



# **Project Performance Assessment**

## **DRAFT Results Summary Tables**

**November 4, 2011**

**Metropolitan Transportation Commission**

### **List of Attached Exhibits**

1. Summary of Benefit-Cost Ratios and Target Scores - DRAFT
2. Graph of Benefit-Cost and Targets Results by Project Type - DRAFT
3. Graph of Benefit-Cost and Targets Results for Road Projects - DRAFT
4. Graph of Benefit-Cost and Targets Results for Transit Projects - DRAFT

### **Detailed Tables Available On-Line**

With material for the November 4, 2011 MTC Planning Committee:

<http://apps.mtc.ca.gov/events/agendaView.akt?p=1763>

1. Benefit-Cost Assessment – Nominal Annual Benefits - DRAFT
2. Benefit-Cost Assessment – Monetized Annual Benefits - DRAFT
3. Confidence Assessment of Benefit-Cost Results - DRAFT
4. Targets Assessment of Large Projects - DRAFT
5. Targets Assessment of Small Projects by Project Type - DRAFT
6. Project Assessment Equity Considerations - DRAFT

For discussion of the project assessment methodology and approach, please see the October 28, 2011 staff memorandum and the November 4, 2011 staff presentation to the MTC Planning Committee at:

<http://apps.mtc.ca.gov/events/agendaView.akt?p=1763>

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	240182	BART Metro Program (including Bay Fair Connection and Civic Center Turnback)	Multi-County	Transit Efficiency	350	161	-7	>60	n/a	8.5	8.5	0
	240694	Treasure Island Congestion Pricing	San Francisco	Pricing	59	69	1	59	n/a	4.5	4.5	0
	240522	Congestion Pricing Pilot	San Francisco	Pricing	102	227	5	45	n/a	6.5	6.5	0
	22780	AC Transit Grand-MacArthur BRT	Alameda/3434	Transit Efficiency	36	32	2	18	n/a	6.0	6.0	0
	230419	Freeway Performance Initiative	Regional	FPI	2,991	3,175	202	16	28	4.0	4.0	0
	22274	ITS Improvements in San Mateo County	San Mateo	Road Efficiency	66	56	4	16	n/a	4.0	4.0	0
	240494	ITS Improvements in Santa Clara County	Santa Clara	Road Efficiency	320	752	48	16	n/a	4.0	4.0	0
	22062	Irvington BART Station	Alameda	Transit Efficiency	123	19	2	12	n/a	6.0	6.0	0
	240171	SFMTA Transit Effectiveness Project	San Francisco	Transit Efficiency	157	90	8	11	n/a	7.5	7.5	0
22400	SR-239 Expressway Construction (Brentwood to Tracy)	Contra Costa	Highway Expansion	373	144	21	7	1	-3.5	1.0	4.5	
240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Santa Clara	Road Efficiency	198	81	12	7	n/a	1.0	1.0	0	
94506	Fremont/Union City East-West Connector	Alameda	Arterial Expansion	190	65	10	7	1	-1.5	1.5	3.0	
98207T	Alameda-Oakland BRT + Transit Access Improvements	Alameda	Transit Efficiency	16	14	2	6	n/a	5.5	5.5	0	
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	
230161	Van Ness Avenue BRT	San Francisco/3434	Transit Efficiency	140	44	7	6	n/a	6.5	6.5	0	
HOTd	Silicon Valley Express Lanes Network	Santa Clara	Express Lanes Network	1,398	408	70	6	n/a	-0.5	2.0	2.5	
240155	Better Market Street	San Francisco	Transit Efficiency	200	56	10	6	n/a	5.5	5.5	0	
22455	AC Transit East Bay BRT	Alameda/3434	Transit Efficiency	211	62	12	5	n/a	6.0	6.0	0	
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	
230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)	Solano	Road Efficiency	50	18	4	5	2+	1.5	1.5	0	
n/a	Local Streets and Roads Capital Maintenance Needs	Regional	Maintenance	n/a	1,369	280	5	5	4.5	4.5	0	
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	8.0	8.0	0	
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	8.5	8.5	0	
240557	Oakdale Caltrain Station	San Francisco	Transit Efficiency	51	3	1	4	n/a	4.5	4.5	0	
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	-2.0	1.0	3.0	

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230294	New SR-152 Alignment	Santa Clara	Highway Expansion	776	148	41	4	n/a	-2.5	1.5	4.0
240410	Transportation for Livable Communities	Regional	TLC	7,131	875	255	3	2	7.5	7.5	0
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	1.0	1.5	0.5
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
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
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
240147	Southeast Waterfront Transportation Improvements	San Francisco	Transit Efficiency	397	88	36	2	n/a	3.0	3.0	0
240026	SamTrans El Camino BRT	San Mateo	Transit Efficiency	120	59	25	2	n/a	5.5	5.5	0
00BART	BART Service Frequency Improvements	Multi-County	Transit Efficiency	1,275	126	56	2	n/a	8.5	8.5	0
230604	Bay Bridge Contraflow Lane	Multi-County	Pricing	611	67	31	2	n/a	4.0	4.0	0
240018	Dumbarton Corridor Express Bus	Multi-County	Transit Efficiency	101	23	12	2	n/a	6.0	6.0	0
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	5.5	5.5	0
22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Contra Costa	Highway Expansion	150	15	9	2	1†	-3.5	1.0	4.5
00MUNI	Muni Service Frequency Improvements	San Francisco	Transit Efficiency	0	25	14	2	n/a	5.5	5.5	0
240526	SFCTA Transit Performance Initiative	San Francisco	Transit Efficiency	490	28	16	2	n/a	7.5	7.5	0
22247	Regional Bikeway Network	Regional	Bike/Ped	1,464	124	73	2	0.5	7.0	7.0	0
n/a	New Freedom Program	Regional	Lifeline/New Freedom	n/a	3	2	2	n/a	6.0	6.0	0
22268	San Mateo Countywide Shuttle Service Frequency Improvements	San Mateo	Transit Efficiency	0	10	6	2	n/a	1.5	1.5	0
230550	Climate Initiatives (5-year program)	Regional	Climate	560	158	112	1	0.4	3.0	3.0	0
n/a	Transit Capital Maintenance Needs	Regional	Maintenance	n/a	1,787	1,286	1	1	4.5	4.5	0
240545	Parkmerced Light Rail Corridor	San Francisco	Transit Efficiency	76	6	5	1	n/a	4.5	4.5	0
230055	Golden Gate Ferry Service Frequency Improvements	Multi-County	Transit Efficiency	34	6	4	1	n/a	4.0	4.0	0
230164	Geary Boulevard BRT	San Francisco	Transit Efficiency	242	15	12	1	7	6.5	6.5	0
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	8.5	8.5	0

Medium B/C

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
240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Alameda	Transit Expansion	1,250	50	42	1	4†	5.5	5.5	0
00ACT1	AC Transit Service Frequency Improvements	Multi-County	Transit Efficiency	654	606	510	1	n/a	5.5	5.5	0
240119	VTA El Camino BRT	Santa Clara	Transit Efficiency	239	28	24	1	n/a	6.5	6.5	0
22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	Contra Costa	Transit Efficiency	60	12	11	1	1	4.5	4.5	0
98147, 240691	Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Multi-County	Road Efficiency	300	20	18	1	8†	0.5	2.5	2.0
22415	Historic Streetcar Expansion Program	San Francisco	Transit Efficiency	66	9	9	0.9	2	4.0	4.0	0
240216	Dumbarton Rail	Multi-County/ 3434	Transit Expansion	755	31	36	0.8	n/a	4.0	4.0	0
230290	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)	San Francisco/ 3434	Transit Expansion	1,174	25	31	0.8	n/a	8.0	8.0	0
240650	Sonoma Countywide Bus Service Frequency Improvements	Sonoma	Transit Efficiency	428	32	41	0.8	n/a	5.0	5.0	0
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	6.0	6.0	0
230252	Marin Countywide Bus Service Frequency Improvements	Marin	Transit Efficiency	0	9	12	0.7	1	5.5	5.5	0
230219, 230314	Golden Gate Bus Service Frequency Improvements	Multi-County	Transit Efficiency	143	16	29	0.5	n/a	5.0	5.0	0
22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Santa Clara	Transit Expansion	276	4	8	0.5	n/a	5.5	5.5	0
230547	Monterey Highway BRT	Santa Clara	Transit Efficiency	140	15	37	0.4	n/a	5.5	5.5	0
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
22019	Downtown East Valley (Phase 2: LRT)	Santa Clara/ 3434	Transit Expansion	307	5	16	0.3	n/a	5.0	5.0	0
98139	ACE Service Expansion	Multi-County/ 3434	Transit Efficiency	600	19	67	0.3	n/a	4.5	4.5	0
230554	Sunnyvale-Cupertino BRT	Santa Clara	Transit Efficiency	100	5	26	0.2	n/a	5.5	5.5	0
22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Santa Clara	Transit Expansion	435	3	19	0.2	n/a	5.5	5.5	0
240690	Lifeline Program	Regional	Lifeline/New Freedom	n/a	10	119	0.1	0	6.0	6.0	0
22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)	Multi-County/ 3434	Transit Efficiency	509	1	18	0.1	n/a	7.0	7.0	0
98119	Vasona Light Rail Extension (Phase 2)	Santa Clara	Transit Expansion	176	0	6	0.0	n/a	5.5	5.5	0
240589	EV Solar Installation [BAAQMD program]	Regional	Climate	1	0	2	0.0	n/a	0.5	1.0	0.5
240582	Truck & Motorcycle Retirement [BAAQMD program]	Regional	Climate	6	0	6	0.0	n/a	0	1.0	1.0

Low B/C

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240577	Heavy-Duty Truck Replacement [BAAQMD program]	Regional	Climate	42	0	44	0.0	n/a	0	1.0	1.0
230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	Alameda/3434	Transit Efficiency	180	0	2	0.0	n/a	5.5	5.5	0
230326, 230327	I-80/I-680/SR-12 Interchange Improvements + Widening	Solano	Highway Expansion	1,600	-3	83	0.0	2	-0.5	1.5	2.0

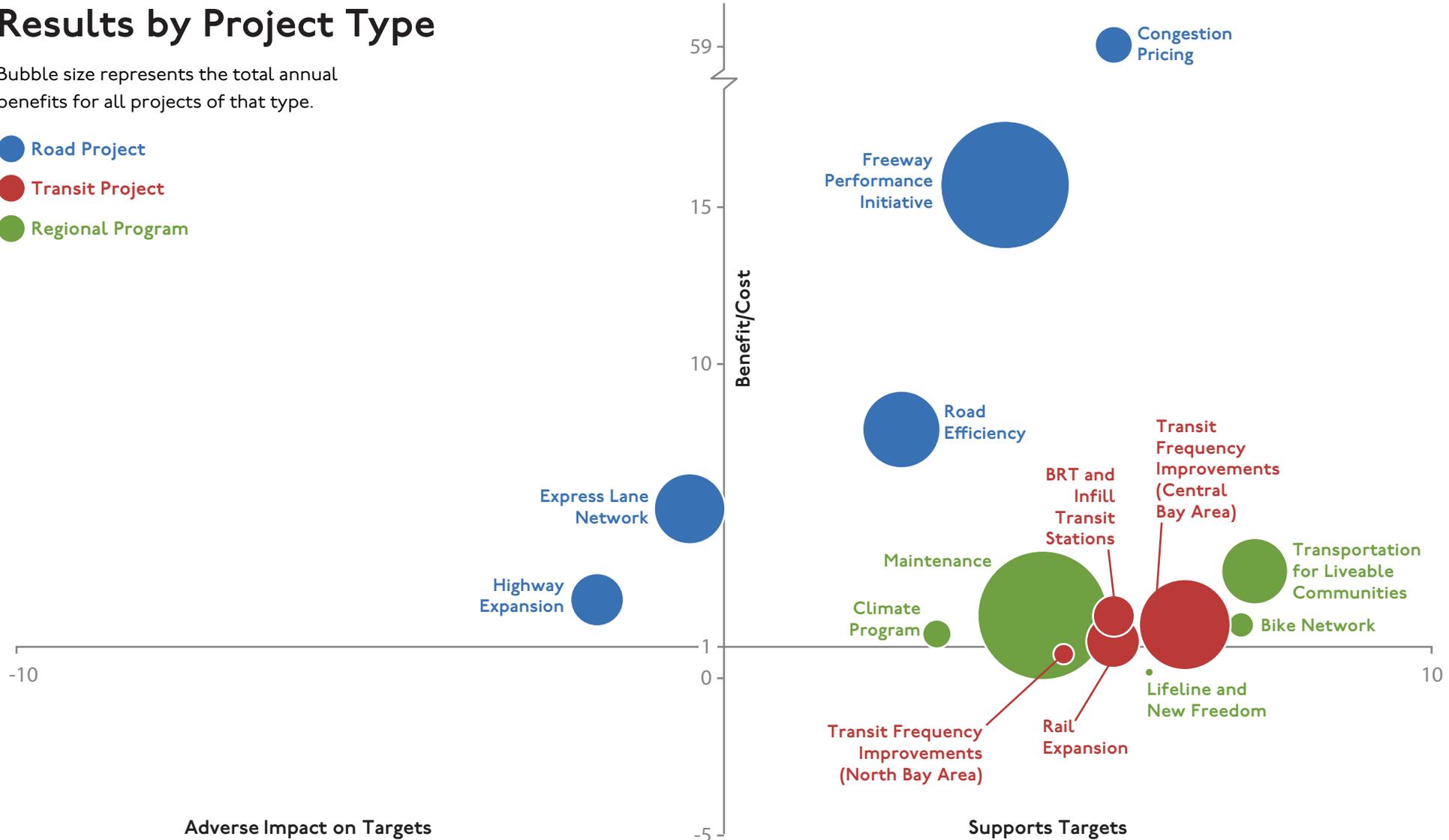
B/C RATIO - COLOR KEY	
<b>High B/C</b> (B/C ratio greater than 10)	Green
<b>Medium B/C</b> (B/C ratio between 1 and 10)	Yellow
<b>Low B/C</b> (B/C ratio less than 1)	Red

TARGETS SCORE - COLOR KEY	
Green	<b>Strong Support</b> (score of 7.0 or higher)
Light Green	<b>Moderate Support</b> (score between 1.5 and 6.5)
Yellow	<b>Minimal Impact</b> (score between -1.0 and 1.0)
Red	<b>Moderate Adverse Impact</b> (score between -1.5 and -6.5)
Dark Red	<b>Strong Adverse Impact</b> (score of -7.0 or lower)

# 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



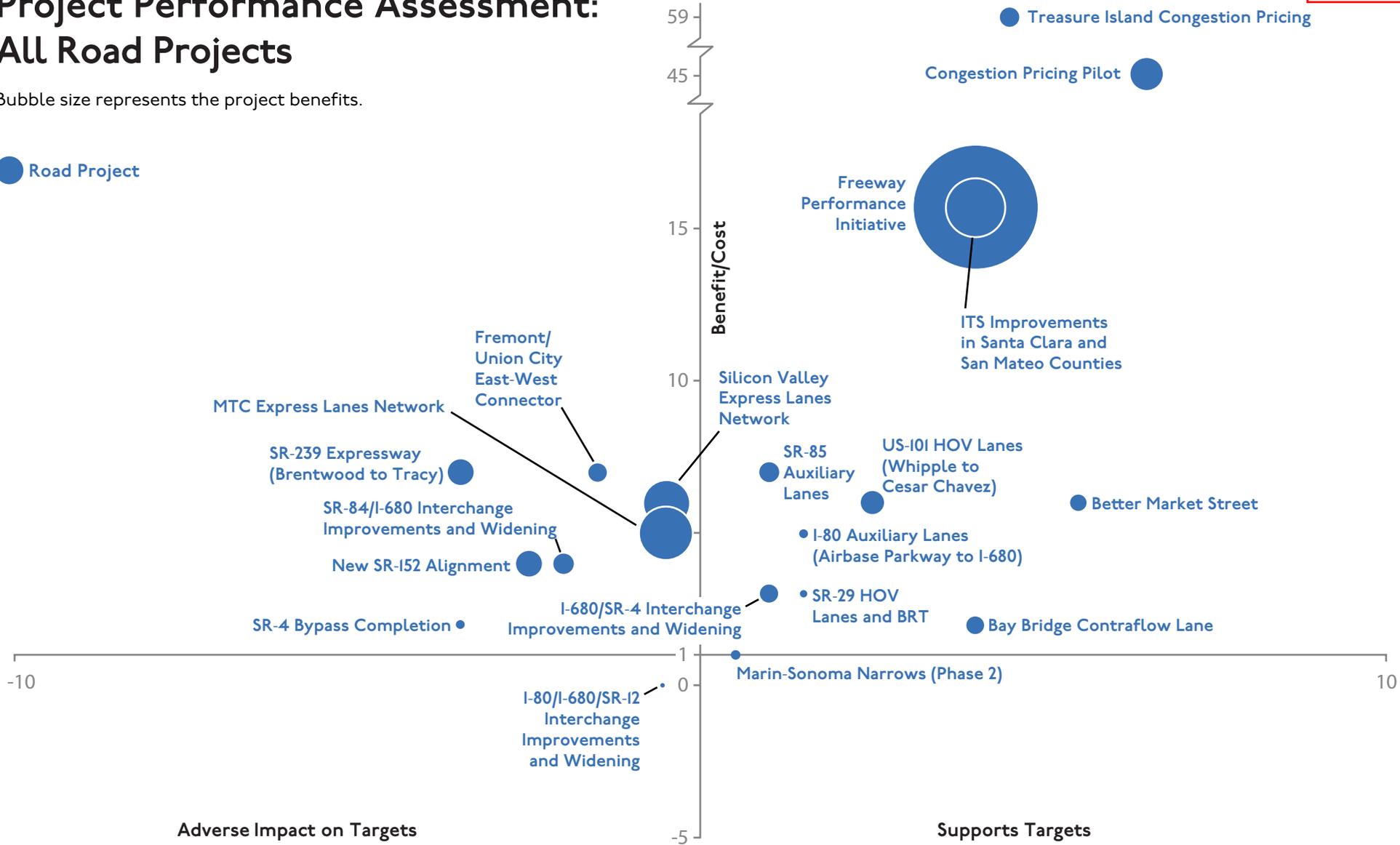
Adverse Impact on Targets

Supports Targets

# Project Performance Assessment: All Road Projects

Bubble size represents the project benefits.

Road Project



# Project Performance Assessment: Selected Transit Projects

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

● Transit Project

