo Ferry Terminal. Improvements include bus-on-shoulder facilities and new rolling stock.	2021 - 2035	\$45
T12	21-T12-119	Express Bus Service Expansion SamTrans	This program includes funding to implement new express bus service along US-101 and I-280 (on express lanes where available) from Foster City, San Mateo and Burlingame to Downtown San Francisco; from San Mateo and Palo Alto to Western San Francisco; and from San Bruno to Sunnyvale. Improvements include park-and-ride facilities, ramp improvements and bus stop improvements (20 min peak headways).	2021 - 2035	\$478
T12	21-T12-120	Express Bus Service Expansion AC Transit Transbay Corridor	This program includes funding to implement improvements to existing express bus service along I-80, I-580 and I-880 (on express lanes where available). Improvements include frequency upgrades (15 min peak headways on routes F, O, P, J, V and L) and planning for express bus expansion throughout the inner East Bay.	Various	\$229
T12	21-T12-121	Express Bus Service Expansion I-80	This program includes funding to implement new express bus service along I-80 (on express lanes where available) between Vallejo and Downtown Oakland, including park-and-ride facilities (15 min peak headways).	2021 - 2035	\$282
T12	21-T12-122	Express Bus Service Expansion I-680	This program includes funding to implement new express bus service along I-680 (on express lanes where available) between Martinez and San Jose (20 min peak headways). Improvements include bus-on-shoulder and park-and-ride facilities.	2021 - 2035	\$398
T12	21-T12-123	Express Bus Service Expansion SFMTA US-101 & I-280	This program includes funding to implement improvements to existing express bus service along US-101 and I-280 (on express lanes where available), including frequency upgrades (10 min peak headways on routes 8BX and 14X).	2021 - 2035	\$240
T12	21-T12-124	Express Bus Service Expansion US-101	This program includes funding to implement improvements to existing express bus service along US-101 between Novato and San Rafael, including bus-on-shoulder facilities.	2021 - 2035	\$12
T12	21-T12-125	Express Bus Service Expansion SolTrans	This program includes funding to implement improvements to existing regional bus service. Improvements include frequency upgrades (15 min peak headways), transit signal priority, adaptive signal timing and ramp metering.	2021 - 2035	\$26

Blueprint Strategy	RTPID	Title	Scope	Open Period ¹	Cost/Funding ² (millions, YOE)
T12	21-T12-126	Express Bus Service Expansion ReX (Basic) Blue Line (San Francisco to San Jose)	This program includes funding to implement new express bus service along US-101, SR-85 and I-280 (on express lanes where available) between San Francisco (Salesforce Transit Center) and San Jose (Diridon Station). Improvements include high-frequency service (10 min peak headways) and station area amenities like upgraded local bus stops, taxi/TNC loading zones, and improved bicycle/pedestrian infrastructure.	2021 - 2035	\$633
T12	21-T12-127	Express Bus Service Expansion ReX (Basic) Red Line (Oakland to Redwood City)	This program includes funding to implement new express bus service along I-580, I-238, I-880, SR-84 and US-101 (on express lanes where available) between Downtown Oakland (19th St BART Station) and Redwood City (Caltrain Station). Improvements include high-frequency service (10 min peak headways) and station area amenities like upgraded local bus stops, taxi/TNC loading zones, and improved bicycle/pedestrian infrastructure.	2021 - 2035	\$635
T12	21-T12-128	Express Bus Service Expansion ReX (Premium) Green Line (Vallejo to SFO Airport)	This program includes funding to implement new express bus service along I-80, I-280 and US-101 (on express lanes where available) between Vallejo and San Francisco International Airport. Improvements include high-frequency service (10 min peak headways); capital improvements such as in-line bus stations on freeways and arterials; and station area amenities like upgraded local bus stops, taxi/TNC loading zones, and improved bicycle/pedestrian infrastructure.	2021 - 2035	\$1,220
EN01	21-EN01-129	Sea Level Rise Adaptation Infrastructure SR-37	This program includes funding to implement adaptation infrastructure along the SR-37 corridor from Novato to Vallejo. This program includes actions such as the elevation of critical infrastructure.	Various	\$5,120
EN01	21-EN01-130	Sea Level Rise Adaptation Infrastructure Regional	This program includes funding to implement adaptation infrastructure in locations that are forecasted to be permanently inundated with two feet of sea level rise by 2050, providing protection from king tides and storms. This program includes actions such as the elevation of critical infrastructure and implementation of ecotone levees, traditional levees, sea walls, and marsh restoration and adaptation. Examples of adapting critical transportation infrastructure include I-880 (ALA), SR-84 (ALA), I-580/US-101/SMART (MRN), BART (MUL), SR-237/VTA (SCL), and US-101 (SM).	Various	\$2,150
EN08	21-EN08-131	Clean Vehicle Initiatives Regional	This program includes funding to support the adoption and use of clean vehicles, which include more fuel-efficient vehicles and electric vehicles, through purchase incentives and deployment of charging and fueling infrastructure, in partnership with the Air District and the state. These investments would expand existing strategies in MTC's Climate Initiatives Program, which include a vehicle buyback & electric vehicle incentive program; a regional electric vehicle charger network; a clean vehicle feebate program; as well as new requirements for the electrification of Transportation Network Company vehicles and autonomous vehicles.	2021 - 2035	\$4,000
EN09	21-EN09-132	Regional Transportation Demand Management Initiatives Regional	This program includes funding to support transportation demand management programs through MTC's Climate Initiatives Program, including a wide range of programs that discourage single-occupancy vehicle trips and support use of other travel modes. Programs include the Bay Area Commuter Benefits Program, vanpool programs, bikeshare and carshare services, targeted transportation alternatives programs, and a regional parking fee program.	2021 - 2035	\$1,000

Notes:

- (1) Open Periods denote when the project is anticipated to open for use. Various indicates the program is anticipated to have project opening dates in both plan periods.
- (2) Cost/Funding represents the cost or funding to implement projects and programs. Costs are reflected in year-of-expenditure ("YOE") dollars, and include both capital and operational costs.
- (3) REG = Regional; ALA = Alameda; CC = Contra Costa; MRN = Marin; NAP = Napa; SF = San Francisco; SM = San Mateo; SCL = Santa Clara; SOL = Solano; SON = Sonoma; and MUL = Multi-County.
- (4) HOV = High-Occupancy Vehicle lane (also known as a "carpool lane") are for the exclusive use of vehicles with a driver and one or more passengers.

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and Association of Bay Area Governments**

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