



METROPOLITAN
TRANSPORTATION
COMMISSION

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Memorandum

TO: Bay Area Partnership Board

DATE: January 25, 2016

FR: Theresa Romell

RE: Plan Bay Area 2040 Needs Assessment Update

Background

One element in the development of Plan Bay Area 2040 is the estimation of costs and available revenues for the preservation of the existing transportation system. MTC staff has produced draft needs assessments for the capital maintenance of the Bay Area's local street and road network and the state highway system, as well as the capital maintenance and operating needs of the region's public transit system. The needs assessments span the 24 year period from fiscal years 2017 through 2040 and are in nominal (escalated) dollars.

MTC staff presented on the Plan Bay Area 2040 Needs Assessment at the December 2015 and January 2016 Partnership Technical Advisory Committee meetings. These presentations and the accompanying memos detailed the methodologies used to prepare the needs assessments for all modes. The purpose of this memo is to summarize the draft results of the needs assessment and provide information on key findings that have arisen from the analyses.

Regional Summary

As shown in the table below, to reach a state of good repair, in which all roads are maintained at their optimal levels and transit assets are replaced at the end of their useful lives, in addition to being able to maintain existing service levels for public transit, the region will need to spend an estimated total of \$229 billion over the next 24 years. Currently, draft estimates of revenue available for the operation and maintenance of the existing system total \$168 billion, leaving a remaining need of approximately \$61 billion. To maintain *existing* conditions on our region's roadways and the existing state of repair of transit assets and service levels, the region would need to spend approximately \$206 billion over the next 24 years, about \$38 billion more than forecasted revenue.

Total transportation revenue forecasted for Plan Bay Area 2040 is approximately \$287 billion. The vast majority of which is funding for committed projects and programs. Approximately 15 percent of the total Plan revenue is expected to be available for discretionary purposes.

Draft Plan Bay Area 2040 Needs Assessment (In Millions)

Mode	Revenue	Need (State of Good Repair)	Need (Maintain Conditions)	Remaining Need (State of Good Repair)	Remaining Need (Maintain Conditions)
Local Streets & Roads	\$13,192	\$36,236	\$30,261	\$23,044	\$17,069
State Highways ¹	\$13,751	\$19,209	\$19,209	\$5,458	\$5,458
Transit Capital ^{2,3}	\$19,000	\$47,618	\$30,468	\$28,618	\$11,468
Transit Operating ⁴	\$122,103	\$125,619	\$125,619	\$3,516	\$3,516
Total	\$168,046	\$228,682	\$205,557	\$60,636	\$37,511

Notes:

- 1) Needs associated with maintaining existing condition levels is not available for the state highway system
- 2) The transit operating needs assessment only considers what is needed to maintain existing service levels, therefore transit operating needs are the same for both State of Good Repair and Maintain Conditions
- 3) Transit operating revenue is net of surplus revenue available to meet operating needs
- 4) Transit capital revenue is a rough estimate and will be updated to conform to Federal FAST Act funding level changes and other fine tuning of estimated revenue availability for transit capital maintenance.

Overall Findings

- For local streets and roads, total capital maintenance needs have decreased by \$8.1 billion as compared to 2013 Plan Bay Area. On an annualized basis, the needs assessment for Plan Bay Area 2040 reveals an approximate 5% decrease in capital maintenance need and an increase of approximately 2% in revenue identified to meet that need, as compared to the 2013 Plan.
- The draft needs assessment for state highways is consistent with 2013 Plan Bay Area for which the estimated state highway capital maintenance needs was \$22.4 billion, over a 28-year period. On an annualized basis, SHOPP revenue projected to be available to meet the state highway needs have increased by approximately 15% as compared to the 2013 Plan.
- For transit operations, service levels for the existing system are projected to increase from 11.8 million hours per fiscal year as shown in the 2013 Plan Bay Area to 12.6 million hours per fiscal year in Plan Bay Area 2040. This represents a 7% increase in annual service hours since the needs assessment was conducted for the 2013 Plan.
- The total Bay Area transit system operating cost over the Plan period is projected to increase by \$13 billion, from \$114 billion to \$127 billion. On an annualized basis, operating costs have increased by approximately 30% as compared to the 2013 Plan.
- Under the State of Good Repair scenario there is an increase of approximately \$1 billion in total need as compared to \$46.5 billion in the 2013 Plan Bay Area SGR. On an annualized basis, the transit capital maintenance need has increased by approximately 19% as compared to the 2013 Plan.

Next Steps

Staff will make updates to the needs assessments based on input from stakeholders and refinements to the estimation process, and as adjustments to the Plan Bay Area 2040 revenue forecast are made. Updates on the needs assessments will be brought forward to the appropriate Partnership Board working groups and MTC Committees periodically. Although finalization of the needs assessments will not occur until just prior to the adoption of Plan Bay Area 2040, the

assessments, in their draft forms, will be used to provide input into development of the Preferred Scenario and Investment Strategy components of the Plan.

If you have questions or would like to provide feedback on the needs assessment, please contact the following staff:

Transit Operating: William Bacon – wbacon@mtc.ca.gov

Transit Capital: Nicholas Richter – nrichter@mtc.ca.gov / Shruti Hari – shari@mtc.ca.gov

Local Streets and Roads, Highways, and Bridges: Theresa Romell – tromell@mtc.ca.gov

Attachment A

Plan Bay Area 2040 -- DRAFT 24-Year Local Street and Road System Preservation Needs and Available Revenue 1/25/2016

STATE OF GOOD REPAIR (BEST MANAGEMENT PRACTICES)

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Alameda	\$ 368,240,906	\$ 368,240,906	\$ -
Alameda	\$ 304,043,998	\$ 185,600,000	\$ 118,443,998
Albany	\$ 73,663,932	\$ 37,600,000	\$ 36,063,932
Berkeley	\$ 499,374,713	\$ 459,000,000	\$ 40,374,713
Dublin	\$ 185,641,674	\$ 62,000,000	\$ 123,641,674
Emeryville	\$ 38,469,103	\$ 38,469,103	\$ -
Fremont	\$ 992,417,033	\$ 259,700,000	\$ 732,717,033
Hayward	\$ 633,472,850	\$ 172,300,000	\$ 461,172,850
Livermore	\$ 421,009,839	\$ 99,700,000	\$ 321,309,839
Newark	\$ 189,575,509	\$ 50,100,000	\$ 139,475,509
Oakland	\$ 1,834,745,511	\$ 618,300,000	\$ 1,216,445,511
Piedmont	\$ 49,459,532	\$ 19,600,000	\$ 29,859,532
Pleasanton	\$ 325,618,790	\$ 160,400,000	\$ 165,218,790
San Leandro	\$ 418,736,707	\$ 152,700,000	\$ 266,036,707
Union City	\$ 256,934,221	\$ 55,500,000	\$ 201,434,221
COUNTY TOTAL	\$ 6,591,404,318	\$ 2,739,210,009	\$ 3,852,194,310

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Contra Costa	\$ 468,836,144	\$ 294,700,000	\$ 174,136,144
Antioch	\$ 494,764,992	\$ 207,900,000	\$ 286,864,992
Brentwood	\$ 210,086,801	\$ 74,800,000	\$ 135,286,801
Clayton	\$ 47,040,838	\$ 11,400,000	\$ 35,640,838
Concord	\$ 593,225,059	\$ 161,600,000	\$ 431,625,059
Danville	\$ 197,442,899	\$ 90,700,000	\$ 106,742,899
El Cerrito	\$ 79,508,593	\$ 37,800,000	\$ 41,708,593
Hercules	\$ 94,373,323	\$ 14,400,000	\$ 79,973,323
Lafayette	\$ 100,733,813	\$ 44,500,000	\$ 56,233,813
Martinez	\$ 211,042,947	\$ 67,300,000	\$ 143,742,947
Moraga	\$ 85,873,857	\$ 27,800,000	\$ 58,073,857
Oakley	\$ 172,102,715	\$ 25,600,000	\$ 146,502,715
Orinda	\$ 112,460,646	\$ 24,500,000	\$ 87,960,646
Pinole	\$ 88,881,656	\$ 22,800,000	\$ 66,081,656
Pittsburg	\$ 283,865,382	\$ 116,100,000	\$ 167,765,382
Pleasant Hill	\$ 161,866,712	\$ 125,400,000	\$ 36,466,712
Richmond	\$ 490,887,044	\$ 200,500,000	\$ 290,387,044
San Pablo	\$ 98,680,577	\$ 28,300,000	\$ 70,380,577
San Ramon	\$ 304,733,471	\$ 246,800,000	\$ 57,933,471
Walnut Creek	\$ 342,983,407	\$ 38,400,000	\$ 304,583,407
COUNTY TOTAL	\$ 4,639,390,875	\$ 1,861,300,000	\$ 2,778,090,875

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Marin	\$ 442,083,007	\$ 140,500,000	\$ 301,583,007
Belvedere	\$ 8,184,776	\$ 3,600,000	\$ 4,584,776
Corte Madera	\$ 44,727,361	\$ 7,200,000	\$ 37,527,361
Fairfax	\$ 34,964,541	\$ 8,800,000	\$ 26,164,541
Larkspur	\$ 73,898,258	\$ 12,800,000	\$ 61,098,258
Mill Valley	\$ 80,121,654	\$ 51,000,000	\$ 29,121,654
Novato	\$ 254,372,766	\$ 91,300,000	\$ 163,072,766
Ross	\$ 10,989,046	\$ 3,600,000	\$ 7,389,046
San Anselmo	\$ 59,310,217	\$ 14,800,000	\$ 44,510,217

STATE OF GOOD REPAIR (BEST MANAGEMENT PRACTICES)

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
San Rafael	\$ 263,867,712	\$ 83,300,000	\$ 180,567,712
Sausalito	\$ 33,695,598	\$ 5,900,000	\$ 27,795,598
Tiburon	\$ 38,345,932	\$ 31,400,000	\$ 6,945,932
COUNTY TOTAL	\$ 1,344,560,869	\$ 454,200,000	\$ 890,360,869

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Napa	\$ 444,913,221	\$ 149,300,000	\$ 295,613,221
American Canyon	\$ 101,377,938	\$ 44,500,000	\$ 56,877,938
Calistoga	\$ 29,565,829	\$ 11,800,000	\$ 17,765,829
Napa	\$ 406,192,679	\$ 292,200,000	\$ 113,992,679
St Helena	\$ 40,083,105	\$ 21,000,000	\$ 19,083,105
Yountville	\$ 12,882,113	\$ 12,882,113	\$ -
COUNTY TOTAL	\$ 1,035,014,884	\$ 531,682,113	\$ 503,332,771

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
City and County of San Francisco	\$ 4,010,986,855	\$ 2,095,900,000	\$ 1,915,086,855

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of San Mateo	\$ 208,596,899	\$ 204,300,000	\$ 4,296,899
Atherton	\$ 38,424,770	\$ 25,600,000	\$ 12,824,770
Belmont	\$ 128,900,426	\$ 95,500,000	\$ 33,400,426
Brisbane	\$ 25,910,755	\$ 6,700,000	\$ 19,210,755
Burlingame	\$ 124,008,838	\$ 38,000,000	\$ 86,008,838
Colma	\$ 8,978,984	\$ 4,700,000	\$ 4,278,984
Daly City	\$ 354,261,149	\$ 78,100,000	\$ 276,161,149
East Palo Alto	\$ 124,104,417	\$ 26,400,000	\$ 97,704,417
Foster City	\$ 107,697,808	\$ 45,000,000	\$ 62,697,808
Half Moon Bay	\$ 51,354,381	\$ 19,700,000	\$ 31,654,381
Hillsborough	\$ 65,358,501	\$ 23,900,000	\$ 41,458,501
Menlo Park*	\$ 137,708,751	\$ 120,300,000	\$ 17,408,751
Millbrae	\$ 114,385,628	\$ 20,300,000	\$ 94,085,628
Pacifica	\$ 197,546,582	\$ 36,200,000	\$ 161,346,582
Portola Valley	\$ 24,282,554	\$ 17,900,000	\$ 6,382,554
Redwood City	\$ 306,026,698	\$ 95,500,000	\$ 210,526,698
San Bruno	\$ 196,801,073	\$ 33,500,000	\$ 163,301,073
San Carlos	\$ 152,783,832	\$ 26,600,000	\$ 126,183,832
San Mateo	\$ 363,811,154	\$ 138,000,000	\$ 225,811,154
South San Francisco	\$ 271,370,970	\$ 54,600,000	\$ 216,770,970
Woodside	\$ 38,506,670	\$ 7,400,000	\$ 31,106,670
COUNTY TOTAL	\$ 3,040,820,842	\$ 1,118,200,000	\$ 1,922,620,842

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Santa Clara	\$ 771,168,618	\$ 449,600,000	\$ 321,568,618
Campbell	\$ 182,079,533	\$ 63,000,000	\$ 119,079,533
Cupertino	\$ 275,645,819	\$ 77,700,000	\$ 197,945,819
Gilroy	\$ 254,533,959	\$ 68,400,000	\$ 186,133,959
Los Altos	\$ 122,774,770	\$ 76,200,000	\$ 46,574,770
Los Altos Hills	\$ 44,659,040	\$ 42,200,000	\$ 2,459,040
Los Gatos	\$ 159,269,448	\$ 41,000,000	\$ 118,269,448
Milpitas	\$ 312,536,066	\$ 63,800,000	\$ 248,736,066
Monte Sereno	\$ 18,486,440	\$ 4,800,000	\$ 13,686,440

STATE OF GOOD REPAIR (BEST MANAGEMENT PRACTICES)

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
Morgan Hill	\$ 212,453,160	\$ 52,500,000	\$ 159,953,160
Mountain View	\$ 321,448,244	\$ 126,800,000	\$ 194,648,244
Palo Alto	\$ 330,975,997	\$ 151,900,000	\$ 179,075,997
San Jose*	\$ 4,608,754,632	\$ 1,150,800,000	\$ 3,457,954,632
Santa Clara	\$ 517,464,080	\$ 308,100,000	\$ 209,364,080
Saratoga	\$ 181,952,674	\$ 22,500,000	\$ 159,452,674
Sunnyvale	\$ 581,636,658	\$ 368,300,000	\$ 213,336,658
COUNTY TOTAL	\$ 8,895,839,139	\$ 3,067,600,000	\$ 5,828,239,139

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Solano	\$ 299,230,031	\$ 123,300,000	\$ 175,930,031
Benicia	\$ 178,103,449	\$ 15,500,000	\$ 162,603,449
Dixon	\$ 101,542,521	\$ 8,900,000	\$ 92,642,521
Fairfield	\$ 562,164,905	\$ 101,600,000	\$ 460,564,905
Rio Vista	\$ 43,290,384	\$ 3,200,000	\$ 40,090,384
Suisun City	\$ 163,947,191	\$ 22,000,000	\$ 141,947,191
Vacaville	\$ 494,816,041	\$ 97,600,000	\$ 397,216,041
Vallejo	\$ 766,359,485	\$ 56,200,000	\$ 710,159,485
COUNTY TOTAL	\$ 2,609,454,007	\$ 428,300,000	\$ 2,181,154,007

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Sonoma	\$ 1,869,179,471	\$ 412,900,000	\$ 1,456,279,471
Cloverdale	\$ 56,678,534	\$ 10,500,000	\$ 46,178,534
Cotati	\$ 52,425,936	\$ 6,700,000	\$ 45,725,936
Healdsburg	\$ 90,092,458	\$ 34,100,000	\$ 55,992,458
Petaluma	\$ 465,395,808	\$ 31,500,000	\$ 433,895,808
Rohnert Park	\$ 228,713,256	\$ 35,700,000	\$ 193,013,256
Santa Rosa	\$ 1,061,128,111	\$ 305,000,000	\$ 756,128,111
Sebastapol	\$ 45,932,435	\$ 7,400,000	\$ 38,532,435
Sonoma	\$ 61,172,277	\$ 9,300,000	\$ 51,872,277
Windsor	\$ 138,232,026	\$ 42,400,000	\$ 95,832,026
COUNTY TOTAL	\$ 4,068,950,311	\$ 895,500,000	\$ 3,173,450,311

County	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
Alameda	\$ 6,591,404,318	\$ 2,739,210,009	\$ 3,852,194,310
Contra Costa	\$ 4,639,390,875	\$ 1,861,300,000	\$ 2,778,090,875
Marin	\$ 1,344,560,869	\$ 454,200,000	\$ 890,360,869
Napa	\$ 1,035,014,884	\$ 531,682,113	\$ 503,332,771
San Francisco	\$ 4,010,986,855	\$ 2,095,900,000	\$ 1,915,086,855
San Mateo	\$ 3,040,820,842	\$ 1,118,200,000	\$ 1,922,620,842
Santa Clara	\$ 8,895,839,139	\$ 3,067,600,000	\$ 5,828,239,139
Solano	\$ 2,609,454,007	\$ 428,300,000	\$ 2,181,154,007
Sonoma	\$ 4,068,950,311	\$ 895,500,000	\$ 3,173,450,311
REGION	\$ 36,236,422,102	\$ 13,191,892,121	\$ 23,044,529,980

Attachment A

Plan Bay Area 2040 -- DRAFT 24-Year Local Street and Road System Preservation Needs and Available Revenue
1/25/2016

MAINTAIN EXISTING CONDITIONS

Jurisdiction
County of Alameda
Alameda
Albany
Berkeley
Dublin
Emeryville
Fremont
Hayward
Livermore
Newark
Oakland
Piedmont
Pleasanton
San Leandro
Union City
COUNTY TOTAL

Total Preservation Needs
\$ 363,376,990
\$ 272,128,135
\$ 50,277,408
\$ 315,432,223
\$ 250,243,422
\$ 53,372,541
\$ 856,018,905
\$ 545,567,130
\$ 487,508,075
\$ 217,899,877
\$ 1,283,705,412
\$ 44,709,857
\$ 385,246,864
\$ 263,905,350
\$ 337,115,052
\$ 5,726,507,241

Revenue Available for System Preservation
\$ 363,376,990
\$ 185,600,000
\$ 37,600,000
\$ 315,432,223
\$ 62,000,000
\$ 53,372,541
\$ 259,700,000
\$ 172,300,000
\$ 99,700,000
\$ 50,100,000
\$ 618,300,000
\$ 19,600,000
\$ 160,400,000
\$ 152,700,000
\$ 55,500,000
\$ 2,605,681,754

Remaining Needs for System Preservation
\$ -
\$ 86,528,135
\$ 12,677,408
\$ -
\$ 188,243,422
\$ -
\$ 596,318,905
\$ 373,267,130
\$ 387,808,075
\$ 167,799,877
\$ 665,405,412
\$ 25,109,857
\$ 224,846,864
\$ 111,205,350
\$ 281,615,052
\$ 3,120,825,487

Jurisdiction
County of Contra Costa
Antioch
Brentwood
Clayton
Concord
Danville
El Cerrito
Hercules
Lafayette
Martinez
Moraga
Oakley
Orinda
Pinole
Pittsburg
Pleasant Hill
Richmond
San Pablo
San Ramon
Walnut Creek
COUNTY TOTAL

Total Preservation Needs
\$ 496,932,601
\$ 444,550,520
\$ 259,597,430
\$ 68,487,967
\$ 512,891,745
\$ 200,192,274
\$ 101,353,358
\$ 98,486,328
\$ 130,616,338
\$ 118,987,252
\$ 67,543,195
\$ 181,660,925
\$ 56,045,352
\$ 77,714,046
\$ 269,896,004
\$ 140,561,811
\$ 383,471,078
\$ 144,106,035
\$ 407,563,562
\$ 378,511,596
\$ 4,539,169,419

Revenue Available for System Preservation
\$ 294,700,000
\$ 207,900,000
\$ 74,800,000
\$ 11,400,000
\$ 161,600,000
\$ 90,700,000
\$ 37,800,000
\$ 14,400,000
\$ 44,500,000
\$ 67,300,000
\$ 27,800,000
\$ 25,600,000
\$ 24,500,000
\$ 22,800,000
\$ 116,100,000
\$ 125,400,000
\$ 200,500,000
\$ 28,300,000
\$ 246,800,000
\$ 38,400,000
\$ 1,861,300,000

Remaining Needs for System Preservation
\$ 202,232,601
\$ 236,650,520
\$ 184,797,430
\$ 57,087,967
\$ 351,291,745
\$ 109,492,274
\$ 63,553,358
\$ 84,086,328
\$ 86,116,338
\$ 51,687,252
\$ 39,743,195
\$ 156,060,925
\$ 31,545,352
\$ 54,914,046
\$ 153,796,004
\$ 15,161,811
\$ 182,971,078
\$ 115,806,035
\$ 160,763,562
\$ 340,111,596
\$ 2,677,869,419

Jurisdiction
County of Marin
Belvedere
Corte Madera
Fairfax
Larkspur
Mill Valley
Novato
Ross
San Anselmo
San Rafael
Sausalito
Tiburon
COUNTY TOTAL

Total Preservation Needs
\$ 285,002,182
\$ 13,005,726
\$ 49,240,110
\$ 30,877,190
\$ 29,651,468
\$ 56,682,459
\$ 237,894,442
\$ 12,358,960
\$ 36,610,356
\$ 271,624,962
\$ 29,519,163
\$ 40,449,879
\$ 1,092,916,898

Revenue Available for System Preservation
\$ 140,500,000
\$ 3,600,000
\$ 7,200,000
\$ 8,800,000
\$ 12,800,000
\$ 51,000,000
\$ 91,300,000
\$ 3,600,000
\$ 14,800,000
\$ 83,300,000
\$ 5,900,000
\$ 31,400,000
\$ 454,200,000

Remaining Needs for System Preservation
\$ 144,502,182
\$ 9,405,726
\$ 42,040,110
\$ 22,077,190
\$ 16,851,468
\$ 5,682,459
\$ 146,594,442
\$ 8,758,960
\$ 21,810,356
\$ 188,324,962
\$ 23,619,163
\$ 9,049,879
\$ 638,716,898

MAINTAIN EXISTING CONDITIONS

Jurisdiction
County of Napa
American Canyon
Calistoga
Napa
St Helena
Yountville
COUNTY TOTAL

Total Preservation Needs
\$ 271,848,895
\$ 84,278,092
\$ 16,833,757
\$ 279,407,354
\$ 21,635,052
\$ 12,628,595
\$ 686,631,743

Revenue Available for System Preservation
\$ 149,300,000
\$ 44,500,000
\$ 11,800,000
\$ 279,407,354
\$ 21,000,000
\$ 12,628,595
\$ 518,635,948

Remaining Needs for System Preservation
\$ 122,548,895
\$ 39,778,092
\$ 5,033,757
\$ -
\$ 635,052
\$ -
\$ 167,995,795

Jurisdiction
City and County of San Francisco

Total Preservation Needs
\$ 3,228,397,782

Revenue Available for System Preservation
\$ 2,095,900,000

Remaining Needs for System Preservation
\$ 1,132,497,782

Jurisdiction
County of San Mateo
Atherton
Belmont
Brisbane
Burlingame
Colma
Daly City
East Palo Alto
Foster City
Half Moon Bay
Hillsborough
Menlo Park*
Millbrae
Pacifica
Portola Valley
Redwood City
San Bruno
San Carlos
San Mateo
South San Francisco
Woodside
COUNTY TOTAL

Total Preservation Needs
\$ 198,298,644
\$ 45,653,605
\$ 70,381,411
\$ 36,533,467
\$ 139,030,264
\$ 10,258,521
\$ 398,549,516
\$ 79,379,926
\$ 177,526,243
\$ 38,373,765
\$ 70,291,119
\$ 144,527,675
\$ 55,692,704
\$ 105,121,575
\$ 34,071,571
\$ 378,013,956
\$ 145,169,509
\$ 98,094,178
\$ 388,140,301
\$ 254,837,130
\$ 34,554,668
\$ 2,902,499,747

Revenue Available for System Preservation
\$ 198,298,644
\$ 25,600,000
\$ 70,381,411
\$ 6,700,000
\$ 38,000,000
\$ 4,700,000
\$ 78,100,000
\$ 26,400,000
\$ 45,000,000
\$ 19,700,000
\$ 23,900,000
\$ 120,300,000
\$ 20,300,000
\$ 36,200,000
\$ 17,900,000
\$ 95,500,000
\$ 33,500,000
\$ 26,600,000
\$ 138,000,000
\$ 54,600,000
\$ 7,400,000
\$ 1,087,080,055

Remaining Needs for System Preservation
\$ -
\$ 20,053,605
\$ -
\$ 29,833,467
\$ 101,030,264
\$ 5,558,521
\$ 320,449,516
\$ 52,979,926
\$ 132,526,243
\$ 18,673,765
\$ 46,391,119
\$ 24,227,675
\$ 35,392,704
\$ 68,921,575
\$ 16,171,571
\$ 282,513,956
\$ 111,669,509
\$ 71,494,178
\$ 250,140,301
\$ 200,237,130
\$ 27,154,668
\$ 1,815,419,692

Jurisdiction
County of Santa Clara
Campbell
Cupertino
Gilroy
Los Altos
Los Altos Hills
Los Gatos
Milpitas
Monte Sereno
Morgan Hill
Mountain View
Palo Alto
San Jose*
Santa Clara
Saratoga
Sunnyvale
COUNTY TOTAL

Total Preservation Needs
\$ 685,643,384
\$ 188,508,833
\$ 222,475,310
\$ 239,205,248
\$ 171,257,002
\$ 50,790,023
\$ 118,257,760
\$ 286,890,765
\$ 15,478,396
\$ 196,548,714
\$ 325,343,504
\$ 350,910,028
\$ 3,620,256,076
\$ 557,375,631
\$ 164,345,099
\$ 674,529,241
\$ 7,867,815,014

Revenue Available for System Preservation
\$ 449,600,000
\$ 63,000,000
\$ 77,700,000
\$ 68,400,000
\$ 76,200,000
\$ 42,200,000
\$ 41,000,000
\$ 63,800,000
\$ 4,800,000
\$ 52,500,000
\$ 126,800,000
\$ 151,900,000
\$ 1,150,800,000
\$ 308,100,000
\$ 22,500,000
\$ 368,300,000
\$ 3,067,600,000

Remaining Needs for System Preservation
\$ 236,043,384
\$ 125,508,833
\$ 144,775,310
\$ 170,805,248
\$ 95,057,002
\$ 8,590,023
\$ 77,257,760
\$ 223,090,765
\$ 10,678,396
\$ 144,048,714
\$ 198,543,504
\$ 199,010,028
\$ 2,469,456,076
\$ 249,275,631
\$ 141,845,099
\$ 306,229,241
\$ 4,800,215,014

MAINTAIN EXISTING CONDITIONS

Jurisdiction
County of Solano
Benicia
Dixon
Fairfield
Rio Vista
Suisun City
Vacaville
Vallejo
COUNTY TOTAL

Total Preservation Needs
\$ 384,644,744
\$ 115,999,441
\$ 99,021,863
\$ 568,654,975
\$ 22,396,524
\$ 92,803,455
\$ 487,113,331
\$ 290,306,727
\$ 2,060,941,060

Revenue Available for System Preservation
\$ 123,300,000
\$ 15,500,000
\$ 8,900,000
\$ 101,600,000
\$ 3,200,000
\$ 22,000,000
\$ 97,600,000
\$ 56,200,000
\$ 428,300,000

Remaining Needs for System Preservation
\$ 261,344,744
\$ 100,499,441
\$ 90,121,863
\$ 467,054,975
\$ 19,196,524
\$ 70,803,455
\$ 389,513,331
\$ 234,106,727
\$ 1,632,641,060

Jurisdiction
County of Sonoma
Cloverdale
Cotati
Healdsburg
Petaluma
Rohnert Park
Santa Rosa
Sebastapol
Sonoma
Windsor
COUNTY TOTAL

Total Preservation Needs
\$ 836,780,627
\$ 34,165,401
\$ 29,021,348
\$ 41,789,163
\$ 169,562,320
\$ 159,097,991
\$ 717,025,814
\$ 27,528,456
\$ 37,438,371
\$ 103,315,792
\$ 2,155,725,285

Revenue Available for System Preservation
\$ 412,900,000
\$ 10,500,000
\$ 6,700,000
\$ 34,100,000
\$ 31,500,000
\$ 35,700,000
\$ 305,000,000
\$ 7,400,000
\$ 9,300,000
\$ 42,400,000
\$ 895,500,000

Remaining Needs for System Preservation
\$ 423,880,627
\$ 23,665,401
\$ 22,321,348
\$ 7,689,163
\$ 138,062,320
\$ 123,397,991
\$ 412,025,814
\$ 20,128,456
\$ 28,138,371
\$ 60,915,792
\$ 1,260,225,285

County
Alameda
Contra Costa
Marin
Napa
San Francisco
San Mateo
Santa Clara
Solano
Sonoma
REGION

Total Preservation Needs
\$ 5,726,507,241
\$ 4,539,169,419
\$ 1,092,916,898
\$ 686,631,743
\$ 3,228,397,782
\$ 2,902,499,747
\$ 7,867,815,014
\$ 2,060,941,060
\$ 2,155,725,285
\$ 30,260,604,189

Revenue Available for System Preservation
\$ 2,605,681,754
\$ 1,861,300,000
\$ 454,200,000
\$ 518,635,948
\$ 2,095,900,000
\$ 1,087,080,055
\$ 3,067,600,000
\$ 428,300,000
\$ 895,500,000
\$ 13,014,197,757

Remaining Needs for System Preservation
\$ 3,120,825,487
\$ 2,677,869,419
\$ 638,716,898
\$ 167,995,795
\$ 1,132,497,782
\$ 1,815,419,692
\$ 4,800,215,014
\$ 1,632,641,060
\$ 1,260,225,285
\$ 17,246,406,431

Preliminary Results for Regional Transit Capital Needs Projections

Agency	Transit Capital Need – State of Good Repair	Transit Capital Need – Maintain Current Condition
AC Transit	\$ 2,933,531,869.01	\$ 1,337,269,207.65
ACE	\$ 290,878,716.90	\$ 170,043,227.90
BART	\$ 18,120,830,053.91	\$ 12,926,706,351.75
CalTrain	\$ 3,634,260,415.00	\$ 1,988,412,972.91
CCCTA County Connection	\$ 263,018,739.53	\$ 204,877,206.52
Clipper	\$ 568,174,066.90	\$ 397,198,361.29
Delta Breeze	\$ 9,069,217.70	\$ 2,637,280.20
Dixon	\$ 7,553,587.97	\$ 3,056,254.00
ECCTA Tri Delta Transit	\$ 134,117,185.33	\$ 87,213,949.73
FAST	\$ 94,509,699.71	\$ 54,603,552.71
GGBHTD	\$ 990,139,781.25	\$ 538,152,874.30
LAVTA	\$ 183,151,603.36	\$ 96,052,668.93
Marin Transit	\$ 147,412,593.07	\$ 79,561,941.72
NCTPA	\$ 82,165,639.35	\$ 60,840,809.15
Petaluma Transit	\$ 32,028,794.32	\$ 18,283,434.91
SamTrans	\$ 1,208,095,570.23	\$ 575,317,327.17
Santa Rosa CityBus	\$ 72,109,195.33	\$ 54,256,557.63
SCT	\$ 197,444,111.80	\$ 75,919,214.86
SFMTA	\$ 12,664,471,103.66	\$ 7,895,363,904.13
SMART	\$ 628,851,598.53	\$ 420,212,353.99
SolTrans	\$ 239,538,822.10	\$ 105,902,421.31
UCT	\$ 32,402,242.52	\$ 25,137,442.50
Vacaville City Coach	\$ 53,770,147.17	\$ 14,892,237.32
VTA	\$ 3,495,406,504.05	\$ 2,071,013,190.08
WestCAT	\$ 92,458,728.04	\$ 46,728,910.08
WETA	\$ 1,442,291,641.22	\$ 1,218,121,077.64
Grand Total	\$ 47,617,681,627.96	\$ 30,467,774,730.38

Preliminary Plan Bay Area 2040 Transit Operating Needs Assessment (Dollars are in Millions)

Transit Operator	24 Year Total Service Levels (all modes, in revenue vehicle hours)	24 Year Total Costs (all modes)	24 Year Total Revenue (all modes)	24 Year Total Operating Surplus/Shortfall
ACE	1,117,485	\$1,300	\$1,218	(\$82)
AC Transit	40,513,851	\$13,445	\$13,672	\$227
BART	49,139,746	\$33,112	\$32,935	(\$177)
Caltrain	5,483,781	\$5,484	\$5,642	\$159
CCCTA	7,125,552	\$1,093	\$1,053	(\$39)
City of Dixon	186,291	\$46	\$48	\$2
ECCTA	5,307,150	\$536	\$694	\$158
City of Fairfield	2,287,392	\$355	\$410	\$55
GGBHTD	6,908,679	\$3,915	\$3,903	(\$12)
LAVTA	3,366,264	\$522	\$529	\$7
Marin Transit	6,059,722	\$1,071	\$1,066	(\$4)
NCPTA	2,647,608	\$310	\$291	(\$19)
City of Petaluma	710,836	\$82	\$100	\$18
City of Rio Vista	96,000	\$15	\$10	(\$4)
SFMTA	91,585,085	\$39,348	\$37,463	(\$1,884)
SamTrans	16,272,000	\$6,331	\$5,008	(\$1,323)
SMART	245,316	\$713	\$1,282	\$569
City of Santa Rosa	2,481,912	\$536	\$621	\$85
Solano County Transit	2,623,440	\$455	\$328	(\$126)
Sonoma County Transit	3,069,116	\$473	\$496	\$23
Union City Transit	2,245,249	\$211	\$180	(\$31)
City of Vacaville	1,120,654	\$226	\$198	(\$28)
VTA	49,893,621	\$15,734	\$16,725	\$992
WCCTA	2,578,325	\$312	\$410	\$98
WETA	404,701	\$1,413	\$1,336	(\$77)
TOTAL	303,469,777	\$127,035	\$125,619	(\$3,515)*

*Represents total shortfall of all operators. Note that surpluses from one operator cannot be transferred to other operators.