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## *Memorandum*

TO: Interested Parties

DATE: January 24, 2012

FR: Sean Co, Lisa Klein, and Dave Vautin

W.I.

RE: Plan Bay Area: Project Performance Assessment – Revised Results

### **Summary**

Since the November release of draft project performance assessment results, MTC staff has received feedback from Commissioners, county congestion management agencies (CMAs), project sponsors, and other stakeholders. The attached revised results reflect additional information we received for specific projects, as well as refinements to the assessment methodology for selected targets. At the February Planning Committee meeting, MTC staff will seek the Committee's approval of criteria to identify outliers (high- and low-performing projects) and a process for CMAs and sponsors to make a compelling case for low-performing projects they propose be included in the transportation investment strategy for the preferred Sustainable Communities Strategy (SCS).

### **Background**

All non-committed projects, as defined by the Commission in its Committed Funds and Projects Policy for Plan Bay Area (Resolution No. 4006) adopted in April 2011, are subject to the performance assessment. The project performance assessment aims to determine the degree to which potential transportation projects and programs: (1) advance the ten performance targets adopted by MTC and ABAG in January 2011 (Resolution No. 3987) and (2) are cost-effective. The performance assessment allows comparison of projects on a consistent qualitative and quantitative basis to the extent possible and practical. For a description of the overall approach and analysis methodology for the benefit-cost and targets assessments, please refer to the October 28, 2011 memo to the MTC Planning Committee: [http://www.onebayarea.org/pdf/Project\\_Assessment\\_11-4-11.pdf](http://www.onebayarea.org/pdf/Project_Assessment_11-4-11.pdf).

### **Revisions to Project Assessment since November**

An overview of the major revisions follows below. These are reflected in the revised summary tables and “bubble charts” in **Attachment A**. Today's release includes a significant quantity of materials, each designed to provide further insight on the revised project performance assessment results. (See list of attachments at the end of this memo.) This spring, MTC staff will release a final report on the Plan Bay Area project performance assessment.

As noted from the beginning, the project performance assessment is most useful to identify outliers at both ends of the spectrum – the highest and lowest performing projects. (See below under Next Steps.) While the revisions affect the numeric results for a number of projects, the net effect in terms

of identifying high- and low-performing outlier projects is relatively modest. In particular, there is virtually no change in highest performing projects. At the other end of the spectrum, the number of projects with low benefit-cost scores and low target ratings has decreased as a result of improved project definitions and corrections.

### ***Benefit-Cost Assessment***

Revisions were made for a handful of projects subject to benefit-cost assessment. Most revisions reflected updated cost estimates, while a few revisions reflect refined estimates of projects' associated benefits. For a list of projects with updated benefit-cost ratios, see **Table B-1**. Complete results for all projects are shown in **Tables B-2** through **B-5**.

### ***Targets Assessment***

In **Attachment C-1**, MTC staff has provided a description of the methodology used to rate each of the targets, including those for which the methodology has been revised. Detailed discussion of the specific changes and revised results for all projects are included in **Attachments C-2** through **C-4**.

MTC staff made three types of changes to the targets assessment.

- **Individual Project Review**: The target scores for several projects were revised on a case-by-case basis in response either to additional project detail provided by CMAs and sponsors or based on a review of consistency among similar projects. **Table C-2** lists these changes. Note that the total revised target scores for these projects are also affected by the revised methodologies for the housing target and the low-income household housing & transportation cost target (as described below).
- **Adequate Housing Target**: This assessment approach for this target was significantly revised to consider the target's emphasis on accommodating both overall housing demand and the demand for affordable housing without displacement. The assessment of support for addressing overall housing demand was updated to reflect housing growth in the more realistic Focused Growth scenario, as opposed to the prior use of the unconstrained Initial Vision scenario. In addition, jurisdictions' track records in meeting their Regional Housing Needs Assessment (RHNA) targets provided the basis for assessing support for affordable housing. The revised approach is described in more detail in **Exhibit C-1**.
- **Target to Reduce Low-Income Household Expenditures on Housing & Transportation**: This target was previously assessed based on whether or not the project provided a lower-cost transit alternative to driving. The updated assessment considers data available for transit operators on the number of low-income riders served. Transit projects sponsored by agencies that serve a high share of low-income riders or have a large number of low-income riders receive higher ratings for this target. We continue to assume that road improvement projects have minimal impact on this target. The revised approach is described in more detail in **Exhibit C-1**.

### ***Equity Considerations***

The table summarizing equity considerations has been updated to reflect the revised target assessment results describe above. In addition, MTC staff has generated county maps reflecting each project's level of support for Communities of Concern and towards the corresponding equity-related targets. These materials are presented in **Attachment D**.

## Next Steps: Impacts for High- and Low-Performing Projects

In March/April 2012, MTC and ABAG staff will recommend a preferred SCS that will include a preferred land use and transportation investment strategy. The Commission will use its policy discretion along with the performance assessment results to decide which projects and programs to include in the investment strategy. Staff proposes the following guidelines for leveraging project performance assessment results in the development the preferred SCS investment strategy.

1. The analysis results should be used to identify outliers at both ends of the spectrum – the highest and lowest performing projects, as shown in **Table A-5** and described below.
2. The highest performing projects should be included in the preferred investment strategy, subject to analysis of financial feasibility. The highest performing projects include those with:
  - **High benefit-cost ratio ( $\geq 10$ ) and at least a moderate target score ( $\geq 2$ ); or**
  - **High target score ( $\geq 6$ ) and at least a moderate benefit-cost ratio ( $\geq 5$ )**
3. The lowest performing projects should be included only if the sponsor or CMA can make a compelling case. The lowest performing projects include those with:
  - **Low benefit-cost ratio ( $< 1$ ), regardless of target score; or**
  - **Low target score ( $< -1$ ), regardless of benefit-cost ratio**
4. A county congestion management agency (CMA) and/or project sponsor must make a compelling case in writing and may be asked to present the case at the March Planning Committee meeting. Further details on making this compelling case will be discussed at the February meetings of the Partnership Technical Advisory Committee (PTAC), MTC Policy Advisory Council, and MTC Planning Committee.

## Proposed Schedule (subject to approval by MTC Planning Committee in February)

February 2012	<ul style="list-style-type: none"> <li>▪ Notify CMAs and project sponsors of the guidelines for applying the project performance assessment results</li> </ul>
March / April 2012	<ul style="list-style-type: none"> <li>▪ CMAs/sponsors submit compelling cases in writing by March 2 and present their cases at the March 9 joint MTC Planning Committee/ABAG Administration Committee meeting</li> <li>▪ Release preliminary preferred scenario for Plan Bay Area (includes investment strategy)</li> </ul>
May 2012	<ul style="list-style-type: none"> <li>▪ MTC / ABAG approves preferred scenario for Plan Bay Area</li> </ul>

## List of Attachments

### A. Project Assessment Summary Materials

- **Table A-1:** Summary of Benefit-Cost Ratios and Target Scores, ranked by B/C ratio
- **Figure A-2:** Project Performance Bubble Chart by project type
- **Figure A-3:** Project Performance Bubble Chart for road projects
- **Figure A-4:** Project Performance Bubble Chart for transit projects
- **Table A-5:** High-Performers and Low-Performers (based on thresholds proposed by staff for approval at the February meeting of the MTC Planning Committee)

B. Revised Benefit-Cost Assessment – Detail

- **Table B-1:** Projects with Revised Benefit-Cost Ratios since November Draft Release
- **Table B-2:** Benefit-Cost Assessment – Nominal Annual Benefits
- **Table B-3:** Benefit-Cost Assessment – Monetized Annual Benefits
- **Exhibit B-4:** Benefit-Cost Sensitivity Testing
- **Exhibit B-5:** Confidence Assessment of Benefit-Cost Results

C. Targets Assessment – Detail

- **Exhibit C-1:** Targets Assessment Methodology
- **Table C-2:** Projects with Revised Target Scores since November Draft Release (based on improved project definitions)
- **Table C-3:** Targets Assessment – Detailed Results (for large projects)
- **Table C-4:** Targets Assessment – Results by Project Type (for small projects)

D. Equity Considerations

- **Table D-1:** Project Assessment Equity Considerations
- **Figure D-2:** Project Assessment Equity Considerations Mapping (Alameda County)
- **Figure D-3:** Project Assessment Equity Considerations Mapping (Contra Costa County)
- **Figure D-4:** Project Assessment Equity Considerations Mapping (Marin County)
- **Figure D-5:** Project Assessment Equity Considerations Mapping (North Bay Counties)
- **Figure D-6:** Project Assessment Equity Considerations Mapping (San Francisco County)
- **Figure D-7:** Project Assessment Equity Considerations Mapping (San Mateo County)
- **Figure D-8:** Project Assessment Equity Considerations Mapping (Santa Clara County)

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Row #	Project ID*	Project Name	County	Project Type	Project Capital Costs (in millions of 2013 dollars)	Total Annualized 2035 Benefits (in millions of 2013 dollars)	Total Annualized 2035 Costs (in millions of 2013 dollars)	Plan Bay Area B/C Ratio	T-2035 B/C Ratio	Overall Targets Score	Targets Supported	Targets Adversely Affected		
High B/C	1	240182	BART Metro Program (including Bay Fair Connection & Civic Center Turnback)		Multi-County	Transit Efficiency	650	161	-10	>60	n/a	8.5	8.5	0
	2	240694	Treasure Island Congestion Pricing		San Francisco	Pricing	59	69	1	59	n/a	4.0	4.0	0
	3	240522	Congestion Pricing Pilot		San Francisco	Pricing	102	227	5	45	n/a	6.0	6.0	0
	4	22780	AC Transit Grand-MacArthur BRT		Alameda/3434	Transit Efficiency	36	32	2	18	n/a	5.5	5.5	0
	5	230419	Freeway Performance Initiative		Regional	FPI	2,991	3,175	202	16	28	4.0	4.0	0
	6	22274	ITS Improvements in San Mateo County		San Mateo	Road Efficiency	66	56	4	16	n/a	4.0	4.0	0
	7	240494	ITS Improvements in Santa Clara County		Santa Clara	Road Efficiency	320	752	48	16	n/a	4.0	4.0	0
	8	22062	Irvington BART Station		Alameda	Transit Efficiency	123	19	2	12	n/a	5.5	5.5	0
	9	240171	SFMTA Transit Effectiveness Project		San Francisco	Transit Efficiency	157	90	8	11	n/a	7.5	7.5	0
Medium-High B/C	10	240582	Truck & Motorcycle Retirement [BAAQMD program]		Regional	Climate	29	55	6	9	n/a	0.5	1.5	1.0
	11	22400	SR-239 Expressway Construction (Brentwood to Tracy)		Contra Costa	Highway Expansion	373	144	21	7	1	-3.5	1.0	4.5
	12	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)		Santa Clara	Road Efficiency	198	81	12	7	n/a	0.5	0.5	0
	13	94506	Fremont/Union City East-West Connector		Alameda	Arterial Expansion	190	65	10	7	1	0.5	2.0	1.5
	14	98207T	Alameda-Oakland BRT + Transit Access Improvements		Alameda	Transit Efficiency	16	14	2	6	n/a	5.0	5.0	0
	15	240523, 240060	US-101 HOV Lanes (Whipple Avenue to Cesar Chavez Street)		Multi-County	Road Efficiency	331	123	19	6	n/a	2.5	2.5	0
	16	230161	Van Ness Avenue BRT		San Francisco/3434	Transit Efficiency	140	44	7	6	n/a	6.5	6.5	0
	17	HOTd	Silicon Valley Express Lanes Network		Santa Clara	Express Lanes Network	1,398	408	70	6	n/a	-0.5	2.0	2.5
	18	240155	Better Market Street		San Francisco	Transit Efficiency	200	56	10	6	n/a	6.0	6.0	0
	19	22455	AC Transit East Bay BRT		Alameda/3434	Transit Efficiency	211	62	12	5	n/a	5.5	5.5	0
	20	HOTe	CTC Application + Alameda County Authorized Lanes Express Lanes Network		Multi-County	Express Lanes Network	2,364	602	118	5	n/a	-0.5	2.0	2.5
	21	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)		Solano	Road Efficiency	50	18	4	5	2†	1.0	1.0	0
	22	n/a	Local Streets and Roads Capital Maintenance Needs		Regional	Maintenance	n/a	1,369	280	5	5	5.0	5.0	0
	23	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)		Santa Clara/3434	Transit Expansion	4,094	324	70	5	n/a	7.0	7.0	0
	24	240134, 21627	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien)		Multi-County	Transit Efficiency	848	153	34	5	n/a	7.5	7.5	0
Low B/C	25	240557	Oakdale Caltrain Station		San Francisco	Transit Efficiency	51	3	1	4	n/a	4.5	4.5	0
	26	240062, 22776	SR-84/I-680 Interchange Improvements + SR-84 Widening (Jack London to I-680)		Alameda	Highway Expansion	381	87	21	4	n/a	-2.5	0.5	3.0
	27	230294	New SR-152 Alignment		Santa Clara	Highway Expansion	776	148	41	4	n/a	-2.0	2.0	4.0
	28	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)		San Francisco/3434	Transit Expansion	2,348	108	31	4	n/a	7.5	7.5	0
	29	240410	Transportation for Livable Communities		Regional	TLC	7,131	875	255	3	2	7.0	7.0	0
	30	21205, 22350	I-680/SR-4 Interchange Improvements + SR-4 Widening (Morello Avenue to SR-242)		Contra Costa	Highway Expansion	396	65	21	3	1	0.5	1.0	0.5
	31	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)		Solano	Transit Efficiency	54	2	1	3	n/a	3.5	3.5	0

Row #	Project ID*	Project Name	County	Project Type	Project Capital Costs (in millions of 2013 dollars)	Total Annualized 2035 Benefits (in millions of 2013 dollars)	Total Annualized 2035 Costs (in millions of 2013 dollars)	Plan Bay Area B/C Ratio	T-2035 B/C Ratio	Overall Targets Score	Targets Supported	Targets Adversely Affected
32	240617	SR-29 HOV Lanes and BRT (Napa Junction to Vallejo)	Napa	Road Efficiency	60	11	4	3	n/a	1.5	1.5	0
33	22227, 240328, 240334	Geneva Avenue Corridor Improvements (Roadway Extension, BRT, and Southern Intermodal Terminal)	Multi-County	Transit Efficiency	216	36	15	2	n/a	4.5	4.5	0
34	240147	Southeast Waterfront Transportation Improvements	San Francisco	Transit Efficiency	397	88	36	2	n/a	3.5	3.5	0
35	240026	SamTrans El Camino BRT	San Mateo	Transit Efficiency	120	59	25	2	n/a	5.5	5.5	0
36	240119	VTA El Camino BRT	Santa Clara	Transit Efficiency	239	28	12	2	n/a	7.0	7.0	0
37	00BART	BART Service Frequency Improvements	Multi-County	Transit Efficiency	1,275	126	56	2	n/a	8.5	8.5	0
38	230604	Bay Bridge Contraflow Lane	Multi-County	Pricing	611	67	31	2	n/a	4.5	4.5	0
39	580_BUS	I-580 Express Bus (Dublin to Livermore)	Alameda	Transit Efficiency	150	32	16	2	n/a	4.5	4.5	0
40	240018	Dumbarton Corridor Express Bus	Multi-County	Transit Efficiency	101	23	12	2	n/a	6.5	6.5	0
41	22511, 22512, 22122, 230613, 22120, 230581	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)	Multi-County/ 3434	Transit Expansion	320	41	22	2	n/a	4.5	4.5	0
42	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Contra Costa	Highway Expansion	150	15	9	2	1†	-2.5	2.0	4.5
43	00MUNI	Muni Service Frequency Improvements	San Francisco	Transit Efficiency	0	25	14	2	n/a	5.5	5.5	0
44	230164	Geary Boulevard BRT	San Francisco	Transit Efficiency	172	15	9	2	7	6.5	6.5	0
45	240526	SFCTA Transit Performance Initiative	San Francisco	Transit Efficiency	490	28	16	2	n/a	7.5	7.5	0
46	22247	Regional Bikeway Network	Regional	Bike/Ped	1,464	124	73	2	0.5	7.0	7.0	0
47	240699	AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Multi-County	Transit Efficiency	0	108	65	2	n/a	5.5	5.5	0
48	n/a	New Freedom Program	Regional	Lifeline/New Freedom	n/a	3	2	2	n/a	5.5	5.5	0
49	22268	San Mateo Countywide Shuttle Service Frequency Improvements	San Mateo	Transit Efficiency	0	10	6	2	n/a	2.5	2.5	0
50	230550	Climate Initiatives (5-year program)	Regional	Climate	560	158	112	1	0.4	3.5	3.5	0
51	n/a	Transit Capital Maintenance Needs	Regional	Maintenance	n/a	1,787	1,286	1	1	5.0	5.0	0
52	240545	Parkmerced Light Rail Corridor	San Francisco	Transit Efficiency	76	6	5	1	n/a	5.0	5.0	0
53	230055	Golden Gate Ferry Service Frequency Improvements	Multi-County	Transit Efficiency	34	6	4	1	n/a	4.5	4.5	0
54	LBART	BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Alameda	Transit Expansion	555	37	29	1	n/a	5.0	5.0	0
55	240521, 240134, 21627	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi-County/ 3434	Transit Efficiency	5,599	272	220	1	n/a	7.5	7.5	0
56	00ACT1	AC Transit Frequent Transit Network	Multi-County	Transit Efficiency	654	606	510	1	n/a	5.5	5.5	0
57	22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	Contra Costa	Transit Efficiency	60	12	11	1	1	4.5	4.5	0
58	98147, 240691	Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Multi-County	Road Efficiency	300	20	18	1	8†	0.5	2.5	2.0
59	240577	Heavy-Duty Truck Replacement [BAAQMD program]	Regional	Climate	211	42	44	1	n/a	0.5	1.5	1.0
60	240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Alameda	Transit Expansion	1,135	50	52	1	4†	5.0	5.0	0

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61	22415	Historic Streetcar Expansion Program	San Francisco	Transit Efficiency	66	9	9	0.9	2	5.0	5.0	0
62	240216	Dumbarton Rail	Multi-County/ 3434	Transit Expansion	755	31	36	0.8	n/a	6.0	6.0	0
63	240589	EV Solar Installation [BAAQMD program]	Regional	Climate	25	1	2	0.8	n/a	1.0	1.5	0.5
64	240650	Sonoma Countywide Bus Service Frequency Improvements	Sonoma	Transit Efficiency	428	32	41	0.8	n/a	5.0	5.0	0
65	240676, 240675, 240677	SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Multi-County/ 3434	Transit Expansion	283	10	13	0.7	n/a	5.0	5.0	0
66	230252	Marin Countywide Bus Service Frequency Improvements	Marin	Transit Efficiency	0	9	12	0.7	1	4.5	4.5	0
67	230219, 230314	Golden Gate Bus Service Frequency Improvements	Multi-County	Transit Efficiency	143	16	29	0.5	n/a	4.5	4.5	0
68	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Santa Clara	Transit Expansion	276	4	8	0.5	n/a	6.0	6.0	0
69	230547	Monterey Highway BRT	Santa Clara	Transit Efficiency	140	15	37	0.4	n/a	5.5	5.5	0
70	22667	BART to Livermore (Phases 1 & 2: Rail Extension)	Alameda	Transit Expansion	4,177	57	153	0.4	n/a	5.0	5.0	0
71	22019	Downtown East Valley (Phase 2: LRT)	Santa Clara/ 3434	Transit Expansion	307	5	16	0.3	n/a	6.0	6.0	0
72	98139	ACE Service Expansion	Multi-County/ 3434	Transit Efficiency	600	19	67	0.3	n/a	4.0	4.0	0
73	230554	Sunnyvale-Cupertino BRT	Santa Clara	Transit Efficiency	100	5	26	0.2	n/a	5.0	5.0	0
74	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Santa Clara	Transit Expansion	435	3	19	0.2	n/a	6.0	6.0	0
75	240690	Lifeline Transportation Program	Regional	Lifeline/New Freedom	n/a	10	119	0.1	0	5.5	5.5	0
76	22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)	Multi-County/ 3434	Transit Efficiency	509	1	18	0.1	n/a	6.0	6.0	0
77	98119	Vasona Light Rail Extension (Phase 2)	Santa Clara	Transit Expansion	176	0	6	0.0	n/a	5.5	5.5	0
78	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	Alameda/ 3434	Transit Efficiency	180	0	2	0.0	n/a	5.0	5.0	0

Low B/C

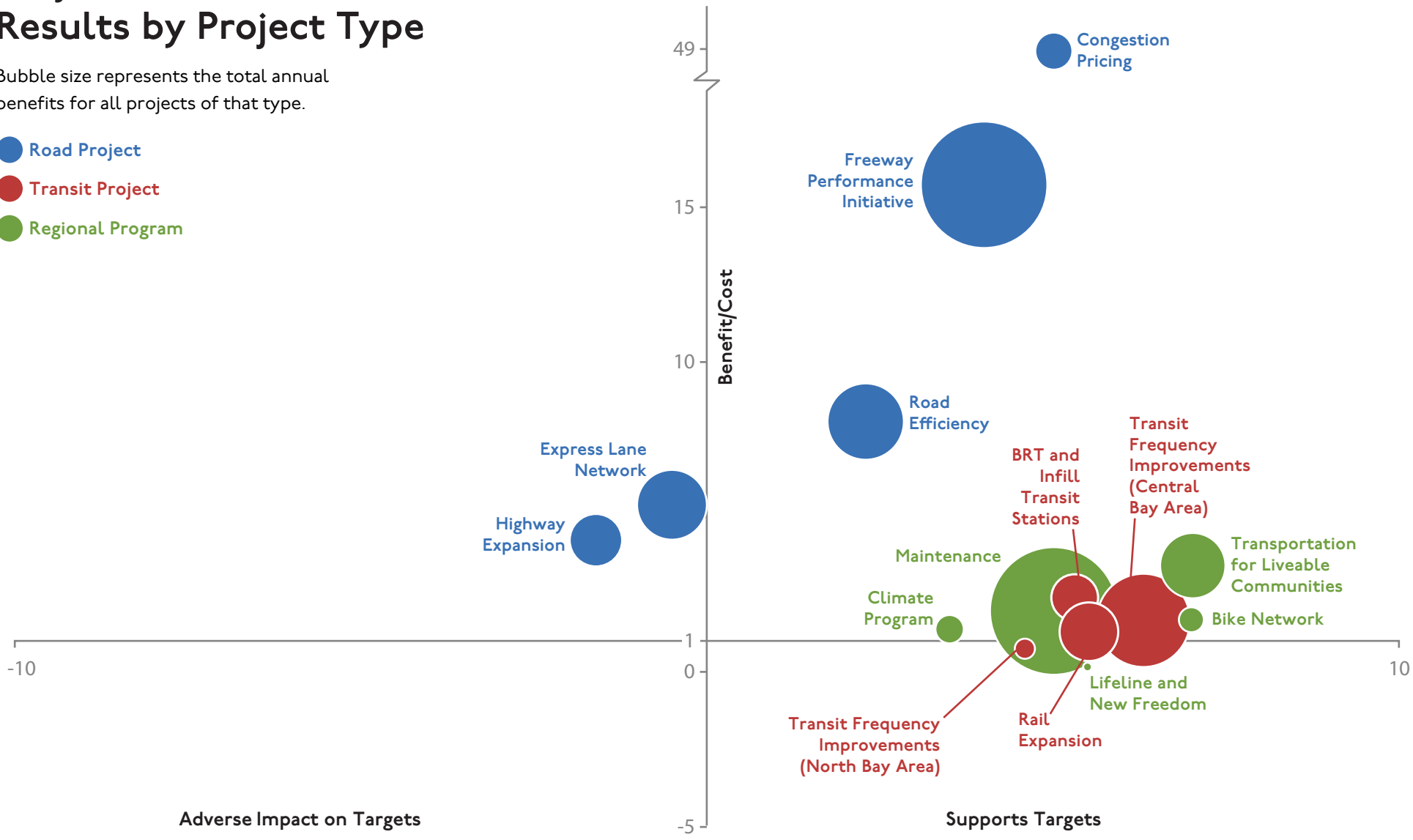
B/C RATIO - COLOR KEY	
High B/C (B/C ratio greater than 10)	Green
Medium-High B/C (B/C ratio between 5 and 9)	Light Green
Medium-Low B/C (B/C ratio between 1 and 4)	Yellow
Low B/C (B/C ratio less than 1)	Red

TARGETS SCORE - COLOR KEY	
Strong Support (score of 6.0 or higher)	Green
Moderate Support (score between 1.5 and 5.5)	Light Green
Minimal Impact (score between -1.0 and 1.0)	Yellow
Moderate Adverse Impact (score between -1.5 and -5.5)	Red
Strong Adverse Impact (score of -6.0 or lower)	Dark Red

# Project Performance Assessment: Results by Project Type

Bubble size represents the total annual benefits for all projects of that type.

- Road Project
- Transit Project
- Regional Program



Adverse Impact on Targets

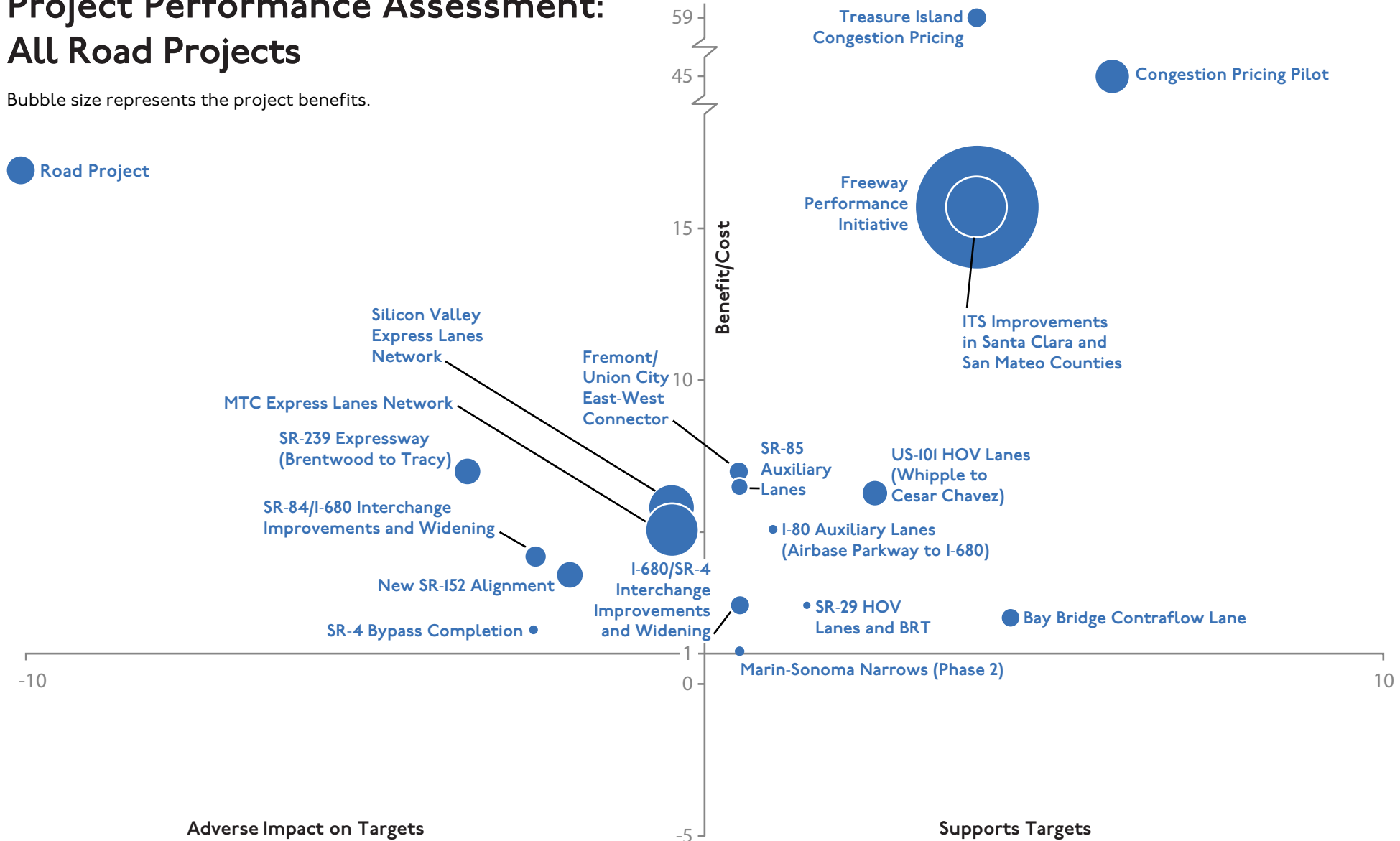
Supports Targets



# Project Performance Assessment: All Road Projects

Bubble size represents the project benefits.

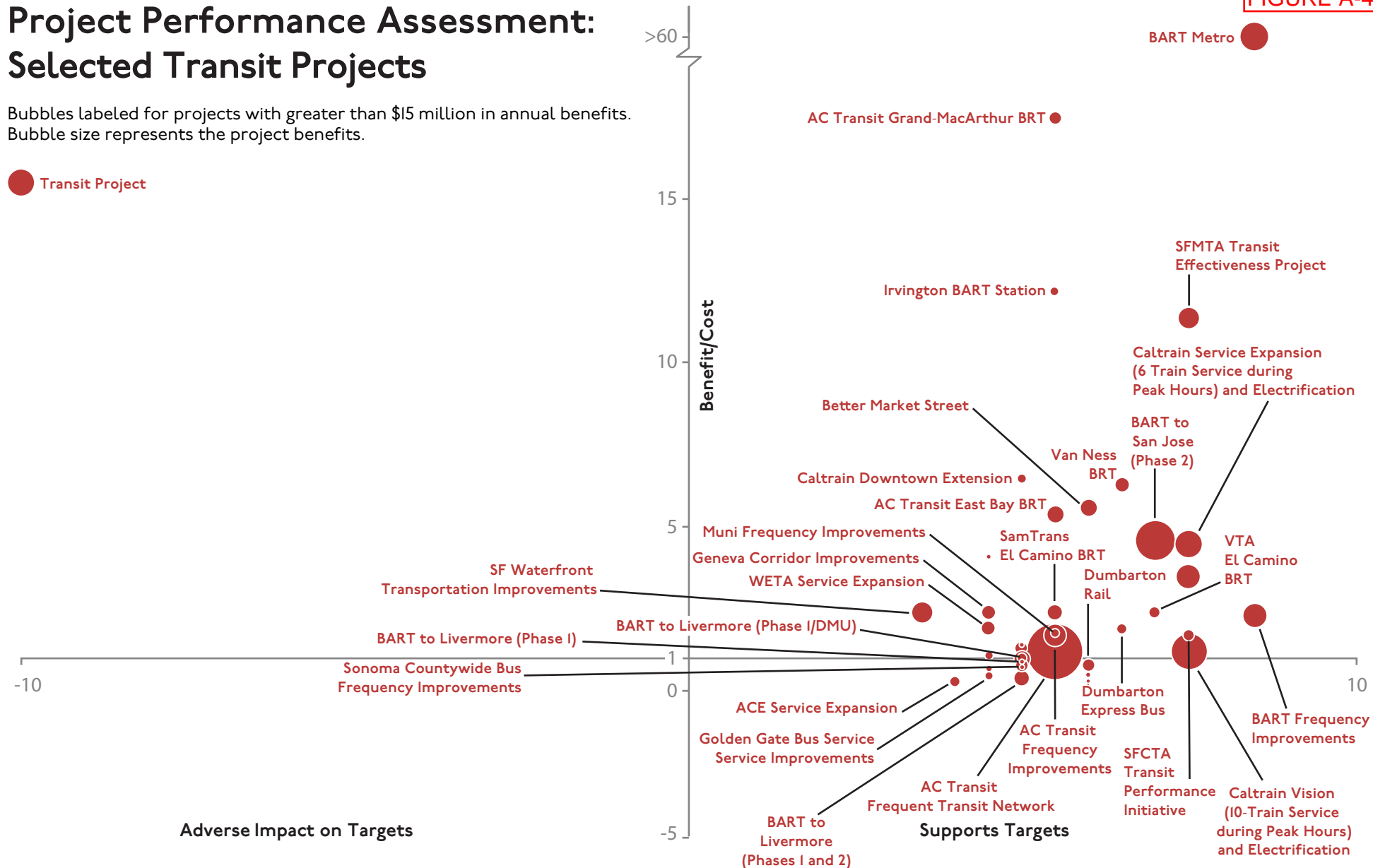
Road Project



# Project Performance Assessment: Selected Transit Projects

Bubbles labeled for projects with greater than \$15 million in annual benefits. Bubble size represents the project benefits.

● Transit Project



**FIGURE A-4**

Row #	Project ID	Project Name	County	B/C Ratio	Overall Targets Score	Project Capital Costs*	Project Description	
<b>HIGH-PERFORMING PROJECTS**: HIGH B/C (&gt;=10) and MODERATE Targets Score (&gt;=2) OR HIGH Targets Score (&gt;=6) and MODERATE B/C (between 5 and 10)</b>								
1	240182	BART Metro Program (including Bay Fair Connection & Civic Center Turnback)	Multi-County	>60	8.5	650	Increases the efficiency of BART in the urban core by constructing new turnbacks and providing new express train service.	HIGH B/C (>=10)
2	240694	Treasure Island Congestion Pricing	San Francisco	59	4.0	59	Charges a \$5 toll for residents to enter/exit Treasure Island during peak hours; net revenues designated for transit service.	
3	240522	Congestion Pricing Pilot	San Francisco	45	6.0	102	Charges a \$3 toll to enter/exit the northeast quadrant of San Francisco during peak hours; net revenues designated for transit service.	
4	22780	AC Transit Grand-MacArthur BRT	Alameda/ 3434	18	5.5	36	Constructs a bus rapid transit line along the Grand & MacArthur corridors in Oakland, providing faster service for AC Transit Line NR.	
5	230419	Freeway Performance Initiative	Regional	16	4.0	2,991	Maximizes the efficiency of the roadway network through arterial signal coordination and freeway ramp metering.	
6	22274	ITS Improvements in San Mateo County	San Mateo	16	4.0	66	Maximizes the efficiency of the roadway network through arterial signal coordination and freeway ramp metering.	
7	240494	ITS Improvements in Santa Clara County	Santa Clara	16	4.0	320	Maximizes the efficiency of the roadway network through arterial signal coordination and freeway ramp metering.	
8	22062	Irvington BART Station	Alameda	12	5.5	123	Constructs a new infill BART station in the Irvington district of Fremont.	
9	240171	SFMTA Transit Effectiveness Project	San Francisco	11	7.5	157	Improves reliability and reduces travel times on key Muni bus corridors through signal prioritization and bus lanes.	
10	240134, 21627	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi-County	5	7.5	848	Electrifies the Caltrain line and purchases additional train vehicles to provide faster, more frequent service during peak hours.	HIGH Targets (>=6) and MEDIUM-HIGH B/C (>=5)
11	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Santa Clara/ 3434	5	7.0	4,094	Extends BART from the Phase 1 terminus in Berryessa (North San Jose) through a new BART subway to Alum Rock, Downtown San Jose, Diridon Station, and Santa Clara.	
12	230161	Van Ness Avenue BRT	San Francisco/ 3434	6	6.5	140	Constructs a bus rapid transit line with dedicated lanes along the Van Ness corridor in San Francisco (from Lombard to Mission).	
13	240155	Better Market Street	San Francisco	6	6.0	200	Increases transit speeds along San Francisco's Market Street between the Embarcadero & Octavia by restricting auto traffic on the corridor.	

\* = shown in millions of 2013 dollars

\*\* = thresholds for high- and low-performers reflect staff proposals for February 2012 Planning Committee; refer to cover memo for more details.

Row #	Project ID	Project Name	County	B/C Ratio	Overall Targets Score	Project Capital Costs*	Project Description
<b>LOW-PERFORMING PROJECTS**: LOW B/C (&lt;1) OR LOW Targets Score (&lt;-1)</b>							
1	22415	Historic Streetcar Expansion Program	San Francisco	0.9	5.0	66	Expands streetcar service with the new Muni E-line, connecting Fort Mason to Caltrain.
2	240216	Dumbarton Rail	Multi-County/ 3434	0.8	6.0	755	Offers new rail service on the Dumbarton corridor between Union City & Redwood City.
3	240650	Sonoma Countywide Bus Service Frequency Improvements	Sonoma	0.8	5.0	428	Increases bus service frequencies in Sonoma County by 50%.
4	240589	EV Solar Installation [BAAQMD program]	Regional	0.8	1.0	25	Installs solar panels at electric vehicle charging stations to offset emissions.
5	240676, 240675, 240677	SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Multi-County/ 3434	0.7	5.0	283	Constructs extensions to SMART's Initial Operating Segment, connecting Cloverdale to Larkspur and building deferred stations.
6	230252	Marin Countywide Bus Service Frequency Improvements	Marin	0.7	4.5	0	Increases bus service frequencies on higher-demand Marin Transit routes.
7	230219, 230314	Golden Gate Bus Service Frequency Improvements	Multi-County	0.5	4.5	143	Increases bus service frequencies on higher-demand Golden Gate bus routes.
8	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Santa Clara	0.5	6.0	276	Extends VTA light rail in East San Jose from Alum Rock to Eastridge Transit Center.
9	230547	Monterey Highway BRT	Santa Clara	0.4	5.5	140	Constructs a bus rapid transit line along Monterey Highway, connecting downtown San Jose to points south.
10	22667	BART to Livermore (Phases 1 & 2: Rail Extension)	Alameda	0.4	5.0	4,177	Extends BART from Dublin/Pleasanton to Vasco Road via downtown Livermore.
11	22019	Downtown East Valley (Phase 2: LRT)	Santa Clara/ 3434	0.3	6.0	307	Constructs a new light rail line along Santa Clara Avenue in San Jose, from downtown to Alum Rock.
12	98139	ACE Service Expansion	Multi-County/ 3434	0.3	4.0	600	Provides hourly bidirectional train service between Stockton and San Jose, along with significantly reduced travel times.
13	230554	Sunnyvale-Cupertino BRT	Santa Clara	0.2	5.0	100	Constructs a bus rapid transit line between Sunnyvale and Cupertino.
14	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Santa Clara	0.2	6.0	435	Extends VTA light rail in East San Jose from Alum Rock to Nieman Boulevard.
15	240690	Lifeline Transportation Program	Regional	0.1	6.0	n/a	Funds programs to address transportation gaps for low-income communities.
16	22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)	Multi-County/ 3434	0.1	5.5	509	Doubles the frequency of Capitol Corridor service between Oakland and San Jose, leading to approximately hourly service.
17	98119	Vasona Light Rail Extension (Phase 2)	Santa Clara	0.0	5.5	176	Extends VTA light rail from Campbell to Vasona Junction in Los Gatos.
18	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	Alameda/ 3434	0.0	5.0	180	Constructs an infill commuter rail station in Union City to serve Capitol Corridor & Dumbarton Rail.

LOW B/C (<1)

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Row #	Project ID	Project Name	County	B/C Ratio	Overall Targets Score	Project Capital Costs*	Project Description	
<b>LOW-PERFORMING PROJECTS**:</b> LOW B/C (<1) OR LOW Targets Score (<-1)								
19	21998	SR-116 Widening & Rehabilitation (Elphick Road to Redwood Drive)	Sonoma	N/A	-1.5	90	Widens SR-116 in Sebastopol and Cotati to add turn lanes and shoulders.	<b>LOW Target Score (&lt;-1)</b>
20	230294	New SR-152 Alignment	Santa Clara	4	-2.0	776	Realigns SR-152 on a new, wider corridor east of Gilroy to accommodate greater traffic volumes.	
21	21884	Petaluma Cross-Town Connector/Interchange	Sonoma	N/A	-2.0	62	Constructs a new interchange on US-101 in Petaluma and provides a new east-west arterial.	
22	240062, 22776	SR-84/I-680 Interchange Improvements + SR-84 Widening (Jack London to I-680)	Alameda	4	-2.5	381	Builds aux lanes on I-680 near the SR-84 interchange and widens SR-84 from the I-680 interchange to Livermore.	
23	22981	SR-4 Widening (Marsh Creek Road to San Joaquin County line)	Contra Costa	N/A	-2.5	110	Widens SR-4 to four lanes from Brentwood to the San Joaquin County line.	
24	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Contra Costa	2	-2.5	150	Constructs the remaining phases of the SR-4 Bypass freeway in Brentwood.	
25	22207	Farmers Lane Extension (Bellevue Avenue to SR-12)	Sonoma	N/A	-2.5	54	Builds a new arterial roadway in southeastern Santa Rosa.	
26	98133	Pacheco Boulevard Widening (Blum Road to Arthur Road)	Contra Costa	N/A	-3.0	52	Widens Pacheco Boulevard in Martinez to 4 lanes.	
27	230477	SR-12 Widening (SR-29 to Sacramento County line)	Solano	N/A	-3.0	50	Widens SR-12 throughout Solano County to increase safety and provide additional capacity.	
28	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Contra Costa	7	-3.5	373	Constructs a new 4-lane expressway from SR-4 Bypass in Brentwood to I-205 in Tracy.	
29	21714	US-101 Widening (Monterey Street to SR-129)	Santa Clara	N/A	-4.0	246	Widens US-101 south of Gilroy to 6 lanes to accommodate greater traffic volumes.	
30	94050	SR-4 Upgrade to Full Freeway (Phase 2: Cummings Skyway to I-80)	Contra Costa	N/A	-4.5	78	Improves SR-4 between Hercules & Martinez by upgrading an expressway to freeway design standards.	
31	240053	Whipple Road Widening (Mission Boulevard to I-880)	Alameda	N/A	-5.0	100	Widens Whipple Road to 4 lanes between Union City and Hayward.	

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