



METROPOLITAN  
TRANSPORTATION  
COMMISSION

Agenda Item 5b

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## *Memorandum*

TO: Planning Committee

DATE: April 1, 2016

FR: Executive Director

RE: Plan Bay Area 2040 Needs Assessment Update

### **Background**

One element in the development of Plan Bay Area (PBA) 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, the state highway system, and local and regional bridges, 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 worked extensively with local jurisdictions, transit operators, and Caltrans to develop these estimates over the last year. Staff presented the PBA 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 draft results of the needs assessments were also presented to the Partnership Board at its February 2016 meeting.

This memo provides a summary of the draft results of the needs assessment and provides information on key findings that have arisen from the analyses.

### **Regional Summary**

As shown in the table on the next page, to reach a state of good repair, in which all roads are maintained at their optimum 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 \$241 billion over the next 24 years. Currently, draft estimates of revenue available for the operation and maintenance of the existing system total \$180 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 \$218 billion over the next 24 years, about \$40 billion more than forecasted revenue.

Total transportation revenue forecasted for PBA 2040 is approximately \$298 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)*

<b>Mode</b>	<b>Revenue</b>	<b>Need (State of Good Repair)</b>	<b>Need (Maintain Conditions)</b>	<b>Remaining Need (State of Good Repair)</b>	<b>Remaining Need (Maintain Conditions)<sup>1</sup></b>
Local Streets & Roads	\$13,192	\$36,236	\$30,261	\$23,044	\$17,069
State Highways <sup>2</sup>	\$13,751	\$19,209	\$19,209	\$5,458	\$5,458
Local Bridges <sup>2</sup>	\$923	\$2,187	\$2,187	\$1,264	\$1,264
Regional Bridges <sup>2</sup>	\$13,379	\$14,033	\$14,033	\$654	\$654
Transit Capital	\$17,948	\$47,050	\$30,071	\$29,102	\$13,811
Transit Operating <sup>3</sup>	\$120,768	\$122,465	\$122,465	\$1,697	\$1,697
<b>Total</b>	<b>\$179,961</b>	<b>\$241,180</b>	<b>\$218,226</b>	<b>\$61,219</b>	<b>\$39,953</b>

Notes:

- 1) The remaining need figure does not include surpluses (for operators/agencies with more total revenue than projected need), given the assumption that surpluses from one operator/agency cannot be used to offset remaining need for another
- 2) Needs associated with maintaining existing condition levels is not available for the state highway system or bridges
- 3) 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

## Overall Findings

As shown in the table below, on an annualized basis, the maintenance needs for local streets and roads and state highways have decreased or remained constant, and revenues available to meet maintenance needs have increased by 2% for local roads and 15% for state highways. While transit capital maintenance revenues have remained flat, the annualized capital maintenance need has increased by 18%. For transit operations, the annualized needs and revenues have increased proportionately; however, annual service hours have increased by only 7% as compared to Plan Bay Area (2013).

*Annualized PBA 2040 Needs/Revenue Trends as Compared to PBA (2013)*

<b>Mode</b>	<b>Needs</b>	<b>Revenue</b>
Local Streets and Roads	-5%	+2%
State Highways	0%	+15%
Transit Capital	+18%	0%
Transit Operations	+25%	+28%

Attachments A, B, and C provide more details on needs and revenue for local streets and road, transit capital, and transit operations, respectively.

## 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 PBA 2040 revenue forecast are made. Updates on the needs assessments will be brought forward to the appropriate Partnership

working groups and MTC Committees periodically. Although finalization of the needs assessments will not occur until just prior to the adoption of PBA 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.



Steve Heminger

**Attachments:**

- Attachment A: Plan Bay Area 2040 -- Draft 24-Year Local Street and Road System Preservation Needs and Available Revenue
- Attachment B: Plan Bay Area 2040 – Draft 24-Year Transit Capital Maintenance Needs and Available Revenue
- Attachment C: Plan Bay Area 2040 – Draft 24-Year Transit Operating Needs and Revenue
- PowerPoint

SH: tr

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Attachment A  
Plan Bay Area 2040 -- DRAFT 24-Year Local Street and Road System Preservation Needs and Available Revenue  
4/1/2016

MAINTAIN EXISTING CONDITIONS

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Alameda	\$ 363,376,990	\$ 363,376,990	\$ -
Alameda	\$ 272,128,135	\$ 185,600,000	\$ 86,528,135
Albany	\$ 50,277,408	\$ 37,600,000	\$ 12,677,408
Berkeley	\$ 315,432,223	\$ 315,432,223	\$ -
Dublin	\$ 250,243,422	\$ 62,000,000	\$ 188,243,422
Emeryville	\$ 53,372,541	\$ 53,372,541	\$ -
Fremont	\$ 856,018,905	\$ 259,700,000	\$ 596,318,905
Hayward	\$ 545,567,130	\$ 172,300,000	\$ 373,267,130
Livermore	\$ 487,508,075	\$ 99,700,000	\$ 387,808,075
Newark	\$ 217,899,877	\$ 50,100,000	\$ 167,799,877
Oakland	\$ 1,283,705,412	\$ 618,300,000	\$ 665,405,412
Piedmont	\$ 44,709,857	\$ 19,600,000	\$ 25,109,857
Pleasanton	\$ 385,246,864	\$ 160,400,000	\$ 224,846,864
San Leandro	\$ 263,905,350	\$ 152,700,000	\$ 111,205,350
Union City	\$ 337,115,052	\$ 55,500,000	\$ 281,615,052
COUNTY TOTAL	\$ 5,726,507,241	\$ 2,605,681,754	\$ 3,120,825,487

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Contra Costa	\$ 496,932,601	\$ 294,700,000	\$ 202,232,601
Antioch	\$ 444,550,520	\$ 207,900,000	\$ 236,650,520
Brentwood	\$ 259,597,430	\$ 74,800,000	\$ 184,797,430
Clayton	\$ 68,487,967	\$ 11,400,000	\$ 57,087,967
Concord	\$ 512,891,745	\$ 161,600,000	\$ 351,291,745
Danville	\$ 200,192,274	\$ 90,700,000	\$ 109,492,274
El Cerrito	\$ 101,353,358	\$ 37,800,000	\$ 63,553,358
Hercules	\$ 98,486,328	\$ 14,400,000	\$ 84,086,328
Lafayette	\$ 130,616,338	\$ 44,500,000	\$ 86,116,338
Martinez	\$ 118,987,252	\$ 67,300,000	\$ 51,687,252
Moraga	\$ 67,543,195	\$ 27,800,000	\$ 39,743,195
Oakley	\$ 181,660,925	\$ 25,600,000	\$ 156,060,925
Orinda	\$ 56,045,352	\$ 24,500,000	\$ 31,545,352
Pinole	\$ 77,714,046	\$ 22,800,000	\$ 54,914,046
Pittsburg	\$ 269,896,004	\$ 116,100,000	\$ 153,796,004
Pleasant Hill	\$ 140,561,811	\$ 125,400,000	\$ 15,161,811
Richmond	\$ 383,471,078	\$ 200,500,000	\$ 182,971,078
San Pablo	\$ 144,106,035	\$ 28,300,000	\$ 115,806,035
San Ramon	\$ 407,563,562	\$ 246,800,000	\$ 160,763,562
Walnut Creek	\$ 378,511,596	\$ 38,400,000	\$ 340,111,596
COUNTY TOTAL	\$ 4,539,169,419	\$ 1,861,300,000	\$ 2,677,869,419

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
County of Marin	\$ 285,002,182	\$ 140,500,000	\$ 144,502,182
Belvedere	\$ 13,005,726	\$ 3,600,000	\$ 9,405,726
Corte Madera	\$ 49,240,110	\$ 7,200,000	\$ 42,040,110
Fairfax	\$ 30,877,190	\$ 8,800,000	\$ 22,077,190
Larkspur	\$ 29,651,468	\$ 12,800,000	\$ 16,851,468
Mill Valley	\$ 56,682,459	\$ 51,000,000	\$ 5,682,459
Novato	\$ 237,894,442	\$ 91,300,000	\$ 146,594,442
Ross	\$ 12,358,960	\$ 3,600,000	\$ 8,758,960
San Anselmo	\$ 36,610,356	\$ 14,800,000	\$ 21,810,356
San Rafael	\$ 271,624,962	\$ 83,300,000	\$ 188,324,962
Sausalito	\$ 29,519,163	\$ 5,900,000	\$ 23,619,163
Tiburon	\$ 40,449,879	\$ 31,400,000	\$ 9,049,879
COUNTY TOTAL	\$ 1,092,916,898	\$ 454,200,000	\$ 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

Jurisdiction
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Total Preservation Needs
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Revenue Available for System Preservation
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Remaining Needs for System Preservation
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MAINTAIN EXISTING CONDITIONS

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

\$	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

\$	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

\$	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

**Attachment A****Plan Bay Area 2040 -- DRAFT 24-Year Local Street and Road System Preservation Needs and Available Revenue  
4/1/2016****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
<b>COUNTY TOTAL</b>	<b>\$ 6,591,404,318</b>	<b>\$ 2,739,210,009</b>	<b>\$ 3,852,194,310</b>

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
<b>COUNTY TOTAL</b>	<b>\$ 4,639,390,875</b>	<b>\$ 1,861,300,000</b>	<b>\$ 2,778,090,875</b>

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
San Rafael	\$ 263,867,712	\$ 83,300,000	\$ 180,567,712
Sausalito	\$ 33,695,598	\$ 5,900,000	\$ 27,795,598

STATE OF GOOD REPAIR (BEST MANAGEMENT PRACTICES)

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
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
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

STATE OF GOOD REPAIR (BEST MANAGEMENT PRACTICES)

Jurisdiction	Total Preservation Needs	Revenue Available for System Preservation	Remaining Needs for System Preservation
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 B**

**Plan Bay Area 2040 -- DRAFT 24-Year Transit Capital Maintenance Needs and Available Revenue**

**4/1/2016**

Agency	Transit Capital Need – Maintain Current Condition	Transit Capital Need – SGR	Transit Capital Revenues	Transit Capital Shortfall/Surplus – Maintain Current Condition	Transit Capital Shortfall/Surplus – SGR
AC Transit	\$1,337,269,208	\$2,933,531,869	\$880,231,850	(\$457,037,357)	(\$2,053,300,019)
ACE	\$170,043,228	\$290,878,717	\$116,322,235	(\$53,720,992)	(\$174,556,481)
BART	\$12,926,706,352	\$18,120,830,054	\$5,337,800,732	(\$7,588,905,619)	(\$12,783,029,322)
CalTrain	\$1,988,412,973	\$3,634,260,415	\$1,611,022,423	(\$377,390,550)	(\$2,023,237,992)
CCCTA County Connection	\$204,877,207	\$263,018,740	\$185,110,086	(\$19,767,121)	(\$77,908,654)
Delta Breeze	\$2,637,280	\$9,069,218	\$3,691,817	\$1,054,537	(\$5,377,401)
Dixon	\$3,056,254	\$7,553,588	\$6,941,540	\$3,885,286	(\$612,048)
ECCTA Tri Delta Transit	\$87,213,950	\$134,117,185	\$134,117,186	\$46,903,236	\$0
FAST	\$54,603,553	\$94,509,700	\$69,066,792	\$14,463,239	(\$25,442,908)
GGBHTD	\$538,152,874	\$990,139,781	\$282,516,580	(\$255,636,295)	(\$707,623,202)
LAVTA	\$96,052,669	\$183,151,603	\$112,707,292	\$16,654,623	(\$70,444,311)
Marin Transit	\$79,561,942	\$147,412,593	\$41,401,266	(\$38,160,676)	(\$106,011,327)
NCTPA	\$60,840,809	\$82,165,639	\$66,229,692	\$5,388,883	(\$15,935,948)
Petaluma Transit	\$18,283,435	\$32,028,794	\$32,028,795	\$13,745,360	\$0
SamTrans	\$575,317,327	\$1,208,095,570	\$253,327,166	(\$321,990,161)	(\$954,768,404)
Santa Rosa CityBus	\$54,256,558	\$72,109,195	\$47,252,923	(\$7,003,635)	(\$24,856,272)
SCT	\$75,919,215	\$197,444,112	\$124,529,598	\$48,610,383	(\$72,914,514)
SFMTA	\$7,895,363,904	\$12,664,471,104	\$3,902,559,732	(\$3,992,804,172)	(\$8,761,911,372)
SMART	\$420,212,354	\$628,851,599	\$628,851,599	\$208,639,245	\$0
SolTrans	\$105,902,421	\$239,538,822	\$141,653,396	\$35,750,975	(\$97,885,426)
UCT	\$25,137,443	\$32,402,243	\$11,638,918	(\$13,498,525)	(\$20,763,325)
Vacaville City Coach	\$14,892,237	\$53,770,147	\$28,828,999	\$13,936,761	(\$24,941,149)
VTA	\$2,071,013,190	\$3,495,406,504	\$3,350,352,384	\$1,279,339,193	(\$145,054,121)
WestCAT	\$46,728,910	\$92,458,728	\$19,112,327	(\$27,616,583)	(\$73,346,401)
WETA	\$1,218,121,078	\$1,442,291,641	\$560,283,811	(\$657,837,267)	(\$882,007,830)
<b>Grand Total*</b>	<b>\$30,070,576,369</b>	<b>\$47,049,507,561</b>	<b>\$17,947,579,137</b>	<b>(\$13,811,368,953)</b>	<b>(\$29,101,928,424)</b>
Clipper	\$397,198,361	\$568,174,067	\$419,605,102	\$22,406,741	(\$148,568,965)

\* The Total Transit Capital Shortfall number does not include surpluses (for operators with total revenue greater than estimated needs), assuming that surpluses from one operator cannot be used to offset remaining needs for other operators.

**Attachment B**

**Plan Bay Area 2040 -- DRAFT 24-Year Transit Capital Maintenance Needs broken down by Score 16 vs Non Score 16**

**4/1/2016**

Transit Capital Need - Maintain Current Condition						
Agencies	Score 16				Non Score 16	Transit Capital Need - Maintain Current Condition Total
	Vehicles	Fixed Guideway	All Other Score 16	Score 16 Total		
AC Transit	\$ 1,169,597,576	\$ 20,029,871	\$ 144,880,864	\$ 1,334,508,311	\$ 2,760,896	\$ 1,337,269,208
ACE*	\$ 146,828,753		\$ 23,214,475	\$ 170,043,228	\$ -	\$ 170,043,228
BART	\$ 4,511,235,926	\$ 7,200,847,961	\$ 1,214,622,465	\$ 12,926,706,352	\$ -	\$ 12,926,706,352
CalTrain	\$ 921,561,766	\$ 1,004,547,259	\$ 62,303,948	\$ 1,988,412,973	\$ -	\$ 1,988,412,973
CCCTA County Connection	\$ 185,763,512		\$ 19,113,695	\$ 204,877,207	\$ -	\$ 204,877,207
Delta Breeze	\$ 2,442,367		\$ 92,713	\$ 2,535,080	\$ 102,200	\$ 2,637,280
Dixon	\$ 3,056,254			\$ 3,056,254	\$ -	\$ 3,056,254
ECCTA Tri Delta Transit	\$ 82,580,830		\$ 4,633,120	\$ 87,213,950	\$ -	\$ 87,213,950
FAST	\$ 52,451,050		\$ 2,152,502	\$ 54,603,553	\$ -	\$ 54,603,553
GGBHTD	\$ 361,555,890	\$ 67,442,802	\$ 91,989,659	\$ 520,988,351	\$ 17,164,524	\$ 538,152,874
LAVTA	\$ 90,213,100		\$ 5,839,569	\$ 96,052,669	\$ -	\$ 96,052,669
Marin Transit	\$ 77,590,971		\$ 1,970,971	\$ 79,561,942	\$ -	\$ 79,561,942
NCTPA	\$ 52,031,363		\$ 2,792,519	\$ 54,823,882	\$ 6,016,927	\$ 60,840,809
Petaluma Transit	\$ 16,871,165		\$ 1,412,270	\$ 18,283,435	\$ -	\$ 18,283,435
SamTrans	\$ 550,812,371		\$ 24,504,956	\$ 575,317,327	\$ -	\$ 575,317,327
Santa Rosa CityBus	\$ 52,183,056	\$ -	\$ 1,923,502	\$ 54,106,558	\$ 150,000	\$ 54,256,558
SCT	\$ 66,870,556		\$ 9,048,659	\$ 75,919,215	\$ -	\$ 75,919,215
SFMTA	\$ 5,012,990,603	\$ 2,464,169,860	\$ 417,187,294	\$ 7,894,347,757	\$ 1,016,147	\$ 7,895,363,904
SMART	\$ 95,195,459	\$ 295,416,995	\$ 155,996	\$ 390,768,449	\$ 29,443,905	\$ 420,212,354
SolTrans	\$ 95,933,582		\$ 7,057,399	\$ 102,990,981	\$ 2,911,440	\$ 105,902,421
UCT	\$ 23,791,240		\$ 1,346,203	\$ 25,137,443	\$ -	\$ 25,137,443
Vacaville City Coach	\$ 13,470,749		\$ 1,421,489	\$ 14,892,237	\$ -	\$ 14,892,237
VTA	\$ 1,400,281,630	\$ 517,854,462	\$ 149,782,607	\$ 2,067,918,699	\$ 3,094,491	\$ 2,071,013,190
WestCAT	\$ 46,113,294		\$ 615,616	\$ 46,728,910	\$ -	\$ 46,728,910
WETA	\$ 1,009,498,243	\$ 112,230,018	\$ 390,816	\$ 1,122,119,078	\$ 96,002,000	\$ 1,218,121,078
<b>Grand Total</b>	<b>\$ 16,040,921,307</b>	<b>\$ 11,682,539,228</b>	<b>\$ 2,188,453,304</b>	<b>\$ 29,911,913,839</b>	<b>\$ 158,662,530</b>	<b>\$ 30,070,576,369</b>
Clipper		\$ 303,563,855	\$ 93,634,507	\$ 397,198,361		<b>\$ 397,198,361</b>

\*ACE uses fixed guideway assets in the San Francisco Bay Area owned by Union Pacific. The fixed guideway costs for ACE are covered by an annual fee paid to Union Pacific which has been included in ACE's operating needs assessment

Transit Capital Need - SGR						
Agencies	Score 16				Non Score 16	Transit Capital Need - SGR Total
	Vehicles	Fixed Guideway	All Other Score 16	Score 16 Total		
AC Transit	\$ 1,164,757,664	\$ 37,280,510	\$ 160,395,477	\$ 1,362,433,650	\$ 1,571,098,219	\$ 2,933,531,869
ACE*	\$ 146,605,524		\$ 30,268,704	\$ 176,874,228	\$ 114,004,489	\$ 290,878,717
BART	\$ 4,511,235,926	\$ 7,040,318,398	\$ 1,278,943,844	\$ 12,830,498,168	\$ 5,290,331,886	\$ 18,120,830,054
CalTrain	\$ 921,243,085	\$ 1,997,409,352	\$ 139,372,526	\$ 3,058,024,962	\$ 576,235,453	\$ 3,634,260,415
CCCTA County Connection	\$ 185,763,512		\$ 21,079,090	\$ 206,842,602	\$ 56,176,137	\$ 263,018,740
Delta Breeze	\$ 2,442,367		\$ 99,559	\$ 2,541,926	\$ 6,527,291	\$ 9,069,218
Dixon	\$ 3,056,254			\$ 3,056,254	\$ 4,497,334	\$ 7,553,588
ECCTA Tri Delta Transit	\$ 82,580,830		\$ 7,586,600	\$ 90,167,430	\$ 43,949,756	\$ 134,117,185
FAST	\$ 52,451,050		\$ 3,977,919	\$ 56,428,969	\$ 38,080,731	\$ 94,509,700
GGBHTD	\$ 361,357,394	\$ 156,509,680	\$ 94,127,856	\$ 611,994,930	\$ 378,144,852	\$ 990,139,781
LAVTA	\$ 90,213,100		\$ 10,242,812	\$ 100,455,912	\$ 82,695,691	\$ 183,151,603
Marin Transit	\$ 77,590,971		\$ 3,366,485	\$ 80,957,456	\$ 66,455,137	\$ 147,412,593
NCTPA	\$ 52,031,363		\$ 4,437,677	\$ 56,469,039	\$ 25,696,600	\$ 82,165,639
Petaluma Transit	\$ 16,871,165		\$ 2,671,411	\$ 19,542,576	\$ 12,486,218	\$ 32,028,794
SamTrans	\$ 550,233,751		\$ 43,679,626	\$ 593,913,377	\$ 614,182,193	\$ 1,208,095,570
Santa Rosa CityBus	\$ 52,183,056	\$ -	\$ 3,238,348	\$ 55,421,404	\$ 16,687,791	\$ 72,109,195
SCT	\$ 66,870,556		\$ 12,704,763	\$ 79,575,319	\$ 117,868,792	\$ 197,444,112
SFMTA	\$ 4,998,394,623	\$ 3,724,844,857	\$ 460,025,476	\$ 9,183,264,955	\$ 3,481,206,148	\$ 12,664,471,104
SMART	\$ 95,195,459	\$ 424,930,563	\$ 188,529	\$ 520,314,550	\$ 108,537,048	\$ 628,851,599
SolTrans	\$ 95,933,582		\$ 8,179,255	\$ 104,112,837	\$ 135,425,985	\$ 239,538,822
UCT	\$ 23,791,240		\$ 1,753,010	\$ 25,544,249	\$ 6,857,993	\$ 32,402,243
Vacaville City Coach	\$ 13,470,749		\$ 1,197,675	\$ 14,668,424	\$ 39,101,723	\$ 53,770,147
VTA	\$ 1,400,115,388	\$ 662,484,394	\$ 231,582,268	\$ 2,294,182,049	\$ 1,201,224,455	\$ 3,495,406,504
WestCAT	\$ 46,113,294		\$ 1,226,743	\$ 47,340,037	\$ 45,118,691	\$ 92,458,728
WETA	\$ 1,011,783,259	\$ 262,601,449	\$ 634,267	\$ 1,275,018,976	\$ 167,272,665	\$ 1,442,291,641
<b>Grand Total</b>	<b>\$ 16,022,285,161</b>	<b>\$ 14,306,379,202</b>	<b>\$ 2,520,979,918</b>	<b>\$ 32,849,644,281</b>	<b>\$ 14,199,863,280</b>	<b>\$ 47,049,507,561</b>
Clipper		\$ 433,297,592	\$ 134,876,475	\$ 568,174,067		\$ 568,174,067

\*ACE uses fixed guideway assets in the San Francisco Bay Area owned by Union Pacific. The fixed guideway costs for ACE are covered by an annual fee paid to Union Pacific which has been included in ACE's operating needs assessment

**DRAFT 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 Shortfall
ACE	1,117,485	\$1,300	\$1,221	(\$78)
AC Transit	40,513,851	\$13,445	\$13,445	
BART	49,139,746	\$32,654	\$32,654	
Caltrain	5,286,000	\$5,484	\$5,484	
CCCTA	7,125,552	\$1,093	\$1,058	(\$34)
City of Dixon	186,291	\$46	\$46	
ECCTA	5,307,150	\$536	\$536	
City of Fairfield	2,287,392	\$355	\$355	
GGBHTD	6,908,679	\$3,915	\$3,915	
LAVTA	3,366,264	\$522	\$522	
Marin Transit	6,059,722	\$1,071	\$1,070	(\$1)
NCPTA	2,647,608	\$310	\$291	(\$19)
City of Petaluma	710,836	\$82	\$82	
City of Rio Vista	96,000	\$15	\$10	(\$4)
SFMTA	91,585,085	\$35,236	\$35,236	
SamTrans	16,272,000	\$6,331	\$5,039	(\$1,292)
SMART	245,316	\$713	\$713	
City of Santa Rosa	2,481,912	\$536	\$536	
Solano County Transit	2,623,440	\$455	\$360	(\$95)
Sonoma County Transit	3,069,116	\$473	\$473	
Union City Transit	2,245,249	\$211	\$181	(\$31)
City of Vacaville	1,120,654	\$226	\$198	(\$28)
VTA	49,893,621	\$15,734	\$15,734	
WCCTA	2,578,325	\$312	\$264	(\$48)
WETA	404,701	\$1,413	\$1,346	(\$67)
<b>TOTAL</b>	303,271,995	\$122,465	\$120,769	(\$1,697)*

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



# Needs Assessments

## Planning Committee

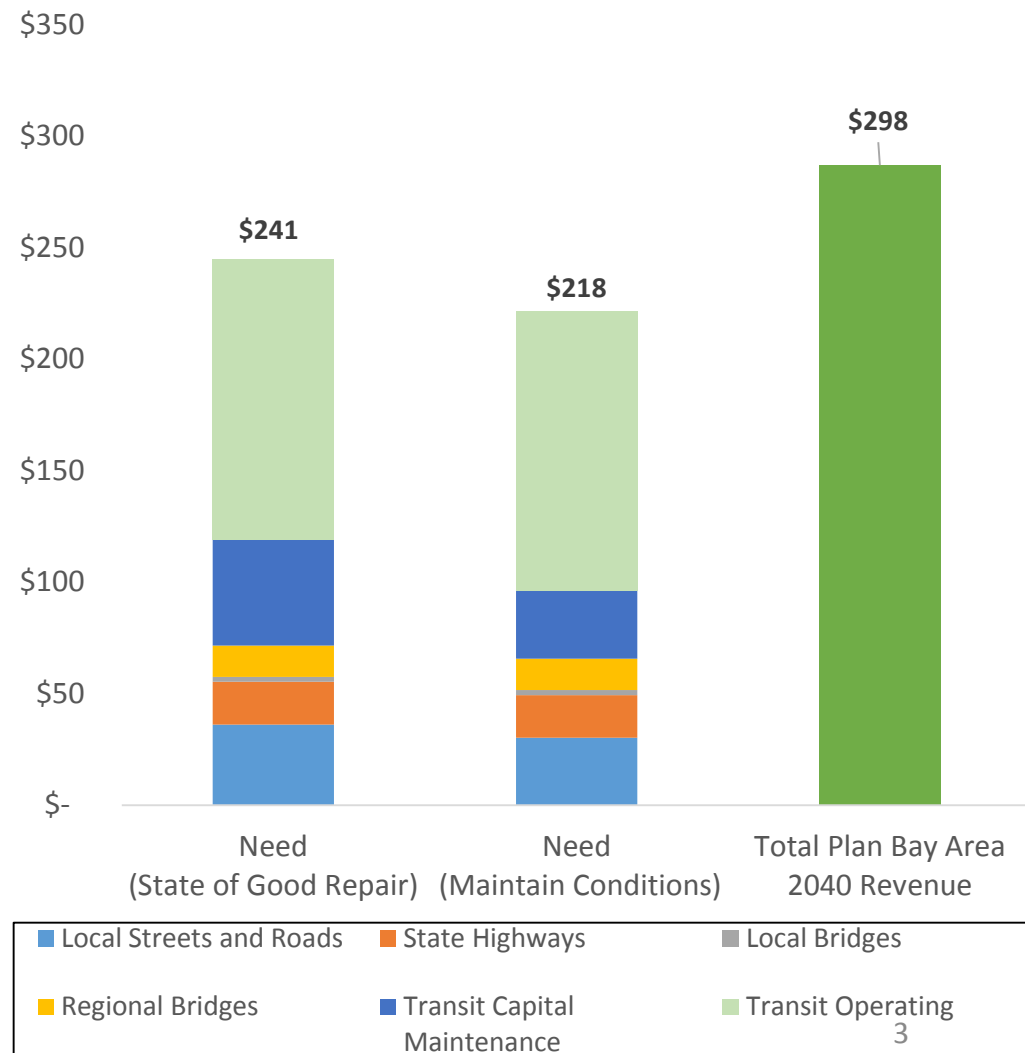
Theresa Romell  
April 8, 2016

- Draft estimation of costs and available revenues for the preservation of the existing transportation system including:
  - Transit operating
  - Transit capital maintenance
  - Local Street and Road (LS&R) capital maintenance
  - State Highway maintenance and operations
  - Local and Regional Bridges
- Assessments for LS&R and Transit capital maintenance include:
  - Cost to maintain existing conditions
  - Cost to meet a State of Good Repair
- Transit operating assessment estimates the cost to maintain existing service levels
- Estimation methodologies and draft results provided at Partnership working groups and the Partnership Technical Advisory Committee

# Regional Needs Summary

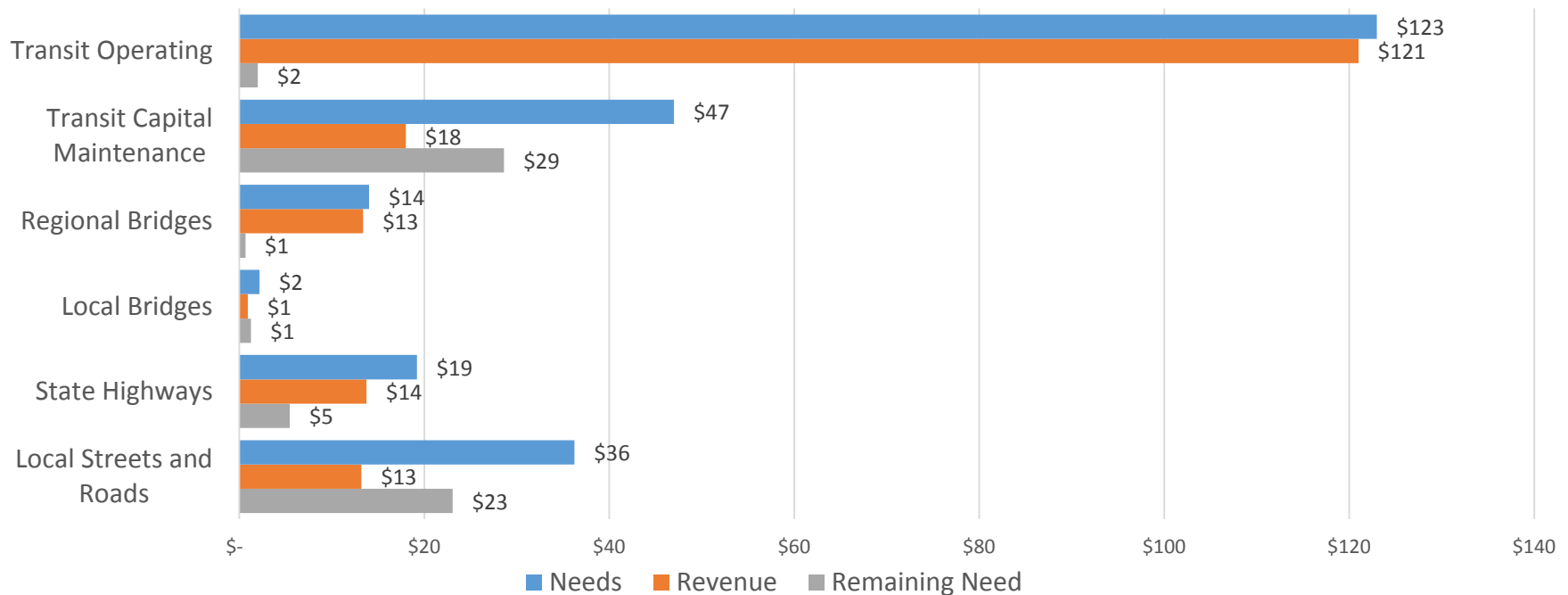
- State of Good Repair Need = \$241 Billion
- Maintain Existing Conditions Need = \$218 Billion
- Total Draft Revenue Forecast for Plan Bay Area 2040 = \$298 Billion
- Approximately 15% of Plan revenue is expected to be “discretionary”

Draft Plan Bay Area 2040 Operations and Maintenance Needs Financial Envelope (In Billions)



# Regional Needs Summary

Plan Bay Area 2040 24-Year Transit Operating &  
State of Good Repair Capital Maintenance Needs  
(In Billions)



- Total “State of Good Repair” Remaining Need = \$61 Billion (shown above)
- Total “Maintain Existing Conditions” Remaining Need = \$40 Billion

- On an annualized basis, as compared to 2013 Plan Bay Area:

Mode	Needs	Revenue
Local Streets & Roads	-5%	+2%
State Highways	0%	+15%
Transit Operating	+25%	+28%
Transit Capital	+18%	0%

- Staff continues to work with stakeholders to refine the needs assessments
- Updates will be brought to Committees/Partnership as significant changes are made
- Needs assessments will remain “draft” until shortly before adoption of Plan Bay Area 2040 to account for:
  - Updated information on available revenue
  - Input from stakeholders