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# PLAN BAY AREA

## **Draft Performance Assessment Report**

Prepared by MTC Staff

April 2, 2013

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#### **TABLE OF CONTENTS**

I.	Pu	rpose of Performance Assessment	.4
II.	Ide	entification of Performance Targets	5
	a.	Criteria for Performance Targets	5
	b.	Identification of Performance Targets	7
III.	Vis	sion and Alternative Scenarios Performance Assessment	9
	a.	Defining Vision Scenarios and Alternative Scenarios	9
	b.	Climate Protection Target	. 11
	c.	Adequate Housing Target	.12
	d.	Healthy and Safe Communities Targets	.13
	e.	Open Space and Agricultural Preservation Target	.18
	f.	Equitable Access Target	20
	g.	Economic Vitality Target	.21
	h.	Transportation System Effectiveness Targets	23
	i.	Overall Scenario Performance Trends	26
IV.	Pre	oject-Level Performance Assessment	29
	a.	Linking Scenario Performance to Project Performance	29
	b.	Targets Assessment Methodology	30
	c.	Benefit-Cost Assessment Methodology	.31
	d.	Regional Programs – Off-Model Benefit-Cost Methodology	.41
	e.	Supplementary Assessments	.41
	f.	Key Findings of Project Performance Assessment	42
	g.	High-Performing and Low-Performing Projects	44
V.	Dr	aft Plan and EIR Alternatives Performance Assessment	50
	a.	Development of Draft Plan	50
	b.	Defining EIR Alternatives	50
	c.	Climate Protection Target	.51
	d.	Adequate Housing Target	52
	e.	Healthy and Safe Communities Targets	53
	f.	Open Space and Agricultural Preservation Target	54
	g.	Equitable Access Target	55
	h.	Economic Vitality Target	56
	i.	Transportation System Effectiveness Targets	.57

VI.	. Appendices	<b>62</b>
	APPENDIX A: Scenario Performance Target Methodologies	
	APPENDIX B: Project Performance Assessment Regional Program Evaluation	. 70
	APPENDIX C: Project Performance Assessment Detailed Targets Assessment Criteria	81
	APPENDIX D: Project Performance Assessment Benefit-Cost Sensitivity Testing	. 92
	APPENDIX E: Project Performance Assessment Equity Considerations Documentation.	108
	APPENDIX F: Project Performance Assessment Summary Tables	
	APPENDIX G: Project Performance Assessment Detailed Tables	
	APPENDIX H: Project Performance Assessment Benefit-Cost Confidence Assessment	
	APPENDIX I: Project Performance Assessment Targets Criteria Data Tables	
	APPENDIX J: Project Performance Assessment Equity Considerations Tables	
	APPENDIX K: Project Performance Assessment Equity Maps	
LIS	ST OF TABLES AND FIGURES	

Table 1: Criteria for Selecting Performance Targets	5
Table 2: Criteria for Identifying a Set of Targets	6
Table 3: Plan Bay Area Performance Targets	8
Table 4: Target Performance for Alternative Scenarios (Year 2035)	27
Table 5: Targets Assessment Criteria	34
Table 6: Project Lifecycle Assumptions	
Table 7: Annual Road O&M Cost Assumptions	36
Table 8: Farebox Recovery Assumptions	37
Table 9: Benefit Valuations	38
Table 10: Target Performance for EIR Alternatives (Year 2040)	60
Figure 1: Performance-Based Planning Framework	29
Figure 2: Project Performance Assessment – Results by Project Type	47
Figure 3: Project Performance Assessment – Road Project Results	48
Figure 4: Project Performance Assessment – Transit Project Results	49

#### I. PURPOSE OF PERFORMANCE ASSESSMENT

Plan Bay Area relied upon a performance-based planning approach, utilizing quantifiable metrics to evaluate the outcomes of integrated transportation investments and land use policies. By leveraging analytical tools to identify measureable outcomes of policy decisions, we can make more informed decisions and better understand the impacts of Plan Bay Area.

Performance-based transportation planning is not a new approach for the Bay Area – over the past decade, MTC's long-range transportation plans have been developed using performance measures to evaluate their support for regional goals. Starting with the 2001 Regional Transportation Plan (RTP), transportation investment packages were compared using a set of performance measures. Since then, qualitative and quantitative evaluations have been added to assess the impacts of individual transportation projects proposed for inclusion in RTPs.

For Plan Bay Area, a broad range of regional goals – including land use, economic vitality, and public health – were added to traditional goals such as mobility and air quality. Building upon these goals, the set of identified regional targets reflects the region's wide-ranging objectives, which can be addressed through a broad spectrum of policies. Plan Bay Area also added more rigorous standards for including projects in the long-range plan, requiring projects identified as potentially cost-ineffective or inconsistent with regional targets to make a compelling case to be included in the Plan. This process enabled the Plan to better connect performance results to long-range planning and funding decisions.

Performance assessment was a critical component of all three phases of the development of Plan Bay Area. After establishing the performance targets in early 2011, various scenarios with different combinations of land use patterns and transportation investments were evaluated to determine how strongly they supported the adopted targets. In order to refine these scenarios and craft a preferred scenario, MTC evaluated individual projects to prioritize high-performers and to reconsider the efficacy of low-performers. Finally, the draft Plan and EIR alternatives were evaluated to highlight where the Plan has succeeded by meeting the targets, where it falls short, and what alternative approaches or strategies might strengthen the draft Plan or future long-range planning efforts.

This report provides documentation of the three-year-long effort to evaluate and improve the performance of Plan Bay Area. These efforts have helped craft and guide the Plan from an initial vision to a preferred alternative, while examining how integrated transportation and land use planning efforts can help the region address long-term environmental, equity, and economic challenges.

#### II. IDENTIFICATION OF PERFORMANCE TARGETS

Performance targets form the foundation of a performance-based planning approach — that is, one must start by defining the region's objectives before assessing the performance of various alternatives. Building upon past planning efforts, a set of sustainability-focused goals was established drawing upon the 3 "E's": economy, equity, and environment. These goals — climate protection, adequate housing, healthy and safe communities, open space and agricultural protection, equitable access, economic vitality, and transportation system effectiveness — reflect the wide spectrum of sustainability objectives for this long-range planning effort. While not every regional objective is captured in the Plan Bay Area targets, the targets provide a framework that allows us to better understand how different projects and policies might affect the region's future.

Each target was designed to compare conditions over the life of the Plan – that is, measuring the change between the baseline year (2005) and the planning horizon year (2035 or 2040). Importantly, the targets were crafted to focus on desirable regional outcomes that did not prescribe a specific mode or investment type to reach the target. For example, a potential target might focus on air quality improvements, which can be addressed through a wide variety of investments such as new or improved transit services, changes in land use patterns, stricter truck emissions standards, or advanced technologies to improve traffic flow.

#### a. Criteria for Performance Targets

MTC staff developed a set of criteria (as shown in Table 1) with stakeholders and members of the public to make the targets as meaningful as possible in measuring the Plan's success. This stakeholder group, also known as the Regional Advisory Working Group Ad Hoc Committee on Performance Measures, played a critical role in identifying and evaluating the strengths and weaknesses of potential performance targets. The criteria utilized in this process primarily focused on ensuring the targets could be forecasted using available analytical tools and could be influenced by the Plan's investments and policies.

#### **TABLE 1: CRITERIA FOR SELECTING PERFORMANCE TARGETS**

#### **1** Targets should be <u>able to be forecasted well</u>.

A target must be able to be forecasted reasonably well using MTC's and ABAG's models for transportation and land use, respectively. This means that the target must be something that can be predicted with reasonable accuracy into future conditions, as opposed to an indicator that can only be observed.

## **2** Targets should be <u>able to be influenced by regional agencies in cooperation with local agencies</u>.

A target must be able to be affected or influenced by policies or practices of ABAG, MTC, BAAQMD

and BCDC, in conjunction with local agencies. For example, MTC and ABAG policies can have a significant effect on accessibility of residents to jobs by virtue of their adopted policies on transportation investment and housing requirements.

#### **3** Targets should be <u>easy to understand</u>.

A target should be a concept to which the general public can readily relate and should be represented in terms that are easy for the general public to understand.

#### **⚠** Targets should <u>address multiple areas of interest</u>.

Ideally, a target should address more than one of the three "E's" — economy, environment, and equity. By influencing more than one of these factors, the target will better recognize the interactions between these goals. Additionally, by selecting targets that address multiple areas of interest, we can keep the total number of targets smaller.

#### Targets should have <u>some existing basis for the long-term numeric goal</u>.

The numeric goal associated with the target should have some basis in research literature or technical analysis performed by MTC or another organization, rather than being an arbitrarily determined value.

Furthermore, staff established criteria for identifying the set of targets, seeking to ensure a reasonable number of distinct and quantifiable metrics. This focused the process on the most important issues for Plan Bay Area stakeholders. The criteria established for the overall set of targets is shown below in Table 2.

#### **TABLE 2: CRITERIA FOR IDENTIFYING A SET OF TARGETS**

#### The total number of targets selected should be <u>relatively small</u>.

Targets should be selected carefully to make technical analysis feasible within the project timeline and to ensure that scenario comparison can be performed without overwhelming decision-makers with redundant quantitative data.

#### **R** Each of the targets should measure distinct criteria.

Once a set of targets is created, it is necessary to verify that each of the targets in the set is measuring something unique, as having multiple targets with the same goal unnecessarily complicates scenario assessment and comparison.

## The set of targets should <u>provide some quantifiable metric for each of the identified goals</u>.

For each of the seven goals identified, the set of performance measures should provide some level of quantification for each to ensure that that particular goal is being met. Multiple goals may be measured with a single target, resulting in a smaller set of targets while still providing a metric for each of the goals.

#### b. Identification of Performance Targets

In January 2011, after over six months of deliberations with stakeholders, the Commission adopted Resolution No. 3987 that established the performance targets for Plan Bay Area. The targets were approved by both the MTC Commission and the ABAG Executive Board. The Plan Bay Area performance targets, as shown in Table 3, successfully captured the key goals of a broad spectrum of stakeholders, going beyond the traditional mobility targets from past RTP efforts. The targets focused on broad outcomes – such as clean air and public health – that could be achieved by a variety of transportation and land use policies.

This outcome-oriented approach to performance targets expanded the focus of the planning effort, emphasizing the societal benefits derived from implementing transportation projects or changing land use patterns. For example, instead of emphasizing how transit investments will results in reduced emissions or less traffic congestion, the targets focused on how improved air quality will lead to better health outcomes and how less congestion will support economic vitality goals. By focusing on outcomes stakeholders would like to see in Bay Area communities, the targets highlighted the connections between regional transportation/land use planning and other key issues for Bay Area residents.

As a result of this approach, affordable housing, public health, and economic vitality performance measures were emphasized over many traditional transportation performance measures. Mobility-based metrics, such as congestion reduction, system reliability, and freight efficiency, played a much more significant role in past regional planning efforts.

In general, the adopted performance targets have a year 2005 baseline, meaning that scenario performance is based off of increases or decreases between year 2005 and the horizon year. A few exceptions to this are as follows: targets 2 and 6 both specified a year 2010 baseline as adopted by the boards. Furthermore, target 10c relies on a year 2012 baseline as the transit asset model is only able to provide data for that baseline year, as opposed to an earlier baseline. During early rounds of planning, a 2035 horizon year was utilized due to model limitations; for the EIR alternatives, the horizon year was updated to year 2040 to better reflect the full lifespan of the Plan. Several targets were also changed slightly over the course of the three-year planning process to reflect improved data sources or methodologies. These changes to the original adopted targets are further described in chapter III.

		TABLE 3: PLAN BAY AREA PERFORMANCE TARGETS							
Goal/Outcome	#	Target							
CLIMATE PROTECTION	1	Reduce per-capita CO <sub>2</sub> emissions from cars and light-duty trucks by 15% Statutory - Source: California Air Resources Board, as required by SB 375							
ADEQUATE HOUSING	2	House 100% of the region's projected growth by income level (very-low, low, moderate, above-moderate) without displacing current low-income residents Statutory - Source: ABAG, as required by SB 375							
	3	Reduce premature deaths from exposure to particulate emissions:  • Reduce premature deaths from exposure to fine particulates (PM2.5) by 10%  • Reduce coarse particulate emissions (PM10) by 30%  • Achieve greater reductions in highly impacted areas  Source: Adapted from federal and state air quality standards by BAAQMD							
HEALTHY & SAFE COMMUNITIES	4	Reduce by 50% the number of injuries and fatalities from all collisions (including bike and pedestrian)  Source: Adapted from California State Highway Strategic Safety Plan							
	5	Increase the average daily time walking or biking per person for transportation by 70% (for an average of 15 minutes per person per day)  Source: Adapted from U.S. Surgeon General's guidelines							
OPEN SPACE AND AGRICULTURAL PRESERVATION	6	Direct all non-agricultural development within the urban footprint (existing urban development and urban growth boundaries)  Source: Adapted from SB 375							
EQUITABLE ACCESS	7	Decrease by 10% the share of low-income and lower-middle income residents' household income consumed by transportation and housing  Source: Adapted from Center for Housing Policy							
ECONOMIC VITALITY	8	Increase gross regional product (GRP) by an average annual growth rate of approximately 2%  Source: Bay Area Business Community							
	9	<ul> <li>Increase non-auto mode share by 10%</li> <li>Decrease automobile vehicle miles traveled per capita by 10%</li> <li>Source: Adapted from Caltrans Smart Mobility 2010</li> </ul>							
TRANSPORTATION SYSTEM EFFECTIVENESS	10	<ul> <li>Maintain the transportation system in a state of good repair:</li> <li>Increase local road pavement condition index (PCI) to 75 or better</li> <li>Decrease distressed lane-miles of state highways to less than 10% of total lane-miles</li> <li>Reduce share of transit assets past their useful life to 0%</li> </ul> Source: Regional and state plans							

## III. VISION AND ALTERNATIVE SCENARIOS PERFORMANCE ASSESSMENT

After developing the performance targets to guide the development of the Plan, MTC and ABAG staff initiated a scenario development process to compare different combinations of transportation investments and land use patterns. Each scenario developed for Plan Bay Area was assessed against the adopted performance targets in order to compare its relative performance. This process helped identify areas where regional actions could lead to the achievement of adopted targets, as well as areas where more aggressive action was needed. This scenario-level performance assessment, when combined with the project-level performance assessment discussed in Chapter IV, later informed the development of the proposed Plan in 2012.

For each target defined for Plan Bay Area, background information and target results are shown in this chapter. For additional information on the specific methodology and/or modeling tools used to calculate each performance target, refer to Appendix A.

#### a. Defining Vision Scenarios and Alternative Scenarios

As part of the scenarios analysis process, two vision scenarios and five alternative scenarios were developed over the course of 2011. The vision scenarios process was designed to examine differences between the current growth trajectory and an early conceptual focused growth pattern, while the alternative scenarios process was developed to compare combinations of transportation investment packages and land use patterns tied to both unconstrained and constrained levels of population growth.

#### **Vision Scenarios [Spring 2011]**

Current Regional Plans: The spatial distribution of housing and jobs in this scenario reflected an updated version of Projections 2009, which captured the existing land use plans adopted by local jurisdictions across the region. This scenario focused on forecasted growth assuming local jurisdictions continue on their current trajectory, rather than emphasizing additional growth in Priority Development Areas (PDAs). The transportation network reflected the investments from MTC's previous long-range transportation plan known as *Transportation 2035*, which included some expansion projects for both road and transit facilities.

*Initial Vision (Round 1):* The spatial distribution of housing and jobs in this scenario was concentrated in the PDAs based on local land use priorities, available transit service, and access to jobs. Compared to Current Regional Plans, this scenario has a higher level of regional growth as reflected in the higher population and employment control totals. The vast majority of housing growth was envisioned to be accommodated in PDAs, while more than half of job growth was expected to occur in the region's 10

largest cities. Like Current Regional Plans, the transportation network reflected the investments from MTC's previous long-range transportation plan.

#### **Alternative Scenarios [Fall 2011]**

Initial Vision (Round 2): Building on the land use pattern of the first Initial Vision scenario, housing and job growth was concentrated in the PDAs, based on local land use priorities, available transit service, and access to jobs. The scenario was based on input from local jurisdictions on the level of growth they could reasonably accommodate given resources, local plans, and community support. 70 percent of the housing was specified to be accommodated in PDAs. More than half of job growth was expected to occur in the region's 10 largest cities. This land use pattern was linked to the *Transportation 2035* transportation investments, which included some expansion projects for both road and transit facilities. (Note: this scenario was an updated version of the Initial Vision scenario from spring 2011.)

Core Concentration: Housing and job growth was more concentrated in locations that are served by frequent transit services and within a 45-minute transit commute of Oakland, San Francisco, and San Jose. This scenario also identified several "game changers," or places with capacity for a high level of growth if coupled with supportive policies and resources. These areas included the Tasman Corridor in Santa Clara County, lands east of Oakland Airport to the Coliseum, the Concord Naval Weapons Station, and the San Francisco Eastern Waterfront, among others. Overall, 72 percent of the housing and 61 percent of the job growth were expected within the PDAs. The alternative was linked to the Core Capacity Transit transportation investments, which focused on significantly increased frequencies for the existing public transit system.

Focused Growth: Growth was distributed relatively evenly throughout the region's transit corridors and job centers, focusing most household and job growth within the PDAs. 70 percent of the housing production and around 55 percent of the employment growth were envisioned to be accommodated within PDAs. This scenario included more housing near transit stations and more local services in existing downtown areas and neighborhood centers. Similar to the Core Concentration scenario, this alternative was linked to the transit-oriented Core Capacity Transit transportation network.

Constrained Core Concentration: This scenario placed more household and job growth in PDAs situated along several transit corridors ringing the Bay in San Francisco, San Mateo and Santa Clara counties, and in portions of Alameda and Contra Costa counties. Some 79 percent of the housing production and 58 percent of the employment growth were envisioned to be accommodated within PDAs. By concentrating more growth in the major downtowns and along key transit corridors, this scenario went even further than the Focused Growth scenario in trying to maximize the use of the core transit

network and provide access to jobs and services to most of the population. Like the Focused Growth scenario, this alternative was linked to the transit-oriented Core Capacity Transit transportation network.

Outward Growth: Closer to recent development trends, this scenario placed more growth in the cities and PDAs in the inland areas away from the Bay than those considered in the Focused Growth or the Constrained Core Concentration scenarios. Most housing and employment growth was still expected to be accommodated in areas closest to the Bay, but with clusters of jobs and housing in key transit-served locations in the inland areas. 67 percent of housing production and 53 percent of employment growth were envisioned to be in PDAs. While increased use of public transit was expected to be limited in inland areas, some shorter commutes were also expected as jobs are created closer to residential communities. Like the Initial Vision (Round 2) scenario, this scenario relied on the multimodal expansion projects included in the Transportation 2035 network.

The following sections of this chapter delve into the details for each of the adopted performance targets. For each target, the target justification and target history are established and then target performance is examined for each of the vision scenarios and alternative scenarios.

#### b. Climate Protection Target

**Adopted Target #1:** Reduce per-capita CO<sub>2</sub> emissions from cars and light-duty trucks by 15%.

#### **Background**

Under California Senate Bill 375, major metropolitan areas in the state are required to develop a Sustainable Communities Strategy as part of their Regional Transportation Plan that achieves per-capita greenhouse gas reduction targets as established by the California Air Resources Board (CARB). In 2010, CARB established targets for the San Francisco Bay Area:

- 7 percent per-capita GHG reduction goal for year 2020
- 15 percent per-capita GHG reduction goal for year 2035

#### Past Experience with this Target

Transportation 2035 included non-statutory target to reduce carbon dioxide (CO2) emissions to 40 percent below 1990 levels by the year 2035, reflecting the state's carbon reduction goals under the California Global Warming Solutions Act of 2006 (Assembly Bill 32). While that target showed emissions reductions over the *Transportation 2035* 

planning horizon, forecasted reductions in CO2 emissions were primarily the result of statewide fuel economy standards, rather than regional transportation investment decisions.

#### **Target Performance: Vision Scenarios**

- Goal: -15%
- Current Regional Plans: -11%
- Initial Vision (Round 1): -12%

Both scenarios move the region closer to the statutory greenhouse gas emissions reduction target, but both fall short of the adopted 15% reduction target. The Initial Vision scenario performs slightly better than Current Regional Plans as a result of its focused growth land use pattern, but its higher control totals lead to slightly more congestion and slower vehicle speeds that limit its potential to achieve greater reductions.

#### Target Performance: Alternative Scenarios

- Goal: -15%
- Initial Vision (Round 2): -8%
- Core Concentration: -8%
- Focused Growth: -9%
- Constrained Core Concentration: -9%
- Outward Growth: -8%

All of the scenarios performed similarly for per-capita GHG reduction, yet none of them met the region's ambitious year 2035 target. This target performance pattern identified the need to further focus growth when developing the preferred scenario, as well as to improve the transportation investment strategy by removing low-performing projects and adding additional funding for the Climate Initiatives program.

#### c. Adequate Housing Target

**Adopted Target #2:** House 100% of the region's projected growth by income level (very-low, low, moderate, above-moderate) without displacing current low-income residents.

#### **Background**

Similar to the greenhouse gas reduction target, California Senate Bill 375 requires Plan Bay Area to house all of the region's growth in order to reduce the trend of greater regional in-commuting (in particular, from the San Joaquin Valley region). By

addressing the high levels of housing demand in the Bay Area rather than forcing sprawl into other regions, these long interregional trips (with their comparably high emission impacts) could potentially be reduced.

#### Past Experience with this Target

Previous regional transportation plans had not considered this type of performance measure, as housing was outside the scope of those planning efforts.

#### **Target Performance: Vision Scenarios**

Goal: 100%

• Current Regional Plans: 73%

• Initial Vision (Round 1): 100%

As explained in Appendix A, the analysis for this cycle of scenarios focused on a comparison of housing growth in Current Regional Plans and Initial Vision. As the Initial Vision scenario represented unconstrained growth where all housing needs were met, it automatically achieved the 100% target; Current Regional Plans' performance reflects the proportion of housing growth accommodated as a proportion of the Initial Vision scenario.

#### **Target Performance: Alternative Scenarios**

Goal: 100%

• Initial Vision (Round 2): 100%

• Core Concentration: 100%

• Focused Growth: 98%

• Constrained Core Concentration: 98%

• Outward Growth: 98%

As explained in Appendix A, the analysis for this cycle of scenarios focused on a comparison of the higher controls in the unconstrained scenarios (Initial Vision and Core Concentration) compared to the three remaining constrained scenarios. The target results simply reflect the ratio of constrained versus unconstrained total regional population.

#### d. Healthy and Safe Communities Targets

**Adopted Target #3:** Reduce premature deaths from exposure to particulate emissions.

- a) Reduce premature deaths from exposure to fine particulates (PM2.5) by 10%.
- b) Reduce coarse particulate emissions (PM10) by 30%.

c) Achieve greater reductions in highly impacted areas.

#### **Background**

In consultation with the Bay Area Air Quality Management District (BAAQMD), particulate matter (PM) was identified as the target air pollutant of greatest concern, based on studies showing that PM is the air pollutant most harmful to public health. In particular, fine particulate matter (PM2.5) has been identified as the air pollutant most strongly linked to disease types (such as lower respiratory cancer, among others) that can result in premature mortality. Emissions of nitrogen oxides (NOx) from gasoline and diesel engines also contribute to formation of ammonium nitrate, the main component of secondary PM in the Bay Area.

There are various national and state ambient air quality standards for PM2.5 and for PM10. Based on current standards, the Bay Area exceeds the 24-hour national standard and the State annual standard for PM2.5. In addition, the Bay Area exceeds State 24-hour and annual standards for PM10. In 2005, the Bay Area's design value for the 24-hour PM2.5 standard was 39 micrograms per cubic meter. BAAQMD estimated that achieving the current Federal 24-hour standard (35 micrograms per cubic meter) would require a reduction of approximately 10% in emissions of PM2.5. Assuming a linear relationship between emissions reductions and ambient concentration reductions, this would provide an equivalent reduction of 10% in premature deaths related to exposure to PM2.5. The State 24-hour PM10 standard is 50 micrograms per cubic meter; the year 2005 design value for the Bay Area is 68 micrograms per cubic meter. To attain the State 24-hour PM10 standard, BAAQMD estimates that total PM emissions would need to be reduced by approximately 30%.

Based on input from equity stakeholders, the target also includes a provision to achieve greater reductions in highly impacted areas, later defined by MTC and BAAQMD planning staff as Community Air Risk Evaluation (CARE) communities. More information on the definition and location of CARE communities can be found on BAAQMD's website<sup>1</sup>.

#### Past Experience with this Target

Transportation 2035 included a target to reduce PM2.5 emissions from motor vehicles by 10% and emissions of PM10 by 45% by 2035 – these targets are similar to what was adopted for Plan Bay Area. The numeric values associated with each target have been updated to reflect the latest baseline data.

The most substantive change is that the Plan Bay Area PM2.5 target is focused on reducing premature mortality related to PM2.5 exposure. The PM2.5 target is better

<sup>&</sup>lt;sup>1</sup> Refer to http://www.baaqmd.gov/Divisions/Planning-and-Research/CARE-Program.aspx.

expressed in terms of health outcomes, rather than merely attaining the ambient air quality standard.

#### **Target Performance: Vision Scenarios**

- Goals: a) -10%; b) -30%; c) Yes
- Current Regional Plans: a) -25%; b) -13%
- Initial Vision (Round 1): a) -24%; b) -10%

Both of the vision scenarios exceeded the PM2.5 reduction target but fell short on achieving the PM10 reduction target; reductions for both scenarios were partially due to truck emissions regulations scheduled for introduction over the lifespan of Plan Bay Area. However, Initial Vision performed worse than Current Regional Plans as a result of its significantly higher regional control total; the greater number of residents leads to more vehicle travel and more vehicle emissions, somewhat degrading target performance.

A methodology for evaluating CARE community impacts had not been developed at the time of the vision scenario analyses; as such, no target results are available.

#### **Target Performance: Alternative Scenarios**

- Goals: a) -10%; b) -30%; c) Yes
- Initial Vision (Round 2): a) -23%; b) -6%
- Core Concentration: a) -27%; b) -9%
- Focused Growth: a) -32%; b) -13%
- Constrained Core Concentration: a) -32%; b) -13%
- Outward Growth: a) -31%; b) -11%

All of the scenarios exceeded the PM2.5 reduction target but fell short on achieving the PM10 reduction target; reductions for all scenarios were partially due to truck emissions regulations scheduled for introduction over the lifespan of Plan Bay Area. Notably, the scenarios with lower regional control totals (Focused Growth, Constrained Core Concentration, and Outward Growth) all had greater reductions in particulate emissions. As these scenarios have lower levels of total VMT, they also have lower levels of total PM emissions.

A methodology for evaluating CARE community impacts had not been developed at the time of the alternative scenario analyses; as such, no target results are available.

**Adopted Target #4:** Reduce by 50% the number of injuries and fatalities from all collisions (including bike and pedestrian).

#### **Background**

The collision reduction target was based on a statewide goal reflected in the 2006 California Strategic Highway Safety Plan (SHSP) to reduce fatalities from motor vehicle collisions. While the SHSP does not include a specific target for injury reduction due to data limitations of injury underreporting at the statewide level, the Plan Bay Area target included injuries because, even with an underreport in collisions, these injuries were an indicator of conflicts on the roadways. In particular, injury collision results can be used to show conflicts between vulnerable groups such as cyclists, walkers, children, the elderly, and the disabled.

The numeric target reflects the trend of decreasing fatalities and injuries on the region's roads. California Highway Patrol Statewide Integrated Traffic Records System (SWITRS) data indicates that there was a 26% decrease in injuries and fatalities from collisions in the Bay Area between 2000 and 2008 and a 12% decrease between 2005 and 2008. These trends were extrapolated into the future to achieve a visionary target for collision reduction, significantly beyond the SHSP target of 10.7% reduction between 2004 and 2010.

#### Past Experience with this Target

Transportation 2035 included a target to reduce collisions by 15% by 2035; however, all scenarios showed a significant increase in collisions (between +23% and +35%). To a certain extent, this is due to model limitations. MTC's model-based collision forecasting is based on vehicle miles traveled (VMT) and speed data and does not capture safety-enhancing infrastructure on the region's roads or safety improvements to the vehicle fleet.

#### **Target Performance: Vision Scenarios**

- Goal: -50%
- Current Regional Plans: +18%
- Initial Vision (Round 1): +21%

Both Current Regional Plans and Initial Vision are forecasted to increase collisions in the region, primarily as a result of total VMT growth between 2005 and 2035; for this target, both vision scenarios move the region in the wrong direction. As the Initial Vision scenario has slightly greater total VMT, it performs worse than Current Regional Plans.

#### **Target Performance: Alternative Scenarios**

- Goal: -50%
- Initial Vision (Round 2): +26%
- Core Concentration: +23%

• Focused Growth: +19%

• Constrained Core Concentration: +18%

Outward Growth: +20%

Similar to the vision scenarios, all of the alternative scenarios are forecasted to increase collisions in the region as a result of total VMT growth. The Initial Vision and Core Concentration scenarios have somewhat higher levels of collisions as a result of greater numbers of households and jobs leading to greater demand for travel. While Focused Growth, Constrained Core Concentration, and Outward Growth all have the same population control totals, Outward Growth performs the worst due to its more dispersed land use pattern leading to greater total VMT in the region; longer distance travel patterns are expected to lead to more total collisions.

**Adopted Target #5:** Increase the average daily time walking or biking per person for transportation by 70% (for an average of 15 minutes per person per day).

#### **Background**

The health benefits of increased physical activity are well established and include better psychological health, lower rates of chronic disease, and longer life expectancy. Walking and bicycling have both been shown to be excellent sources of the type of moderate, health-inducing physical activity recommended by the U.S. Surgeon General. California Active Communities (a joint program of the University of California, San Francisco, Institute for Health and Aging, and the California Department of Public Health) and most public health agencies recommend 30 minutes of physical activity per person per day.

A 70% increase from 2005 levels is equivalent to an average of 15 minutes of walking, biking per person per day and 50% of the recommended level of physical activity. This includes time walking or biking to transit. According to the 2000 Bay Area Household Travel Survey (BATS), Bay Area residents that live within ½ mile of a rail or ferry station received on average 15 minutes of physical activity from walking or cycling to destinations or transit. Note that when originally adopted, the target was +60%; as a result of updated baseline data in mid-2011, the percentage increase had to be increased +70% to achieve the envisioned 15 minutes per day of physical activity.

The minutes per person target was selected over a mode share target for two reasons. First, it is a direct measure of the health impacts of walking and biking; second, it has a more direct relationship to the public health sector recommendations for daily physical activity levels. Mode share is an indicator of the impacts of transportation investments in pedestrian and bicycle infrastructure, but the quality of life in a community can be more accurately gauged by the amount of physical activity. The target is also easy for

individuals to relate to and understand on a personal level. This approach was selected based on extensive discussions with staff from the California Department of Public Health and county public health departments.

#### Past Experience with this Target

Unlike some of the other performance targets, this is the first time that physical activity from walking and biking has been included as a distinct target for one of MTC's Regional Transportation Plans.

#### **Target Performance: Vision Scenarios**

- Goal: +70%
- Current Regional Plans: +12%
- Initial Vision (Round 1): +18%

Current Regional Plans included greater levels of suburban and exurban growth, while the Initial Vision scenario was the first examination of a more focused growth pattern in the urban core. This urban growth, occurring in locations where active transportation to employment and retail sites is more attractive, led to a stronger performance on this target. However, neither scenario came close to achieving the performance target.

#### **Target Performance: Alternative Scenarios**

- Goal: +70%
- Initial Vision (Round 2): +15%
- Core Concentration: +20%
- Focused Growth: +14%
- Constrained Core Concentration: +15%
- Outward Growth: +10%

All of the scenarios moved this target in the right direction, but none achieved the ambitious target of boosting the average Bay Area resident's physical activity from transportation to 15 minutes per day. The strongest performer was the Core Concentration scenario due to its intense urban focus and higher control totals (meaning that a greater share of the population would be new residents, primarily in urban areas). The Outward Growth scenario performed the worst, as it allocated more jobs and households in fringe areas where walking and bicycling are unattractive (due to long distances between jobs, housing, goods, and services and lack of bicycle and pedestrian infrastructure).

#### e. Open Space and Agricultural Preservation Target

**Adopted Target #6:** Direct all non-agricultural development within the urban footprint (existing urban development and urban growth boundaries).

#### **Background**

The numeric target is based on the following logic: limit target to no new development outside of publicly-defined urban areas. For areas without locally-defined urban growth boundaries, ABAG and MTC used a census definition of urbanized lands further refined by county spheres of influence and urban service areas to determine the existing urban footprint. SB 375 legislation asks regions to consider the best available data on resource lands.

Special resource lands and farm lands are specifically defined in SB 375 and include:

- publicly owned parks and open space;
- open space and habitat areas protected by natural resource protection plans;
- species habitat protected federal or state Endangered Species Acts;
- lands subject to conservation or agricultural easements by local governments, districts, or non-profits;
- areas designated for open space/agricultural uses adopted in elements of general plans;
- areas containing biological resources described in CEQA that may be significantly affected by a Sustainable Communities Strategy (SCS) or Alternative Planning Strategy (APS);
- areas subject to flooding as defined by the National Flood Insurance Program; and
- lands classified as prime/unique/state-significant farmland or lands classified by
  a local agency meeting or exceeding statewide standards that are outside of
  existing city spheres of influence/city limits.

Unlike the statutory housing target, where housing levels in the preferred scenario are required to meet the 100% target value, it would be possible for scenarios to fall short in achieving this target. Each land use scenario consists of different policies with regards to zoning and development opportunities – the more high-density zoning and opportunities for development in the urban core, the more likely housing development would not outside of existing urban growth boundaries.

#### Past Experience with this Target

Unlike some of the other performance targets, this is the first time that open space protection and agricultural preservation have been specifically included as a performance target for an MTC Regional Transportation Plan.

#### **Target Performance: Vision Scenarios**

- Goal: 100%
- Current Regional Plans: 95%
- Initial Vision (Round 1): 97%

As discussed in Appendix A, a person-based metric was utilized to calculate target performance for this round of scenario analysis. As Current Regional Plans placed more households in suburban and exurban areas, it had a slightly lower share of population living within the existing urban footprint.

#### **Target Performance: Alternative Scenarios**

• Goal: 100%

• Initial Vision (Round 2): 97%

• Core Concentration: 92%

• Focused Growth: 92%

Constrained Core Concentration: 92%

• Outward Growth: 90%

This analysis, also using a person-based approach as described in Appendix A, identified the Initial Vision scenario as having the greatest success in focusing growth within the existing urban footprint. Conversely, 10% of the region's population growth in the Outward Growth scenario is expected to occur in greenfield locations outside urban growth boundaries, leading to greater impacts for open space and agricultural lands.

#### f. Equitable Access Target

**Adopted Target #7:** Decrease by 10% the share of low-income and lower-middle income residents' household income consumed by transportation and housing.

#### **Background**

The Plan Bay Area equity target is adapted from a 2006 report by the Center for Housing Policy ("A Heavy Load: The Combined Housing and Transportation Burdens of Working Families"). According to that report, Bay Area families with annual incomes under \$70,000 spend a combined average of 61% of earnings on housing (39%) and transportation (22%). This share of 61% of earnings is approximately 10% above the national average share spent by lower-income households. Therefore, this target is set to improve transportation and housing affordability to approximately match the national average by 2035.

#### Past Experience with this Target

This target was included in *Transportation 2035*. However, the housing cost methodology was not a true forecast (it instead relied on the share of income being forecasted through a trendline approximation from historical data). The numeric target

of -10% was used in *Transportation 2035*, but none of the scenarios analyzed achieved this target. Despite the fact that *Transportation 2035* scenarios analyzed fell short from that ambitious goal, all scenarios moved in the right direction, showing reductions in combined H+T costs by 3 to 5% of household income.

#### **Target Performance: Vision Scenarios**

• Goal: -10%

Current Regional Plans: +3%

• Initial Vision (Round 1): -4%

Neither of the vision scenarios achieved the targeted reduction in housing and transportation costs for working-class Bay Area residents, although Initial Vision was the only scenario in the Plan Bay Area process that moved in the right direction as a result of lower transportation costs and significantly lower housing costs. Current Regional Plans, conversely, saw no reduction in transportation costs, while at the same time forecasting a rise in regional housing costs.

#### **Target Performance: Alternative Scenarios**

• Goal: -10%

• Initial Vision (Round 2)2: -4%

• Core Concentration: +8%

Focused Growth: +9%

• Constrained Core Concentration: +9%

• Outward Growth: +9%

Most of the alternative scenarios performed similarly, showing significant increases in H+T costs for working-class Bay Area residents. The primary driver of this result was continued growth in housing costs under most scenarios, with slight transportation cost increases in some scenarios as well. This result, while not unexpected given the Bay Area's historically high housing costs, represents one of the greatest regional challenges to tackle over the coming years.

#### g. Economic Vitality Target

**Adopted Target #8:** Increase gross regional product (GRP) by an average annual growth rate of approximately 2% (+90% target for year 2035).

#### **Background**

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<sup>&</sup>lt;sup>2</sup> Note that the Initial Vision scenario (Round 2) was not analyzed using the updated methodology for this round of scenarios, and therefore the forecasted reduction is due to methodology inconsistencies with the other four scenarios. The result is instead consistent with the Initial Vision scenario (Round 1).

While economic impacts had previously been measured in prior plans by metrics such as access to jobs, the Bay Area business community indicated its strong support of examining total economic output, also known as gross regional product (GRP). Since this was the first plan examining both land use and transportation, this target looks at the regional effects of population growth, locational accessibility, and agglomeration for the first time. In particular, the target focuses on continuing the region's robust economic performance over the next three decades.

Based on the envisioned 2.1 percent annual growth rate (slightly above the 40-year historic annual GRP growth rate of 2.0 percent), this target aligns with a +90% increase by year 2035 and a +110% increase by year 2040. Note that the year 2035 target was used for the alternative scenarios analysis, while the year 2040 target was used for the EIR alternatives analysis.

#### Past Experience with this Target

This is the first time that gross economic output has been included as a target for one of MTC's Regional Transportation Plans.

#### **Target Performance: Vision Scenarios**

An appropriate economic impact analysis model had not yet been developed for the region during this phase of Plan Bay Area. Therefore, results are not available for the vision scenarios.

#### **Target Performance: Alternative Scenarios**

- Goal: +90%
- Initial Vision (Round 2): +131%
- Core Concentration: +134%
- Focused Growth: +113%
- Constrained Core Concentration: +113%
- Outward Growth: +113%

All of the scenarios analyzed forecast significant growth in GRP, but the biggest differences between scenarios were caused by different baseline assumptions for residents and jobs (also known as regional control totals). Both the Initial Vision and Core Concentration scenarios had higher baseline totals; greater numbers of residents and employees typically correspond with higher levels of total regional economic activity. The three remaining scenarios, all using the lower baseline totals, performed consistently for GRP regardless of the location of growth and portfolio mix of transportation projects.

#### h. Transportation System Effectiveness Targets

**Adopted Target #9:** Increase non-auto mode share by 10% and decrease automobile vehicle miles traveled per capita by 10%.

#### **Background**

These targets are designed to measure the overall transportation system efficiency for both auto and non-auto (public transit, walking, and biking) modes. The target has two components, which represent different objectives for modal efficiency. For non-autos, the target aims to increase the share of trips made in the region by transit, walking, and biking by making these transport modes more convenient and accessible. For autos, the target aims to reduce vehicle miles traveled, which would reflect the benefits of a more compact land use development pattern (which brings destinations closer together and thus facilitates shorter trips). This target reflects the traditional RTP mobility goals within the SCS process.

It is important to note the originally adopted non-auto target was to reduce per-trip non-auto travel times. The justification for this target was that it would better capture land use changes which shorten the distance between origins and destinations, as well as transportation network improvements that increase transit operating speeds. However, it provided unexpected results for aggressive transit expansion scenarios, showing increasing non-auto travel times. This was due to the fact that aggressive transit expansion led to additional longer-distance transit trips with travel times significantly higher than the regional average. Even though these scenarios boosted transit ridership, the target showed adverse impacts of transit expansion. Therefore, an alternative target – non-auto mode share – was selected as a suitable replacement that captured the original intent of the adopted language.

#### Past Experience with this Target

This goal was a major focus of past Regional Transportation Plans. While VMT reduction has been carried over from *Transportation 2035*, the non-auto mode share target is a substantial shift from the prior target of freeway delay reduction. Scenarios in *Transportation 2035* failed to achieve significant reductions in VMT compared to past trends.

#### **Target Performance: Vision Scenarios**

- Goals: 26%; -10%
- Current Regional Plans: 19%; -8%
- Initial Vision (Round 1): 20%; -10%

Neither vision scenario achieved the 10-point targeted increase in non-auto mode share; Initial Vision performed marginally better as a result of its focused growth pattern. While Current Regional Plans achieved an 8% reduction in VMT per capita (falling short of the target), Initial Vision (Round 1) was the only scenario analyzed in the Plan Bay Area process that met the per-capita VMT reduction target.

#### **Target Performance: Alternative Scenarios**

• Goals: 26%; -10%

• Initial Vision (Round 2): 19%; -6%

• Core Concentration: 20%; -6%

• Focused Growth: 19%; -6%

• Constrained Core Concentration: 19%; -7%

Outward Growth: 18%; -5%

Similar to the vision scenarios, all of the alternative scenarios moved in the right direction for both components of target #9 but fell short of the adopted goals. Thanks to greater transit infrastructure investments, the Core Concentration scenario performed the best for non-auto mode share, while the Constrained Core Concentration scenario performed the best for per-capita VMT. Conversely, the greater levels of sprawl development and additional road capacity included in the Outward Growth scenario led to its lower performance on both components of the target.

**Adopted Target #10:** Maintain the transportation system in a state of good repair:

- a) Increase local road pavement condition index (PCI) to 75 or better.
- b) Decrease distressed lane-miles of state highways to less than 10% of total lane-miles.
- c) Reduce share of transit assets past their useful life to 0%.

#### **Background**

The target PCI of 75 was developed by the Bay Area Partnership Local Streets and Roads Working Group through their Strategic Plan effort. This numeric target was also used in *Transportation 2035* – it represents a "good" level of pavement condition.

The 10% target for distressed highway lane-miles was developed as part of California's 10-Year State Highway Operation and Protection Program Plan. This numeric target was also used in *Transportation 2035*.

The basis for the target measuring share of transit assets (buses, railcars, ferries, and transit stations) past their useful life is to replace assets at 100% of their useful lives. This will ensure that no transit assets are being used past their useful life, which reduces vehicle breakdowns and improves passenger comfort. Currently, Bay Area transit operators replace transit assets on average at approximately 120% of their useful lives. This represents a shift from the *Transportation 2035* target, which measured the average transit asset age as a percent of useful life. While that target was used as the

originally approved language for transit state of good repair in Plan Bay Area, it was replaced by this improved target after staff identified flaws in the methodology for percentage of useful life. The prior formula experienced challenges in dealing with long-lifespan assets, such as elevated BART tracks and the Transbay Tube.

The numerical targets listed in the adopted language were later converted into percent changes from the baseline year to provide perspective on the level of improvement. For example, the PCI target of 75 became a +19% goal because the 2005 baseline pavement condition measured a PCI of 63; improvement to the stated numeric goal reflected a 19 percent increase in the index. The other state of good repair targets were similarly adjusted to -63% and -100%; all target results from these measures are reported as these percent changes rather than the associated threshold values for clarity.

#### **Past Experience with this Target**

A similar version of this target was included in *Transportation 2035*. One key benefit of the target is that it is able to pivot off of assumed funding levels – therefore, it will be used to compare scenarios only if a funding level is assumed. Funding levels in *Transportation 2035* were able to slow the trends of degrading roads and sub-par transit assets.

#### **Target Performance: Vision Scenarios**

- Goals: a) +19%; b) -63%; c) -100%
- Current Regional Plans: a) +0%, b) +30%; c) not available
- Initial Vision (Round 1): a) +0%; b) +30%; c) not available

Both vision alternatives performed the same for all targets, as they both relied on the *Transportation 2035* investments levels of state of good repair. No progress was made towards the PCI target, while state highways were expected to worsen as a result of no additional funding being made available to address their state of good repair. Transit state of good repair data was not available at this time, and therefore the results are not shown for that target.

#### **Target Performance: Alternative Scenarios**

- Goals: a) +19%; b) -63%; c) -100%
- Initial Vision (Round 2): a) +5%; b) +30%; c) +138%
- Core Concentration: a) +5%; b) +30%; c) +138%
- Focused Growth: a) +5%; b) +30%; c) +138%
- Constrained Core Concentration: a) +5%; b) +30%; c) +138%
- Outward Growth: a) +5%; b) +30%; c) +138%

The alternative scenarios performed the same for all targets; this is a result of consistent funding levels for state of good repair in all of these scenarios. Even though the two

transportation investment strategies shifted expansion funds between roads and transit, funds for maintenance were kept constant between the two investment strategies.

#### Overall Scenario Performance Trends

Several themes emerged from this scenario performance process, which helped to inform the development of the Draft Plan, and are discussed below.

- A relatively mature development pattern, combined with an existing robust transportation system, lead to challenges in changing the status quo and achieving many of the Plan's aggressive performance targets. Unlike other fast-growing regions across the country (e.g. Atlanta and Phoenix), the bulk of region's future residential and commercial buildings in year 2040 have already been constructed. As such, new growth needs to be highly focused and transit-oriented in order to significantly change the status quo and make possible movement towards regional performance targets. Similarly, almost all of the region's roads and most of the region's year 2040 transit infrastructure have already been built; maintenance of these facilities only preserves the status quo (by preventing even worse conditions for users) but does not move the region towards achievement of targeted reductions.
- Growth in housing and jobs assumed in each scenario plays a primary role in the scenario performance results. More important than the specific investments or envisioned land use pattern is the regional growth total; scenarios with higher levels of population and employment tend to have higher levels of total emissions and collisions (for example), but often perform better on a per-capita basis.
- Even with robust funding of maintenance for both roads and transit, the regional state of repair tends to decline over the planning period. Only local streets and roads improve over the lifespan of the Plan, but they fail to reach the regional target for "good" road pavement quality. Freeway facilities continue to worsen under limited state funding and many more transit assets are expected to be used past their useful lives, even with robust funding to replace aging assets and infrastructure.

Table 4 summarizes all of the target results and indicates that many targets were not achieved by any of the scenarios studied. This table also highlights the somewhat stronger performance of the Initial Vision and Core Concentration scenarios and the relatively weaker performance of the Outward Growth scenario across many of the targets.

TABLE 4: TARGET PERFORMANCE FOR ALTERNATIVE SCENARIOS (YEAR 2035)									
#	Target	Goal*	Current Regional Plans	Initial Vision (Round 1)	Initial Vision (Round 2)	Core Concentration	Focused Growth	Constrained Core Concentration	Outward Growth
1	Reduce per-capita CO <sub>2</sub> emissions from cars and light-duty trucks	-15%	-11%	-12%	-8%	-8%	-9%	-9%	-8%
2	House the region's projected growth	100%	73%	100%	100%	100%	98%	98%	98%
3a	Reduce premature deaths from exposure to fine particulates	-10%	-25%	-24%	-23%	-27%	-32%	-32%	-31%
<b>3b</b>	Reduce coarse particulate emissions	-30%	-13%	-10%	-6%	-9%	-13%	-13%	-11%
3c	Achieve greater reductions in highly impacted areas	Yes							
4	Reduce the number of injuries and fatalities from all collisions	-50%	+18%	+21%	+26%	+23%	+19%	+18%	+20%
5	Increase the average daily time walking or biking per person for transportation	+70%	+12%	+18%	+15%	+20%	+14%	+15%	+10%
6	Direct all non-agricultural development within the urban footprint	100%	95%	97%	97%	92%	92%	92%	90%
7	Decrease the share of low-income and lower-middle income residents' household income consumed by transportation and housing	-10%	+3%	-4%	-4%	+8%	+9%	+9%	+9%

	TABLE 4: TARGET PERFORMANCE FOR ALTERNATIVE SCENARIOS (YEAR 2035)										
#	Target	Goal*	Current Regional Plans	Initial Vision (Round 1)	Initial Vision (Round 2)	Concentration	Focused Growth	Constrained Core Concentration	Outward Growth		
8	Increase gross regional product (GRP)	+90%			+131%	+134%	+113%	+113%	+113%		
9a	Increase non-auto mode share	26%	19%	20%	19%	20%	19%	19%	18%		
9b	Decrease automobile vehicle miles traveled per capita	-10%	-8%	-10%	-6%	-6%	-6%	-7%	-5%		
10a	Increase local road pavement condition index (PCI)	+19%	+0%	+0%	+5%	+5%	+5%	+5%	+5%		
10b	Decrease share of distressed lane-miles of state highways	-63%	+30%	+30%	+30%	+30%	+30%	+30%	+30%		
10c	Reduce share of transit assets past their useful life	-100%			+138%	+138%	+138%	+138%	+138%		

<sup>\* =</sup> targets achieved via scenarios marked in green; targets where scenarios fell short marked in yellow; targets where scenarios move in the wrong direction marked in red

#### IV. PROJECT-LEVEL PERFORMANCE ASSESSMENT

Individual transportation projects were also assessed to determine their support of the Plan's performance targets and to determine their cost-effectiveness. This effort identified the most effective transportation projects to inform the development of the suite of transportation projects approved as the preferred scenario.

#### a. Linking Scenario Performance to Project Performance

The project performance assessment conducted for Plan Bay Area goes beyond the scenario-level analysis typical for Regional Transportation Plans across the county. Instead of simply looking at various transportation investment packages tied to land use strategies, the project performance assessment looked at the much more detailed level of individual projects (as shown in Figure 1).

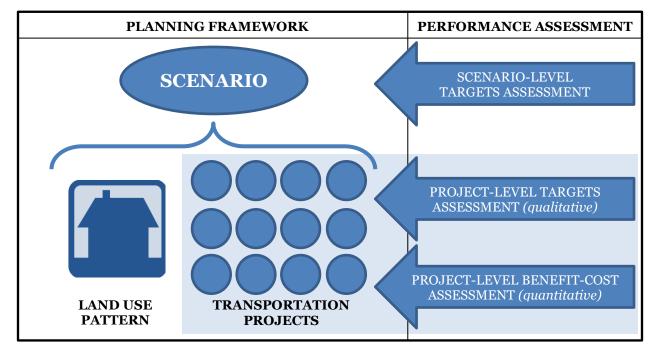


FIGURE 1: PERFORMANCE-BASED PLANNING FRAMEWORK

All uncommitted projects were subject to performance assessment under MTC Resolution No. 4006; committed projects were exempt from the project performance assessment. Projects could achieve committed status by:

- Having a certified Environmental Impact Report (EIR) or Record of Decision (ROD) for Environmental Impact Statement (EIS) by May 1, 2011 and having a full funding plan; or
- Identifying the project as 100% locally funded and therefore not requiring any regional funding.

Two distinct assessments were performed to determine uncommitted projects' utility and efficiency in achieving the Plan's objectives. First, each transportation project, approximately 180 in all, was qualitatively evaluated based on its level of support for the adopted targets. This process sought to answer a fundamental question: does each project being considered for inclusion in the Plan help us reach our goals? Depending on a project's level of support (or adverse impacts), it could receive an overall targets score ranging from +10 (strongly supporting all targets) to -10 (strongly adversely impacting all targets). This project-level targets assessment allowed staff to develop a preferred scenario that prioritized projects that support the Plan's identified targets; furthermore, it acted as a crucial link between the scenario-level and targets-level analyses.

Second, all major capacity-increasing transportation projects (with total costs exceeding \$50 million and/or with regional impacts) were evaluated using a quantitative, model-based methodology to determine each project's benefit-cost ratio. This process went beyond the adopted performance targets to consider as many quantifiable benefits as possible, seeking to determine which projects are most cost-effective in providing benefits to users and society. Given that benefit-cost ratios were developed for 90 major projects, the assessment focused on categorizing projects' benefit-cost performance by tier – low, medium-low, medium-high, and high – in order to focus primarily on outliers (the highest- and lowest-performers).

The results of this project performance assessment were used for two primary purposes:

- High-performing projects (which performed well on both the targets assessment and the benefit-cost assessment) were prioritized for regional funding in Plan Bay Area.
- Low-performing projects (which exhibited poor performance on either the targets assessment or the benefit-cost assessment) were subjected to additional scrutiny. Project sponsors were asked to present a compelling case to policymakers for inclusion in the Plan.

Note that the medium-performing projects, the category which represented the vast bulk of total projects assessed, were subject to the discretion of county congestion management agencies (CMAs) for prioritization for Plan Bay Area funding.

#### b. Targets Assessment Methodology

The targets assessment considered the extent to which projects and programs support the ten Plan Bay Area targets adopted by the Commission and ABAG. The assessment was based on a set of qualitative criteria developed with input from MTC's Partnership Technical Advisory Committee (PTAC), the Regional Advisory Working Group, and the Ad Hoc Project Performance Assessment Technical Committee. Approximately 180 projects were assessed individually as part of the targets assessment, including the 90 major capacity-increasing projects that were also evaluated as part of the benefit-cost assessment. For projects assessed on an individual basis, staff was able to consider project specifics such as geography, which are especially important for targets such as Adequate Housing, Open Space/Agricultural Preservation, and Economic Vitality.

MTC staff reviewed projects' support for each of the 10 targets and assigned scores based on a five-point scale (strong support = 1.0; moderate support = 0.5; minimal impact = 0; moderate adverse impact = -0.5; strong adverse impact = -1.0). The targets assessment relies on the targets net score, which combines the 10 target scores into a single score ranging from +10 to -10. As the Commission did not select to identify weights of the various targets, all were treated equally when calculating the combined score; note that a target with multiple sub-components (such as the air quality and transportation targets) were treated as a single target for the purposes of this assessment.

Table 5 summarizes the criteria used to assess projects in this qualitative assessment; more detailed information, along with example projects evaluated as part of the targets assessment, can be found in Appendix B.

The remaining 700 smaller projects (not subject to individual evaluation) were grouped into nine categories based on mode, project purpose, and functional class (e.g., expansion, operations, safety). The nine categories were then evaluated against the targets, with each project receiving a target score based on its categorization. These groupings capture many important distinctions relative to the targets but do not allow us to consider geographical differences between small projects. This more limited performance assessment was appropriate because these projects only make up a small fraction of total Plan costs, while the major projects subjected to individual assessment represent all of the high-cost, capacity-increasing projects with significant regional impacts.

#### c. Benefit-Cost Assessment Methodology

Fundamentally, the benefit-cost (B/C) assessment sought to identify transportation projects that are cost-effective based on the application of state-of-the-practice economic theory. The results of this assessment were intended to ensure that projects included in the Plan were not only sustainable, but also a wise allocation of scarce public dollars. Because of the time-consuming nature of this model-based assessment, the assessment examined the 90 largest capacity-increasing and regionally-impactful transportation projects across the San Francisco Bay Area.

MTC's activity-based travel model, known as Travel Model One, was used to analyze these projects – which created a level playing field across all of the analyzed projects. This approach allowed for fair comparison of B/C ratios between individual projects, as each project's benefits were calculated using an identical methodology. To determine the impacts of a particular project, a no-build model run was conducted to determine the baseline conditions (e.g. total regional travel time, tons of airborne emissions, fatality collisions, etc.). After changing the baseline conditions to represent project-related improvements – e.g. travel lanes were added, or a rail line was extended – the model was then run again to analyze with-project conditions. Every model run was performed for the geographical scope of the entire Bay Area, meaning that no-build and withproject conditions captured the travel impacts of a given project for simulated travelers across the region. The impacts to each travel metric were calculated by comparing the no-build and with-project model runs. Given the large number of model runs, a 50% sample was utilized for each run – meaning that the travel behavior of half of all Bay Area households was analyzed to determine each project's impacts. This sample size is more than sufficient to forecast the benefits of a transportation project.

Since the activity-based model forecasts the travel behavior of millions of simulated Bay Area residents, its run time is significant. A new modeling approach had to be developed to analyze the number of projects subject to the B/C assessment. This approach, known as "mode choice" modeling, only re-runs the later stages of the model — mode choice and tour assignment — rather than going through the full process of generating new tours. It was assumed that, given the incremental nature of each transportation improvement, the tour generation on a per-project basis is relatively small. That said, the "mode choice" modeling approach did capture other responses to new travel choices, such as changes in departure time, routing, and mode choice caused by project implementation.

Numerous benefits were quantified based on model output metrics, including benefits for individuals (such as travel time and trip cost reductions) and for society as a whole (such as improved air quality and reduced CO2 emissions). However, since the methodology was based on the output of the transportation model, it was not possible to go beyond its scope and capture land use impacts and their monetized benefits (e.g. from new development or property value increases). Those types of land use benefits are highly challenging to quantify for benefit-cost analysis, given the necessity to differentiate between intraregional transfers and interregional net benefits. More information about the benefit valuations, their components, and their sources can be found in Table 9.

While MTC developed estimates of benefits, project costs (both capital and operating) were provided by project sponsors. MTC worked with an independent consultant to review project cost estimates and ensure cost estimates provided by sponsors were reasonable. When project costs were significantly below the standardized cost estimates,

MTC followed up with project sponsors and requested either updated realistic cost estimates or justifications for projects' lower-than-expected cost inputs to the B/C analysis.

In order to calculate the benefit-cost ratio, benefits and costs were annualized to reflect the project impacts in the analysis horizon year of 2035. Benefits were based on year 2035 travel model output for a typical weekday, and therefore had to be multiplied by an annualization factor of 300 to determine the annual benefits. Capital costs were annualized based on the expected useful life of the corresponding transportation asset type as shown in Table 6, and then combined with their net annual operating and maintenance cost. For road projects, lane-mile maintenance costs were standardized using the lane-mile costs by facility type as shown in Table 7. For transit projects, gross operating and maintenance costs came from project sponsors and were converted to net annual operating costs using the agencies' current farebox recovery ratios as shown in Table 8 (thus rewarding agencies that recoup more of their operating costs through new farebox revenue).

	TABLE 5: TARGETS ASSESSMENT CRITERIA					
#	Target	Criteria for Project Support	Criteria for Adverse Impact			
1	Reduce per-capita CO <sub>2</sub> emissions from cars and light- duty trucks	<ul> <li>Advances clean fuels and/or vehicles beyond CARB targets</li> <li>Provides an alternative to driving alone</li> <li>Provides a VMT reduction</li> </ul>	Results in a VMT increase			
2	House the region's projected growth	<ul> <li>Located in a jurisdiction with at least 1,500 units of forecasted housing production</li> <li>Located in a jurisdiction with above average past performance in meeting Regional Housing Needs Assessment targets for very low and low income units</li> </ul>	Located in a jurisdiction with below average past performance in meeting Regional Housing Needs Assessment targets for very low and low income units			
3	Reduce premature deaths from exposure to particulate emissions	<ul> <li>Provides a VMT reduction</li> <li>Increases walk/bike trips</li> <li>Increases transit trips</li> </ul>	Results in a VMT increase			
4	Reduce the number of injuries and fatalities from all collisions	<ul> <li>Implements safety improvements (for all modes)</li> <li>Provides a VMT reduction</li> <li>Enhances safety or security for transit passengers</li> </ul>	Results in a VMT increase			
5	Increase the average daily time walking or biking per person for transportation	<ul> <li>Advances clean fuels and/or vehicles beyond CARB targets</li> <li>Provides an alternative to driving alone</li> <li>Provides a VMT reduction</li> </ul>	Results in a VMT increase			
6	Direct all non-agricultural development within the urban footprint	<ul> <li>Does not consume areas of open space</li> <li>Does not consume areas of agricultural land</li> <li>Improves freeway, arterial, or rail access to agricultural lands</li> </ul>	<ul> <li>Directly consumes areas of open space</li> <li>Directly consumes areas of agricultural land</li> </ul>			

	TABLE 5: TARGETS ASSESSMENT CRITERIA					
#	Target	Criteria for Project Support	Criteria for Adverse Impact			
7	Decrease the share of low- income and lower-middle income residents' household income consumed by transportation and housing	<ul> <li>Low-income riders constitute over 40% of the operator's current ridership</li> <li>Operator servers over 0.5% of total regional low-income ridership</li> </ul>	No projects were determined to have adverse impacts on this target.			
8	Increase gross regional product (GRP)	<ul> <li>Improves access to/from employment centers and areas on currently congested roadways (all modes)</li> <li>Improves operations to/from ports or in truck corridors</li> </ul>	Decreases access to port, truck or employment centers			
9	Increase non-auto mode share and decrease automobile vehicle miles traveled per capita	<ul> <li>Improves transit service</li> <li>Increases walk/bike and transit trips</li> <li>Reduces transit travel times</li> <li>Provides alternatives to the single occupant auto</li> <li>Reduces household vehicle ownership</li> </ul>	<ul> <li>Results in a VMT increase</li> <li>Increase the need of use of single-occupant vehicles</li> </ul>			
10	Maintain the transportation system in a state of good repair	<ul> <li>Improves roadway surface condition</li> <li>Replaces or extends the life of bus, rail, or ferry assets</li> </ul>	No projects were determined to have adverse impacts on this target.			

TABLE 6: PROJECT LIFECYCLE ASSUMPTIONS				
Project Type	Expected Useful Life			
Local Buses	14 years			
Express Buses	18 years			
BRT Systems	20 years			
Roads	20 years			
Technology/Operations Components	20 years			
Ferry Boats	20 to 30 years			
Rail Infrastructure (if supermajority of costs are not for new tunnels and/or stations)	30 years			
Rail Infrastructure (if supermajority of costs are for new tunnels and/or stations)	80 years			

TABLE 7: ANNUAL ROAD O&M COST ASSUMPTIONS					
Roadway Type Cost per Lane-Mile (in year 2013 dollar					
Freeway	\$67,000				
State Highway	\$58,733				
Local Road	\$47,486				

Operator* Farebox Recov	
Operator* Ratio	ery
AC Transit 18.8%	
ACE 25.9%	
BART 65.4%	
Caltrain 48.5%	
Capitol Corridor 47.0%	
County Connection 16.4%	
Dumbarton Rail (assumed to be similar to ACE)  25.9%	
Golden Gate Bus 15.6%	
Golden Gate Ferry 47.1%	
LAVTA 19.0%	
Marin Transit (operated by Golden Gate)  15.6%	
Muni Bus (average of motor bus and trolley bus)  29.9%	
Muni Light Rail 22.4%	
SamTrans 17.9%	
SMART (assumed to be similar to ACE) 25.9%	
Sonoma County Bus (weighted average of four operators in Sonoma)	
Tri-Delta Transit 16.6%	
VINE 11.1%	
VTA Bus 12.3%	
VTA Light Rail	
<b>WETA</b> 54.3%	

<sup>\* =</sup> based on FY 2009-2010 farebox recovery from 2010 Statistical Summary of Transit Operators (http://www.mtc.ca.gov/library/statsum/StatSumm\_2010.pdf)

TABLE 9: BENEFIT VALUATIONS					
	Benefit	Valuation (\$2013)	What does this valuation include?		
Travel Time	In-Vehicle Travel Time (Auto and Transit) per Person Hour of Travel	\$16.03	This valuation is set equal to one-half of the mean regional wage rate (\$32.06). The valuation represents the discomfort to travelers of enduring transportation-related delay and the loss in regional productivity for on-the-clock travelers & commuters.  Sources: Caltrans Cal B-C Model; Bureau of Labor Statistics National Compensation Survey, 2011		
	Out-of-Vehicle Travel Time (Transit) per Person Hour of Travel	\$35.27	This valuation is set equal to 2.2 times the valuation of in-vehicle transit time. The valuation represents the additional discomfort to travelers of experiencing uncertainty of transit arrival time, exposure to inclement weather conditions, and exposure to safety risks.  Source: FHWA Surface Transportation Economic		
	In-vehicle Travel Time (Freight/ Trucks) per Vehicle Hour of Travel	\$26.24	Analysis Model (STEAM)  The valuation is set equal to the average wage rate for a Bay Area employee in the Transportation – Truck Driver (average of heavy and light) occupation sector (\$23.83/hour), plus the average hourly carrying value of cargo (\$2.41/hour).  Sources: FHWA Highway Economic Requirements System; Bureau of Labor Statistics National Compensation Survey, 2011		
	Travel Time Reliability (Auto) per Person Hour of Non-recurring Delay	\$16.03	The valuation represents the additional traveler frustration of experiencing non-expected incident related travel delays. The value is set equal to the value of in-vehicle travel time for autos.  Source: SHRP2 Lo5 Project – "Incorporating Reliability Performance Measures into the Transportation Planning and Programming Processes"		
	Travel Time Reliability (Freight/Truck) per Vehicle Hour of Non-recurring Delay	\$26.24	The valuation represents the additional loss of regional productivity of experiencing non-expected incident related travel delays. The value is set equal to the value of in-vehicle travel time for trucks.  Source: SHRP2 Lo5 Project – "Incorporating Reliability Performance Measures into the Transportation Planning and Programming Processes"		
Collisions	Fatality Collisions (valuation per fatality)	\$4.59 million	The valuation includes the internal costs to a fatality collision victim (and their family) resulting from the loss of life, as well as the external societal costs. The valuation represents:  • Loss of life for the victims  • Medical costs incurred in attempts to revive victims  • Loss of enjoyment of family member to other members of the family  • Loss of productivity to the family unit (e.g. loss of earnings)  • Loss of productivity to society  • Loss of societal investment in the victim (e.g. educational costs)  Sources: Caltrans Cal-BC Model, 2010; National Safety Council, 2010		

	TABLE 9: BENEFIT VALUATIONS							
	Benefit	Valuation (\$2013)	What does this valuation include?					
	Injury Collisions (valuation per injury)	\$64,000	<ul> <li>The valuation includes the internal costs to an individual (and their family) resulting from the injury, as well as the external societal costs. The valuation represents:</li> <li>Pain and inconvenience for the individuals</li> <li>Pain and inconvenience for the other family members</li> <li>Medical costs for injury treatment</li> <li>Loss of productivity to the family unit (e.g. loss of earnings)</li> <li>Loss of productivity to society</li> </ul> Sources: Caltrans Cal-BC Model, 2010; National Safety Council, 2010					
	Property Damage Only (PDO) Collisions (valuation per incident)	\$2,455	The valuation includes the internal costs to a property damage collision victim (and their family) resulting from the time required to deal with the collision, as well as the external societal costs from this loss of time. The valuation represents:  • Inconvenience to the individual and to other members of the family  • Loss of productivity to the family unit  • Loss of productivity to society  Source: Caltrans Cal-BC Model, 2010					
	CO2 per Metric Ton	\$55.35	This valuation represents the full global social cost of an incremental unit (metric ton) of CO2 emissions from the time of production to the damage it imposes over the whole of its time in the atmosphere.  Source: BAAQMD Clean Air Plan, 2010 (uprated to year 2035 using a 2% annual adjustment)					
	Diesel PM <sub>2.5</sub> (Fine Particulate Matter) per Ton	\$490,300	gear 2055 asing a 278 annual adjustment/					
Health	Direct PM <sub>2.5</sub> (Fine Particulate Matter) per Ton	\$487,200						
	NO <sub>x</sub> per Ton	\$7,800	These valuations represent the negative health effects of increased emissions including:					
lity a	Acetaldehyde (ROG) per Ton	\$5,700	<ul> <li>Loss of productive time (work &amp; school)</li> <li>Direct medical costs from avoiding or responding to adverse health effects (illness or death).</li> </ul>					
Air Quality and	Benzene (ROG) per Ton	\$12,800	Pain, inconvenience, and anxiety that results from adverse effects (illness or death), or efforts to avoid or treat these effects					
Air	1,3-Butadiene (ROG) per Ton	\$32,200	<ul> <li>Loss of enjoyment and leisure time</li> <li>Adverse effects on others resulting from their own adverse health effects</li> </ul>					
	Formaldehyde (ROG) per Ton	\$6,400	Source: BAAQMD Clean Air Plan, 2010					
	All Other ROG per Ton	\$5,100						
	SO <sub>2</sub> per Ton	\$40,500						

	TABLE 9: BENEFIT VALUATIONS						
	Benefit	Valuation (\$2013)	What does this valuation include?				
	Costs of Physical Inactivity	\$1,220	This valuation represents the savings achieved by influencing an insufficiently active adult to engage in moderate physical activity five or more days per week for at least 30 minutes. It reflects annual Bay Area health care cost savings of \$326 (2006 dollars), as well as productivity savings of \$717 (2006 dollars).  Source: California Center for Public Health Advocacy/ Chenoweth & Associates 2006, "The Economic Costs of Overweight, Obesity, and Physical Inactivity Among California Adults"				
	Auto Operating Costs per Auto Mile Traveled	\$0.2518	This valuation represents the variable costs (per mile) of operating a vehicle. This valuation includes fuel, maintenance, depreciation (mileage), and tires.				
	Truck Operating Costs per Truck Mile Traveled	\$0.3700	Source: Caltrans Cal-BC Model, 2010				
Direct Costs	Parking Costs per Auto Trip	varies by county	For this benefit valuation, costs vary based on the average parking costs for each of the Bay Area counties, taking into account average trip durations, parking subsidy rates, and hourly parking rates. The following per-trip parking cost savings were estimated for each auto trip reduced by county:  • San Francisco: \$7.16/work trip; \$5.64/non-work trip  • San Mateo: \$0/work trip; \$0.04/non-work trip  • Santa Clara: \$0.15/work trip; \$0.33/non-work trip  • Alameda: \$0.54/work trip; \$0.39/non-work trip  • Contra Costa, Solano, Napa, Sonoma, Marin: \$0/work trip; \$0/non-work trip  These valuations reflect the average per-trip parking costs (paid for a parking meter or space in a parking garage) based on trip destinations; they are consistent with the assumptions of Travel Model One on parking costs.  Source: Travel Model One, 2010				
	Auto Ownership Costs per Vehicle (change in the number of autos)	\$6,290	This valuation represents the annual ownership costs of vehicles, beyond the per mile operating costs. This valuation includes purchase/lease cost, maintenance, and finance charges.  Source: MTC Bay Area auto ownership analysis, 2011				
se	Noise per Auto Mile Traveled	\$0.0012	This valuation represents the value of property value decreases and societal cost of noise abatement.				
Noise	Noise per Truck Mile Traveled	\$0.0150	Source: FHWA Federal Cost Allocation Report				

# d. Regional Programs – Off-Model Benefit-Cost Methodology

In addition to county projects that were evaluated using a benefit-cost ratio, MTC also evaluated the cost-effectiveness of its regional programs, which include programs such as Climate Initiatives, the Lifeline Program, and the Freeway Performance Initiative. Unlike capacity-increasing projects that were evaluated using Travel Model One, MTC regional programs were generally not modeled since many of them are programs without capacity improvements that can be accurately reflected in a regional travel demand model. An alternative method was developed that captures the benefits of the projects in one of two ways: 1) the estimated VMT reduced by the projects that was used to calculate all the performance metrics via a correspondence ratio or 2) the estimated nominal benefit(s) of the project that directly yielded a benefit-cost ratio.

Programs that used the VMT reduction approach relied on existing research to estimate the amount of VMT that could be reduced by the given program. These VMT estimates were used to generate metrics such as improved air quality and reduced CO2 emissions in the same way that the travel model outputs were used to generate the program benefits for the projects that were analyzed in Travel Model One. The metrics were then monetized with the same values for the modeled projects and a ratio was calculated based on the program costs. For programs where no reliable VMT estimate could be obtained, such as the local streets and roads and transit maintenance programs, the direct benefits were estimated (such as avoided costs from on-time maintenance) and, along with the program costs, a benefit-cost ratio was calculated.

Detailed information on the benefit-cost assessment for MTC regional programs can be found in Appendix B.

# e. Supplementary Assessments

In addition to the targets assessment and benefit-cost assessment for all major projects, three supplemental assessments were conducted to address other important issues raised by stakeholders.

First, a confidence assessment was performed for each project's benefit-cost assessment in order to identify potential limitations of the benefit-cost assessment. Given that all evaluation methods have limitations, it was important to document known shortcomings of the approach used in order to better inform policymakers of the strengths and weaknesses of the analysis results. The criteria evaluated as part of the confidence assessment sought to identify the primary shortcomings of the quantitative assessment approach and were categorized under the following concepts:

# • Travel Model Output

 Does the travel model have limitations in understanding a particular type of travel behavior (e.g. weaving)?  Does the travel model lack an understanding of specific travel conditions (e.g. ridership or traffic volumes)?

## Framework Completeness

- Does the travel model output capture all of the primary benefits of the project?
- o Are we capturing all of the real-world limitations of relevant transportation systems (e.g. transit vehicle crowding)?

#### • Timeframe Inclusiveness

- o Is the project an "early winner" (i.e. can be implemented quickly and provides key benefits in the short term)?
- o Is the project a "late bloomer" (i.e. benefits will not be realized until the final years of the planning horizon)?

The confidence assessment results table can be found in Appendix H.

Second, sensitivity testing was undertaken in order to understand how the benefit valuations affect the cost-effectiveness estimates for various projects. Considering the sensitivity of valuations for travel time, travel delay, carbon dioxide emissions, collisions, and noise – as well as the potential for cost savings from more efficient transit operations – allowed for a better understanding of potential limitations of the benefit-cost ratios. While most of these tests indicated that valuation changes would have minimal impacts on the overall ratio (as shown in Appendix C), the valuation of travel time did play a significant role in the calculation of benefit-cost. While road projects were most dependent on travel time for their monetized benefits, all projects' benefit-cost ratios were reduced somewhat when travel time was valued at a significantly lower level. Most importantly, however, the ranked order of projects remained relatively consistent overall, meaning that the prioritization effort was relatively immune to valuation sensitivity issues.

Third, a project's equity considerations were highlighted and then utilized to conduct a geographic analysis. Each major transportation project was mapped in order to determine whether it is located within a Community of Concern (CoC) or Community Air Risk Evaluation (CARE). Next, each project located in a Community of Concern was evaluated to determine whether it truly served that community, which was defined as providing access to the residents of that neighborhood (e.g. bus stop, rail station, interchange ramp, arterial intersections, etc.). Finally, three of the target scores most focused on equity issues — adequate housing, particulate matter emissions in CARE communities, and low-income H+T affordability — were summed to calculate an equity targets score ranging from +3 to -3, analogous to the overall target score. Further information on this equity review can be found in Appendix E; the equity target scores and corresponding equity maps can be found in Appendices J and K.

# f. Key Findings of Project Performance Assessment

Significant differences were apparent between projects of different modal types. Road efficiency projects, such as ramp metering in MTC's Freeway Performance Initiative program and new HOV/auxiliary lanes, were highly cost-effective and exhibited moderate support for the performance targets. Road expansion projects, such as the proposed SR-239 Expressway and the MTC Express Lanes Network, were somewhat cost-effective but demonstrated adverse impacts on key performance targets (e.g. CO<sub>2</sub> emissions reduction). Finally, transit projects in general were only marginally cost-effective but performed the strongest in terms of supporting the Plan's performance targets.

Several key trends emerged from the project performance assessment results, which then informed the development of the Preferred Scenario. This process allowed highperforming projects to receive prioritized regional funding, while low-performing projects were subjected to additional scrutiny, as described in the following section.

#### **Modal Performance Differences**

Efficiency projects (which focus on improving existing transportation assets) typically performed better on both components of the project assessment than expansion projects (which emphasize widening highways or extending fixed transit guideways to new service areas). Implementation of ITS technologies – such as ramp metering and signal coordination – through programs like MTC's Freeway Performance Initiative performed better than freeway widening projects; this is due to the cost-effectiveness of efficiency projects in comparison to capital-intensive construction. Congestion pricing projects, including a proposal to implement cordon pricing in San Francisco's central business district, were shown to be even more highly cost-effective, given their ability to reduce congestion and fund additional transit service with net revenues. In addition to their cost-effectiveness, road efficiency and congestion pricing projects achieved many of the Plan Bay Area targets. In comparison, the Express Lane Network projects, which include some widening elements, showed adverse impacts for some of the Plan Bay Area targets by increasing capacity for automobiles through construction of new highway lanemileage.

Transit efficiency projects also performed very well, demonstrating a high level of costeffectiveness and strong support for the targets. Projects such as bus rapid transit
systems in San Francisco and Oakland emphasized high-demand corridors where
dedicated lanes and bus signal priority achieve substantial benefits at a relatively low
cost. In fact, the highest-performing project in the entire assessment – the BART Metro
Program – was entirely focused on efficiency. This project, emphasizing improvements
to the urban core of the heavy-rail BART system, would construct new turnbacks and
implement express train service to provide more frequent and faster service along
existing routes. In this era of constrained resources, both transit and road efficiency
projects strongly support regional goals and provide the best "bang per buck".

## **Geographical Differences**

Another key trend emerged based on the geographic location of a given transportation project. In general, both road and transit projects in the urban core of the Bay Area had higher benefit-cost ratios, which is logical given greater levels of traffic congestion and transit ridership in urban areas. This is primarily due to the large populations in these core regions; more individuals are likely to benefit from a given project's implementation in a major population center. Projects at the edges of the region typically exhibited lower benefit-cost ratios, while at the same time receiving lower target scores due to these projects' propensity to spur sprawl and induce greenfield development patterns.

This was particularly evident with transit projects; less-dense locations often lead to reduced accessibility to/from transit stops and therefore lower levels of ridership. This was exemplified by projects in the North Bay counties of Marin and Sonoma, where both transit frequency improvements and commuter rail extensions showed benefit-cost ratios less than one. In comparison, some of the region's highest-performing transit projects were along the densest corridors in the region – San Francisco's Market Street and Van Ness Avenue and Oakland's MacArthur Boulevard and International Boulevard.

## Visualizing the Results

The results of the project-level performance assessment are summarized in a series of bubble charts, as shown in Figures 2, 3, and 4. Each bubble chart shows the benefit-cost ratio (on the vertical axis) and the targets score (on the horizontal axis), while the bubble size corresponds to the magnitude of benefits. High-performers can be identified in the upper-right corners of each bubble chart, while low-performers can be found on the left side and bottom edge of each bubble chart.

# g. High-Performing and Low-Performing Projects

The project performance assessment process was not intended to merely serve as an informational item for policymakers. As discussed earlier, it was designed to influence the development of a preferred scenario by prioritizing high-performing projects and requiring low-performing projects to submit a compelling case for approval by the MTC Planning Committee. This effort played a major role in aligning regional discretionary dollars to the most cost-effective projects, while removing cost-ineffective projects and projects with adverse impacts on the performance targets.

In February 2012, the MTC Planning Committee approved a set of criteria to identify high- and low-performing projects. High-performing projects were defined as projects with high benefit-cost ratios (at least 10) and moderate target scores (at least +2), and as

projects with high target scores (at least +6) and moderate benefit-cost ratios (at least 5). Low-performing projects were defined as projects with benefit-cost ratios below 1 or target scores at or below -1.

Thirteen projects were identified as high-performers; most of these projects were focused on efficiency improvements to existing systems (such as BART Metro or FPI) or major high-capacity transit expansions to dense urban areas (such as BART to San Jose or new bus rapid transit lines in San Francisco). These projects were prioritized for regional funding; major high-performing transit projects marked in bold reflect the region's latest New Starts and Small Starts funding priorities:

- BART Metro Program
- Treasure Island Congestion Pricing
- Congestion Pricing Pilot
- AC Transit Grand-MacArthur BRT
- Freeway Performance Initiative
- ITS Improvements in San Mateo County
- ITS Improvements in Santa Clara County
- Irvington BART Station
- SFMTA Transit Effectiveness Project
- Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien)
- BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)
- Van Ness Avenue BRT
- Better Market Street

Thirty-two low-performing projects were also flagged as part of this process and were required to submit a compelling case if sponsors wanted to be considered for inclusion in the Draft Plan. In addition, low-performing projects needed to have a full funding plan (i.e. project needed to financially feasible).

The compelling case criteria established focused on the limitations of the project performance assessment. In other words, project sponsors needed to highlight a known limitation of the assessment and show how addressing that analytical limitation might shift them outside of the low-performing range. If the project was flagged due to a low benefit-cost ratio, project sponsors needed to show how limitations in the travel model (Category 1) led to an underestimated B/C ratio and provide evidence that a model limitation, if resolved, could have led to a ratio above 1. Additionally, project sponsors could cite support for key federal air quality and social equity requirements (Category 2) that did not receive additional weight in either the B/C or targets assessments as justification for a compelling case.

The complete list of adopted compelling case criteria is provided below:

### Category 1: Benefits Not Captured by the Travel Model

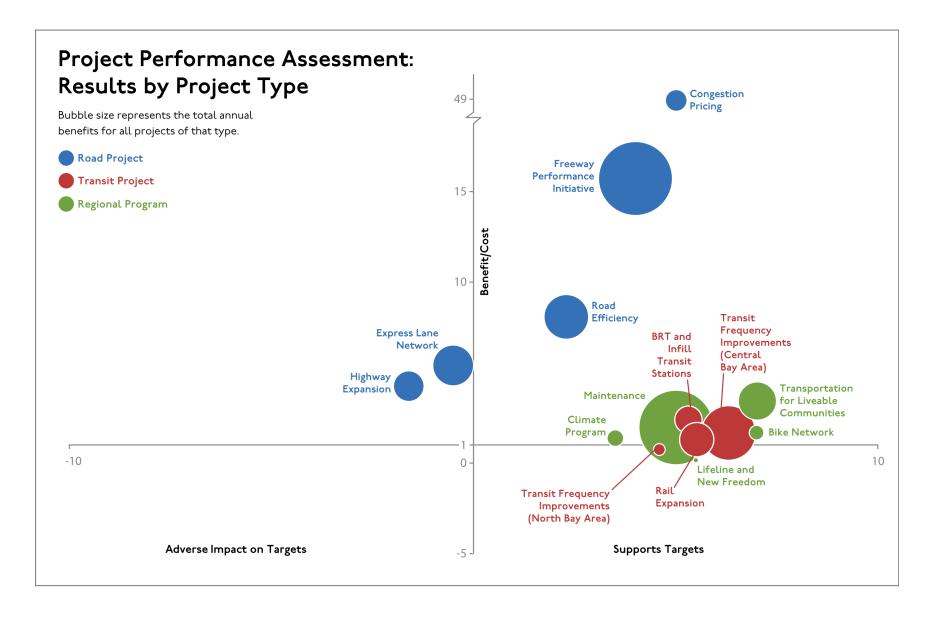
- a) Serves an interregional or recreational corridor
- b) Provides access to international airports
- c) Project benefits accrue from reductions in weaving, transit vehicle crowding, or other travel behaviors not well represented in the travel model
- d) Enhances system performance based on complementary new funded investments

## Category 2: Federal Requirements

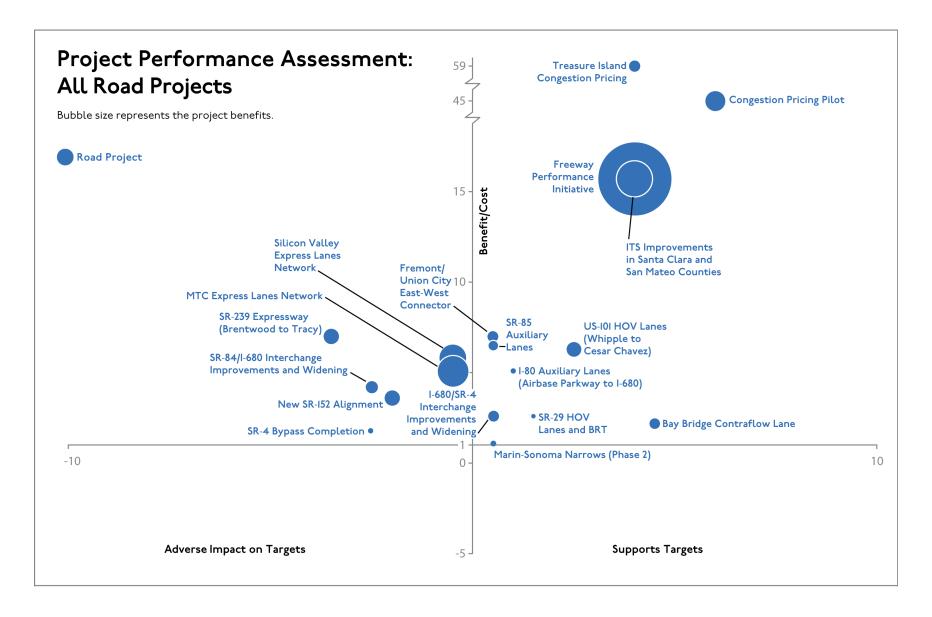
- a) Cost-effective means of reducing CO<sub>2</sub>, PM, or ozone precursor emission (on cost per ton basis)
- b) Improves transportation mobility/reduces air toxics and PM emissions in communities of concern

The compelling case process resulted in changes to the transportation investment strategy as project sponsors developed cases or decided not to pursue the process. In the end, 12 of the 32 projects were withdrawn by project sponsors and were not included in the Plan. Sponsors, exempting themselves from the compelling case process by converting a project to a study or by agreeing to fund a project using only local sales tax dollars, changed an additional 12 project scopes. The remaining 8 projects had their compelling cases approved by the MTC Planning Committee, primarily relying on case 2b (serves a community of concern) to highlight the projects' support of important social equity goals. All in all, the compelling case process successfully removed billions of dollars of low-performing projects from Plan Bay Area and boosted the cost-effectiveness of the overall Plan.

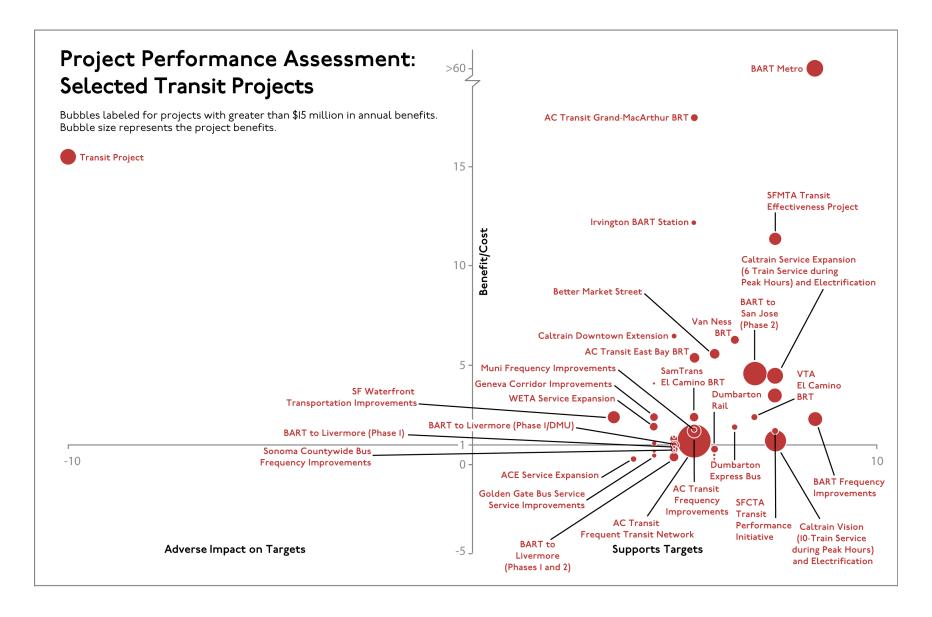
#### FIGURE 2: PROJECT PERFORMANCE ASSESSMENT - RESULTS BY PROJECT TYPE



#### FIGURE 3: PROJECT PERFORMANCE ASSESSMENT - ROAD PROJECT RESULTS



#### FIGURE 4: PROJECT PERFORMANCE ASSESSMENT – TRANSIT PROJECT RESULTS



# V. DRAFT PLAN AND EIR ALTERNATIVES PERFORMANCE ASSESSMENT

Similar to the alternative scenarios evaluated in 2011 and described in Chapter III of this report, staff analyzed the draft Plan and the various Environmental Impact Report (EIR) alternatives studied in 2012 and 2013. This process sought to highlight the results of the performance-based planning process and examine whether any concepts studied in the EIR should be considered as potential alternatives to the draft Plan due to their strong targets performances.

In general, the target methodologies for this round of performance targets assessment were consistent with those used in prior rounds of analysis, with a few exceptions. The most significant change was that targets were evaluated for horizon year 2040, instead of year 2035 from prior analyses. Due to modeling limitations, it was not possible to simulate year 2040 in prior work, but since the Plan itself has a 2040 horizon year, models were updated in 2012 to make this possible. Detailed methodology information for each performance target can be found in Appendix A.

# a. Development of Draft Plan

The Draft Plan, also known as the Preferred alternative for the Plan Bay Area EIR, was built upon the alternative scenarios process and the transportation project performance assessment, as well as input from local jurisdictions. The alternative scenarios process highlighted the need to develop a transportation investment package that provided greater funding for operating and maintaining the existing system. High-performing projects identified in the project performance assessment were prioritized for regional discretionary funding, while additional funding was provided to Climate Initiatives, the One Bay Area Grant program, the Transit Priority Initiative, and road efficiency programs such as the Freeway Performance Initiative.

On the land use side, the alternative scenarios process led to the creation of the Jobs-Housing Connection land use pattern which relied on lower control totals than unconstrained scenarios previously evaluated; it focused heavily on PDA growth, particularly in the "Big 3" cities (San Francisco, Oakland, and San Jose) with existing lower levels of per-capita GHG emissions. Additional revisions to the land use pattern were also made by ABAG staff to reflect local jurisdictions' feedback.

# b. Defining EIR Alternatives

Alternative 1 - No Project: This alternative represented the potential scenario if Plan Bay Area is not implemented. Under this alternative, no new regional policies would be

implemented in order to influence local land use patterns and no uncommitted transportation investments would be made.

Alternative 2 – Preferred: This alternative was selected by MTC and ABAG as the preferred plan option for Plan Bay Area; it represented a combination of the Jobs-Housing Connection land use strategy and the Preferred Transportation Investment Strategy, both developed as a result of the alternative scenarios analysis in early 2012. Refer to section (a) above for further details on the Draft Plan.

Alternative 3 – Transit Priority Focus: This alternative sought to develop a focused growth pattern primarily in the region's urban core by relying on Transit Priority Project eligible areas (TPPs), which are areas with high-frequency transit service that are eligible for higher-density development streamlining, as per SB 375. This alternative was meant to leverage the significant investment the region has made and continues to make in frequent transit services.

Alternative 4 – Enhanced Network of Communities: This alternative sought to provide sufficient housing for all people employed in the San Francisco Bay Area and allowed for more dispersed growth patterns than the proposed Plan. This alternative reflected input from the region's business community, which requested an alternative that mirrors the land use pattern previously identified in Current Regional Plans.

Alternative 5 – Environment, Equity, and Jobs: This alternative reflected the development proposal presented by Public Advocates, Urban Habitat, and TransForm during the scoping period. This alternative sought to maximize affordable housing in high-opportunity urban and suburban areas through incentives and housing subsidies. The suburban growth was supported by increased transit service to historically disadvantaged communities funded by a potential Vehicle Miles Traveled (VMT) tax and higher bridge tolls.

Additional details on the EIR alternative definitions can be found in the Draft Plan Bay Area Environmental Impact Report.

# c. Climate Protection Target

**Adopted Target #1:** Reduce per-capita CO<sub>2</sub> emissions from cars and light-duty trucks by 15%.

## **Target Performance: EIR Alternatives**

Goal: -15%No Project: -8%Preferred: -18%

- Transit Priority Focus: -16%
- Enhanced Network of Communities: -16%
- Environment, Equity, and Job: -17%

By 2040, all of the EIR alternatives achieve the greenhouse gas reduction target, with the notable exception of the No Project alternative. This is primarily due to the fact that the four successful alternatives all emphasize some version of focused growth and implement significant transit expansion projects. At the same time, the No Project alternative does not include certain elements of the Climate Initiatives program funded using uncommitted revenues, which is critical to the target achievement for all other alternatives.

For this target, it is also important to examine the statutory goal established by year 2035. In addition to the No Project alternative, Enhanced Network of Communities also falls short of the 15% per-capita reduction for that year. The three alternatives that do meet the year 2035 goal for GHG reduction (Preferred, Transit Priority Focus, and Environment, Equity, and Jobs) all achieve a per-capita 16% reduction in GHG emissions between 2005 and 2035.

# d. Adequate Housing Target

**Adopted Target #2:** House 100% of the region's projected growth by income level (very-low, low, moderate, above-moderate) without displacing current low-income residents.

## **Target Performance: EIR Alternatives**

- Goal: 100%
- No Project: 100%
- Preferred: 100%
- Transit Priority Focus: 100%
- Enhanced Network of Communities: 118%
- Environment, Equity, and Jobs: 100%

All of the EIR alternatives achieve this target as each provides sufficient housing for the envisioned growth in the region. As required by SB 375, the alternatives studied house the region's population growth. However, only the Enhanced Network of Communities alternative generates additional housing to eliminate the region's net in-commuting pattern (thus going above and beyond the adopted goal). The four remaining alternatives only produce sufficient housing to avoid increasing the share of residents who must commute from outside the region.

# e. Healthy and Safe Communities Targets

**Adopted Target #3:** Reduce premature deaths from exposure to particulate emissions.

- a) Reduce premature deaths from exposure to fine particulates (PM2.5) by 10%.
- b) Reduce coarse particulate emissions (PM10) by 30%.
- c) Achieve greater reductions in highly impacted areas.

## **Target Performance: EIR Alternatives**

- Goals: a) -10%; b) -30%; c) Yes
- No Project: a) -71%; b) -16%; c) Yes
- Preferred: a) -71%; b) -17%; c) Yes
- Transit Priority Focus: a) -72%; b) -17%; c) Yes
- Enhanced Network of Communities: a) -69%; b) -14%; c) No
- Environment, Equity, and Jobs: a) -72%; b) -18%; c) Yes

All of the alternatives considered far exceed the premature mortality target for fine particulate emissions, thanks primarily to statewide truck regulations scheduled to take effect over the planning period. With regards to coarse particulate matter, all alternatives fall somewhat short but certainly reflect a major improvement for the region. Notably, the Enhanced Network of Communities alternative has the smallest reductions due to its greater regional population growth.

For CARE community PM impacts, most of the alternatives show greater reductions in those highly impacted locations. The key exception is Enhanced Network of Communities; the greater levels of VMT in that alternative, resulting from higher regional control totals, causes slightly lower levels of PM10 reduction in CARE communities than in non-CARE communities.

It is important to note that the results for this target assessment may vary from the Plan Bay Area EIR as they feature slightly different definitions for air pollutants. Additional information on the target methodology can be found in Appendix A.

**Adopted Target #4:** Reduce by 50% the number of injuries and fatalities from all collisions (including bike and pedestrian).

### **Target Performance: EIR Alternatives**

• Goal: -50%

• No Project: +18%

- **Preferred:** +18%
- Transit Priority Focus: +17%
- Enhanced Network of Communities: +23%
- Environment, Equity, and Jobs: +16%

None of the EIR alternatives reduce collisions; in fact, collisions are expected to grow between 16 percent and 23 percent over the planning period under the alternatives considered. As discussed earlier, this is primarily due to regional growth leading to greater total VMT; as Environment, Equity, and Jobs has the lowest level of total VMT, it also has the least growth in total collisions. Enhanced Network of Communities has the greatest growth in total collisions due to the fact that it has the higher regional control totals than any other alternative, leading to the greatest total VMT within the region.

**Adopted Target #5:** Increase the average daily time walking or biking per person for transportation by 70% (for an average of 15 minutes per person per day).

#### **Target Performance: EIR Alternatives**

- Goal: +70%
- No Project: +12%
- **Preferred:** +17%
- Transit Priority Focus: +18%
- Enhanced Network of Communities: +13%
- Environment, Equity, and Jobs: +20%

None of the EIR alternatives achieve the physical activity target for active transportation, but all of them are moving in the right direction. The No Project alternative and Enhanced Network of Communities alternative perform the worst, given their growth pattern's suburban emphasis; Environment, Equity, and Jobs performs the best given its significant investment in public transit services. As many transit riders walk or bicycle to transit, the boost in ridership tends to increase physical activity as more individuals rely on forms of active transportation instead of the automobile.

# f. Open Space and Agricultural Preservation Target

**Adopted Target #6:** Direct all non-agricultural development within the urban footprint (existing urban development and urban growth boundaries).

### **Target Performance: EIR Alternatives**

Goal: 100%

• No Project: 53%

• Preferred: 100%

• Transit Priority Focus: 100%

Enhanced Network of Communities: 100%

Environment, Equity, and Jobs: 100%

As four of the EIR alternatives assume strict adherence to current adopted urban growth boundaries and urban limit lines, all of those alternatives fully achieve this target by locating all new households and businesses in existing urban areas rather than greenfield lands outside of growth boundaries. The notable exception is the No Project alternative. In this alternative, 53 percent of new developed acreage occurs within the urban footprint, with the rest occurring in greenfield lands adversely affecting farmlands and natural areas. This target analysis highlights the critical need for local jurisdictions to prevent expansion of urban growth boundaries in order to achieve the goals of Plan Bay Area.

It is important to note that the results for this target assessment may vary from the Plan Bay Area EIR as they feature a slightly different definition for open space consumption. Additional information on the target methodology can be found in Appendix A.

# g. Equitable Access Target

**Adopted Target #7:** Decrease by 10% the share of low-income and lower-middle income residents' household income consumed by transportation and housing.

# **Target Performance: EIR Alternatives**

• Goal: -10%

• No Project: +8%

• Preferred: +3%

Transit Priority Focus: +5%

Enhanced Network of Communities: +3%

• Environment, Equity, and Jobs: +2%

This target, which represented a goal of aggressively improving the region's affordability for low-income and lower-middle income residents, remains vexingly out of reach for all of the EIR alternatives studied. Housing costs continue to be the most significant burden for working-class residents of the region, representing 42 percent of typical household costs under Preferred, Transit Priority Focus, and Enhanced Network of Communities. No Project is expected to have somewhat higher housing costs as a result of its lack of affordable housing subsidies, while Environment, Equity, and Jobs is

expected to have the lowest share of income spent on housing as a result of its significant affordable housing subsidy levels.

With regards to transportation costs, Enhanced Network of Communities and Preferred are expected to have the lowest costs for working-class households, with higher costs forecasted under No Project, Transit Priority Focus, and Environment, Equity, and Jobs. The net result of combined housing and transportation costs leads to Environment, Equity, and Jobs having the strongest performance on this target, with the sprawl-oriented No Project alternative leading to the greatest growth in combined housing and transportation costs.

# h. Economic Vitality Target

**Adopted Target #8:** Increase gross regional product (GRP) by an average annual growth rate of approximately 2% (+110% target for year 2040).

#### **Target Performance: EIR Alternatives**

- Goal: +110%
- No Project: +118%
- **Preferred:** +119%
- Transit Priority Focus: +118%
- Enhanced Network of Communities: +123%
- Environment, Equity, and Jobs: +118%

All of the EIR alternatives exceed the gross regional product target, reflecting the impact of significant population and job growth forecasted under ABAG's regional control totals. All of the alternatives analyzed had relatively similar performance, with the notable exception of Enhanced Network of Communities. That alternative's significantly stronger performance is a result of higher levels of population and employment resulting from the no net in-commuting assumption. As additional residents choose to locate within the region and bring along additional service-sector jobs, the Bay Area's gross regional product would be expected to increase in a commensurate manner.

While not resulting in as significant an increase in GRP as Enhanced Network of Communities, the performance of the Preferred alternative slightly exceeds that of the No Project alternative; this is a result of three combined factors. First, the Draft Plan includes significant investments in transportation infrastructure that slightly reduces traffic congestion. Second, ABAG job forecasts for the Preferred alternative include greater numbers of jobs in high-productivity sectors, such as finance, business, and professional services, leading to greater economic output than the No Project alternative. Third, greater access to labor under the proposed land use pattern generates

higher levels of industrial productivity (value added per employee). While the difference is not very significant, it is important to recognize that the Draft Plan has a slight positive benefit (above and beyond the status quo) for the region's economic vitality.

## Transportation System Effectiveness Targets

**Adopted Target #9:** Increase non-auto mode share by 10% and decrease automobile vehicle miles traveled per capita by 10%.

## **Target Performance: EIR Alternatives**

Goals: 26%; -10%
No Project: 19%; -5%

Preferred: 20%; -9%

Transit Priority Focus: 20%; -8%

• Enhanced Network of Communities: 19%; -9%

• Environment, Equity, and Jobs: 21%; -9%

All of the alternatives fall short of the mode shift and VMT per capita reduction targets, but all move in the right direction. In particular, the Environment, Equity, and Jobs alternative performs the best for this target, achieving a 21% non-auto mode share thanks to its substantial investments in the region's transit system. All of the alternatives, except for No Project, nearly achieve the VMT per capita reduction target. The forecasted reductions in VMT per capita are primarily due to the focused growth strategy of those alternatives, as individuals will be closer to key destinations such as work, school, or retail.

Adopted Target #10: Maintain the transportation system in a state of good repair:

- a) Increase local road pavement condition index (PCI) to 75 or better.
- b) Decrease distressed lane-miles of state highways to less than 10% of total lane-miles.
- c) Reduce share of transit assets past their useful life to 0%.

#### **Target Performance: EIR Alternatives**

- Goals: a) +19%; b) -63%; c) -100%
- No Project: a) -21%; b) +63%; c) +179%
- Preferred: a) +8%; b) +63%; c) +88%
- Transit Priority Focus: a) +8%; b) +63%; c) +88%
- Enhanced Network of Communities: a) +8%; b) +11%; c) +88%
- Environment, Equity, and Jobs: a) +13%; b) +52%; c) +88%

Of the three state of good repair targets, only local road pavement conditions are expected to improve under the EIR alternatives analyzed (with the exception of the No Project alternative); freeway distressed lane-miles and the share of transit assets past their useful life are expected to degrade, even with significant state of good repair investments envisioned in the Plan.

Local street quality varies between the EIR alternatives as a result of different funding levels. No Project does not include significant uncommitted regional funding to improve pavement quality, while Environment, Equity, and Jobs boosts funding for local street quality and therefore has a slightly higher PCI target performance. With regards to the state highway distressed lane-miles target, No Project, Preferred, and Transit Priority Focus all result in a significant worsening of state highway pavement conditions, as no regional funding is used to supplement state SHOPP maintenance funds. In Enhanced Network of Communities (and Environment, Equity, and Jobs to a lesser extent), new funding sources such as increased bridge tolls are used to slow the degradation of state highway facilities. Transit state of good repair, while also degrading in all alternatives, performs better than the No Project alternative as a result of regional funding allowing operators to replace vehicles and infrastructure earlier than otherwise possible.

# j. Overall EIR Alternative Performance Trends

The performance analysis of EIR alternatives highlights the similarities between the alternatives evaluated, especially since a number of the alternatives simply represent different paths towards the same goal – focused growth near public transit. The most significant contrast to this result can be found in the poor performance of the No Project alternative, particularly with regards to GHG reduction and open space protection; these results demonstrate the shortcomings associated with a more dispersed land use pattern. Note that many of the smaller differences between the remaining alternatives need to be interpreted carefully given their relative similarities; key conclusions based on careful interpretation of the results are listed below. Table 10 provides a full list of performance target results for the various EIR alternatives studied.

- The Environment, Equity, and Jobs alternative, with its investments in public transit rather than highway expansion, performs the best on performance targets related to lower auto use. Reduced levels of driving, combined with focused growth in urban and suburban locations, lead to the strongest performance on targets such as air quality, active transportation, low-income household affordability, and non-auto mode share.
- The No Project alternative highlights the limitations of a dispersed growth pattern, as well as the importance of continued investments in transportation. This alternative leads to lower levels of transit utilization, walking, and bicycling than other alternatives. At the same time, it has much

- greater impacts due to its reliance on suburban and exurban greenfield development. Without transportation funding for uncommitted projects or for the vital Climate Initiatives program to achieve the GHG target, the No Project alternative falls woefully short of the regional goals.
- Similar to the alternative scenarios, the higher regional control totals for the Enhanced Network of Communities alternative degrade its performance for certain targets. Higher levels of population and jobs in that particular alternative result in more emissions and more collisions, even though the alternative has the greatest performance on VMT per capita reduction. Furthermore, the alternative's reduced funding for Climate Initiatives weakens its performance on the GHG reduction target, causing it to fall behind the Preferred alternative.
- Except for the No Project alternative, higher investment levels for maintenance and operations in the EIR alternatives lead to better outcomes for local streets and public transit. As a result of the targets assessment for the alternative scenarios, additional funding was allocated for local roads and public transit assets; in the case of transit state of good repair, this had a significant effect on the target performance when compared to the earlier round of scenarios. While neither achieves the adopted targets, both targets underline the importance of performance assessment throughout the planning process, as funding shifts can be implemented to respond to poor target performance in early analysis rounds. Additional funding in the Enhanced Network of Communities alternative for state highway maintenance also highlights how state of good repair investments can have a significant impact on target performance. Maintaining the region's transportation assets remains a critically important regional challenge in ensuring the continued vitality of the Bay Area.

TABLE 10: TARGET PERFORMANCE FOR EIR ALTERNATIVES (YEAR 2040)							
#	Target	Goal	No Project	Preferred	Transit Priority Focus	Enhanced Network of Communities	Environment, Equity, and Jobs
1	Reduce per-capita CO <sub>2</sub> emissions from cars and light-duty trucks	-15%	-8%	-18%	-16%	-16%	-17%
2	House the region's projected growth	100%	100%	100%	100%	118%	100%
3a	Reduce premature deaths from exposure to fine particulates	-10%	-71%	-71%	-72%	-69%	-72%
<b>3</b> b	Reduce coarse particulate emissions	-30%	-16%	-17%	-17%	-14%	-18%
3c	Achieve greater reductions in highly impacted areas	Yes	Yes	Yes	Yes	No	Yes
4	Reduce the number of injuries and fatalities from all collisions	-50%	+18%	+18%	+17%	+23%	+16%
5	Increase the average daily time walking or biking per person for transportation	+70%	+12%	+17%	+18%	+13%	+20%
6	Direct all non-agricultural development within the urban footprint	100%	53%	100%	100%	100%	100%

	TABLE 10: TARGET PERFORMANCE FOR EIR ALTERNATIVES (YEAR 2040)							
#	Target	Goal	No Project	Preferred	Transit Priority Focus	Enhanced Network of Communities	Environment, Equity, and Jobs	
7	Decrease the share of low-income and lower-middle income residents' household income consumed by transportation and housing	-10%	+8%	+3%	+5%	+3%	+2%	
8	Increase gross regional product (GRP)	+110%	+118%	+119%	+118%	+123%	+118%	
9a	Increase non-auto mode share	26%	19%	20%	20%	19%	21%	
9b	Decrease automobile vehicle miles traveled per capita	-10%	-5%	-9%	-8%	-9%	-9%	
10a	Increase local road pavement condition index (PCI)	+19%	-21%	+8%	+8%	+8%	+13%	
10b	Decrease share of distressed lane-miles of state highways	-63%	+63%	+63%	+63%	+11%	+52%	
10c	Reduce share of transit assets past their useful life	-100%	+179%	+88%	+88%	+88%	+88%	

<sup>\* =</sup> targets achieved via scenarios marked in green; targets where scenarios fell short marked in yellow; targets where scenarios move in the wrong direction marked in red

# VI. APPENDICES

- a. Scenario Performance Target Methodologies
- b. Project Performance Assessment Regional Program Evaluation
- c. Project Performance Assessment Benefit-Cost Sensitivity Testing
- d. Project Performance Assessment Detailed Targets Assessment Criteria
- e. Project Performance Assessment Equity Considerations Documentation
- f. Project Performance Assessment Summary Tables
- g. Project Performance Assessment Detailed Tables
- h. Project Performance Assessment Benefit-Cost Confidence Assessment
- i. Project Performance Assessment Targets Criteria Data Tables
- j. Project Performance Assessment Equity Considerations Tables
- k. Project Performance Assessment Equity Maps

# APPENDIX A: Scenario Performance Target Methodologies

**Adopted Target #1:** Reduce per-capita CO<sub>2</sub> emissions from cars and light-duty trucks by 15%.

Travel Model One was utilized to forecast reductions in greenhouse gas emissions as a result of various Plan Bay Area scenarios. Daily travel patterns were analyzed as a result of scenarios' transportation investments and land use patterns, making possible the calculation of vehicle miles traveled and speed of travel. ARB's EMFAC air quality model was then used to calculate the pounds of carbon dioxide emissions associated with that amount of regional travel. For more information about the travel modeling process, refer to the Travel Model One Data Summary supplemental report.

Additional off-model greenhouse gas reductions were also added following the inclusion of the Climate Initiatives Program in the Draft Plan and EIR alternatives. These reductions, resulting from the Plan's funding of electric vehicle incentives and smart driving initiatives (among other programs), were calculated by estimating the direct greenhouse gas emissions reduction of specific funded programs, rather than forecasting travel impacts in the model. This is appropriate as many of the programs are not designed to necessarily reduce VMT, but instead reduce emissions through cleaner vehicles and improved driving habits. Further documentation of these off-model calculations can be found in Travel Model One Data Summary supplemental report.

**Adopted Target #2:** House 100% of the region's projected growth by income level (very-low, low, moderate, above-moderate) without displacing current low-income residents.

*Vision Scenarios:* For the vision scenarios, the regional household growth forecasts for the two alternatives were compared to unconstrained level of growth forecasted in the Initial Vision Scenario. These growth forecasts were developed by ABAG in early 2011 and envisioned CRP growth based on historical trends and IVS growth of 267,000 more housing units than CRP as a result of PDA-focused growth.

Formula: % of growth housed = (household growth in scenario X) / (household growth in unconstrained Initial Vision Scenario)

Alternative Scenarios: Unlike the other two rounds for this performance target, the target was measured based on total households, rather than the increment of household growth (in other words, it counted housing the existing population as part of the target achievement). Target achievement was based on the unconstrained Initial Vision Scenario (Fall 2011) which had higher control totals than three of the alternative scenarios, but lower control totals than the Initial Vision Scenario (Spring 2011).

Formula: % of region housed = (total households in scenario X) / (total households in unconstrained scenarios)

EIR Alternatives: For the EIR alternatives, the regional household growth forecasts for the five alternatives were compared to the growth forecast assuming no increase in the regional share of in-commuting. That forecast is the basis of the Draft Plan and its control totals were used for Alternatives 1, 2, 3, and 5; Alternative 4 is the only alternative with greater control totals as a result of its goal to achieve no net incommuting in the region. Thus, that alternative performs above and beyond this target as it builds more than is required to accommodate growth at current in-commuting rates.

Formula: % of growth housed = (household growth in alternative X) / (household growth with no increase in the regional share of incommuting)

**Adopted Target #3:** Reduce premature deaths from exposure to particulate emissions.

- a) Reduce premature deaths from exposure to fine particulates (PM2.5) by 10%
- b) Reduce coarse particulate emissions (PM10) by 30%
- c) Achieve greater reductions in highly impacted areas

First, overall emissions estimates were generated by Travel Model One and EMFAC, the state's emissions forecasting tool. These emissions estimates take into account the future VMT and speeds from the travel model, as well as assumed improvements in vehicle technologies. The model not only estimates the particulate matter impacts, but also changes in NOx emissions that lead to secondary PM2.5.

Second, BAAQMD leveraged their existing Multi-Pollutant Evaluation Methodology (MPEM) tool to estimate how reductions in emissions of various air pollutants impact key health outcomes such as premature mortality, cardiovascular disease, and asthma. MPEM can be used to estimate how changes in emissions of direct tailpipe emissions of PM2.5, as well as NOx emissions that contribute to formation of ammonium nitrate, will impact premature mortality. Because the MPEM model is designed to work based on current population data, the premature mortality figures were scaled proportionately to represent baseline year and horizon year population forecasts developed by ABAG.

Third, the particulate emissions were calculated based on their location in CARE and non-CARE communities; tailpipe emissions and brake/tire wear contributing to PM10 were calculated for all major travel corridors and the vicinities of these travel corridors were examined to determine whether or not they passed through a CARE community. This made possible the calculation of total emissions per day in CARE and non-CARE communities; percent reductions for these two areas were compared to determine the target result.

The modeling tools available changed over the course of the process as indicated below:

*Vision Scenarios:* The EMFAC 2009 model was used to forecast emissions for year 2035; however, this round of scenarios did not incorporate emission reductions from heavy-duty truck regulations not yet fully enacted. The CARE target calculation tool also had not been developed and therefore no results were calculated for target 3c.

Alternative Scenarios: The EMFAC 2009 model was used to forecast emissions for year 2035; this round of scenarios did incorporate emission reductions from heavy-duty truck regulations, which are expected to significantly reduce particulate matter from diesel vehicles. The inclusion of these regulations was the primary reason for target result differences between the Vision and Alternative Scenarios. Similar to the Vision Scenarios analysis, the CARE target calculation tool also had not been developed and therefore no results were calculated for target 3c.

EIR Alternatives: As the Plan has a 2040 horizon year, MTC/ABAG wanted to examine Plan performance for that year; however, past analyses had been constrained by EMFAC 2009 and other modeling tools that did not go past the year 2035. With the release of EMFAC 2011 by CARB, MTC was able to analyze air quality impacts for year 2040; thus, this updated model was used for the draft Plan and EIR alternatives. The CARE communities analysis tool was also available and was used to compare EIR alternatives' equity impacts for PM reduction.

**Adopted Target #4:** Reduce by 50% the number of injuries and fatalities from all collisions (including bike and pedestrian)

MTC forecasts injuries and fatalities caused by motor vehicle collisions using a combination of MTC Travel Model One output and collision rate data for different roadway types. MTC's travel model forecasts VMT for specific road types for each analysis year. Collision rates are then applied based off of historical data from SWITRS; these rates reflect all collisions, including bicycle and pedestrian collisions. The rates applied reflect the specific road types – including freeways, arterials, local streets, etc. – incorporating the number of lanes included in the traffic model. For more information about the travel modeling process, refer to the Travel Model One Data Summary supplemental report.

**Adopted Target #5:** Increase the average daily time walking or biking per person for transportation by 70% (for an average of 15 minutes per person per day).

To determine the average minutes per person of active transportation, the average walk, bike and transit associated walk trip times for all trip purposes were taken from Travel

Model One and combined to determine the active transportation minutes per person. To get typical walk and bike trip travel times, the small number of outliers (very long and very short travel times) were excluded. For more information about the travel modeling process, refer to the Travel Model One Data Summary supplemental report.

**Adopted Target #6:** Direct all non-agricultural development within the urban footprint (existing urban development and urban growth boundaries)

Based on the adopted language of the resolution, all scenarios and EIR alternatives evaluated were compared to the year 2010 urban footprint, rather than a year 2005 baseline like most other targets.

Vision Scenarios: ABAG analytical staff assessed the target using a person-based approach, rather than acreage impact approach. Greenfield consumption was forecasted based on household change within traffic analysis zones (TAZs). Each of the 1454 TAZs were classified based on their overall state of development (urbanized, undeveloped, or a mixture of both). Based on growth levels in each TAZ, greenfield impacts varied based on this classification — urbanized TAZ growth had no impact on greenfields, undeveloped TAZ growth had 100% impact on greenfields, and mixed TAZ growth was assumed to have 50% impact on greenfields (the rest occurring within existing urban areas). The target result represents the share of growth occurring in existing urban areas as a proportion of total regional growth. Acreage impacts were also considered using the ABAG CLARA model, but these did not factor into the target result.

Alternative Scenarios: ABAG planning staff assessed the target using a person-based approach, rather than acreage impact approach. Growth was examined on a TAZ-level using a GIS-based analysis; growth on rural TAZs was flagged as greenfield development.

EIR Alternatives: Using the output of the UrbanSim model for all alternatives, ABAG staff examined the acres of new development, as well as significant redevelopment, across the region. Staff identified whether those acres were within the 2010 urban footprint or whether those acres were on greenfield lands outside the urban footprint; the result reflects the percentage of total acres developed that occurred within the urban footprint. This methodology better matches with the adopted target's aim to preserve agricultural and natural areas, rather than the population-based approach used in prior rounds. This was only possible due to the parcel-based nature of UrbanSim, which allows for the examination of individual development and redevelopment projects forecasted under each alternative.

**Adopted Target #7:** Decrease by 10% the share of low-income and lower-middle income residents' household income consumed by transportation and housing

In order to determine the share of residents' household income consumed by transportation and housing, we combine the outputs of both the transportation and land use models to more accurately determine the value. Both models are adjusted to identify costs for low-income households (defined as households with income between \$0 and \$30,000 [in year 2000 dollars]) and for lower-middle-income households (defined as households with income between \$30,000 [in year 2000 dollars]).

From the transportation model, all user costs are included in the cost calculation. This factors in the costs of maintaining and owning an automobile, purchasing transit fares and passes, and paying bridge and roadway tolls (among other user costs). These costs can be forecasted using MTC's travel model based on typical travel behavior for low-income and lower-middle-income residents and the model's assumptions about gas prices, toll fees, transit fares, etc. Additional documentation of the travel model can be found in the Travel Model One Data Summary supplemental report.

The housing cost methodology varied significantly throughout the planning process; detailed housing cost methodology information can be found in the Plan Bay Area Equity Analysis. That report also delves more deeply into affordability issues for low-income families in the region.

**Adopted Target #8:** Increase gross regional product (GRP) by an average annual growth rate of approximately 2% [+90% target for year 2035; +110% target for year 2040]

*Vision Scenarios:* An appropriate economic impact analysis model had not yet been developed for the region during this phase of Plan Bay Area. Therefore, results are not available for the vision scenarios.

Alternative Scenarios/EIR Alternatives: The gross regional product target calculation relied on the economic software package TREDIS, developed by Economic Development Research Group (EDRG), to estimate the gross regional economic output for the region. TREDIS reported employment for 54 industries based on the North American Industry Classification System (NAICS). The economic analysis measured the effects to the region from changes made to the transportation network and residential and nonresidential development patterns.

Existing regional models were used as model inputs to forecast gross regional product. First, ABAG's projections and land use data (generated by UrbanSim only as part of the EIR alternatives process) provided the geographic distribution of new residents and employment in the region; the changing land use pattern affects business operating

costs, agglomeration benefits, and the labor pool available for employers, among other factors. Second, Travel Model One data, which forecasts travel behavior and costs, enables the forecast to capture improved regional mobility that supports economic growth.

**Adopted Target #9:** Increase non-auto mode share by 10% and decrease automobile vehicle miles traveled per capita by 10%

Both non-auto mode share and VMT per capita targets are direct outputs of Travel Model One. First, all non-auto (transit, bicycle, and pedestrian) trips are summed and divided by the total number of regional trips to calculate non-auto mode share. Second, for each auto trip, the trip distance is calculated between the origin and destination; these distances are summed for all trips in the model and then divided by the regional population to calculate VMT per capita.

**Adopted Target #10:** Maintain the transportation system in a state of good repair:

- a) Increase local road pavement condition index (PCI) to 75 or better.
- b) Decrease distressed lane-miles of state highways to less than 10% of total lane-miles.
- c) Reduce share of transit assets past their useful life to 0%.

These state of good repair (SGR) targets are measured using post-processing methodologies (developed by MTC's Programming and Allocations section) to estimate the road and transit conditions in the future.

- Pavement condition index is calculated using a combination of MTC's pavement asset management software, StreetSaver (which projects roadway conditions), and the financial constraints of the alternative under analysis (which reflects funding available for maintenance). Existing pavement conditions are presumed to degrade over time as a result of traffic loads and weather-related stress unless funding is used to preventively maintain the roadways, or funding is used to rehabilitate or reconstruct already severely deteriorated roadways.
- Caltrans defines distressed lane-miles as lane-miles with "poor structural condition or poor ride quality". Caltrans also defines the methodology for determining the distressed lane-miles on the state highway system lane-miles are added to the metric when the wear-and-tear is estimated to cause that highway segment to be defined as "distressed", while lane-miles are subtracted from the metric when repairs or infrastructure replacement fixes structural or surface issues that causes them to no longer be defined as "distressed". Similar to the PCI methodology, MTC's travel mode assumptions regarding roadway

- improvements, combined with traffic levels to indicate wear-and-tear, are merged with financial constraints (which reflect funding for roadway repair and replacement) to estimate total distressed lane-miles.
- For the transit asset target, asset age can be estimated based on the amount of funding forecast to be available for transit capital replacement (MTC's Regional Transit Capital Inventory). Assets are weighted based on their costs, so replacement of higher priced transit assets yields greater impact towards the achievement of this target when compared to lower priced assets. Financial constraints dictate when particular operators are able to replace or retrofit vehicles. Additional related indicators, such as transit revenue service disruption caused by asset age, can be calculated using the TERM model developed by consultant Booz Allen Hamilton. That model is able to estimate the condition rating across the fleet using decay curves, based on data from the National Transit Database (NTD).

# APPENDIX B: Project Performance Assessment Regional Program Evaluation

In addition to individual transportation projects, regional programs were evaluated as part of the Plan Bay Area project performance assessment. These regional programs consist largely of MTC-led initiatives, in addition to three programs submitted for consideration by BAAQMD.

#### **MTC Programs**

- Lifeline Transportation Program
- Transportation for Livable Communities Program
- Regional Bicycle Program
- Climate Programs
  - 1. Electric Vehicle Strategy
  - 2. Public Outreach Campaign
  - 3. Incentive Programs
  - 4. Safe Routes to School
  - 5. Innovative Grants Program
  - 6. School and Youth Outreach
- New Freedom
- Transit Maintenance
- Local Streets and Roads Maintenance
- Freeway Performance Initiative

#### **Air District Programs**

- Solar Installations for Electric Vehicle Charging
- Truck and Motorcycle Retirement Program
- Heavy Duty Truck Replacement

# VMT-Based Methodology

Unlike other transportation projects, regional programs were not run through the travel model to calculate their cost-effectiveness (with the exception of the Freeway Performance Initiative, discussed below). As a result, the regional programs were evaluated "off model" using available research to estimate project benefits.

In consultation with the MTC program managers, staff estimated the VMT reduction associated with the regional program. The VMT reduction estimate was then used to calculate other benefits such as travel time, emissions, collisions, and noise; this process is described in greater detail below. While the methodology used to estimate the VMT reduction from each program varied, the methodology was used to quantify the nominal values for all associated benefits was consistent. Similar to the benefit-cost assessment for individual projects, calculated benefits were then compared to a future baseline scenario in which the program was not implemented.

In order to translate VMT reductions into other benefits, conversion factors were used to calculate the nominal values for each benefit. First, conversion factors were needed to use the estimated VMT of the project to estimate the nominal values for each benefit. Each nominal value (measured in metrics such as minutes, tons of pollutants, or

number of collisions) was divided by the annual auto VMT in the baseline to develop a ratio between total VMT and each benefit type. The annual VMT number was multiplied by this basecase ratio to derive the values for each benefit, as shown in the formula below:

$$Benefit(p) = [Benefit(b)/VMT(b)]*VMT(p)$$

p = values for program evaluated; b= values from Travel Model One baseline

Similar to the benefit-cost analysis for individual projects, these nominal benefit values were then multiplied by the previously-discussed monetization factors to obtain the monetized benefits from each program.

# VMT-Based Regional Program Analyses

#### <u>Lifeline Transportation Program</u>

MTC's Lifeline Transportation Program supports projects that address mobility and accessibility needs in low-income communities throughout the region. It is funded by a combination of federal and state operating and capital funding sources, including the Federal Transit Administration's Jobs Access and Reverse Commute Program, and state Proposition 1B Transit Capital and State Transit Assistance programs. The Lifeline Program was evaluated by first estimating the auto ownership reduction resulting from the program and then estimating the associated VMT reduction. That VMT reduction was used as the basis for calculating the program benefits.

Auto Ownership Formula: auto ownership reduced = (1.6 autos/household in transit-accessible urban areas - 1.57 autos/household in limited-transit urban areas) x (242,203 low-income households in communities of concern with urban densities in 2035) x (10% of those households who are able to postpone purchase of additional autos) x (\$3,747 annual cost per vehicle for low-income households in 2035)

#### References and Assumptions:

- Autos per household from 2000 Bay Area Travel Survey (BATS) and Station Area Residents Survey (STARS) report. Figures represent households who live in urban densities comparing those who live ½ mile to 1 mile from rail transit vs. those who live greater than 1 mile from rail transit.
- Number of households served based on staff analysis of March 2011 Current Regional Plans data using year 2000 Census-based Community of Concern (CoCs) definition:
  - o 2010 Community of Concern households = 776,502
  - o 2035 Community of Concern households = 1,042,562
  - o 2010 Low Income households in CoCs = 320,100
  - 2035 Low Income households in CoCs = 356,743

- o 2010 Low Income Households in CoCs with urban densities = 136,337
- o 2035 Low Income Households in CoCs with urban densities = 242,203
- Key assumption (given lack of existing research in this area): 10% of low-income households with urban densities (10,000+ persons/square mile) are able to postpone purchase an additional auto through better mobility options (postponing need to move from zero to one auto, or from one to two autos, per household)
- Average annual automobile ownership cost per vehicle for low-income households = \$2,392 total cost / 1.4 vehicles per household for low-income households = \$1,709 per vehicle (in year 2000 dollars) based on 2009 Bureau of Labor Statistics Consumer Expenditure Survey data
- 2000 dollars converted to 2009 dollars based on CPI-U for Bay Area (224.4 / 180.2) and then adjusted to 2035 dollars based on 2.2% annual inflation rate.

*VMT Reduction Formula:* VMT reduced = (727 autos forgone by low-income) households living in urban communities of concern) x (8,066 avg. annual VMT per auto) for low-income HHs) = 5,863,982 VMT/year

# <u>Transportation for Livable Communities (TLC) Program</u>

The Transportation for Livable Communities Program (TLC) program supports community-based transportation projects that bring new vibrancy to downtown areas, commercial cores, neighborhoods, and transit corridors, enhancing their amenities and ambiance and making them places where people want to live, work, and visit. The TLC Program supports invests in Priority Development Areas, designated areas in which there is local commitment to developing housing, along with amenities and services, to meet the day-to-day needs of residents in a pedestrian-friendly environment served by transit.

Formula: VMT reduced =  $(1,377,700 \text{ HH units in PDAs and GOAs in 2035}) \times (20 \text{ VMT/day}) \times (365 \text{ days/year}) \times (.039 \text{ VMT reduction attributable to design}) \times (25 \text{ years})$ 

Key assumptions include 20 VMT per day (average for all households within half-mile of a rail station or ferry terminal), 0.039 (VMT elasticity attributable for 4D design, as specified by the Smart Growth Index EPA report), and all PDA/GOA growth associated to take advantage of TLC program benefits.

# Regional Bicycle Program

There are a variety of estimates of increased bicycle usage from new infrastructure. Most of the available research that quantifies the change in bicycle trips resulting from a capital project is conducted for a specific improvement, such as a new Class I bike path. Quantifying the benefits of a regional program, which includes a variety of different types of capital projects, is more difficult. The Regional Bikeway Network identifies specific areas where connections are to be implemented, but it does not specify the types of facilities. Additionally, any observation of increase in trips is difficult to see since an observed increase in trips could be due to rerouting.

The evaluation was based on increase in the bicycle trips from a programmatic set of investments. Studies have a wide range of estimates for the increase of bicycle trips due to capital improvements; two studies were selected for the program evaluation. The Safe Routes to School evaluation in California showed increases up to 20% due to the program<sup>3</sup>. Another study in New Zealand showed the increase of cyclists up to 10%<sup>4</sup>. As such, the Regional Bicycle Program assumed an increase of bicycle trips by 20% due to the investments in the program.

Formula: VMT reduced = (0.2) x (398,292 Year 2035 bicycle trips) x (0.63 auto trips reduced per each new bike trip) x (2.3 miles per one way auto trip reduced) x (300 days per year)

# **Direct Benefits Methodology**

For the programs where VMT estimates were not available, or where VMT reduction does not reflect the benefits of the particular program, the direct benefits of the program were quantified instead. This is particularly necessary for programs that do not significantly affect VMT but still accrue benefits to the region – for example, air quality improvements from new technologies or state of good repair investments.

# Climate Program

The Climate Initiatives Program is a collection of initiatives that will help to reduce transportation related CO<sub>2</sub> emissions. Similar to the other MTC programs, the estimated benefits were based on the best available research of programs similar to the MTC Climate Initiatives Program. At the time of the performance assessment, many of the programs were not in place and the entire scope of the program was not yet known.

To calculate the benefit-cost of the program, CO<sub>2</sub> reduction estimates for the many proposed program elements were evaluated for a 5-year period (based on the lifespan of the initial program grant). Six programs were included in the Climate Initiatives Program as evaluated during the project performance assessment; because several programs were not assumed to have VMT or GHG benefits (while at the same time costs

<sup>&</sup>lt;sup>3</sup> Orenstein, Marla R., Gutierrez, Nicolas, Rice, Thomas M., Cooper, Safe Routes to School- Safety and Mobility Analysis. Institute of Transportation Studies, Berkeley, 2007.

<sup>&</sup>lt;sup>4</sup> McDonald, A.A., Macbeth, A.G., Ribeiro, K.M., & Mallett, D.S., Estimating Demand for New Cycling Facilities in New Zealand. Land Transport NZ Research Report 340. 124 pp. 2007.

were included for these programs), the analysis likely results in a conservative benefitcost ratio:

- 1. Electric Vehicle Strategy (no VMT/GHG reduction but costs included)
- 2. Public Outreach Campaign
- 3. Incentive Programs
- 4. Safe Routes to School
- 5. Innovative Grants Program (no VMT/GHG reduction but costs included)
- 6. School and Youth Outreach (no VMT/GHG reduction but costs included)

Key assumptions for each program are listed below for transparency:

- **Electric Vehicle Strategy:** includes incentives and/or vehicle retirement program, fleet purchasing, public charger installations, residential infrastructure incentives for multi-unit and family dwellings, HOV lane access, parking incentives, and/or "try it before you buy it" campaign
  - o Estimated cost: \$40 million over 10 years
  - Assume that regional programs result in an additional 195,100 vehicles (50/50 combination of BEVs and PHEVs) by 2020 (over baseline sales that are expected for the region)
  - Assume the PHEV's and BEV's are replacing average vehicles in California Air Resources Board (CARB) fleet mix
- **Public Outreach Campaign:** includes smart driving, active transportation, and/or trip reduction programs
  - Estimated cost: \$10 million over 6 years
  - o Smart Driving includes smooth acceleration and deceleration, driving at the speed limit, trip linking, regular vehicle maintenance, and/or using trip planning tools to avoid traffic, eliminate idling, remove vehicle weight, purchase low rolling resistance tires, and implement in car mpg meters
  - Active Transportation includes replacing short driving trips with walking or biking trips
  - o Trip Reduction includes carpooling and trip linking
  - Adoption rate is based on advertising dollars spent and the assumption that 10% of the population that stated that each behavior would be very easy or easy to adopt in a MTC survey will adopt the behavior
  - o Estimated daily CO2 reduction: 2,800 to 6,500 metric tons
- **Incentive Programs:** includes rebates for low rolling resistance tires, tire pressure monitor kits, buy back for older SUVs, in car MPG meters, and other incentive programs
  - o Estimated cost: \$5 million for incentives over 6 years
  - Key assumptions include: \$50 rebates = 100,000 sets of Low Rolling Resistance Replacement tires; \$2 tire pressure caps = 2,500,000 tire pressure caps installed; \$1,000 to buy back early model SUV's = 5,000 older SUV's (14

mpg) replaced with EV's; \$50 in vehicle MPG meters = 100,000 MPG meters installed

- Estimated daily CO2 reductions (assuming all funds spent on just one program): 32 metric tons (LRR tires), 277 metric tons (tire pressure monitors), 127 metric tons (SUV EV replacement), 440 to 757 (in-vehicle MPG meters)
- **Safe Routes to School:** includes infrastructure and education programs for K-12 schools
  - Estimated cost: \$25 million for 6 years
  - Regionwide program assumed to provide trip elimination benefits at one-half the rate of San Francisco and Marin SR2S programs
  - Estimated daily CO2 reductions: 81 to 100 metric tons
- Innovative Grants Program: includes demonstration projects to-be-determined
  - Estimated cost: \$31 million over 6 years
  - o Assume equivalent reductions to current innovative grant recipients
- School and Youth Outreach Programs: includes regional SR2S program and testing of innovative SR2S ideas
  - o Estimated costs: \$12 million over 6 years
  - Assume expansion of SR2S creative grants regionwide

#### New Freedom

The simplistic cost-effectiveness calculation for this project is based on cost savings associated with replacing a traditional paratransit trip with an alternative mode funded by this program (e.g. fixed route transit, volunteer driver programs, taxis, community shuttles).

Formula: benefit-cost ratio = (average cost of an ADA paratransit trip) / (average cost of a trip on an alternative mode) = 1.67

The benefit-cost ratio of 1.67 is consistent with research on the costs and benefits of travel training programs that teach senior and disabled riders to used fixed route rather than ADA complementary paratransit services. That research found an average benefit-cost ratio of 2.50 for travel training programs. The 2.50 figure is the benefit-cost ratio from the perspective of the public transportation provider (funder), given the assumption that the funder will garner the lowest benefit-cost ratio compared to the trainee and the community (Wolf-Branigin & Wolf Branigin, 2010).

# References and Assumptions:

Average cost of an ADA complementary paratransit trip = \$28.27

This figure is from MTC's Transit Sustainability Project Paratransit Primer, and represents the average cost per passenger trip for the large Bay Area transit

operators in 2010. For smaller Bay Area transit operators, the average cost per passenger trip is higher (\$33.02 in 2010). The more conservative cost figure was used in this calculation.

Average cost per trip on alternative modes = \$16.92

This figure is calculated using Federal Fiscal Year (FFY) 2010 New Freedom reporting data. For each trip-based or operations project, the cost per trip was calculated using the following formula: (amount of New Freedom funds spent in FFY 2010) / (number of trips provided in FFY 2010). This figure represents the average of all the cost per trip calculations.

#### **Transit Maintenance**

The benefits for this program were calculated with the same methodology used in *Transportation 2035*. As in the prior performance assessment, no research was available to practitioners that could capture the benefits of the program through a VMT reduction. The benefits of the program were calculated from the public benefit of avoided increases in rehabilitation and maintenance costs. This reflects only a small portion of the benefits of maintaining an operable transit system, such as increased system reliability leading to increased ridership, reduced congestion, reduced emissions, and increased mobility.

*Formula:* benefit-cost ratio = (projected replacement, rehabilitation, and maintenance costs if transit capital assets are operated to 150% of their standard useful lives and run to failure before repair) / (projected replacement, rehabilitation, and maintenance costs if assets are replaced at 100% of their standard useful lives and receive scheduled maintenance and rehabilitation) = 1.4

Surprisingly little research has been published that quantifies the benefits of replacing and rehabilitating transit capital assets. The public benefit of avoided increases in rehabilitation and maintenance costs was derived from an Army Corps of Engineers study which compared rehabilitation and maintenance costs for facilities over the life of the facility under two scenarios: Best Practices (performing all scheduled rehabilitation and maintenance), and Run to Failure (rehabilitation or repair only after component failure). At 150% of useful life (i.e. if the facility was operated 50% longer than the normal useful life before replacement), the cumulative rehabilitation and maintenance costs under the Run to Failure were 313% of cumulative costs at 100% of useful life under Best Practices.

This differential captures the effects both of operating the facility beyond the standard useful life and of failing to perform scheduled maintenance and rehabilitation, which is appropriate since the transit capital program includes both replacement and rehabilitation costs. Higher rehabilitation and maintenance costs are offset by lower replacement costs (from operating assets for 50% longer period before replacement).

Total capital costs (replacement + rehabilitation + maintenance) under the 150% of useful life/Run to Failure scenario are estimated to be 140% of total capital costs under the 100% of useful life/Best Practices scenario, i.e. \$400 in avoided additional costs for every \$1,000 invested in transit capital replacement and rehabilitation.

## **Local Streets and Roads Maintenance**

Similar to transit maintenance, the evaluation of the local road maintenance relied upon a methodology of avoided costs. The benefit derived from reducing the costs associated with deferring maintenance through increased levels of regional investment was measured by calculating the change in "maintenance backlog" between the first year of the analysis (2013) and the last year, for several regional investment scenarios (2038).

The City of Santa Rosa was selected as a proxy for the combined region. The city's mix of roadways and pavement condition resembles that of the combined region only on a smaller scale. Results from modeling done on Santa Rosa's pavement management database were scaled to represent the region by translating cost information into permile figures and then multiplying by the total regional mileage.

The level of existing revenue available for street and road maintenance in the region was calculated based on information provided by local jurisdictions in response to the Local Street and Road Need and Revenue survey. Additional revenue projections for gas taxes were made by MTC and included in the total revenue amounts; these additional revenues reflected the cost element of the benefit-cost ratio (in other words, the costs associated with improving roads from the local status quo approach).

To calculate benefits, two investment scenarios were compared – one which relies only on existing local investments to improve local street quality and one that provides an additional \$7 billion in regional contributions to improve pavement condition. The higher regional funding level is consistent with *Transportation 2035*.

Two primary benefits of roadway maintenance were captured as part of the local streets and roads maintenance B/C ratio:

• **Deferred Maintenance Benefit:** The benefits derived from reducing the costs associated with deferring maintenance through varied levels of regional investment were measured by calculating the change in maintenance "backlog" between the first year of the analysis and the last year. Backlog is the term used to describe the amount of maintenance that needs to be performed in order to bring the conditions of the street and road network up to an optimal condition—the point at which on-going maintenance of the LS&R network is the most cost-effective. Deferred maintenance benefits were forecasted using the StreetSaver pavement management system; approximately \$375 million in annual cost savings were forecast as a result of the regional investment, representing

\$344,000 in savings per lane-mile. Over the lifespan of the Plan, this would represent approximately \$14.6 billion in deferred maintenance cost savings.

• Vehicle Operating Cost Savings Benefit: Research shows that drivers incur additional vehicle operating and maintenance expense as a result of driving on poorly maintained roadways. The EVOC benefit can be measured as the amount of private costs saved over time by reducing the rate of deterioration in pavement condition with a greater level of regional investment. Key assumptions for the vehicle cost savings benefit are shown below; forecasted savings total to \$19.6 billion over the lifespan of the Plan as a result of regional funding.

Benefit-Cost Calculation: (deferred maintenance cost savings + vehicle operating cost savings)/ regional investment = (\$14.6 billion + \$19.6 billion)/(\$7 billion) = 5

## References and Assumptions:

- 50% of VMT occurs on local roadways (FHWA VMT data by roadway functional classification)
- 0.5% growth rate in number of Bay Area drivers (based on growth rate of drivers' licenses between 2000 and 2009)
- 1 point of PCI improvement associated with 5% cost savings for vehicle operating costs (based on The Road Information Program 2010 study aligned with metro area)

# Solar Installations for Electric Vehicle Charging

# <u>Truck and Motorcycle Retirement Program</u>

# **Heavy Duty Truck Replacement**

Three of the BAAQMD projects were evaluated by assessing the direct benefits of targeted programs with a specific focus to reduce pollutants of ROG, NOX, PM2.5 and CO2. BAAMQD provided the estimated pollutant reductions due to the implementation of each program, as these were the primary benefits of these vehicle emissions improvement projects. While the programs may have slight benefits for other benefit categories, these were not captured in the programs' benefit-cost ratios.

Air quality benefits were monetized using the same monetary values as used for individual projects in the project benefit-cost analysis process.

# **Hybrid Benefits Methodology**

#### Freeway Performance Initiative (FPI)

FPI required a hybrid methodology to consider the many different programs included within; some elements of FPI could be analyzed using the regional travel demand model (consistent with capacity-increasing projects) while others required off-model benefit estimations. The seven components, and their assessment methodologies, are listed below:

- Ramp Metering model-based analysis
- 2. Signal Coordination model-based analysis
- 3. 511 Rideshare VMT-based analysis
- 4. Freeway & Arterial ITS Infrastructure direct benefits analysis
- 5. Incident Management direct benefits analysis
- 6. Emergency Preparedness qualitative only (no monetized benefits)
- 7. 511 (other components of program) qualitative only (no monetized benefits)

*Model-Based Methodology:* Ramp metering and signal coordination were represented in the travel model and were coded as follows:

- For freeway ramp metering selected freeway segments were used as the basis for identifying which freeway segments would benefit from improvements.
- For arterial signal coordination, the simple assumption was made that every major arterial in the Bay Area received a FPI treatment.

The modeling methodology was consistent with all other projects undergoing model-based B/C assessment; key metrics for the project (e.g. travel time, travel cost, emissions) were compared to a no-build scenario to determine the regional impact of FPI. The travel model estimates benefits for ramp metering and signal coordination by assuming that freeways with ramp metering and arterials with signal coordination have an increased effective capacity (ranging between 2.5% and 10% by facility type).

VMT-Based Methodology: 511's Rideshare component was analyzed using a VMT-based off-model approach similar to that of other Plan Bay Area regional programs. A forecasted year 2035 VMT reduction due to 511's Rideshare tool (which enables individuals to form carpools, instead of driving alone) was used to calculate the metrics. As funding for employer outreach will be eliminated by 2035, the amount of VMT reduced in the future is expected to be smaller than today – this decline is reflected in the VMT forecast. VMT reduction due to carpooling was used as a proxy to forecast corresponding reductions in other key metrics, such as travel time and emissions, compared to the baseline conditions. The ratio of VMT due to the project was compared to the baseline, and values were calculated for metrics used in the B/C assessment. The total benefits for the project was the sum of the expected reduction and monetized values for performance metrics.

Direct Benefits Methodology: The source of the off-model/sketch planning benefit assumptions is the FHWA ITS Deployment Analysis System (IDAS). IDAS is a sketch-planning analysis tool developed by FHWA to analyze the benefits, costs, and impacts of ITS strategies. The impact values used within IDAS are based upon real-world evaluations and analyses of these investments. IDAS is designed as a post-processor to travel demand models and its method and analysis techniques are consistent with the travel demand modeling process. Within IDAS, there is a set of default impact values associated with Incident Management Systems, of which the ITS deployment characteristics are listed as being "Incident Detection/Verification" devices. These are the very same devices listed in the FPI elements going through the off-model/sketch planning exercise - namely, Freeway and Arterial ITS Infrastructure elements (initial deployment and ongoing operations, maintenance, and repair costs) and Incident Management strategies.

Within IDAS, the default value for reduction in all emissions rates is listed as 15% and the default value for reduction in fatality collisions is listed as 10%. While there is no direct % travel time reduction default value listed, there is a default value for reduction in incident duration of 9% listed, a default value associated with ramp metering in terms of an assumed capacity increase at affected freeway links of 9.5% and a default value associated with signal coordination in terms of an assumed capacity increase in the range of 8-13%. These default values, though not synonymous with a 10% travel time reduction, do provide an indication of what is going on in terms of reduction in travel time, non-recurring delay and overall levels of congestion. Moreover, 10% is still significantly lower than our own documented, empirical before & after travel time results, as well as many other ITS Infrastructure and Traffic Incident Management project evaluation results as listed in the ITS Benefits Database on the USDOT's Research and Innovative Technology Administration (RITA) website.

These IDAS travel time, emissions, and fatality collision reductions were only applied to the fraction of the roadway network assumed to benefit from FPI improvements. As ITS infrastructure improvements will occur on the same corridors that benefit from ramp metering and signal coordination, we relied on the Travel Model One coding for ramp metering and signal coordination to provide a rough estimate of this fraction. Based on the fraction of VHT corresponding to FPI-improved corridors, the IDAS benefits should be applied to 58.1% of regional travel time, emissions, and fatality collisions. To be conservative, it was only recognized travel time benefits to autos and trucks, even though transit vehicles traveling on these corridors would experience travel time savings due to ITS infrastructure and incident management.

# APPENDIX C: Project Performance Assessment Detailed Targets Assessment Criteria

This appendix documents the explicit methodology used to assign project performance assessment target scores. Example projects were selected for each project category to illustrate typical projects that received a range of target ratings, as well as common reasons for rating projects in a given way.

**Adopted Target #1:** Reduce per-capita CO<sub>2</sub> emissions from cars and light-duty trucks by 15%.

Projects supported the target if they resulted in a VMT reduction; provide an alternative to driving alone; or advance clean fuel vehicles. Projects were likely to result in increased VMT are assumed to have an adverse impact on the target.

# **Guidelines for Applying Criteria**

Transit, bicycle and pedestrian projects were expected to reduce VMT and were rated as supportive of the target. Larger projects, those likely to serve a large number of trips or serve longer trips, were rated as strongly supportive. Smaller projects, those likely to serve fewer trips or shorter trips, were rated as moderately supportive.

Projects that increased roadway capacity or were expected to increase VMT were generally rated as having a strong adverse impact on the target. Operational roadway projects, such as highway interchange projects, were not expected to increase VMT significantly since they did not add capacity and were generally rated as having minimal impact. Roadway projects that include transit, bicycle and pedestrian elements were scored to minimal or moderate support to recognize the impacts of these multi-modal elements.

#### **Examples**

Transbay Transit Center - Phase 2B (Caltrain Downtown Extension) received **strong support** due to the potential to reduce long car trips by attracting riders from the San Mateo peninsula to San Francisco.

*Irvington BART Station* received **moderate support** since it provided additional access to BART by the development of a new BART station with multi-modal access to the station. The vehicle trips that BART is expected to replace are shorter than the Caltrain trips.

*US-101 Broadway Interchange Improvements* was awarded **minimal impact** since the project is a road efficiency project that is not expected to increase VMT significantly.

*US-101 Widening (Monterey Street to SR-129)* received **strong adverse impact** for the target since it is a roadway expansion project that would make driving more attractive and increase VMT.

**Adopted Target #2:** House 100% of the region's projected growth by income level (very-low, low, moderate, above-moderate) without displacing current low-income residents.

The assessment of a project's impact on housing was dependent upon two criteria: potential for housing growth in the jurisdictions affected and those jurisdictions' past track record on affordable housing. The strongest support were for projects that were located in jurisdictions that had above average production for low and very low income housing and a high amount of housing planed in the future (10,000 units or greater).

# **Guidelines for Applying Criteria**

To determine a project's potential support for adequate housing, the level of planned housing growth in the Focused Growth scenario was examined. Projects affecting cities with less than 1,500 units of housing production were given no points, while projects affecting cities with more than 1,500 units of housing production received 0.5 points.

After this initial step, planned affordable housing production was examined – looking at jurisdictions' track records in achieving production of very-low and low income housing units compared to prior Regional Housing Needs Allocation (RHNA) cycles. Using data compiled from ABAG's housing report in 2007 "A Place to Call Home – Housing in the San Francisco Bay Area," the number of permitted units as a share of each jurisdiction's RHNA target was calculated by income level for years 1999 through 2006. Overall, 23 cities were identified that performed better than the regional averages for both very low (above 44%) and low (above 75%) income housing and 53 that were below the regional averages. Refer to Tables 1 & 2 in Appendix I for the city-specific data for this target.

Projects that were multi-county projects were given a score for both housing production and RHNA based on the individual cities and unincorporated areas. The overall county RHNA score was determined by the majority of projects in one category (above average, neither above or below, and below average). If 2/3 of the cities in a county had below average production, then the county would receive a -0.5. If there was not a clear majority of cities in one category, then the county would be scored minimal or o points. Some projects that were multi-county such as BART, Capital Corridor, or ACE were scored based upon the cities served by the projects in the same manner as described above.

The affordable housing RHNA scores shown below were added to the initial total housing production forecast cited earlier:

- above the regional average for very low and low income housing (0.5 points)
- neither above nor below the regional average (o points)
- below the regional average for very low and low income housing (-0.5 points)

#### **Examples**

Hercules Intermodal Station scored ½ point for expected growth (4,653) and got an additional ½ point for above average RHNA production, resulting in a target score of **strong support**.

BART Service Frequency Improvements received ½ point for housing production, since the counties that BART services have expected growth above 1,500 units. It did not receive any points for RHNA production, since the Bay Area as a whole scores o (there is not a clear majority of cities above or below the average). Therefore, it resulted in a score of **moderate support**.

BART to Livermore got strong support for housing units over 1,500 (½ point). The RHNA housing production for Pleasanton, Livermore, Dublin, and the unincorporated county is below average deducting a ½ point, resulting in an overall **minimal impact** score.

SR-1 Safety and Operational Improvements (Pacifica to Half Moon Bay) impacted communities with housing growth under 1,500 units and received 0 points from this. The RHNA past production is below average (-½ point), resulting in an overall **moderate adverse impact** score.

**Adopted Target #3:** Reduce premature deaths from exposure to particulate emissions.

- a) Reduce premature deaths from exposure to fine particulates (PM2.5) by 10%
- b) Reduce coarse particulate emissions (PM10) by 30%
- c) Achieve greater reductions in highly impacted areas

Projects support the target if they have the potential to reduce particulate (PM) emissions from vehicles by reducing VMT or providing an alternative to driving alone. Projects likely to increase VMT are assumed to have an adverse impact on the target.

# Guidelines for Applying Criteria

Because the criteria for target 3 are nearly identical to those for the CO2 reduction target and because the particulate targets were focused largely on tailpipe emissions which correlate with CO2 emissions, projects generally received the same rating for these targets as they did for CO2 reduction.

# **Examples**

MTC Regional Bikeway Network was expected to reduce PM emissions due to the increase of bicyclists in the region utilizing new bike facilities. The development of a regional network would close gaps between county lines and provide connections to transit and downtown areas. Therefore, the project received a score of **strong support** for the target.

BAAQMD Electric Vehicle Solar Installation Program got a score of strong support to reduce CO2 emissions by providing an incentive to increase the use of emission free vehicles, but it has **minimal impact** for PM reduction, since electric vehicles still generate PM through tire wear and brake dust.

**Adopted Target #4:** Reduce by 50% the number of injuries and fatalities from all collisions (including bike and pedestrian)

There is a positive correlation between increased VMT and collisions for all modes of transportation. Despite advances in safety countermeasures on roadways and safety technology in vehicles, vehicle collisions remain one of the leading causes of death for children. An estimate of 30,000 people a year dies in vehicle collisions. In recent years, this number has declined slightly; decreases in VMT have correlated with decreases in collisions. Projects that reduced VMT or explicitly provided a safety benefit by building infrastructure that reduced vehicle-to-vehicle collisions or bicycle/pedestrian collisions are rated as supportive of the target.

# **Guidelines for Applying Criteria**

Similar to the criteria used for CO2 reductions, projects that increased vehicle use through increased capacity were deemed to be detrimental to safety. Projects that provided alternatives to the auto received support for collision reduction. A project would be supportive of the target if it included an explicit countermeasure for reducing crashes. Operational improvements such as braided ramps, auxiliary lanes that reduced vehicle conflicts received positive support for the target. Transit projects that were specific to reducing train crashes such as Caltrain's Positive Train Control System (PTS) and at-grade improvements such as improved vehicle crossings received strong support. For the analysis, any infrastructure that removed vehicles from the roadway were expected to decrease collisions. No attention was given to certain types of localized infrastructure (such as off-street bicycle paths or median islands) for which such detailed information was not available.

# **Examples**

BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara) represented a major expansion of the heavy rail BART system and was therefore expected to reduce

driving. With the reductions in VMT and more vehicles removed from the roadway, the project received a **strong support** rating for collision reduction.

Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) was expected to attract more riders to transit and reduce the number of vehicles on the roadway. As it is smaller in scale than the major BART expansion to Santa Clara County, it only received a **moderate support** rating.

*SR-12 Jameson Canyon Project (Phase 3: New SR-12/SR-29 Interchange)* included a significant roadway expansion components; therefore, it received a moderate adverse impact score for CO2 reduction but scores a **moderate support** rating for collision reduction. As part of the project interchange improvements, it included operational improvements that are expected to result in reduced vehicle-to-vehicle crashes.

*SR-4 Upgrade to Full Freeway (Phase 2: Cummings Skyway to I-80)* provided capacity increases that are expected to increase total driving. As a result, it scores a **strong adverse impact** rating for encouraging driving, as well as for increasing vehicle speeds.

**Adopted Target #5:** Increase the average daily time walking or biking per person for transportation by 70% (for an average of 15 minutes per person per day).

Projects that provide infrastructure for bicycles and pedestrians, such as on- and offstreet bicycle facilities, bike parking, and sidewalks are supportive of this target. Projects that are expected to increase auto trips have an adverse impact.

# **Guidelines for Applying Criteria**

Projects that would increase auto trips would not be supportive of the target and would adversely affect conditions for cycling or walking trips by making driving easier – similar to the evaluation of projects for the CO2 target. The additional car trips would put more vehicles on the road and would increase conflicts between vulnerable users. Investments in capacity-increasing projects, such as highway widening, would not promote land uses that would be conducive to compact development that would foster walking, cycling and transit use.

Roadway projects that included significant bicycle and pedestrian elements, such as highway on/off ramps that reduced vehicle-to-bicycle conflicts and overcrossings that included bicycle lanes, were supportive of the target. Transit projects were among the projects that were the most supportive of increasing active transportation since many people access transit services by walking and biking. Additionally, transit users are more likely to walk or bike once they reach their destination, as they do not have an automobile with them.

#### **Examples**

Marin Countywide Bus Service Frequency Improvements would make bus service throughout the county more frequent and increase ridership by making the bus a more attractive option. More people would walk to the bus and leave their vehicles at home, resulting in **strong support** for this target.

*US-101 Broadway Interchange Improvements* would expend most of its funds on US-101 where bicycles and pedestrians are prohibited; it did not include an overcrossing that improves access for active modes. With new bike lanes and sidewalks over the highway, the project provided **moderate support** towards the target.

*SR-1 Safety & Operational Improvements (Pacifica to Half Moon Bay)* only improved conditions for vehicles on highway 1 and did not include specific bike and pedestrian improvements. As a result, it received a **minimal impact** score for the target, in contrast to the project above.

*US-101 Widening (Monterey Street to SR-129)* added additional vehicle capacity to US-101 from Gilroy to the Santa Cruz County line. As a result of the exclusive focus on cars and resulting VMT increases, this project scored a **strong adverse impact** score.

**Adopted Target #6:** Direct all non-agricultural development within the urban footprint (existing urban development and urban growth boundaries)

Projects that do not consume open space or agricultural lands support the target. Projects that improve access to agricultural lands support the target because they maintain economic viability of those lands; this is consistent with requirements in SB 375. Plan Bay Area must show how farmland is preserved from urban development and issues like access for farm to market are considered. Projects that directly consume open space or agricultural land have an adverse impact.

# **Guidelines for Applying Criteria**

Projects that helped to promote infill development are given a supportive rating for this target, as developing or redeveloping existing urban areas reduced the demand for sprawling developments at the fringe of the region; reduced fringe development decreases the pressure on agricultural lands to convert to residential use. Supportive projects could include investments in transit that provide connections to city centers and foster development in these areas. Transit projects that served large populations tended to show the best support of the target.

Support for the target was also given for improved access to agricultural lands. Highway projects that connected agricultural lands to urban areas were supportive of the target since these projects could foster improved goods movement by trucks to their

destination. A project would be considered adverse to the target if it would require new right-of-way in previously undeveloped open space or agricultural land. Projects that resulted in a road widening but would use existing developed right-of-way did not have an effect on the target. This target did not consider the adverse impacts of development pressure from conversion of agricultural land to housing, as this was in indirect effect. Only the direct effects of the projects were considered for adverse impacts, such as the amount of open space or agricultural land being consumed by the project.

#### **Examples**

*BART Metro* improved the services within the BART's system urban core, attracting more riders and decreasing regional VMT. As more people use the system, development in and around the stations will continue to reduce the need to develop in open space and agricultural land; as a result, this project was in **strong support** of the target.

MTC Freeway Performance Initiative made the highway network more efficient by reducing delay and improving travel times through Intelligent Transportation System (ITS) improvements. Goods movement by trucks delivering agricultural goods from farm to market would be improved, provided **moderate support** of the target.

*SR-113 Relocation out of Dixon* expanded an existing state route by diverting it through an area surrounded by agricultural land. However, the project would use existing right-of-way from a local road, rather than consuming undeveloped land. Therefore, the project received a **minimal impact** rating.

*New SR-152 Alignment* constructed a new highway alignment through open space and agricultural lands; as such, the project is rated as having a **strong adverse impact** for the target.

**Adopted Target #7:** Decrease by 10% the share of low-income and lower-middle income residents' household income consumed by transportation and housing

Projects supported the target if they included transit enhancements that provided a lower-cost transportation alternative to driving. The degree of support varied based on the operator's current low-income ridership.

# **Guidelines for Applying Criteria**

Transit projects were determined to provide a lower-cost alternative to auto ownership and were supportive of this target. Transit projects were assessed based on the percentage of the region's total low-income riders and the proportion of low income riders served by the operator. The percentages of low-income riders were based on the Transit Demographics Survey and the 2011 Statistical Summary of Bay Area Transit Operators; refer to Table 3 in Appendix I.

Transit operators' projects received a strong support rating if low-income riders constitute over 40% of system ridership or if the operator serves more than 10% of the region's low-income transit riders. Transit operators' projects received a moderate support rating if serves more than 0.5% of the region's low-income transit riders; transit projects for operators with less than this threshold received a minimal impact rating.

By awarding strong support to operators that have a high share (over 40%) of low-income riders, this acknowledges that many small operators provided service to low-income groups but carried a smaller share of the region's total low-income ridership. It also rewarded the larger operators that carried a high number of the region's low-income population. No adverse rating was given for highway projects that did not provide low-cost options, since these projects did not take away choices for low- and middle-income residents.

By their nature, bicycle and pedestrian projects provided a lower cost alternative to auto ownership since the operations and maintenance of a bicycle is substantially less than a car. Projects that encouraged these modes of travel were supportive of this target.

#### **Examples**

BART Station Access Improvements would improve the bicycle, pedestrian, transit, and car access to various BART stations making it easier to get to the station and use the system. While low-income riders only constitute 14.5% of BART's total ridership, as an operator BART carries 10.7% of the region's total low income transit users. Therefore, BART projects received a **strong support** rating for this target.

Golden Gate Bus Service Frequency Improvements would boost bus service in Sonoma, Marin, and San Francisco counties. Golden Gate Transit's low income riders make up 23.8% of the total ridership, that lead to a **moderate support** rating for the target; the project is ineligible for the strong support rating because, as a smaller operator, it only carries 1.6% of the region's total low income transit riders.

Petaluma Cross-Town Connector/Interchange added an additional arterial segment improving connectivity for autos from the town to the freeway. This project did not include a bicycle, pedestrian, or transit component; as a result, it received a **minimal impact** score as it does not degrade or improve service on any of those modes.

**Adopted Target #8:** Increase gross regional product (GRP) by an average annual growth rate of approximately 2% (in current dollars) [+90% target for year 2035; +110% target for year 2040]

Currently congested corridors are detrimental to economic vitality; economic studies show projects that provide congestion relief and improve access to employment centers have the strongest long-term impact on productivity, and thus are rated as supportive of the target. Improved access to ports or truck corridors is also supportive of the target.

# **Guidelines for Applying Criteria**

Highway projects expected to provide relief by either providing expansion or operational improvements received strong or moderate support depending upon the level of current congestion. Transit projects that would be expected to remove vehicles from the congested corridor were also supportive of the target. No project was in opposition of the target, since a project would be unlikely would be make traffic conditions worse.

# **Examples**

*SR-4 Bypass Completion (SR-160 to Walnut Avenue)* would construct a new bypass would help to relieve traffic congestion in one of the most congested corridors in the Bay Area. As such, the project had **strong support** for economic vitality.

*I-58o/I-68o Interchange Improvements (Phase 1)* would improve the interchange between two major Bay Area freeways, primarily through operational improvements. Interstate 580 is one of the most chronically congested corridors in Alameda County. This project received only **moderate support** for the target since the interchange improvements were not expected to relive large amounts of congestion without capacity increases.

*SR-1 Widening (Fassler Avenue to Westport Drive)* added capacity to State Route 1, but it did not relieve a congested segment. Therefore, the project had **minimal impact** on this target.

**Adopted Target #9:** Increase non-auto mode share by 10% and decrease automobile vehicle miles traveled per capita by 10%

Criteria for this target are similar to those for the CO2 and PM targets. Projects that provide alternatives to the single occupant vehicle such as public transit or bicycling/walking were determined to be supportive. Projects that increase the use of single occupancy vehicles were determined to have an adverse impact.

# **Guidelines for Applying Criteria**

See discussion under CO2 target for guidelines used to assess whether a project was likely to increase VMT. Transit projects received support for this target if they provided frequency or operational improvements that would make transit service more convenient and appealing. Projects that provided bicycle and pedestrian infrastructure and encourage a decrease in the auto were also supportive.

#### **Examples**

Geary Boulevard BRT would run bus rapid transit service along a major east-west corridor in San Francisco, improving the travel time of the bus service and attracting riders from auto modes. As such, it provided **strong support** for the target.

Vasona Light Rail Extension (Phase 2) is an extension of the existing light rail service to the town of Los Gatos. Given its shorter length and service of a town with a much smaller number of residents, it would not serve as many people as Geary BRT project; therefore it only received a **moderate support** rating for the target.

*I-80/I-680/SR-12 Widening & Interchange Improvements (Phase 1)* focused on operational improvements for drivers, but some minor improvements would benefit a limited number of bicyclists and pedestrians. Therefore, it received a rating of **minimal impact**.

*SR-84/I-680 Interchange Improvements* + *SR-84 Widening (Jack London to I-680)* included vehicle operational improvements to the interchange, in combination with many miles of capacity increases along SR-84 and therefore it has a **moderate adverse impact** for this target.

Pacheco Boulevard Widening (Blum Road to Arthur Road) is a road expansion that would only benefit autos. It had a negative effect on bicyclists, pedestrian, and transit since the expansion of the auto network results in increased auto use; as such, the project had a **strong adverse impact** on the target.

**Adopted Target #10:** Maintain the transportation system in a state of good repair:

- a) Increase local road pavement condition index (PCI) to 75 or better.
- b) Decrease distressed lane-miles of state highways to less than 10% of total lane-miles.
- c) Reduce share of transit assets past their useful life to 0%.

Projects that specifically improve the roadway condition or replace transit assets were shown as supportive of this target.

# **Guidelines for Applying Criteria**

Most projects received a minimal rating for this target. Only projects that were specific maintenance projects such as road rehabilitation or transit maintenance facilities were supportive of the target. The increased burden of additional maintenance from expanded transit service or additional lane miles of roadways resulting from highway expansion was not considered.

#### **Examples**

Local Streets and Roads Capital Maintenance Needs would provide maintenance and rehabilitation of roads throughout the Bay Area. As it would significantly increase the local roadway pavement condition index, it had **strong support** for the target.

Rio Vista Bridge Reconstruction & Realignment rehabilitated an existing local bridge; as such, it scored a **moderate** ranking for the target.

*I-80 Yerba Buena Island Interchange Improvements* improved an interchange near the new San Francisco-Oakland Bay Bridge east span. Despite the number of roadway improvements included in this project, the project did not specifically rehabilitate current infrastructure and received a rating of **minimal impact**.

# APPENDIX D: Project Performance Assessment Benefit-Cost Sensitivity Testing

Sensitivity testing is an important element of any analytical analysis; it allows for a better understanding of potential limitations for the quantitative results. Key assumptions – in this case, primarily the monetary valuations for specific benefits such as time saved or human lives saved – can have a substantial impact on the results. By examining how changes to these assumptions might alter the results, we can examine the strength of the results before drawing conclusions.

The following sensitivity assessments were performed in order to measure how the analysis results could be affected by changes in methodological and technical assumptions:

- 1. Valuing nonrecurring delay at three (3) times the travel time value
- 2. Adjusting transit operations and maintenance (O&M) costs to reflect potential cost savings
- 3. Valuing CO2 at a substantially higher value of \$178.33 per ton
- 4. Slightly adjusting collision valuations to match USDOT standards for the value of life
- 5. Increasing the noise valuation
- 6. Decreasing travel time valuations substantially

For each sensitivity test, detailed tables present the total annualized benefits, total annualized costs, benefit-cost (B/C) ratio, and ranking from highest B/C to lowest, for both the original B/C assessment and then adjusted to reflect the impact of the particular sensitivity test. The B/C ratios are color coded according to high, mediumhigh, medium-low, and low ratings using the same categories from the original assessment. In addition, summary tables are provided for each sensitivity test, highlighting projects with significant changes to their B/C ratios, B/C ranking, and/or B/C rating.

Of the sensitivity tests performed, only changes to the travel time valuation had any substantial impacts. Its primary role in the total benefits for many projects led to significantly lower B/C ratios for most projects analyzed, with the greatest reductions for road projects highly dependent on travel time savings for their resulting cost-effectiveness. However, the overall ranking is relatively unaffected even by lower valuations of travel time; as the ordinal ranking is more important than the nominal values for identifying outliers (high- and low-performers), this does not appear to be a major analytical sensitivity issue for the benefit-cost results. Instead, the sensitivity tests highlight the relative strength of the quantitative analysis in ranking potential Bay Area transportation investments.

# Valuing Nonrecurring Delay at Three Times the Value of Travel Time

#### **Test Rationale**

The *Transportation 2035* benefit-cost analysis used a value equal to three times the recurring in-vehicle travel time. More recent research under the Strategic Highway Research Program (SHRP) suggests a lower valuation – in the range of 0.9 to 1.2 times the value of recurring in-vehicle travel time – is more appropriate for application to non-recurring travel time. Therefore, the benefit valuation for non-recurring travel time delay for the Plan Bay Area performance assessment was set to a value equal to the value used for recurring travel time to reflect this new research. For this sensitivity test, nonrecurring delay was valued at three times the travel time value, consistent with the *Transportation 2035* performance assessment.

#### **Key Impacts for Specific Projects**

As visible in Table D7 (included at the end of this chapter), this sensitivity test resulted in some shifting of projects within the B/C ratings and rankings:

- Three projects, SR-85 Auxiliary Lanes, Silicon Valley Express Lanes Network, and CTC Application + Alameda County Authorized Lanes Express Lanes Network, shifted from medium-high B/C rating to high with B/C ratios more than doubling the original B/C value for two of the cases. Two of these projects also realized the greatest movement in the rankings with the Silicon Valley Express Lanes project moving from a rank of 17 to 5 and CTC Application + Alameda County Authorized Lanes Express Lanes Network moving from 20 to 11.
- BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara) and SR-84/I-680 Interchange Improvements + SR-84 Widening (Pigeon Pass to I-680) also moved up in their tiering from medium-low to medium-high.
- Two of the project B/C ratings shifted downward, from medium-low to low, Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3) and Parkmerced Light Rail Corridor. The Fairfield/Vacaville station project decreased in rankings from 31 to 63. This degradation in project performance is due to both projects having substantial disbenefits from non-recurring delay.
- Dumbarton Transit Corridor (Phase 2: Commuter Rail) shifted from low to medium-low rating.

The key changes in B/C results are shown in Table D1.

TABLE D1: KEY B/C CHANGES FOR NON-RECUR. DELAY SENSITIVITY TEST

Alt	RTPID#	Alternative	Mode	County	Original Total Annualized Benefits (in millions of 2013 dollars)	Adjusted Total Annualized Benefits (in millions of 2013 dollars)	Original Total Annualized Costs (in millions of 2013 dollars)	Adjusted Total Annualized Costs (in millions of 2013 dollars)	Original B/C	Adjusted B/C	Percent Change B/C	Original Rank	Adjusted Rank
		Silicon Valley Express Lanes		Multi-									
Alt36	HOTd	Network	Network	County	\$408	\$1,216	\$70	\$70	6	17	198%	17	5
Alt49		CTC Application + Alameda County Authorized Lanes Express Lanes Network		Multi- County	\$602	\$1,426	\$118	\$118	5	12	137%	20	11
Alt61	22009	Capitol Corridor Service	Transit Efficiency	Multi-	\$1	\$2	\$18	\$18	0.1	0.1	84%	75	75
Alt1	-	Marin-Sonoma Narrows (Phase 2: HOV Lanes)		Multi- County	\$20	\$32	\$18	\$18	1	2	60%	58	43
Alt25		SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Road Efficiency	Santa Clara	\$81	\$120	\$12	\$12	7	10	48%	12	12
Alt23		SR-84/I-680 Interchange Improvements + SR-84 Widening (Pigeon Pass to I-680)	Highway Expansion	Alameda	\$87	\$109	\$21	\$21	4	5	25%	26	22
Alt74		Dumbarton Transit Corridor (Phase 2: Commuter Rail)	Transit Expansion	Alameda	\$31	\$36	\$36	\$36	0.8	1	17%	62	58
		BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa		Santa									
Alt13	240375	Clara)	Transit Expansion	Clara	\$324	\$357	\$70	\$70	5	5	10%	23	23
Alt91	98207T	Access Improvements	Transit Efficiency	Alameda	\$14	\$13	\$2	\$2	6	6	-5%	14	20
Alt55		Parkmerced Light Rail Corridor	Transit Efficiency	San Francisco	\$6	\$4	\$5	\$5	1	0.9	-37%	52	62
Alt56		Oakdale Caltrain Station		San	\$3	\$2	\$1	\$1	4	3	-42%	25	34
Alt51	21341	Fairfield/Vacaville Capitol	Transit Efficiency	Solano	\$2	\$1	\$1	<b>\$1</b>	3	0.8	-72%	31	63

# **Key Impacts by Project Type**

Highway Expansion: B/C ratios increased nominally for all of the highway expansion projects. There were no significant changes in rankings, except for SR-239 Expressway Construction (Brentwood to Tracy) which decreased from a ranking of 11 to 15, mostly as a result of other projects improving.

Road Efficiency: B/C ratios increased moderately for road efficiency projects. The most significant improvement in ranking was for Marin-Sonoma Narrows (Phase 2: HOV Lanes) which increased in B/C from 1 to 2 and a ranking of 58 to 43.

*Transit Efficiency:* B/C ratio changes were mixed for transit efficiency as a result of this sensitivity test. Two projects ratings decreased from medium-low to low (Fairfield/Vacaville Capitol Corridor Station and Parkmerced Light Rail Corridor).

Transit Expansion: Impacts of the sensitivity text on transit expansion was nominal.

# **Adjusting Transit O&M Costs**

#### **Test Rationale**

For this test, O&M costs were adjusted to reflect a ten percent reduction in projects' gross O&M costs (due to potential cost savings from MTC's Transit Sustainability

Project). Net O&M costs for these projects were then recalculated using the same farebox recovery ratios.

# **Key Impacts for Specific Projects**

Table D8 presents the results of this adjusted transit O&M cost sensitivity test. Few projects were impacted by this test but two projects did shift in rating, BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara) and Historic Streetcar Expansion Program, improved from the medium-high to high and low to medium-low rating, respectively. The Alameda-Oakland BRT + Transit Access Improvements project improved in ranking from 14 to 11. The key changes in B/C are shown in Table D2.

TABLE D2: KEY B/C CHANGES FOR TRANSIT O&M SENSITIVITY TEST

Alt	RTPID#	Alternative	Mode	County	Original Total Annualized Benefits (in millions of 2013 dollars)	Adjusted Total Annualized Benefits (in millions of 2013 dollars)	Original Total Annualized Costs (in millions of 2013 dollars)	Adjusted Total Annualized Costs (in millions of 2013 dollars)		Adjusted B/C	Percent Change B/C	Original Rank	Adjusted Rank
Alt13	240375	BART to San Jose/Santa Clara	Transit Expansion	Santa Clara	\$324	\$324	\$70	\$64	5	5	-8%	23	22
Alt62	22415	Historic Streetcar Expansion	Transit Efficiency	San	\$9	\$9	\$9	\$9	0.9	1	-11%	61	59
Alt91	98207T	Alameda-Oakland BRT + Transit	Transit Efficiency	Alameda	\$14	\$14	\$2	\$2	6	7	-11%	14	11
Alt63	230055	Golden Gate Ferry Service	Transit Efficiency	Multi-	\$6	\$6	\$4	\$4	1	2	-16%	53	50
Alt86	00MUNI	Muni Service Frequency	Transit Efficiency	San	\$25	\$25	\$14	\$12	2	2	-17%	43	40
	-	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond,		Multi-									
Alt9	230581	Hercules, and Redwood City)	Transit Expansion	County	\$41	\$41	\$22	\$19	2	2	-18%	41	38
	240521,	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to		Multi-	4	4	4000	4400					
Alt34	21627	Tamien)	Transit Efficiency	County	\$272	\$272	\$220	\$183	1	1	-21%	55	51

# Key Impacts by Project Type

Highway Expansion: No impact.

Road Efficiency: No impact.

Transit Efficiency: The B/C ratios remained the same or had minor improvements for several of the transit efficiency projects. There were no significant changes in rankings with the most significant improvement coming from the Alameda-Oakland BRT + Transit Access Improvements project which increased from a ranking of 14 to 11.

Transit Expansion: This sensitivity test resulted in nominal improvements to transit expansion projects.

# **Valuing CO2 at \$178.33**

#### **Test Rationale**

The value of carbon dioxide emissions in the *Transportation 2035* project assessment, conducted in 2008, was based on guidance issued in December 2007 by the United Kingdom Department for Environment, Food and Rural Affairs. For consistency with other regional plans, the current RTP performance assessment CO2 valuation was obtained from the Bay Area Air Quality Management District (BAAQMD), and uprated for future years to reflect the additional damage caused by incremental accumulation of CO2 over time. This sensitivity test reflects the substantially greater valuation of CO2 developed in the United Kingdom (\$178.33/metric ton), indicating how relying on a higher value of CO2 emissions might affect B/C ratios.

# **Key Impacts for Specific Projects**

B/C ratios and ranking changes were minimal as a result of this test, as seen in Table D9. Climate Initiatives (5-year program) resulted in a significant change with a B/C increase from 1 to 4 and a ranking increase from 50 to 27. The EV Solar Installation [BAAQMD program] also realized an improvement in rating from low to medium-low, a B/C increase from 0.8 to 2, and an increase in ranking from 64 to 43. The key changes in B/C are shown in Table D3.

Adjusted **Original Total** Total **Original Total** Total Annualized Annualized Annualized Benefits (in Benefits (in Costs (in Costs (in millions of millions of Climate Initiatives (5-year Alt100 230550 Climate Regional program) asona Light Rail Extension Alt48 98119 Santa Clara \$0.1 \$0.4 \$6 \$6 163% Transit Expansion 76 (Phase 2) V Solar Installation [BAAQMD \$2 143% Regional orogram] R-29 HOV Lanes & BRT (Napa \$11 \$10 Road Efficiency unction to Valleio)

TABLE D3: KEY B/C CHANGES FOR CO2 SENSITIVITY TEST

### **Key Impacts by Project Type**

*Highway Expansion:* The B/C impacts on the highway expansion projects were mixed with some projects slightly increasing and others decreasing. The most significant change is to the ranking of the SR-4 Bypass Completion project which decreased from 42 to 50.

Road Efficiency: Impacts were also mixed for road efficiency projects with almost no significant impact on the B/C ratios or rankings.

*Transit Efficiency:* All of the transit efficiency projects either remained the same or slightly improved the B/C ratio as a result of this sensitivity test.

*Transit Expansion:* This sensitivity test resulted in either no or nominal improvements to transit expansion projects.

#### Valuing Collisions at U.S. DOT Economic Values

#### **Test Rationale**

This sensitivity test involved adjusting the values of collisions to reflect those used for the U.S. DOT. Per the U.S. DOT's Treatment of the Economic Value of a Statistical Life in Departmental Analysis- 2011 Interim Adjustment memorandum dated July 2011, fatalities are valued at \$6.2 million in 2011 dollars with a 1.6 percent annual growth rate. Injury and property damage only (PDO) rates are not directly provided, so the percentages of injury and PDO to fatal accidents from the Caltrans Life-Cycle Benefit-Cost Analysis - Economic Parameters 2010 were used to compute the values for injury and PDOs.

# **Key Impacts for Specific Projects**

As shown in Table D10, this sensitivity test had virtually no impact on the B/C ratios and rankings. SR-4 Bypass Completion (SR-160 to Walnut Avenue) resulted in the most substantial change, an improvement in rankings from 42 to 39. The key changes in B/C are shown in Table D4.

TABLE D4: KEY B/C CHANGES FOR COLLISION SENSITIVITY TEST

Alt	RTPID#	Alternative	Mode	County	Original Total Annualized Benefits (in millions of 2013 dollars)	Adjusted Total Annualized Benefits (in millions of 2013 dollars)	Original Total Annualized Costs (in millions of 2013 dollars)	Annualized Costs (in millions of	Original B/C	Adjusted B/C	Percent Change B/C	Original Rank	Adjusted Rank
		Vasona Light Rail Extension											
Alt48		(Phase 2)	Transit Expansion	Santa Clara	\$0.1	\$0.3	\$6	\$6	0.0	0.0	101%	76	76
		Union City Commuter Rail Station	-										
		+ Dumbarton Rail Segment G											
Alt45	230101	Improvements	Transit Efficiency	Alameda	-\$0.1	-\$0.03	\$2	\$2	(0.0)	(0.0)	67%	77	77
		SR-4 Bypass Completion (SR-160											
Alt73	22605	to Walnut Avenue)	Highway Expansion	Contra Costa	\$15	\$17	\$9	\$9	2	2	12%	42	39
			Express Lanes										
Alt49	НОТе	Express Lanes Network E	Network	Multi-County	\$602	\$594	\$118	\$118	5	5	-1%	20	21
			Express Lanes										
Alt36	HOTd	Network	Network	Multi-County	\$408	\$391	\$70	\$70	6	6	-4%	17	18

# **Key Impacts by Project Type**

*Highway Expansion:* The collision valuation sensitivity test resulted in no or very little reductions in B/C ratios for highway expansion projects.

*Road Efficiency:* Impacts were mixed for road efficiency projects with almost no impact on the B/C ratios or rankings.

*Transit Efficiency:* The transit efficiency projects either remained the same or slightly decreased the B/C ratio as a result of this sensitivity test.

*Transit Expansion:* This sensitivity test resulted in either no or nominal disbenefits to the B/C of the transit expansion projects.

# Valuing Noise at a Higher Level

Noise benefits were valued at a level five times greater to reflect more of the health impacts associated with the projects. As there was no available literature indicating a specific higher value to use, we assumed a very significant increase noise benefit valuation to determine the maximum impact such a revision could cause. As shown in Table D11, this test resulted in almost no impacts to the B/C ratios and rankings. The key changes in B/C are shown in Table D5.

Adjusted Adjusted **Original Tota** Original Total <u>Annualized</u> Annualized Annualized Annualized Benefits (in Benefits (in Costs (in Costs (in millions of millions of millions of millions of asona Light Rail Extension 98119 (Phase 2) Expansion \$0.1 \$0.2 \$6 19% Union City Commuter Rail Statio Dumbarton Rail Segment G -\$0.1 \$2 Improvements

TABLE D5: KEY B/C CHANGES FOR NOISE SENSITIVITY TEST

# Decreasing Travel Time Valuations by 30% and 50%

#### **Test Rationale**

The value of time used in the project performance assessment is equal to one half the median wage rate of Bay Area residents. The value of travel time was reduced first by 30 percent and then by 50 percent for this sensitivity test. The 30 percent reduction is approximately equivalent to half the median post-tax wage rate of Bay Area residents. The 50 percent test reduction attempted to see how a very significant reduction in travel time benefit valuations might affect benefit-cost ratios and project rankings.

# **Key Impacts for Specific Projects**

Tables D12 and D13 present the results of this test. This test resulted in the most significant impacts to the B/C ratios and rankings:

• In the case of the 30 percent reduction test, two high rated projects were reduced to medium-high level and ten medium-high level projects decreased to medium-low (all but two of the projects in that B/C tier). Additionally, four projects shifted from medium-low to low.

- For the 50 percent travel time reduction test, six high level projects decreased to medium-high, ten medium-high rated projects decreased to medium-low, and eight medium-low projects shifted down to low.
- The Silicon Valley Express Lanes Network project realized the greatest impact as a result of the travel time adjustments with the B/C ratio in the 50 percent test decreasing from six to one, a reduction in the rankings from 17 to 51.
- The largest improvement in ranking is for the Local Streets and Roads Capital Maintenance Needs program, which would increase from 22 to 12.

The key changes in B/C ratios are shown in Table D6; because the 50 percent reduction test impacts a greater number of total projects, this table solely focuses on the impacts of that test.

# **Key Impacts by Project Type**

Highway Expansion: Reducing travel time valuation resulted in significant decreases in B/C for the highway expansion projects, especially under the 50 percent reduction sensitivity test. The SR-239 Expressway Construction (Brentwood to Tracy) project resulted in a reduction in B/C of 7 to 3, as well as a decrease in ranking of 11 to 15.

Road Efficiency: The roadway efficiency projects were significantly negatively impacted as a result of this sensitivity test, except the Bay Bridge Contraflow Lane which remained the same. The ITS Improvements projects in Santa Clara and San Mateo counties realized a shifting from the high rating to medium-high as a result of the 50 percent reduction in travel time valuation test.

*Transit Efficiency:* The transit efficiency projects were also significantly impacted by the travel time valuation sensitivity test, with benefits often decreasing by half in many of the 50 percent reduction test. The AC Transit Grand-MacArthur BRT, Irvington BART Station, and SFMTA Transit Effectiveness Projects all decreased from the high rating tier to the medium-high as a result of the 50 percent test.

*Transit Expansion:* This sensitivity test resulted in a mix of impacts to the B/C of the transit expansion projects with those seeing improvements being minor improvements. BART to Livermore (Phase 1) decreased from the medium-low to low rating as a result of the 50 percent test.

TABLE D6: KEY B/C CHANGES FOR TRAVEL TIME 50% SENSITIVITY TEST

Alt   REPUID   Alternative														
Alt 1910   Alternative   Mode   County							Adjusted		Adjusted					
Alton   Mode														
Alt												Dougoust		
Alt   Alt   Alternative   Mode   County   2013-dollary   2013-do									,	Original	Adjusted		Original	Adjusted
Alt86   98119   Vasions Light Rail Extension (Phase 2)   Expansion   Santa Clara   So.1   S.2   56   56   80   0.3   11345   76   70	Δlt	RTPID#	Alternative	Mode	County									_
Alt48 98139   Vasona Light Raif Extension (Phase 2)   Espansion   Communication Raif Segment G   International Raif Raif Segment G   International Raif Raif Segment G   International R	A16	IIII ID#	Arcmanyc		county	2013 dollars)	2013 donais,	2013 donars/	2013 dollars)	5/0	D/C	5/0	Rank	runk
Dumbarton hall Segment 6	Alt48	98119		Expansion	Santa Clara	\$0.1	\$2	\$6	\$6	0.0	0.3	1134%	/6	/0
Alt45 22001 Improvements Efficiency Carbon (10 Frain Service Carbon Vision Vision (10 Frain Service Carbon Vision Vision (10 Frain Service Carbon Vision Vision Vision Vision (10 Frain Service Carbon Vision Vision Vision Vision (10 Frain Service Carbon Vision (10 Frain Vision Visio			1 · · · · · · · · · · · · · · · · · · ·	Tuomoia										
Alt34 20521, during Peak Hours, et Electrification (June 1997) et Electrification (Jule 1997)	AI+45	220101	-		Alameda	-¢n 1	¢n 2	\$2	62	(0.0)	0.1	216%	77	76
August   A	AIL43	230101		Efficiency	Alaineua	-30.1	30.2	32	32	(0.0)	0.1	310/6	-//	76
Alt34 21827 (San Francisco to Tamien) Efficiency County \$272 5188 \$220 \$20 \$1 0.9 31% 55 55 56   Alt53 22082 Invington BART Station Francit Frequency Phase 11-15testion Ball Extension with Bus Expansion Alameda 519 513 \$2 52 12 8 3-31% 8 9 9   Alt54 22036 Enhancements) Expansion Alameda 550 533 552 552 1 0.6 -33% 60 62   BART to Livermore (Phase 11-15testion Transit Expansion Alameda 550 533 552 552 1 0.6 -33% 60 62   BART to Livermore (Phase 11-15testion Transit Expansion Alameda 550 530 533 552 552 1 0.9 -33% 564 55   Alt55 240545 Parkmerced Light Rail Corridor Francisco 56 54 55 55   Alt55 240545 Parkmerced Light Rail Corridor Francisco 56 54 55 55   Alt55 240545 Parkmerced Light Rail Corridor Francisco 56 54 55 55   Alt65 220675 Extension) Expansion Alameda 557 537 5153 5153 5153 0.4 0.2 33% 57 52 53   Alt67 22343 Improvements (Phase 2) Francisco 56 54 55 55   Alt67 22343 Improvements (Phase 2) Francisco Costa 512 58 511 511 0.7 330% 57 59 59   Alt88 00ACT1 A C Transit Requent Transit Network Efficiency Francisco 544 527 57 57 6 4 3-39% 16 13   Alt71 22780 A C Transit Grand-MacArthur BRT 67 6004   Alt14 22780 County Line Frequency Francisco Frequency Francisco County 5005 518 519 510 0 510 0 510 510 1 0.7 37% 56 58   Alt151 22780 County Line Frequency Francisco		240521	-	Transit	Multi-									
AltS3 22062 Invington BART Station   Finding   BART to Livermore (Phase 1: 1-Station   BART to Livermore (Phase 1: 1-Station   DATE (Divermore (Ph	Alt34		,			\$272	\$188	\$220	\$220	1	0.9	-31%	55	56
Alt53   22062   Invington BART Station   Efficiency   Alameda   \$19   \$13   \$52   \$2   \$12   \$8   \$31%   \$8   \$9    Alt54   220156   Chancements   Expansion   Alameda   \$50   \$33   \$52   \$52   \$1   \$0.8   \$33%   \$60   \$62    Alt54   220156   Chancements   Expansion   Alameda   \$50   \$33   \$52   \$52   \$1   \$0.8   \$33%   \$60   \$62    Alt107   LBART   Chancements   Expansion   Alameda   \$50   \$53   \$55   \$52   \$1   \$0.9   \$33%   \$54   \$55    Alt107   LBART   Chancements   Expansion   Alameda   \$57   \$55   \$59   \$1   \$0.9   \$33%   \$54   \$55    Alt107   LBART   Chancements   Expansion   Alameda   \$57   \$55   \$55   \$1   \$0.9   \$33%   \$54   \$55    Alt107   LBART   Chancements   Expansion   Alameda   \$57   \$57   \$55    Alt107   LBART   Chancements   Expansion   Alameda   \$57   \$57   \$55    Alt108   220654   Parimerced Light Rail Corridor   Efficiency   Francisco   \$56   \$44   \$55   \$55   \$1   \$0.9   \$33%   \$54   \$55    Alt109   Alt100   Alameda   \$57   \$57   \$57   \$57   \$57   \$57   \$57   \$57   \$57    Alt109   Alameda   \$57   \$57   \$57   \$57   \$57   \$57   \$57   \$57   \$57    Alt109   Alameda   \$57   \$57   \$57   \$57   \$57   \$57   \$57   \$57   \$57    Alt109   Alameda   \$57   \$			,			7	7-00		7					
AltS 2 dol 56 Enhancements   Alternore (Phase 1: 5-station Rail Extension with Bus   Expansion Alameda   S50   \$33   \$52   \$52   1   6.6   33%   \$60   62	Alt53	22062	Irvington BART Station		Alameda	\$19	\$13	\$2	\$2	12	8	-31%	8	9
Alt 52 240156 Chancements   Expansion   Alameda   \$50   \$33   \$52   \$52   1   6.8   33%   60   62			0			7	7-0		*-					
BART to Livermore (Phase 1: 1-Station DMU Extension with Bus DMU Extension with Bus Expansion Nameda 537 \$25 \$29 \$29 \$1 0.9 -33% \$4 55 55			•	Transit										
Alt	Alt54	240196	Enhancements)	Expansion	Alameda	\$50	\$33	\$52	\$52	1	0.6	-33%	60	62
Alit   Alit   BART   Enhancements   Expansion   Alameda   \$37   \$25   \$29   \$29   \$1   09   -33%   \$54   \$55			BART to Livermore (Phase 1: 1-Station											
Alt55   240545   Parkmerced Light Rail Corridor   Transit   Efficiency   Francisco   \$6   \$4   \$5   \$5   \$1   \$0.9   -34%   \$5   \$5   \$3   \$3   \$3   \$3   \$3   \$3			DMU Extension with Bus	Transit										
Alt55	Alt107	LBART	Enhancements)	Expansion	Alameda	\$37	\$25	\$29	\$29	1	0.9	-33%	54	55
BART to Livermore (Phases 1 & 2: Rail Transit   Expansion   Alameda   S57   S37   S153   S153   O.4   O.2   -35%   70   73				Transit	San									
Alt39	Alt55	240545			Francisco	\$6	\$4	\$5	\$5	1	0.9	-34%	52	53
Alt67   22343   Improvements (Phase 2)   Efficiency   Costra   S12   S8   S11   S11   1   0.7   -36%   57   59			= 1											
Alt67	Alt39	22667	· · · · · · · · · · · · · · · · · · ·			\$57	\$37	\$153	\$153	0.4	0.2	-35%	70	73
Alt88 00ACT1 AC Transit Frequent Transit Network Efficiency County \$606 \$382 \$510 \$510 \$1 0.7 -37% 56 58  Alt21 230161 Van Ness Avenue BRT Fransit Efficiency Francisco \$44 \$277 \$7 \$7 \$7 6 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco \$44 \$277 \$7 \$7 \$7 6 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco \$44 \$277 \$7 \$7 \$7 6 4 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco \$44 \$277 \$7 \$7 \$7 6 6 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco \$44 \$277 \$7 \$7 \$7 6 6 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco \$44 \$277 \$7 \$7 \$7 \$7 6 6 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco \$44 \$277 \$7 \$7 \$7 \$7 6 6 4 -39% 16 13  Alt71 22780 AC Transit Grand-MacArthur BRT Fficiency Francisco Ffi														
Alt30 00ACT1 AC Transit Frequent Transit Network Efficiency County S606 \$382 \$510 \$510 \$1 0.7 -37% 56 58   Alt21 230161 Van Ness Avenue BRT Fransit Efficiency Francisco \$44 \$27 \$7 \$7 \$7 \$6 4 -39% 16 13   Alt71 22780 AC Transit Grand-MacArthur BRT Efficiency Accounty Library County S606 \$32 \$18 \$2 \$2 \$18 10 -44% 4 4   Alt71 240060, US-101 Express Lanes - Whippie to Road Nulli-Efficiency Accounty Library County S123 \$68 \$19 \$19 \$6 4 -45% 15 14   Alt71 240071 Simprovements in San Mateo Efficiency Gounty Library County S123 \$68 \$19 \$19 \$6 4 -45% 15 14   Alt80 22274 County Library Performance Initiative FPI Regional S31,775 \$1,745 \$202 \$202 16 9 -45% 5 6 6   Alt105 240194 Freeway Performance Initiative FPI Regional S31,775 \$1,745 \$202 \$202 16 9 -45% 5 6 6   Alt80 240155 Better Market Street Efficiency Francisco \$90 \$47 \$8 \$8 \$8 \$11 \$6 -47% 9 11   Alt80 240155 Better Market Street Efficiency Francisco \$90 \$47 \$8 \$8 \$8 \$11 \$6 -47% 9 11   Alt80 240155 Remont/Union City East-West Acterial Fransit Access Improvements Efficiency Expansion Alameda \$455 \$10 \$10 \$7 \$3 -49% 13 18   Alt80 240155 Remont/Union City East-West Acterial Fransit Access Improvements Efficiency Expansion Alameda \$455 \$11 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	Alt67	22343	Improvements (Phase 2)			\$12	\$8	\$11	\$11	1	0.7	-36%	57	59
Alt21						4.00	4000	4=44	4			/		
Alt21   230161   Van Ness Avenue BRT   Efficiency   Francisco   \$44   \$527   \$7   \$7   \$6   \$4   -39%   16   13	Alt83	00AC11	AC Transit Frequent Transit Network			\$606	\$382	\$510	\$510	1	0.7	-3/%	56	58
Air   22780   AC Transit Grand-MacArthur BRT   Efficiency   Alameda   532   \$18   \$2   \$52   \$18   \$10   -44%   4   4   4   4   4   4   4   4   4							40-	4-	4-			2001		
Alt71   22780   AC Transit Grand-MacArthur BRT   Efficiency   Alameda   \$32   \$18   \$2   \$5   \$18   \$10   \$-44%   \$4   \$4   \$4   \$240060, US-101 Express Lanes - Whipple to Road   Multi-   Tis Improvements in San Mateo   Efficiency   San Mateo   S56   S31   \$4   \$54   \$16   \$9   \$-45%   \$5   \$6   \$6   \$6   \$6   \$6   \$6   \$6	Alt21	230161	Van Ness Avenue BRI		Francisco	\$44	\$27	\$7	\$7	6	4	-39%	16	13
Alt14	A 14-71	22700	AC Transit Crowd MassAuthur DDT		Alamada	622	ć10	ća	ės.	10	10	440/		
Alt14   240523   County Line   Efficiency   County   \$123   \$68   \$19   \$19   \$6   \$4   \$-45%   \$15   \$14	Alt/1					\$32	\$18	\$2	\$2	18	10	-44%	4	4
Alt104   22274   County	Δl+14		1			\$123	\$68	\$19	\$19	6	4	-45%	15	14
Alt104   22274   County   Efficiency   San Mateo   \$56   \$31   \$4   \$54   \$6   \$9   -45%   \$5   \$6	7	210020	· · ·		county	<b>V</b> 220	700	Ų	V-2-5			1570		
Alt105	ΔI+104	22274	1 · · · · · · · · · · · · · · · · · · ·		San Mateo	\$56	\$31	\$4	\$4	16	9	-45%	5	6
Alt5 230419 Freeway Performance Initiative FPI Regional \$3,175 \$1,745 \$202 \$202 16 9 -45% 5 6  Transit San  Alt80 240171 SFMTA Transit Effectiveness Project  Fremont/Union City East-West Efficiency Francisco \$50 \$29 \$10 \$10 6 3 -49% 18 22  Alt27 94506 Connector Expansion Alameda \$65 \$33 \$10 \$10 7 3 -49% 13 18  Alt91 98207T Access Improvements Efficiency Expansion San SR-239 Expressway Construction Highway SR-239 Expressway Construction Highway Improvements Efficiency Expansion Santa Clara \$144 \$71 \$21 \$21 \$7 7 3 -50% 11 15  Alt86 00MUNI Improvements Efficiency Francisco \$525 \$12 \$14 \$14 \$2 0.9 -50% 43 \$418 \$22 \$418 \$24 \$45 \$3 -51% \$21 \$24 \$418 \$418 \$24 \$418 \$45 \$45 \$45 \$45 \$45 \$45 \$45 \$45 \$45 \$45	Alt105													
Alt80	Alt5	230419			Regional	\$3,175	\$1,745	\$202	\$202	16	9	-45%	5	
Alt80				Transit	San									
Alt80   240155   Better Market Street   Efficiency   Francisco   \$56   \$29   \$10   \$10   6   3   -49%   18   22	Alt57	240171	SFMTA Transit Effectiveness Project	Efficiency	Francisco	\$90	\$47	\$8	\$8	11	6	-47%	9	11
Alt27   94506   Fremont/Union City East-West   Arterial   Expansion   Alameda   \$65   \$33   \$10   \$10   7   3   -49%   13   18			•	Transit	San									
Alt27 94506 Connector Expansion Alameda \$65 \$33 \$10 \$10 7 3 -49% 13 18  Alameda-Oakland BRT + Transit Transit Alt91 98207T Access Improvements Efficiency Alameda \$14 \$7 \$2 \$2 6 3 -50% 14 19  SR-239 Expressway Construction Highway Alt44 22400 (Brentwood to Tracy) Expansion Santa Clara \$144 \$71 \$21 \$21 7 3 -50% 11 15  Muni Service Frequency Transit Expansion Santa Clara \$144 \$71 \$21 \$21 7 3 -50% 11 15  Muni Service Frequency Transit Expansion Santa Clara \$144 \$71 \$21 \$14 \$14 2 0.9 -50% 43 54  Alt86 00MUNI Improvements Efficiency Francisco \$25 \$12 \$14 \$14 \$2 0.9 -50% 43 54  Alt818 22455 AC Transit East Bay BRT Transit Alameda \$62 \$29 \$12 \$12 \$12 5 3 -53% 19 23  Express Lanes Multi- Alt49 HOTE Express Lanes Network E Network County \$602 \$235 \$118 \$118 5 2 -61% 20 27  Alt1 240691 HOV Lanes) Efficiency County \$20 \$6 \$18 \$18 \$18 1 0.3 -70% 58 67	Alt80	240155	Better Market Street	Efficiency	Francisco	\$56	\$29	\$10	\$10	6	3	-49%	18	22
Alameda - Oakland BRT + Transit			Fremont/Union City East-West	Arterial										
Alt91 98207T Access Improvements Efficiency Alameda \$14 \$7 \$2 \$2 \$6 3 -50% 14 19  SR-239 Expressway Construction Highway (Brentwood to Tracy) Expansion Santa Clara \$144 \$71 \$21 \$21 7 3 -50% 11 15  Muni Service Frequency Transit San Improvements Efficiency Francisco \$25 \$12 \$14 \$14 2 0.9 -50% 43 54 Alt32 230468 I-80 Auxiliary Lanes (Airbase Parkway Road Solano \$18 \$9 \$4 \$4 5 3 -51% 21 24 Alt8 22455 AC Transit East Bay BRT Transit Alameda \$62 \$29 \$12 \$12 \$12 \$ 3 -53% 19 23    Express Lanes Multi-Alt19 HOTE Express Lanes Network E Network County \$602 \$235 \$118 \$118 5 2 -61% 20 27    Balt7, Marin-Sonoma Narrows (Phase 2: Alt19	Alt27	94506	Connector	Expansion	Alameda	\$65	\$33	\$10	\$10	7	3	-49%	13	18
SR-239 Expressway Construction   Highway   Expansion   Santa Clara   \$144   \$71   \$21   \$21   7   3   -50%   11   15			Alameda-Oakland BRT + Transit	Transit										
Alt44 22400 (Brentwood to Tracy) Expansion Santa Clara \$144 \$71 \$21 \$21 7 3 -50% 11 15    Muni Service Frequency   Transit   San	Alt91	98207T	Access Improvements	Efficiency	Alameda	\$14	\$7	\$2	\$2	6	3	-50%	14	19
Alt86 00MUNI Improvements	1 1		1	Highway										
Alt86 00MUNI Improvements	Alt44	22400		_		\$144	\$71	\$21	\$21	7	3	-50%	11	15
Alt32 230468 I-80 Auxiliary Lanes (Airbase Parkway Road Solano \$18 \$9 \$4 \$4 \$5 3 -51% 21 24 Alt8 22455 AC Transit East Bay BRT Transit Alameda \$62 \$29 \$12 \$12 \$5 3 -53% 19 23 Express Lanes Multi-Alt49 HOTE Express Lanes Network E Network County \$602 \$235 \$118 \$118 \$5 2 -61% 20 27 Marin-Sonoma Narrows (Phase 2: Alt1 240691 HOV Lanes) Efficiency County \$20 \$6 \$18 \$18 \$1 0.3 -70% 58 67			1											
Alt8														
Express   Lanes   Multi-   September   Multi-   S														
Alt49   HOTE   Express Lanes Network E   Network   County   \$602   \$235   \$118   \$118   5   2   -61%   20   27	.410	22733			cua	70Z	723	416	416			33/0		
Alt49 HOTE Express Lanes Network E Network County \$602 \$235 \$118 \$118 \$ 2 -61% 20 27  98147, Alt1 240691 HOV Lanes) Road Multi- Efficiency County \$20 \$6 \$18 \$18 \$1 0.3 -70% 58 67  Express Lanes Multi-				-	Multi-									
98147, Alt1 240691	Alt49	НОТе	Express Lanes Network E			\$602	\$235	\$118	\$118	5	2	-61%	20	27
Alt1 240691 HOV Lanes) Efficiency County \$20 \$6 \$18 \$18 1 0.3 -70% 58 67  Express Lanes Multi-			· ·											
Express Lanes Multi-	Alt1		1			\$20	\$6	\$18	\$18	1	0.3	-70%	58	67
Lanes Multi-			ĺ		,									
Alt36 HOTd Silicon Valley Express Lanes Network Network County \$408 \$68 \$70 \$70 6 1 -83% 17 51					Multi-									
	Alt36	HOTd	Silicon Valley Express Lanes Network	Network	County	\$408	\$68	\$70	\$70	6	1	-83%	17	51

# **Complete Sensitivity Test Result Tables**

Data tables with the complete sensitivity test results are shown on the following pages as Tables D7 through D13.

# TABLE D7: NON-RECURRING DELAY SENSITIVITY TEST RESULTS

April   Apri														
March   Marc												Percent		
1985   2012						millions of 2013	millions of	millions of	millions of					
March   Prof.   Prof												B/C	_	
2019												6%		
1982   Prince   Pri			Congestion Pricing Pilot	Pricing	San Francisco	\$227		\$5	\$5	45			3	3
2009   2017														
ASSA   1,2022	Alt104	22274				\$56	\$62	\$4	\$4	16	17	11%	5	6
March														
Sept   1988   2008   1988   1988   1988   2008														_
April	Alt95	240582	Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency	Regional	\$55		\$6	\$6			0%		
March   Marc	Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion	Santa Clara	\$144	\$151	\$21	\$21	7	7	5%	11	15
ADDITION   Personal Management of the Part of Connection   Part of Engineery   Part of	Alt25	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Road Efficiency	Santa Clara	\$81	\$120	\$12	\$12	7	10	48%	12	12
April   2000  2000    100   Protect particularies   Note (Effecting)   Note	Alt27	94506	Fremont/Union City East-West Connector		Alameda	\$65	\$73	\$10	\$10	7			13	
April   September   Property   Property   September														
ABMS   28003	Alt21													
AND   1907   1908   1909   1	Alt36													
April														
AMESING   128   Amelian   Control of the Control	AILO	22433		Transit Efficiency	Alameda	302	303	312	\$1Z	3	3	2/0	15	21
Align			Lanes Network	Express Lanes Netw	Multi-County		\$1,426	\$118					20	
AME														
April   Apri	AIT96	n/a	Local Streets and Roads Capital Maintenance Needs	Maintenance	Kegionai	\$1,369	\$1,369	\$280	\$280	5	5	0%	22	24
ABDIT   ADDITION   Country   Count	Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$357	\$70	\$70	5	5	10%	23	23
August   A						4	4							
All														
AMOS (Peger Page 16 - 1980)  Amos (Peger Page	A1130			anarc Entitlency	Janiiancisco	υ	şε	31	71		,	-44/0	2.5	J.4
Author   Part														
Alton   December   Transportation for Lunds   Communities   Transportation for Lunds   Communities   Transportation for Lunds   Community   Communit														
ALSS   23461   2007	Alt97	240410	Transportation for Livable Communities	TLC	Regional	\$875	\$875	\$255	\$255	3	3	0%	29	30
20229-20092   2022-20092   20														
Marcia   December	Alt51													
AURID   200367   Southeast Waterfront Transportation Improvements   Transit Efficiency   Southeast Marker   Southeast State   Southeast		22227, 240328,	Geneva Avenue Corridor Improvements (Roadway Extension,											
AILTO 200026 SamTranes El Carnine BET														
AIRST														
Alias   Sable   Sabl	Alt24													
AIRS   3400   1.50 (pages 8th (Deblin to Unemore)   Transit Efficiency   Alameda   \$32   \$35   \$56   \$2   \$2   \$10   \$10   \$90   \$40   \$32   \$231, 27512, \$2512, \$252   \$22   \$25   \$40   \$39   \$40   \$39   \$40   \$30   \$40   \$40   \$30   \$40	Alt77												-	
ALTONOME   Dumbarton Transit Corridor (Phase I: Express Bue)   Transit Efficiency   Alimeda   \$22   \$25   \$12   \$12   \$2   \$2   \$2   \$2   \$2														
22122, 23063,   WITA Service Expansion (Tressure Island, Berkeley/Albany),   Transit Expansion   Multi-Country   541   551   522   32   2   2   2   2   2   2   2   2	Alt33													
AIRS   22109, 230881   Richmond, Hercules, and Redwood City)   Transit Expansion   Multi-Country   41   551   522   522   2   2   225   41   37   42   43   43   43   43   43   44   42   2   2   3   45   45   45   45   45   45   45														
AIRTS   122005   SA-4 Speas Completion (SR-15010 Walnut Avenue)   Spinway Expansion Contra Costa   515   516   59   59   2   2   75   42   42	Al+Q			Transit Evnansion	Multi-County	\$41	\$51	\$22	\$22	,	2	22%	<i>A</i> 1	27
Alt56   COMNUM   Multi Service Frequency Improvements   Transit Efficiency   Alt75   Computer   Alt76   Computer   Comp														
Alt75 240626 SECTA Transit Performance Initiative			Muni Service Frequency Improvements	Transit Efficiency	San Francisco	\$25			\$14	2	2			
Alt198   22247   Regional Bikeway Network   Sike/Ped   Regional   \$1324   \$1314   \$73   \$73   \$2   2   0%   46   46   48   Alt196   Alt Transit Service Frequency improvements (Restoration of Data Park Park Park Park Park Park Park Par														
Act   Transit Efficiency   Act   Transit Efficiency   Alameda   Sila														
Alt99					,									
Sam Mateo Countrywide Shuttle Service Frequency   Transit Efficiency   Sam Mateo   S10   S10   S6   S6   2   2   -5%   49   S0														
Alt49 22288 Improvements   Transit Efficiency   Sam Mate   S10   S50   S5   S   2   2   -5%   49   S0   S2   S2   S2   S3   S3   S4   S3   S4   S4   S4   S4	Alt99			iviaintenance	Kegionai	\$3	<b>\$</b> 5	\$2 	ŞZ	2	2	0%	48	4/
Alt101		22268	Improvements		San Mateo						2			
Alt53 240545 Parkmerced Light Rail Corridor  Alt63 24055 Golden Gate Ferry Service Frequency Improvements Transit Efficiency Multi-County 55 57 \$4 \$4 \$1 2 15% 53 51														
Alti32 230055 Golden Gate Ferry Service Frequency Improvements Transit Efficiency Multi-County 56 57 54 54 54 1 2 15% 53 51 51 51 51 51 51 51 51 51 51 51 51 51														
Alt101   Alt102   Alt103   Alt104   Alt105   A			Golden Gate Ferry Service Frequency Improvements		Multi-County									
Caltrain Vision (10-Train Service during Peak Hours) +   Transit Efficiency   Multi-County   \$272   \$291   \$220   \$220   \$1   \$1   7%   \$5   \$5   \$4   \$4   \$2   \$4   \$2   \$4   \$2   \$4   \$2   \$4   \$4	Al+107	IRADT		Transit Evansia	Alameda	\$27	\$AE	\$20	\$20	1	2	220/	5/4	40
Alt38	AILIU/			dilait Expansion	ranneud	,3 <i>1</i>	CPV	725	- <del> </del>		-	24/0	<b>J4</b>	-3
Alifor   22343   I-680 Express Bus Service Frequency Improvements (Phase 2)   Transit Efficiency   Contra Costa   \$12   \$12   \$11   \$11   \$1   \$1   \$1		240521, 21627	Electrification (San Francisco to Tamien)											
Alt10   98147, 240691   Marin-Sonoma Narrows (Phase 2: HOV Lanes)   Road Efficiency   Multi-County   \$20   \$32   \$18   \$518   \$1   \$2   60%   \$58   \$43											_			
BART to Livermore (Phase 1: 1-Station Rail Extension with Bus   Finhancements   Phase 2: 40196   Finhancements   Finhancemen	Alt1										_			
Alt102 24057 Heavy-Outy Truck Replacement (BAAQM/D program) Climate Regional \$42 \$42 \$44 \$44 \$1 1 0% \$59 \$9 \$40 \$410 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$4			BART to Livermore (Phase 1: 1-Station Rail Extension with Bus											
Alt62 22415 Historic Streetcar Expansion Program Transit Efficiency San Francisco \$9 \$8 \$9 \$9 0.5 0.5 0.8 -3% 61 61 Alt74 240216 Dumbarton Transit Corridor (Phase 2: Commuter Rail) Transit Efficiency Sonoma \$31 \$36 \$36 \$36 \$36 \$36 \$1 1 17% 62 \$8 \$41410, 80 0.8 11% 63 64 Alt74 240258 EV Solar Installation [BAAQMD program] Climate Regional \$1 \$1 \$1 \$2 \$2 \$2 \$2 0.8 0.8 0.8 0% 64 65 \$1 \$410, 80 0.8 11% 63 64 Alt74 \$10 \$240589 EV Solar Installation [BAAQMD program] Climate Regional \$1 \$1 \$1 \$2 \$2 \$2 \$2 0.8 0.8 0.8 0% 64 65 \$1 \$1 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2			Enhancements) Heavy-Duty Truck Replacement [RAAOMD program]											
Alt74   240216   Dumbarton Transit Corridor (Phase 2: Commuter Rail)   Transit Expansion   Alameda   \$31   \$36   \$36   \$36   \$36   \$0.8   1   17%   \$62   \$8   \$8   \$141   \$240550   Sonoma Countywide Bus Service Frequency Improvements   Transit Efficiency   Climate   Regional   \$1   \$1   \$2   \$2   \$2   \$0.8   \$0.8   \$0.8   \$0.8   \$0.6   \$6   \$6   \$1.8   \$1.8   \$2   \$2.8   \$2.8   \$3.8														
Alt103 240589 EV Solar Installation [BAAQMD program] Climate Regional \$1 \$1 \$1 \$2 \$2 \$2 0.8 0.8 0.8 0% 64 65 \$2 \$26675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240675, 240677, 240676, 240677	Alt74	240216	Dumbarton Transit Corridor (Phase 2: Commuter Rail)	Transit Expansion	Alameda	\$31	\$36	\$36	\$36	0.8	1	17%	62	58
240676, 240675,   240677   2														
Alt16 240677 Deferrals)	205					γ-	γ-					5,5		
Alt40 230219, 230314 Golden Gate Bus Service Frequency Improvements Transit Efficiency Multi-County \$16 \$15 \$29 \$29 0.5 0.6 3% 67 67 67 67 67 67 67 67 67 67 67 67 67														
Capitol Expressway Light Rail Extension (Phase 2: to Eastridge   Transit Expansion   Santa Clara   \$4   \$3   \$8   \$8   \$0.5   \$0.4   \$-11%   \$68   \$69   \$1150   \$22956   Transit Center)   Transit Expansion   Transit Expansio														
Alt10 22956 Transit Center) Transit Expansion Santa Clara \$4 \$3 \$8 \$8 0.5 0.4 -11% 68 69 Alt50 230547 Monterey Highway BRT Transit Efficiency Santa Clara \$15 \$14 \$37 \$37 \$0.4 0.4 -5% 69 71 Alt39 22667 BART to Livermore (Phases 1 & 2: Rail Extension) Transit Expansion Santa Clara \$55 \$68 \$153 \$153 0.4 0.4 20% 70 68 Alt30 22019 Downtown East Valley (Phase 2: LRT) Transit Expansion Santa Clara \$5 \$4 \$16 \$16 0.3 0.2 -20% 71 72 Alt52 230554 Sunnyvale-Cupertino BRT Transit Efficiency Santa Clara \$5 \$3 \$26 \$26 0.2 0.1 -32% 73 74 Alt19 22978 Nieman) Transit Expansion Santa Clara \$3 \$4 \$19 \$19 0.2 0.2 45% 74 73 Alt61 22009 Capitol Corridor Service Frequency Improvements (Oakland to Transit Efficiency Multi-County \$1 \$2 \$18 \$18 0.1 0.1 84% 75 75 Hill Outloon City Commuter Rail Station + Dumbarton Rail Segment G	AILHU			ansit Enridency	.viuia-county	310	210	323	<i>343</i>	J.J	0.0	3/0	31	07
Alt39 22667 BART to Livermore (Phases 1 & 2: fail Extension) Transit Expansion Alameda \$57 \$68 \$153 \$153 \$0.4 0.4 20% 70 68 Alt30 22019 Downtown East Valley (Phase 2: LRT) Transit Expansion Tr	Alt10	22956	Transit Center)											
Alt30 22019 Downtown East Valley (Phase 2: LRT) Transit Expansion   Santa Clara   55   \$4   \$16   \$0.3   0.2   -20%   71   72   Alt79 98139 ACE Expansion   Transit Efficiency   Santa Clara   \$5   \$4   \$16   \$56   \$67   \$67   \$67   \$0.3   \$0.4   \$40%   72   70   Alt82 230554 Sunnyvale-Cupertino BRT   Transit Efficiency   Santa Clara   \$5   \$3   \$26   \$26   \$0.2   \$0.1   -32%   73   74   Alt19 (230554 Sunnyvale-Cupertino BRT   Transit Efficiency   Santa Clara   \$5   \$3   \$26   \$26   \$0.2   \$0.1   -32%   73   74   Alt19 (22078   Nieman)   Transit Expansion   Transit Expansion   Transit Expansion   Santa Clara   \$3   \$4   \$19   \$19   \$0.2   \$0.2   \$45%   74   Alt18   98119   Vasona Light Rail Extension (Phase 2)   Transit Expansion   Transit Expansion   Santa Clara   \$5   \$6   \$6   \$6   \$0.0   \$0.5   -2600%   76   76      Wilson City Commuter Rail Station + Dumbarton Rail Segment G	Alt50													
Alt79 98139 ACE Expansion Transit Efficiency Alameda \$19 \$27 \$67 \$67 0.3 0.4 40% 72 70 Alt52 230554 Sunnyvale-Cupertino BRT Transit Efficiency Santa Clara \$5 \$3 \$26 \$26 0.2 0.1 -32% 73 74 Alt59 22978 Nieman) Nieman) Transit Efficiency Santa Clara \$3 \$4 \$19 \$19 0.2 0.2 45% 74 73 Alt61 22009 Capitol Corridor Service Frequency Improvements (Oakland to Transit Efficiency Multi-County \$1 \$2 \$18 \$18 0.1 0.1 84% 75 75 Alt48 98119 Vasona Light Rail Extension (Phase 2) Transit Expansion Santa Clara \$0.1 -54 \$6 \$6 0.0 (0.5) -2600% 76 76 Union City Commuter Rail Station - Dumbarton Rail Segment G	Alt30	22019	Downtown East Valley (Phase 2: LRT)	Transit Expansion	Santa Clara	\$5	\$4	\$16	\$16	0.3	0.2	-20%	71	72
Capitol Expressway Light Rail Extension (Phases 2 & 3: to   Transit Expansion   Santa Clara   \$3   \$4   \$19   \$519   \$0.2   0.2   45%   74   73					Alameda					0.3	0.4		72	70
Alt19 22978 Nieman) Transit Expansion Santa Clara \$3 \$4 \$19 \$19 0.2 0.2 45% 74 73 Alt61 22009 Capitol Corridor Service Frequency Improvements (Oakland to Transit Efficiency Multi-County \$1 \$2 \$18 \$18 0.1 0.1 84% 75 75 Alt48 98119 Vasona Light Rail Extension (Phase 2) Transit Expansion Santa Clara \$0.1 -54 \$6 \$6 0.0 (0.5) -2600% 76 76 Union City Commuter Rail Station + Dumbarton Rail Segment G	AIL5Z	230554		iransit Efficiency	santa Clara	, <b>5</b> 5	<b></b> \$5	\$Zb	Ş2b	0.2	0.1	-32%	13	74
Alt48 98119 Vasona Light Rail Extension (Phase 2) Transit Expansion Santa Clara \$0.1 -\$4 \$6 \$6 0.0 (0.5) -2600% 76 76 Value of City Commuter Rail Station + Dumbarton Rail Segment G			Nieman)											
Union City Commuter Rail Station + Dumbarton Rail Segment G														
Alt45   230101   Improvements   Transit Efficiency   Alameda   -\$0.1   -\$2   \$2   \$2   \$0.0   \$(1.1)   -2842%   77   77				anare expansion	- una ciara	70.1	-	70	70		(5.5)	2000/0		
	Alt45	230101	Improvements	Transit Efficiency	Alameda	-\$0.1	-\$2	\$2	\$2	(0.0)	(1.1)	-2842%	77	77

# TABLE D8: TRANSIT O&M COST SENSITIVITY TEST RESULTS

					Original Total	Adjusted Total	Original Total	Adjusted Total					
					Annualized	Annualized	Annualized	Annualized					
					Benefits (in millions of 2013	Benefits (in millions of	Costs (in millions of	Costs (in millions of	Original	Adjusted	Percent Change	Original	Adjusted
Alt	RTPID#	Alternative	Mode	County	dollars)	2013 dollars)	2013 dollars)	2013 dollars)	B/C	B/C	B/C	Rank	Rank
Alt90 Alt93	240182 240694		Transit Efficiency	Multi-County	\$161	\$161 \$69	-\$4 \$1	-\$4	>60 59	>60 59	- 00/	2	2
Alt85	240522	Treasure Island Congestion Pricing Congestion Pricing Pilot	Pricing Pricing	Regional San Francisco	\$69 \$227	\$227	\$5	\$1 \$5	45	45	0% 0%	3	3
Alt71	22780	AC Transit Grand-MacArthur BRT	Transit Efficiency	Alameda	\$32	\$32	\$2	\$2	18	18	0%	4	4
Alt5 Alt104	230419 22274	Freeway Performance Initiative ITS Improvements in San Mateo County	FPI Road Efficiency	Regional San Mateo	\$3,175 \$56	\$3,175 \$56	\$202 \$4	\$202 \$4	16 16	16 16	0% 0%	5	5
Alt104	240494	ITS Improvements in Santa Clara County	Road Efficiency	Santa Clara	\$752	\$752	\$48	\$48	16	16	0%	5	5
Alt53	22062	Irvington BART Station	Transit Efficiency	Alameda	\$19	\$19	\$2	\$2	12	12	0%	8	8
Alt57 Alt95	240171 240582	SFMTA Transit Effectiveness Project  Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency Climate	San Francisco Regional	\$90 \$55	\$90 \$55	\$8 \$6	\$8 \$6	11 9	11 9	0% 0%	9 10	9 10
Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion		\$144	\$144	\$21	\$21	7	7	0%	11	12
			D 1500		404	404	440	442	_	7	<b>~</b>		40
Alt25 Alt27	240431 94506	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard) Fremont/Union City East-West Connector	Road Efficiency Arterial Expansion	Santa Clara Alameda	\$81 \$65	\$81 \$65	\$12 \$10	\$12 \$10	7	7	0% 0%	12 13	13 14
Alt91	98207T	Alameda-Oakland BRT + Transit Access Improvements	Transit Efficiency	Alameda	\$14	\$14	\$2	\$2	6	7	-11%	14	11
Alt14	240060, 240523	US-101 Express Lanes - Whipple to County Line	Road Efficiency	Multi-County	\$123	\$123	\$19	\$19	6	6	0%	15	15
Alt21 Alt36	230161 HOTd	Van Ness Avenue BRT Silicon Valley Express Lanes Network	Transit Efficiency Express Lanes Netw	San Francisco	\$44 \$408	\$44 \$408	\$7 \$70	\$7 \$70	6	6	0% 0%	16 17	16 17
Alt80	240155	Better Market Street	Transit Efficiency	San Francisco	\$56	\$56	\$10	\$10	6	6	0%	18	18
Alt8	22455	AC Transit East Bay BRT	Transit Efficiency	Alameda	\$62	\$62	\$12	\$11	5	5	-1%	19	19
Alt49 Alt32	HOTe 230468	Express Lanes Network E I-80 Auxiliary Lanes (Airbase Parkway to I-680)	Express Lanes Netw Road Efficiency	Multi-County Solano	\$602 \$18	\$602 \$18	\$118 \$4	\$118 \$4	5	5	0% 0%	20	20
Alt96	n/a	Local Streets and Roads Capital Maintenance Needs	Maintenance	Regional	\$1,369	\$1,369	\$280	\$280	5	5	0%	22	23
Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$324	\$70	\$64	5	5	-8%	23	22
Alt47	240134	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (San Francisco To Tamien)	Transit Efficiency	Multi-County	\$153	\$153	\$34	\$33	5	5	-3%	24	24
Alt56	240557	Oakdale Caltrain Station	Transit Efficiency	San Francisco	\$3	\$3	\$1	\$1	4	4	0%	25	25
	240052	SR-84/I-680 Interchange Improvements + SR-84 Widening			407	407	424	424	4	4	<b>~</b>	20	25
Alt23 Alt38	240062 230294	(Pigeon Pass to I-680) New SR-152 Alignment	Highway Expansion Highway Expansion		\$87 \$148	\$87 \$148	\$21 \$41	\$21 \$41	4	4	0% 0%	26 27	26 27
		Transbay Transit Center - Phase 2B (Caltrain Downtown											
Alt15	230290	Extension)	Transit Expansion	Multi-County	\$108	\$108	\$31	\$31	4	4	0%	28	28
Alt97 Alt6	240410 21205, 22350		TLC Highway Expansion	Regional Contra Costa	\$875 \$65	\$875 \$65	\$255 \$21	\$255 \$21	3	3	0% 0%	29 30	29 30
Alt51	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Transit Efficiency	Solano	\$2	\$2	\$1	\$1	3	3	0%	31	31
Alt58	240617 22227, 240328,	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)  Geneva Avenue Corridor Improvements (Roadway Extension,	Road Efficiency	Napa	\$11	\$11	\$4	\$4	3	3	-1%	32	33
Alt66	240334	BRT, and Southern Intermodal Terminal)	Transit Efficiency	Multi-County	\$36	\$36	\$15	\$14	2	3	-4%	33	35
Alt87	240147	Southeast Waterfront Transportation Improvements	Transit Efficiency	San Francisco	\$88	\$88	\$36	\$34	2	3	-7%	34	32
Alt17	240026	SamTrans El Camino BRT	Transit Efficiency	San Mateo	\$59	\$59	\$25	\$23	2	3	-10%	35	34
Alt24 Alt77	240119 00BART	VTA El Camino BRT BART Service Frequency Improvements	Transit Efficiency Transit Efficiency	Santa Clara Multi-County	\$28 \$126	\$28 \$126	\$12 \$56	\$12 \$52	2	2	0% -7%	36 37	37 36
Alt84	230604	Bay Bridge Contraflow Lane	Road Efficiency	Multi-County	\$67	\$67	\$31	\$31	2	2	0%	38	39
Alt88	580_BUS	I-580 Express Bus (Dublin to Livermore)	Transit Efficiency	Alameda	\$32	\$32	\$16	\$16	2	2	0%	39	42
Alt33	240018 22511, 22512,	Dumbarton Transit Corridor (Phase 1: Express Bus)	Transit Efficiency	Alameda	\$23	\$23	\$12	\$11	2	2	-5%	40	41
	22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany,											
Alt9	22120, 230581	Richmond, Hercules, and Redwood City)	Transit Expansion	Multi-County	\$41	\$41	\$22	\$19	2	2	-18%	41	38
Alt73 Alt86	22605 00MUNI	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements	Highway Expansion Transit Efficiency	Contra Costa San Francisco	\$15 \$25	\$15 \$25	\$9 \$14	\$9 \$12	2	2	0% -17%	42 43	44
Alt2	230164	Geary Boulevard BRT	Transit Efficiency	San Francisco	\$15	\$15	\$9	\$9	2	2	0%	44	46
Alt75	240526	SFCTA Transit Performance Initiative	Transit Efficiency	San Francisco	\$28	\$28	\$16	\$16	2	2	0%	45	47
Alt98 Alt106	22247 240699	Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of	Bike/Ped Transit Efficiency	Regional Alameda	\$124 \$108	\$124 \$108	\$73 \$65	\$73 \$58	2	2	0% -11%	46 47	48
Alt99	n/a	New Freedom Program	Maintenance	Regional	\$3	\$3	\$2	\$2	2	2	0%	48	49
		San Mateo Countywide Shuttle Service Frequency			4					_			
Alt43 Alt100	22268 230550	Improvements Climate Initiatives (5-year program)	Transit Efficiency Climate	San Mateo Regional	\$10 \$158	\$10 \$158	\$6 \$112	\$6 \$112	2	2	-10% 0%	49 50	45 53
Alt101	n/a	Transit Capital Maintenance Needs	Maintenance	Regional	\$1,787	\$1,787	\$1,286	\$1,286	1	1	0%	51	54
Alt55	240545	Parkmerced Light Rail Corridor	Transit Efficiency	San Francisco	\$6	\$6	\$5	\$4	1	1	-7%	52	52
Alt63 Alt107	230055 LBART	Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus	Transit Efficiency Transit Expansion	Multi-County Alameda	\$6 \$37	\$6 \$37	\$4 \$29	\$4 \$28	1	2 1	-16% -3%	53 54	50 56
		Caltrain Vision (10-Train Service during Peak Hours) +											
Alt34 Alt83	240521, 21627 00ACT1	Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network	Transit Efficiency Transit Efficiency	Multi-County Multi-County	\$272 \$606	\$272 \$606	\$220 \$510	\$183 \$453	1	1	-21% -13%	55 56	51 55
Alt67	22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	Transit Efficiency	Contra Costa	\$12	\$12	\$11	\$453	1	1	-15%	57	55
Alt1	98147, 240691	Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Road Efficiency	Multi-County	\$20	\$20	\$18	\$18	1	1	0%	58	58
Aleca	240400	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus	Transit Expansion	Alam - 4.	450	ć.c.	će:	<b>*</b> F4			30/		60
Alt54 Alt102	240196 240577		Transit Expansion Climate	Alameda Regional	\$50 \$42	\$50 \$42	\$52 \$44	\$51 \$44	1	1	-3% 0%	60 59	60 61
Alt62	22415	Historic Streetcar Expansion Program	Transit Efficiency	San Francisco	\$9	\$9	\$9	\$9	0.9	1	-11%	61	59
Alt74 Alt41	240216 240650		Transit Expansion Transit Efficiency	Alameda Sonoma	\$31 \$32	\$31 \$32	\$36 \$41	\$35 \$40	0.8	0.9	-4% -3%	62 63	62 64
Alt103	240550	EV Solar Installation [BAAQMD program]	Climate	Regional	\$32 \$1	\$32 \$1	\$41	\$40	0.8	0.8	-3% 0%	64	66
		SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost	L										
	240677	Deferrals) Marin Countywide Bus Service Frequency Improvements	Transit Expansion Transit Efficiency	Multi-County Marin	\$10 \$9	\$10 \$9	\$13 \$12	\$13 \$11	0.7	0.8	-4% -14%	65 66	65 63
Alt16	230252		Transit Efficiency	Multi-County	\$9 \$16	\$9 \$16	\$12	\$11	0.7	0.6	-14%	67	67
Alt16 Alt22 Alt40	230252 230219, 230314	Golden Gate Bus Service Frequency Improvements											
Alt22 Alt40	230219, 230314	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge											
Alt22 Alt40 Alt10	230219, 230314 22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Transit Expansion	Santa Clara	\$4 \$15	\$4 \$15	\$8 \$27	\$8	0.5	0.5	-1% -10%	68	68
Alt22 Alt40 Alt10 Alt50 Alt39	230219, 230314	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge		Santa Clara Santa Clara Alameda	\$4 \$15 \$57	\$4 \$15 \$57	\$8 \$37 \$153	\$8 \$33 \$149	0.4	0.5 0.4	-1% -10% -3%	68 69 70	68 69 70
Alt22 Alt40 Alt10 Alt50 Alt39 Alt30	230219, 230314 22956 230547 22667 22019	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Monterer Highway BRT BART to Livermore (Phases 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT)	Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Santa Clara Alameda Santa Clara	\$15 \$57 \$5	\$15 \$57 \$5	\$37 \$153 \$16	\$33 \$149 \$15	0.4 0.4 0.3	0.5 0.4 0.3	-10% -3% -5%	69 70 71	69 70 71
Alt22 Alt40 Alt10 Alt50 Alt39	230219, 230314 22956 230547 22667	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Montercy Highway BRT BART to Livermore (Phases 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion	Transit Expansion Transit Efficiency Transit Expansion	Santa Clara Alameda	\$15 \$57 \$5 \$19	\$15 \$57	\$37 \$153	\$33 \$149	0.4	0.5 0.4	-10% -3%	69 70 71 72	69 70 71 72
Alt22 Alt40 Alt10 Alt50 Alt39 Alt30 Alt79 Alt52	230219, 230314 22956 230547 22667 22019 98139 230554	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Monterey Highway BRT BART to Livermore (Phases 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion Sunnyvale-Cupertino BRT Capitol Expressway Light Rail Extension (Phases 2 & 3: to	Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Efficiency	Santa Clara Alameda Santa Clara Alameda Santa Clara	\$15 \$57 \$5 \$19 \$5	\$15 \$57 \$5 \$19 \$5	\$37 \$153 \$16 \$67 \$26	\$33 \$149 \$15 \$60 \$24	0.4 0.4 0.3 0.3	0.5 0.4 0.3 0.3	-10% -3% -5% -10%	69 70 71	69 70 71
Alt22 Alt40 Alt10 Alt50 Alt39 Alt30 Alt79 Alt52	230219, 230314 22956 230547 22667 22019 98139 230554 22978	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Montercy Highway BRT BART to Livermore (Phases 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion Sunnyvale-Cupertino BRT Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency	Santa Clara Alameda Santa Clara Alameda Santa Clara Santa Clara	\$15 \$57 \$5 \$19 \$5	\$15 \$57 \$5 \$19 \$5	\$37 \$153 \$16 \$67 \$26	\$33 \$149 \$15 \$60 \$24	0.4 0.4 0.3 0.3 0.2	0.5 0.4 0.3 0.3 0.2	-10% -3% -5% -10% -10%	69 70 71 72 73	69 70 71 72 73
Alt22 Alt40 Alt10 Alt50 Alt39 Alt30 Alt79 Alt52	230219, 230314 22956 230547 22667 22019 98139 230554	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Monterey Highway BRT BART to Livermore (Phases 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion Sunnyvale-Cupertino BRT Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman) Capitol Corridor Service Frequency Improvements (Oakland to	Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Expansion Transit Efficiency Transit Efficiency	Santa Clara Alameda Santa Clara Alameda Santa Clara	\$15 \$57 \$5 \$19 \$5	\$15 \$57 \$5 \$19 \$5	\$37 \$153 \$16 \$67 \$26	\$33 \$149 \$15 \$60 \$24	0.4 0.4 0.3 0.3 0.2	0.5 0.4 0.3 0.3 0.2	-10% -3% -5% -10% -10%	69 70 71 72 73 74 75	69 70 71 72 73 74 75
Alt22 Alt40 Alt50 Alt39 Alt30 Alt79 Alt52 Alt19 Alt61	230219, 230314 22956 230547 22667 22019 98139 230554 22978 22009	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Monterey Highway BRT BART to Livermore (Phases 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion Sunnyvale-Cupertino BRT Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman) Capitol Corridor Service Frequency Improvements (Oakland to Vasona Light Rail Extension (Phase 2) Union City Commuter Rail Station + Dumbarton Rail Segment G	Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Efficiency Transit Efficiency Transit Expansion Transit Expansion	Santa Clara Alameda Santa Clara Alameda Santa Clara Santa Clara Multi-County	\$15 \$57 \$5 \$19 \$5 \$3 \$1	\$15 \$57 \$5 \$19 \$5 \$3 \$1	\$37 \$153 \$16 \$67 \$26 \$19 \$18	\$33 \$149 \$15 \$60 \$24 \$18 \$18	0.4 0.4 0.3 0.3 0.2 0.2	0.5 0.4 0.3 0.3 0.2 0.2	-10% -3% -5% -10% -10% -2% -1%	69 70 71 72 73	69 70 71 72 73

# TABLE D9: CO2 SENSITIVITY TEST RESULTS

					Original Total	Adjusted Total	Original Total	Adjusted Total					
					Annualized	Annualized	Annualized	Annualized					
					Benefits (in millions of 2013	Benefits (in millions of	Costs (in millions of	Costs (in millions of	Original	Adjusted	Percent Change	Original	Adjusted
Alt Alt90	RTPID# 240182	Alternative BART Metro Program	Mode Transit Efficiency	County Multi-County	dollars)	2013 dollars)	2013 dollars)	2013 dollars)	B/C	B/C	B/C	Rank	Rank
Alt93	240182	Treasure Island Congestion Pricing	Pricing	Regional	\$161 \$69	\$163 \$70	-\$4 \$1	-\$4 \$1	>60 59	>60 60	2%	2	2
Alt85	240522	Congestion Pricing Pilot	Pricing	San Francisco	\$227	\$232	\$5	\$5	45	46	2%	3	3
Alt71 Alt104	22780 22274	AC Transit Grand-MacArthur BRT ITS Improvements in San Mateo County	Transit Efficiency Road Efficiency	Alameda San Mateo	\$32 \$56	\$33 \$61	\$2 \$4	\$2 \$4	18 16	18 17	3% 8%	4 5	4 5
Alt105	240494	ITS Improvements in Santa Clara County	Road Efficiency	Santa Clara	\$752	\$813	\$48	\$48	16	17	8%	5	6
Alt5 Alt53	230419 22062	Freeway Performance Initiative Irvington BART Station	FPI Transit Efficiency	Regional Alameda	\$3,175 \$19	\$3,433 \$19	\$202 \$2	\$202 \$2	16 12	17 12	8% 2%	5 8	7 8
Alt57	240171	SFMTA Transit Effectiveness Project	Transit Efficiency	San Francisco	\$90	\$91	\$8	\$8	11	12	2%	9	9
Alt95	240582	Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency	Regional	\$55	\$55	\$6	\$6	9	9	0%	10	10
Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion	Santa Clara	\$144	\$148	\$21	\$21	7	7	3%	11	11
Alt25	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Road Efficiency	Santa Clara	\$81	\$81	\$12	\$12	7	7	0%	12	12
Alt27 Alt91	94506 98207T	Fremont/Union City East-West Connector Alameda-Oakland BRT + Transit Access Improvements	Arterial Expansion Transit Efficiency	Alameda Alameda	\$65 \$14	\$68 \$14	\$10 \$2	\$10 \$2	7 6	7 6	4% 0%	13 14	13 14
Alt14		US-101 Express Lanes - Whipple to County Line	Road Efficiency	Multi-County	\$123	\$123	\$19	\$19	6	6	0%	15	16
Alt21	230161	Van Ness Avenue BRT	Transit Efficiency	San Francisco	\$44	\$45	\$7	\$7	6	6	2%	16	15
Alt36 Alt80	HOTd 240155	Silicon Valley Express Lanes Network Better Market Street	Express Lanes Netw Transit Efficiency	Multi-County San Francisco	\$408 \$56	\$398 \$57	\$70 \$10	\$70 \$10	6	6	-2% 0%	17 18	17 18
Alt8	22455	AC Transit East Bay BRT	Transit Efficiency	Alameda	\$62	\$62	\$12	\$12	5	5	1%	19	19
Alt49	HOTe	Express Lanes Network E	Express Lanes Netw		\$602	\$597	\$118	\$118	5	5	-1%	20	20
Alt32 Alt96	230468 n/a	I-80 Auxiliary Lanes (Airbase Parkway to I-680) Local Streets and Roads Capital Maintenance Needs	Road Efficiency Maintenance	Solano Regional	\$18 \$1,369	\$18 \$1,369	\$4 \$280	\$4 \$280	5 5	5	-1% 0%	21 22	21 22
					7-,	7-,	7-55				-,-		
Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$331	\$70	\$70	5	5	2%	23	23
Alt47	240134	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (San Francisco To Tamien)	Transit Efficiency	Multi-County	\$153	\$155	\$34	\$34	5	5	2%	24	25
Alt56	240557	Oakdale Caltrain Station	Transit Efficiency	San Francisco	\$3	\$3	\$1	\$1	4	5	6%	25	24
Alt23	240062	SR-84/I-680 Interchange Improvements + SR-84 Widening (Pigeon Pass to I-680)	Highway Expansion	Alameda	\$87	\$89	\$21	\$21	4	4	3%	26	26
Alt38	230294	New SR-152 Alignment	Highway Expansion	Santa Clara	\$148	\$149	\$41	\$41	4	4	1%	27	28
Alt15 Alt97	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown	Transit Expansion	Multi-County	\$108	\$109	\$31	\$31	4	4	1%	28	29
Alt6	240410 21205, 22350	Transportation for Livable Communities I-680/SR-4 Interchange Improvements + SR-4 Widening	Highway Expansion	Regional Contra Costa	\$875 \$65	\$875 \$65	\$255 \$21	\$255 \$21	3	3	0% -1%	29 30	30 31
Alt51	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Transit Efficiency	Solano	\$2	\$2	\$1	\$1	3	3	4%	31	32
Alt58	240617 22227, 240328,	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo) Geneva Avenue Corridor Improvements (Roadway Extension,	Road Efficiency	Napa	\$11	\$10	\$4	\$4	3	2	-4%	32	34
Alt66	240334	BRT, and Southern Intermodal Terminal)	Transit Efficiency	Multi-County	\$36	\$37	\$15	\$15	2	3	3%	33	33
Alt87 Alt17	240147 240026	Southeast Waterfront Transportation Improvements SamTrans El Camino BRT	Transit Efficiency Transit Efficiency	San Francisco San Mateo	\$88 \$59	\$89 \$61	\$36 \$25	\$36 \$25	2	2	1% 4%	34 35	35 36
Alt24	240119	VTA El Camino BRT	Transit Efficiency	Santa Clara	\$28	\$29	\$12	\$12	2	2	3%	36	37
Alt77	00BART	BART Service Frequency Improvements	Transit Efficiency	Multi-County	\$126	\$129	\$56	\$56	2	2	2%	37	38
Alt84 Alt88	230604 580_BUS	Bay Bridge Contraflow Lane I-580 Express Bus (Dublin to Livermore)	Road Efficiency Transit Efficiency	Multi-County Alameda	\$67 \$32	\$67 \$33	\$31 \$16	\$31 \$16	2	2	0% 2%	38 39	39 40
Alt33	240018	Dumbarton Transit Corridor (Phase 1: Express Bus)	Transit Efficiency	Alameda	\$23	\$23	\$12	\$12	2	2	2%	40	41
	22544 22542												
	22511, 22512,	MISTA Samina Supranian (Tananana Jaland Barbalan (Albana											
Alt9	22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)	Transit Expansion	Multi-County	\$41	\$43	\$22	\$22	2	2	5%	41	42
Alt9 Alt73	22122, 230613, 22120, 230581 22605	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Transit Expansion Highway Expansion	Multi-County Contra Costa	\$41 \$15	\$43 \$14	\$22 \$9	\$22 \$9	2	2	5% -6%	41 42	42 50
Alt73 Alt86	22122, 230613, 22120, 230581 22605 00MUNI	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements	Highway Expansion Transit Efficiency	Contra Costa San Francisco	\$15 \$25	\$14 \$25	\$9 \$14	\$9 \$14	2	2	-6% 0%	42 43	50 45
Alt73	22122, 230613, 22120, 230581 22605	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Highway Expansion	Contra Costa	\$15	\$14	\$9	\$9	2	2	-6%	42	50
Alt73 Alt86 Alt2	22122, 230613, 22120, 230581 22605 00MUNI 230164	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network	Highway Expansion Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco	\$15 \$25 \$15	\$14 \$25 \$15	\$9 \$14 \$9	\$9 \$14 \$9	2 2 2	2 2 2	-6% 0% 2%	42 43 44	50 45 44
Alt73 Alt86 Alt2 Alt75 Alt98	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SECTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped	Contra Costa San Francisco San Francisco San Francisco Regional	\$15 \$25 \$15 \$28 \$124	\$14 \$25 \$15 \$29 \$124	\$9 \$14 \$9 \$16 \$73	\$9 \$14 \$9 \$16 \$73	2 2 2 2 2	2 2 2 2	-6% 0% 2% 1% 0%	42 43 44 45 46	50 45 44 46 47
Alt73 Alt86 Alt2 Alt75	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco	\$15 \$25 \$15 \$28	\$14 \$25 \$15 \$29	\$9 \$14 \$9 \$16	\$9 \$14 \$9 \$16	2 2 2 2	2 2 2 2 2	-6% 0% 2% 1%	42 43 44 45	50 45 44 46
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-150 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SFCTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3	\$14 \$25 \$15 \$29 \$124 \$110 \$3	\$9 \$14 \$9 \$16 \$73 \$65 \$2	\$9 \$14 \$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2 2	2 2 2 2 2 2 2	-6% 0% 2% 1% 0% 1% 0%	42 43 44 45 46 47 48	50 45 44 46 47 49 51
Alt73 Alt86 Alt2 Alt75 Alt98	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco Regional	\$15 \$25 \$15 \$28 \$124	\$14 \$25 \$15 \$29 \$124	\$9 \$14 \$9 \$16 \$73	\$9 \$14 \$9 \$16 \$73	2 2 2 2 2 2	2 2 2 2 2 2	-6% 0% 2% 1% 0%	42 43 44 45 46	50 45 44 46 47 49
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$111 \$431 \$1,787	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 2 2 1	2 2 2 2 2 2 2 2 2 4 1	-6% 0% 2% 1% 0% 1% 0% 3% 172% 0%	42 43 44 45 46 47 48 49 50 51	50 45 44 46 47 49 51 48 27 53
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a	Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program)	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	-6% 0% 2% 1% 0% 1% 0% 3% 172%	42 43 44 45 46 47 48 49 50	50 45 44 46 47 49 51 48 27
Alt73 Alt86 Alt2 Alt75 Alt98  Alt106 Alt99  Alt43 Alt100 Alt101 Alt55 Alt63	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$111 \$431 \$1,787 \$6 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 1 1 1	2 2 2 2 2 2 2 2 2 4 1 1	-6% 0% 2% 1% 0% 11% 0% 3% 172% 0% 24 7%	42 43 44 45 46 47 48 49 50 51 52 53	50 45 44 46 47 49 51 48 27 53 52 54
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 1 1	2 2 2 2 2 2 2 2 2 2 4 1	-6% 0% 2% 1% 0% 1% 0% 3% 172% 0% 2%	42 43 44 45 46 47 48 49 50 51	50 45 44 46 47 49 51 48 27 53 52
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$111 \$431 \$1,787 \$6 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 1 1 1	2 2 2 2 2 2 2 2 2 4 1 1	-6% 0% 2% 1% 0% 11% 0% 3% 172% 0% 24 7%	42 43 44 45 46 47 48 49 50 51 52 53	50 45 44 46 47 49 51 48 27 53 52 54
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Multi-County Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$6 \$38 \$278 \$615	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$1,286 \$5 \$4 \$29 \$220 \$510	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510	2 2 2 2 2 2 2 2 2 1 1 1 1 1	2 2 2 2 2 2 2 2 4 1 1 1 1	-6% 0% 2% 1% 0% 1% 0% 3% 172% 0% 4% 4%	42 43 44 45 46 47 48 49 50 51 52 53 54	50 45 44 46 47 49 51 48 27 53 52 54 55 56
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67	22122, 230613, 22120, 230581   22605   00MUNI   240526   22247   240699   n/a   22268   22268   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network  Le30 Express Rus Service Frequency Improvements (Phase 2)	Highway Expansion Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Regional Alameda Regional Multi-County Alameda Multi-County Contra Costa	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$15,787 \$6 \$6 \$3	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$6 \$3 \$38	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$2 \$2 \$2 \$220 \$510 \$111	2 2 2 2 2 2 2 2 1 1 1 1 1 1	2 2 2 2 2 2 2 2 4 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 52 53 54	50 45 44 46 47 49 51 48 27 53 52 54 55 55
Alt73 Alt86 Alt26 Alt27 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt167 Alt1	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  L-680 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$20	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$3 \$3 \$2 \$11 \$431 \$1,787 \$6 \$6 \$3 \$3 \$3 \$3 \$3 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$5110 \$111 \$118	2 2 2 2 2 2 2 2 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1	-6% 0% 2% 1% 0% 1% 0% 1% 0% 3% 172% 0% 2% 7% 4% 4% 2% 1% 3% -5%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	50 45 44 46 47 49 51 48 27 53 52 54 55 55 56 57 58 59
Alt73 Alt86 Alt26 Alt27 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt107 Alt34 Alt83 Alt67 Alt1	22122, 230613, 22120, 230581   22605   00MUN1   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: -Station Rail Extension with Bus BART to Livermore (Phase 2: 1-Station Rail Extension with Bus BART to Livermore (Phase 1: -Station Rail Extension with Bus BART to Livermore (Phase 1: -Station Rail Extension with Bus Barhancements)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Road Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional Regional Regional Multi-County Multi-County Multi-County Multi-County Multi-County Contra Costa Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$37	\$14 \$25 \$15 \$29 \$120 \$110 \$3 \$111 \$431 \$431 \$431 \$431 \$431 \$431 \$56 \$6 \$6 \$38	\$9 \$14 \$9 \$16 \$16 \$17 \$18 \$65 \$2 \$112 \$1,286 \$4 \$29 \$29 \$220 \$510 \$111 \$18	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$4 \$29 \$220 \$510 \$111 \$18	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	50 45 44 46 47 49 51 48 27 53 52 54 55 56 57 58 59
Alt73 Alt86 Alt26 Alt27 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt167 Alt1	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (S-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) +  Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  L880 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$20	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$3 \$3 \$2 \$11 \$431 \$1,787 \$6 \$6 \$3 \$3 \$3 \$3 \$3 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$5110 \$111 \$18	2 2 2 2 2 2 2 2 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1	-6% 0% 2% 1% 0% 1% 0% 1% 0% 3% 172% 0% 2% 7% 4% 4% 2% 1% 3% -5%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	50 45 44 46 47 49 51 48 27 53 52 54 55 55 56 57 58 59
Alt73 Alt86 Alt20 Alt20 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt83 Alt107 Alt84 Alt107 Alt84 Alt84 Alt84 Alt85 Alt107 Alt84 Alt862 Alt104 Alt74 Alt84 Alt862 Alt74 Alt74	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240196   240577   22415   240196   240577   22415   240216	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMID program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Multi-County Alameda Regional San Francisco	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$272 \$606 \$12 \$200 \$150 \$12 \$20 \$150 \$12 \$20 \$150 \$12 \$20 \$21 \$21 \$21 \$21 \$21 \$21 \$21 \$21 \$21 \$21	\$14 \$25 \$15 \$29 \$110 \$3 \$11 \$431 \$	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$336	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,226 \$5 \$4 \$29 \$220 \$5110 \$111 \$18 \$18 \$52 \$44 \$9 \$336	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1 1 1	-6% 0% 0% 2% 1% 0% 1% 0% 1% 4% 4% 4% -5% 4% 0% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61 62	50 45 44 46 47 49 51 48 27 53 52 54 55 56 57 58 59 60 61 62 63
Alt73 Alt86 Alt26 Alt75 Alt98 Alt106 Alt99 Alt101 Alt101 Alt101 Alt103 Alt107 Alt107 Alt104 Alt83 Alt107 Alt104 Alt83 Alt107 Alt104 Alt83 Alt67 Alt104 Alt84 Alt1062 Alt62	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240196   240196   240577   22415	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMID program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail)	Highway Expansion Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Alameda Regional Contra Contra Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Multi-County Contra Costa Multi-County Alameda Regional San Francisco	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$5 \$272 \$500 \$112 \$20 \$20 \$21 \$20 \$21 \$22 \$20 \$21 \$22 \$22 \$22 \$23 \$24 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$5 \$3 \$38 \$278 \$615 \$13 \$19 \$29 \$11 \$431 \$431 \$1,787 \$6 \$6 \$7 \$7 \$8 \$8 \$8 \$8 \$9 \$9 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$2 \$2 \$2 \$2 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$773 \$65 \$2 \$6 \$1112 \$1,286 \$5 \$5 \$2 \$2 \$2 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 4 4 1 1 1 1 1 1 1 1 1 1	-6% 0% 0% 2% 1% 0% 1% 0% 1% 0% 3% 172% 7% 4% 2% 1% 3% -5%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61	50 45 44 46 47 49 51 48 27 53 52 54 55 56 57 58 59 60 61 62
Alt73 Alt86 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt101 Alt107 Alt34 Alt107	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240577   22415   240589   240676, 240679, 240679   240676, 240679   240678    240678   240678    240678   240678   240678    2	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (S-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  1-680 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  Heavy-Duty Truck Replacement [BAAQMD program]  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation [BAAQMD program]	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Climate Maintenance Transit Efficiency Climate	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$272 \$606 \$12 \$20 \$20 \$31 \$12 \$12 \$12 \$12 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$6 \$3 \$278 \$615 \$13 \$13 \$19 \$23 \$23 \$3 \$3 \$3 \$3 \$4 \$1,787 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$29	\$9 \$14 \$9 \$14 \$9 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$54 \$59 \$64 \$59 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1 1 1	-6% 0% 0% 1% 1% 0% 1% 0% 172% 0% 474 4% 2% 1% 3% -5% 4% 0% 2% 13% 143%	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 60 59 61 62 63 64	50 45 44 46 47 49 51 48 27 53 52 54 55 56 57 58 59 60 61 62 63 64 43
Alt73 Alt86 Alt75 Alt98 Alt106 Alt99 Alt43 Alt107 Alt63 Alt107 Alt63 Alt107 Alt64 Alt84 Alt67 Alt64 Alt67 Alt67 Alt67 Alt67 Alt64 Alt67 Alt64 Alt67 Alt67 Alt64 Alt67 Alt7 Alt67 Alt67 Alt7 Alt67 Alt7 Alt7 Alt7 Alt7 Alt7 Alt7 Alt7 Alt	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240591   240196   240577   22415   240216   240589   240677	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network - Ho80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countyvide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] SMART (Phase 2: Extensions to Gloverdale & Larkspur + IOS Cost Deferrals)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Regional Multi-County Mameda Regional Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$220 \$314.80 \$9 \$311 \$315 \$32 \$32 \$315 \$315 \$315 \$315 \$315 \$315 \$315 \$315	\$14 \$25 \$15 \$29 \$120 \$110 \$3 \$111 \$431 \$1,787 \$6 \$6 \$6 \$38 \$278 \$515 \$13 \$19 \$19 \$29 \$31 \$431	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$16 \$73 \$16 \$73 \$17 \$112 \$1,28 \$1,38 \$1,3	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$112 \$1,286 \$29 \$220 \$510 \$111 \$118 \$52 \$54 \$59 \$55 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1	-6% 0% 0% 1% 1% 0% 1% 0% 3% 172% 0% 2% 7% 4% 2% 4% -5% 4% 0% 2% 143%	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 61 62 63 64 64	50 45 44 46 47 49 49 51 51 53 52 54 55 55 56 60 61 62 63 64 43
Alt73 Alt86 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt101 Alt107 Alt34 Alt107	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240577   22415   240520   240589   240676, 240675, 240677   240670   240650   240670    240670    240670   240670    240670   240670    240670	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network - Ho80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countyvide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] SMART (Phase 2: Extensions to Gloverdale & Larkspur + IOS Cost Deferrals)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Climate Maintenance Transit Efficiency Climate	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$272 \$606 \$12 \$20 \$20 \$31 \$12 \$12 \$12 \$12 \$13 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$6 \$3 \$278 \$615 \$13 \$13 \$19 \$23 \$23 \$3 \$3 \$3 \$3 \$4 \$1,787 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$29	\$9 \$14 \$9 \$14 \$9 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$54 \$59 \$64 \$59 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1 1 1	-6% 0% 0% 1% 1% 0% 1% 0% 172% 0% 474 4% 2% 1% 3% -5% 4% 0% 2% 13% 143%	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 60 59 61 62 63 64	50 45 44 46 47 49 51 48 27 53 52 54 55 56 57 58 59 60 61 62 63 64 43
Alt73 Alt86 Alt20 Alt75 Alt98 Alt100 Alt101 Alt51 Alt100 Alt101 Alt53 Alt107 Alt34 Alt107 Alt34 Alt107 Alt141 Alt101 Alt51 Alt101 Alt51 Alt101 Alt51 Alt101 Alt51 Alt101 A	22122, 230613, 22120, 230581   22605   00MUN1   230164   240526   22247   240699   n/a   22268   230550   n/s   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240196   240577   22415   2405677   230252   230219, 230314	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase ± 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamlen) AC Transit Frequent Transit Network EAGD Express Sus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] MART (Phase 2: Extensions to Cloverdale & Larkspur+ IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Colden Gate Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional Regional Multi-County Multi-County Alameda Multi-County Alameda Regional San Francisco Multi-County Alameda Multi-County Multi-County Alameda Regional Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$37 \$272 \$606 \$112 \$20 \$31 \$158 \$1,787 \$6 \$6 \$1,787 \$	\$14 \$25 \$15 \$29 \$110 \$3 \$111 \$431 \$431 \$431 \$431 \$431 \$431 \$56 \$6 \$6 \$8 \$278 \$615 \$13 \$19 \$22 \$32 \$32 \$32 \$32 \$431 \$4	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$18 \$52 \$44 \$9 \$9 \$36 \$41 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$52 \$544 \$536 \$541 \$52 \$544 \$552 \$544	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$9 \$36 \$41 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$5	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 60 65 64 65 66 67	50 45 44 46 47 49 51 52 54 55 55 56 57 58 59 60 61 62 63 64 43 66 65 67
Alt73 Alt86 Alt106 Alt20 Alt79 Alt81 Alt106 Alt101 Alt99 Alt40 Alt107 Alt83 Alt107 Alt83 Alt107 Alt84 Alt81 Alt107 Alt84 Alt81 Alt107 Alt84 Alt108 Alt109 Alt109 Alt101	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240577   22415   240520   240589   240676, 240675, 240677   240670   240650   240670    240670    240670   240670    240670   240670    240670	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (S-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  L-680 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  Heavy-Duty Truck Replacement [BAQQMD program]  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation [BAAQMD program]  SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Defernals)  Marin Countywide Bus Service Frequency Improvements  Golden Gate Bus Service Frequency Improvements	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Multi-County San Francisco	\$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$37 \$2772 \$606 \$12 \$20 \$3 \$3 \$10 \$158 \$1,787 \$6 \$1,787 \$6 \$1,787 \$1,78	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$6 \$5 \$38 \$278 \$615 \$13 \$19 \$29 \$29 \$29 \$29 \$29 \$29 \$29 \$30 \$30 \$30 \$431	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,1286 \$53 \$4 \$29 \$220 \$510 \$11 \$11 \$11 \$51 \$25 \$44 \$9 \$36 \$41 \$52 \$44 \$9 \$36 \$41 \$52 \$44 \$59 \$58 \$58	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$11 \$11 \$11 \$511 \$52 \$44 \$9 \$64 \$52 \$52 \$53 \$54 \$53 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 63 64 65 66 66 67	50 45 44 46 47 49 51 51 52 52 54 55 55 56 57 58 60 61 62 63 64 43 66 65 67
Alt73 Alt86 Alt106 Alt107 Alt98 Alt108 Alt108 Alt109 Alt101 Alt10	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240196   240577   22415   240690   240589   240677   240589   240676, 240677   240589   240677   230525   230219, 230314   22956   230547   220567	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Ferformance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  1-680 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 2: Thou Lanes)  BART to Livermore (Phase 2: Liversion Rail)  Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation [BAAQMD program]  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation [BAAQMD program]  SMART (Phase 2: Extensions to Cloverdale & Larkspur+ IOS Cost Defernals)  Marin Countywide Bus Service Frequency Improvements  Golden Gate Bus Service Frequency Improvements	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Alameda Sonoma Regional San Francisco Alameda Sonoma Regional	\$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$31 \$32 \$10 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$14 \$25 \$15 \$29 \$120 \$110 \$3 \$111 \$431 \$1,787 \$6 \$6 \$6 \$38 \$2278 \$615 \$13 \$19 \$22 \$23 \$24 \$25 \$29 \$29 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$29 \$220 \$510 \$111 \$18 \$18 \$18 \$29 \$29 \$310 \$311 \$312 \$320 \$311 \$312 \$320 \$337 \$317 \$317	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$4 \$29 \$220 \$510 \$111 \$111 \$12 \$52 \$44 \$9 \$36 \$41 \$52 \$54 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 62 63 64 65 66 67 68 69 70	50 45 44 46 47 49 51 51 52 52 54 55 55 56 57 58 60 61 62 63 64 43 66 65 67 68 69 70
Alt73 Alt86 Alt75 Alt98 Alt106 Alt107 Alt108 Alt109 Alt410 Alt101	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   24057   24057   240589   240676, 240677   230252   230219, 230314   22956   230547   22667   22667   22667   22059	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  AC Transit Frequent Transit Network  LeSB0 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  Heavy-Duty Truck Replacement (BAAQMO program)  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)  Montercy Highway BRT  BART to Uvermore (Phases 1 & 2: Rail Extension)  Downtown Ext Valley (Phase 2: LETT)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Expansion Transit Expansion Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Multi-County Alameda Multi-County San Francisco Alameda Multi-County San Francisco Alameda San Francisco Alameda San Francisco S	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$37 \$272 \$506 \$41.80 \$9 \$316 \$4 \$15 \$57 \$57 \$57	\$14 \$25 \$15 \$29 \$110 \$3 \$11 \$431 \$431 \$5,787 \$6 \$6 \$6 \$7 \$8 \$10 \$3 \$3 \$11 \$431 \$1,787 \$6 \$6 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$16 \$73 \$16 \$73 \$17 \$112 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$111 \$111 \$111 \$111 \$111 \$11	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$18 \$52 \$54 \$59 \$52 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 55 56 60 60 63 64 65 66 67 70 70 71	50 45 44 46 47 49 51 53 52 54 55 56 57 58 59 60 61 62 63 64 43 66 65 67 70
Alt13Alt13Alt13Alt13Alt13Alt13Alt13Alt13	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240196   240577   22415   240690   240589   240677   240589   240676, 240677   240589   240677   230525   230219, 230314   22956   230547   220567	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program)  Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Busenhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  L-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Busenhancements)  Heavy-Duty Truck Replacement (BAAQMID program)  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMID program)  Mistoric Streetcar Expansions to Cloverdale & Larkspur + IOS Cost Deferrals)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMID program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMID program)  Marin Countywide Bus Service Frequency Improvements  Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)  Montercy Highway BRT  BART to Livermore (Phase 1: & 2: Rail Extension)  Downtown East Valley (Phase 2: LRT)  ACE Expansion	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Alameda Sonoma Regional San Francisco Alameda Sonoma Regional	\$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$6 \$37 \$272 \$606 \$12 \$20 \$3 \$3 \$1,87 \$1,8	\$14 \$25 \$15 \$29 \$120 \$110 \$3 \$111 \$431 \$1,787 \$6 \$6 \$6 \$38 \$2278 \$615 \$13 \$19 \$22 \$23 \$24 \$25 \$29 \$29 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$29 \$220 \$510 \$111 \$18 \$18 \$18 \$29 \$29 \$310 \$311 \$312 \$320 \$311 \$312 \$320 \$337 \$317 \$317	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$4 \$29 \$220 \$510 \$111 \$111 \$12 \$52 \$44 \$9 \$36 \$41 \$52 \$54 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 4 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 62 63 64 65 66 67 68 69 70	50 45 44 46 47 49 51 51 52 52 54 55 55 56 57 58 60 61 62 63 64 43 66 65 67 68 69 70
Alt73 Alt86 Alt106 Alt106 Alt107 Alt99 Alt107 Alt107 Alt108 Alt107 Alt107 Alt107 Alt107 Alt107 Alt108 Alt107 Alt108 Alt107 Alt108 Alt107 Alt108 Alt109 Alt10	22122, 230613, 22120, 230581   22605   00MUN1   230164   240526   22247   240699   n/a   22268   230550   n/s   240521, 21627   00ACT1   23015   240521, 21627   00ACT1   240521, 240521   240521, 240521   240527   240527   240527   240527   240527   240527   240527   240527   240527   240529	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  F-808 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  Heavy-Duity Truck Replacement (BAAQMD program)  Historic Streetar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  Golden Gate Bus Service Frequency Improvements  Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)  Montercy Highway BRT  BART to Livermore (Phases 1 & 2: Rail Extension)  Downtown Eastral Valley (Phase 2: LET)  ACE Expansion	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional San Mateo Regional Regional Multi-County Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County San Francisco Multi-County Alameda Multi-County San Francisco Alameda Sonoma Multi-County Marin Multi-County Marin Multi-County Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$112 \$20 \$12 \$20 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	\$14 \$25 \$15 \$29 \$110 \$3 \$111 \$431 \$431 \$431 \$431 \$431 \$56 \$6 \$6 \$6 \$38 \$278 \$615 \$13 \$19 \$29 \$32 \$32 \$33 \$431 \$4	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$12 \$12 \$29 \$36 \$41 \$512 \$512 \$52 \$544 \$552 \$544 \$552 \$544 \$552 \$544 \$552 \$545 \$555 \$55	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$51 \$2 \$4 \$29 \$220 \$510 \$511 \$118 \$52 \$44 \$9 \$36 \$41 \$512 \$52 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 62 63 64 65 66 67 70 70 71 72 73	50 45 44 44 46 47 47 51 51 52 52 54 55 56 67 70 70 72 73 68 69 77 72 73
Alt73 Alt86 Alt106 Alt107 Alt99 Alt107 Alt91 Alt107	22122, 230613, 22120, 230581   22605   00MUN1   230164   240526   22247   240699   n/a   22268   230550   n/s   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240577   240516   240560   240567   240577   230252   230219, 230314   229567   23054   229567   22057   230554   22059   230554	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (S-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  F-808 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: HOV Lanes)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  Heavy-Duity Truck Replacement (BAAQMD program)  Historic Streetar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  FV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  FV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  FV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  FV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  FV Solar Installation (BAAQMD program)  Marin Countywide Bus Service Frequency Improvements  Golden Gate Bus Service Frequency Improvements  Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)  Montercy Highway BRT  BART to Livermore (Phases 1 & 2: Rail Extension)  Domothown Eastral Walley (Phase	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Regional Regional Regional Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Sonoma Regional San Francisco Multi-County San Francisco Multi-County Alameda Sonoma Regional San Francisco San Francis	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$100 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$220 \$12 \$20 \$100	\$14 \$25 \$15 \$29 \$110 \$3 \$111 \$431 \$431 \$431 \$431 \$4,787 \$6 \$6 \$6 \$6 \$38 \$278 \$615 \$13 \$19 \$22 \$23 \$32 \$33 \$431 \$	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$12 \$29 \$210 \$220 \$220 \$220 \$220 \$220 \$220 \$220	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$94 \$516 \$510 \$511 \$118 \$518 \$52 \$54 \$510 \$510 \$511 \$518 \$52 \$54 \$550 \$510 \$511 \$518 \$52 \$54 \$550 \$550 \$510 \$511 \$518 \$552 \$540 \$550 \$550 \$550 \$550 \$550 \$550 \$550	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 60 60 62 63 64 65 66 67 70 70 72 73 74	50 45 44 44 46 46 47 51 52 52 54 55 56 57 58 59 60 61 61 62 63 66 65 67 70 71 72 73 74 47 75
Alt73 Alt86 Alt106 Alt107 Alt99 Alt106 Alt107 Alt10	22122, 230613, 22120, 230581   22605   00MUNI   230164   240526   22247   240699   n/a   22268   230550   n/a   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240196   240577   22415   240690   240589   240677   22019   24057   22019   24057   22019   24057	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Ferformance Initiative Regional Bikewary Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (S-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  1-880 Express Bus Service Frequency Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 2: Lorumuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  W Solar Installation [BAAQMD program]  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail)  Sonoma Countywide Bus Service Frequency Improvements  W Solar Installation [BAAQMD program]  SMART (Phase 2: Extensions to Cloverdale & Larkspur+ IOS Cost Defernals)  Marin Countywide Bus Service Frequency Improvements  Golden Gate Bus Service Frequency Imp	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda Sonoma Regional Santa Clara	\$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$2772 \$606 \$12 \$200 \$31 \$32 \$10 \$158 \$1,787 \$6 \$6 \$1,787 \$6 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,877 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$1,787 \$1,787 \$1,787 \$1,787 \$2,722 \$606 \$1,12 \$2,00 \$1,12 \$2,00 \$1,12	\$14 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$431 \$1,787 \$6 \$6 \$6 \$38 \$2278 \$615 \$13 \$19 \$228 \$232 \$32 \$33 \$10 \$34 \$431	\$9 \$14 \$9 \$14 \$9 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$51 \$4 \$29 \$220 \$510 \$111 \$118 \$18 \$12 \$29 \$34 \$51 \$11 \$12 \$12 \$29 \$36 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$111 \$128 \$52 \$44 \$9 \$112 \$112 \$112 \$112 \$112 \$113 \$112 \$112	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 4 4 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 63 64 65 66 67 67 68 69 70 70 71 71 72 73	50 45 44 46 47 49 51 51 52 54 55 56 57 58 59 60 61 62 63 64 43 66 65 67 68 69 70 71 71 72 73 73 74
Alt73 Alt86 Alt106 Alt107 Alt98 Alt108 Alt108 Alt109 Alt107 Alt31 Alt107 Alt34 Alt36 Alt107 Alt34 Alt107 Alt34 Alt107 Alt34 Alt107 Alt10	22122, 230613, 22120, 230581   22605   00MUN1   230164   240526   22247   240699   n/a   22268   230550   n/s   240545   230055   LBART   240521, 21627   00ACT1   22343   98147, 240691   240577   240516   240560   240567   240577   230252   230219, 230314   229567   23054   229567   22057   230554   22059   230554	Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Glimate Initiatives (S-year program)  Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)  Heavy-Duty Truck Replacement (BAAQMID program)  Historic Streetcar Expansion Program  Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements  EV Solar Installation (BAAQMID program)  Mart (Davis Service Frequency Improvements  EV Solar Installation (BAAQMID program)  Mart (Davis Service Frequency Improvements  EV Solar Installation (BAAQMID program)  Mart (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)  Marin Countywide Bus Service Frequency Improvements  Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)  Montercy Highway BRT  BART to Livermore (Phases 1 & 2: Rail Extension)  Downtown East Valley (Phase 2: LETT)  ACE Expansion  Light Rail Extension (Phase 2)  Livino City Commuter Rail Station + Dumbarton Rail Segment G  Vasona Light Rail Extension (Phase 2)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Regional Regional Regional Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Sonoma Regional San Francisco Multi-County San Francisco Multi-County Alameda Sonoma Regional San Francisco San Francis	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$100 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$220 \$12 \$20 \$100	\$14 \$25 \$15 \$29 \$110 \$3 \$111 \$431 \$431 \$431 \$431 \$4,787 \$6 \$6 \$6 \$6 \$38 \$278 \$615 \$13 \$19 \$22 \$23 \$32 \$33 \$431 \$	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$12 \$29 \$210 \$220 \$220 \$220 \$220 \$220 \$220 \$220	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$94 \$12 \$29 \$21 \$220 \$311 \$318 \$32 \$33 \$31 \$312 \$32 \$33 \$313 \$313 \$313	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	-6% -6% -6% -6% -6% -6% -6% -6% -6% -6%	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 60 60 62 63 64 65 66 67 70 70 72 73 74	50 45 44 46 47 49 51 52 54 55 55 56 57 58 59 60 61 62 63 64 43 66 65 67 70 70 72 72 73 74

# TABLE D10: COLLISION SENSITIVITY TEST RESULTS

					Original Total	Adjusted Total	Original Total	Adjusted Total					
					Annualized Benefits (in	Annualized Benefits (in	Annualized Costs (in	Annualized Costs (in			Percent		
					millions of 2013	millions of	millions of	millions of	Original	Adjusted	Change	Original	Adjusted
Alt Alt90	RTPID# 240182	Alternative BART Metro Program	Mode Transit Efficiency	County Multi-County	dollars) \$161	2013 dollars) \$163	2013 dollars) -\$4	2013 dollars) -\$4	B/C >60	B/C >60	B/C	Rank 1	Rank 1
Alt93	240694	Treasure Island Congestion Pricing	Pricing	Regional	\$69	\$70	\$1	\$1	59	60	2%	2	2
Alt85	240522	Congestion Pricing Pilot	Pricing	San Francisco	\$227	\$232	\$5 \$2	\$5 \$2	45	46	2% 1%	3	3
Alt71 Alt104	22780 22274	AC Transit Grand-MacArthur BRT ITS Improvements in San Mateo County	Transit Efficiency Road Efficiency	Alameda San Mateo	\$32 \$56	\$32 \$57	\$2 \$4	\$2 \$4	18 16	18 16	1%	5	5
Alt105	240494	ITS Improvements in Santa Clara County	Road Efficiency	Santa Clara	\$752	\$763	\$48	\$48	16	16	1%	5	5
Alt5 Alt53	230419 22062	Freeway Performance Initiative Irvington BART Station	FPI Transit Efficiency	Regional Alameda	\$3,175 \$19	\$3,222 \$19	\$202 \$2	\$202 \$2	16 12	16 12	1% 1%	5 8	7
Alt57	240171	SFMTA Transit Effectiveness Project	Transit Efficiency	San Francisco	\$90	\$90	\$8	\$8	11	11	1%	9	9
Alt95	240582	Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency	Regional	\$55	\$55	\$6	\$6	9	9	0%	10	10
Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion	Santa Clara	\$144	\$145	\$21	\$21	7	7	1%	11	11
Alt25	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Road Efficiency	Santa Clara	\$81	\$81	\$12	\$12	7	7	0%	12	12
Alt27 Alt91	94506 98207T	Fremont/Union City East-West Connector Alameda-Oakland BRT + Transit Access Improvements	Arterial Expansion Transit Efficiency	Alameda	\$65 \$14	\$66 \$14	\$10 \$2	\$10 \$2	7	7	1% 0%	13 14	13 14
Alt14		US-101 Express Lanes - Whipple to County Line	Road Efficiency	Alameda Multi-County	\$123	\$123	\$19	\$19	6	6	1%	15	15
Alt21	230161	Van Ness Avenue BRT	Transit Efficiency	San Francisco	\$44	\$44	\$7	\$7	6	6	1%	16	16
Alt36 Alt80	HOTd 240155	Silicon Valley Express Lanes Network Better Market Street	Express Lanes Netw Transit Efficiency	Multi-County San Francisco	\$408 \$56	\$391 \$57	\$70 \$10	\$70 \$10	6	6	-4% 1%	17 18	18 17
Alt8	22455	AC Transit East Bay BRT	Transit Efficiency	Alameda	\$62	\$62	\$12	\$10	5	5	0%	19	19
Alt49	НОТе	Express Lanes Network E	Express Lanes Netw		\$602	\$594	\$118	\$118	5	5	-1%	20	21
Alt32 Alt96	230468 n/a	I-80 Auxiliary Lanes (Airbase Parkway to I-680) Local Streets and Roads Capital Maintenance Needs	Road Efficiency Maintenance	Solano Regional	\$18 \$1,369	\$18 \$1,369	\$4 \$280	\$4 \$280	5 5	5	2% 0%	21 22	20 22
AICO	11/4	Eocal Streets and Roads Capital Maintenance Needs	waintenance	Regional	<b>71,303</b>	<b>\$1,30</b> 3	<b>9200</b>	9200			0/0		
Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$331	\$70	\$70	5	5	2%	23	23
Alt47	240134	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (San Francisco To Tamien)	Transit Efficiency	Multi-County	\$153	\$155	\$34	\$34	5	5	2%	24	24
Alt56	240134	Oakdale Caltrain Station	Transit Efficiency	San Francisco	\$153	\$155	\$34 \$1	\$34 \$1	4	5	3%	25	25
		SR-84/I-680 Interchange Improvements + SR-84 Widening											
Alt23 Alt38	240062 230294	(Pigeon Pass to I-680) New SR-152 Alignment	Highway Expansion Highway Expansion	Alameda Santa Clara	\$87 \$148	\$87 \$155	\$21 \$41	\$21 \$41	4	4	0% 5%	26 27	26 27
Alt15	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown	Transit Expansion	Multi-County	\$108	\$109	\$31	\$31	4	4	1%	28	28
Alt97 Alt6	240410 21205, 22350	Transportation for Livable Communities I-680/SR-4 Interchange Improvements + SR-4 Widening	TLC Highway Expansion	Regional Contra Costa	\$875 \$65	\$875 \$65	\$255 \$21	\$255 \$21	3	3	0% 0%	29 30	29 30
Alt51	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Transit Efficiency	Solano	\$2	\$2	\$1	\$1	3	3	-1%	31	31
Alt58	240617 22227, 240328,	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)	Road Efficiency	Napa	\$11	\$11	\$4	\$4	3	3	5%	32	32
Alt66	240334	Geneva Avenue Corridor Improvements (Roadway Extension, BRT, and Southern Intermodal Terminal)	Transit Efficiency	Multi-County	\$36	\$36	\$15	\$15	2	3	1%	33	33
Alt87	240147	Southeast Waterfront Transportation Improvements	Transit Efficiency	San Francisco	\$88	\$89	\$36	\$36	2	2	1%	34	34
Alt17 Alt24	240026 240119	SamTrans El Camino BRT VTA El Camino BRT	Transit Efficiency Transit Efficiency	San Mateo Santa Clara	\$59 \$28	\$59 \$28	\$25 \$12	\$25 \$12	2	2	1% 1%	35 36	36 35
Alt77	00BART	BART Service Frequency Improvements	Transit Efficiency	Multi-County	\$126	\$128	\$56	\$56	2	2	2%	37	37
Alt84	230604	Bay Bridge Contraflow Lane	Road Efficiency	Multi-County	\$67	\$67	\$31	\$31	2	2	0%	38	38
Alt88	580_BUS	I-580 Express Bus (Dublin to Livermore)	Transit Efficiency	Alameda	\$32	\$33	\$16	\$16	2	2	3%	39	40
AI+22	240019	Dumbarton Transit Corridor (Dhaco 1: Evaross Bus)	Transit Efficiency										41
Alt33	240018 22511, 22512,	Dumbarton Transit Corridor (Phase 1: Express Bus)	Transit Efficiency	Alameda	\$23	\$23	\$12	\$12	2	2	1%	40	41
	22511, 22512, 22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany,		Alameda	\$23	\$23	\$12	\$12	2	2	1%	40	
Alt9	22511, 22512, 22122, 230613, 22120, 230581	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)	Transit Expansion	Alameda Multi-County	\$23 \$41	\$23 \$42	\$12 \$22	\$12 \$22	2	2	1% 2%	40	42
	22511, 22512, 22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)		Alameda	\$23	\$23	\$12	\$12	2	2	1%	40	
Alt9 Alt73 Alt86 Alt2	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco	\$23 \$41 \$15 \$25 \$15	\$23 \$42 \$17 \$25 \$15	\$12 \$22 \$9 \$14 \$9	\$12 \$22 \$9 \$14 \$9	2 2 2 2 2	2 2 2 2 2	1% 2% 12% 0% 1%	41 42 43 44	42 39 43 44
Alt9 Alt73 Alt86 Alt2 Alt75	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164 240526	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco San Francisco	\$41 \$15 \$25 \$15 \$28	\$42 \$17 \$25 \$15 \$29	\$12 \$22 \$9 \$14 \$9 \$16	\$12 \$22 \$9 \$14 \$9 \$16	2 2 2 2 2 2	2 2 2 2 2 2	1% 2% 12% 0% 1% 1%	41 42 43 44 45	42 39 43 44 45
Alt9 Alt73 Alt86 Alt2	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco	\$23 \$41 \$15 \$25 \$15	\$23 \$42 \$17 \$25 \$15	\$12 \$22 \$9 \$14 \$9	\$12 \$22 \$9 \$14 \$9	2 2 2 2 2	2 2 2 2 2	1% 2% 12% 0% 1%	41 42 43 44	42 39 43 44
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108	\$23 \$42 \$17 \$25 \$15 \$29 \$124	\$12 \$22 \$9 \$14 \$9 \$16 \$73	\$12 \$22 \$9 \$14 \$9 \$16 \$73	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	1%  2%  12%  0%  1%  1%  1%	41 42 43 44 45 46	42 39 43 44 45 46
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped	Alameda  Multi-County Contra Costa San Francisco San Francisco San Francisco Regional	\$23 \$41 \$15 \$25 \$15 \$28 \$124	\$23 \$42 \$17 \$25 \$15 \$29 \$124	\$12 \$22 \$9 \$14 \$9 \$16 \$73	\$12 \$22 \$9 \$14 \$9 \$16 \$73	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2	1% 2% 12% 0% 1% 1% 0%	41 42 43 44 45 46	42 39 43 44 45 46
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108	\$23 \$42 \$17 \$25 \$15 \$29 \$124	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	1%  2%  12%  0%  1%  1%  1%	41 42 43 44 45 46	42 39 43 44 45 46
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100	22511, 22512, 22122, 230613, 22102, 230618 22605 00MUNI 230164 240526 22247 240699 n/a	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Impto Initiatives (5-year program)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate	Alameda Multi-County Contra Costa San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2	1%  2%  12%  0%  1%  1%  0%  1%  1%  1%	41 42 43 44 45 46 47 48 49 50	42 39 43 44 45 46 47 49
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101	22511, 22512, 22122, 230613, 22102, 230613, 22605 00MUNI 230164 240526 22247 240699 n/a 22268 22268 22268	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Climate Initiatives (S-year program) Transit Capital Maintenance Needs	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159 \$1,787	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2	1%  2%  12%  0%  1%  1%  0%  1%  1%  0%  1%  0%	41 42 43 44 45 46 47 48	42 39 43 44 45 46 47 49 48 50 52
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100	22511, 22512, 22122, 230613, 22102, 230618 22605 00MUNI 230164 240526 22247 240699 n/a	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Limate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Maintenance Maintenance Maintenance	Alameda Multi-County Contra Costa San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2 2 2 2 2 2 2 1 1	2 2 2 2 2 2 2 2 2 2 2 1	1%  2%  12%  0%  1%  1%  0%  1%  1%  1%	41 42 43 44 45 46 47 48 49 50	42 39 43 44 45 46 47 49
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63	22511, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230550	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco San Francisco San Francisco Regional  Alameda Regional San Mateo Regional San Francisco Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159 \$1,787 \$6 \$6	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$2 \$112 \$1,286 \$5	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4	2 2 2 2 2 2 2 2 2 2 1 1 1	2 2 2 2 2 2 2 2 2 2 1 1 1	1%  2% 12% 0% 1% 1% 0%  1% 0%  1% 4%	41 42 43 44 45 46 47 48 49 50 51 52 53	42 39 43 44 45 46 47 49 48 50 52 51 53
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	22511, 22512, 22122, 230613, 22102, 230613, 22102, 23065   00MUNI 230164   240526   22247   240699   n/a   22268   230550   n/a   240545	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Limate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bisk/Ped Transit Efficiency Maintenance Transit Efficiency Glimate Maintenance Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco Regional  Alameda Regional  San Mateo Regional San Francisco	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159 \$1,787 \$6	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 2 2 2 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1	1%  2% 12% 0% 1% 1% 0%  1% 0%  11% 0%  11% 11% 0% 11%	41 42 43 44 45 46 47 48 49 50 51	42 39 43 44 45 46 47 49 48 50 52 51
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98  Alt106 Alt99  Alt43 Alt100 Alt101 Alt55 Alt63  Alt107	22511, 22512, 22512, 22512, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Alameda Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$15,787 \$6 \$6 \$3 \$3	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$11,28 \$1,28 \$4 \$29	\$12 \$22 \$9 \$14 \$9 \$15 \$73 \$65 \$2 \$6 \$11,286 \$5 \$4 \$29	2 2 2 2 2 2 2 2 2 2 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1	1%  2% 12% 0% 1% 1% 0%  1% 0%  4% 2%	41 42 43 44 45 46 47 48 49 50 51 52 53	42 39 43 44 45 46 47 49 48 50 52 51 53
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83	22511, 22512, 22122, 230613, 22120, 230581 22505 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikwawy Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamlen) AC Transit Frequent Transit Network	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Efficiency Climate Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Alameda Multi-County Multi-County Multi-County Multi-County Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$5006	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$15 \$6 \$6 \$3 \$3 \$41 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$29	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1	1%  2%  12%  0%  1%  1%  0%  1%  1%  0%  2%  2%  1%	41 42 43 44 45 46 47 48 49 50 51 52 53 54	42 39 43 44 45 46 47 49 48 50 52 51 53 54
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98  Alt106 Alt99  Alt43 Alt100 Alt101 Alt55 Alt63  Alt107	22511, 22512, 22512, 22512, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)  SR-8 Bypass Completion (SR-150 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase ± 1: -Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Alameda Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$15,787 \$6 \$6 \$3 \$3	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$11,28 \$1,28 \$4 \$29	\$12 \$22 \$9 \$14 \$9 \$15 \$73 \$65 \$2 \$6 \$11,286 \$5 \$4 \$29	2 2 2 2 2 2 2 2 2 2 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1	1%  2% 12% 0% 1% 1% 0%  1% 0%  4% 2%	41 42 43 44 45 46 47 48 49 50 51 52 53	42 39 43 44 45 46 47 49 48 50 52 51 53
Alt9 Alt73 Alt86 Alt26 Alt27 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1	22511, 22512, 22122, 230613, 22120, 230613, 222605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SECTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Frandisco to Tamien) AC Transit Frequent Transit Network 1-880 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: 1-Station Rail Extension with Bus BaRT to Livermore (Phase 1: 1-Station Rail Extension with Bus BaRT to Livermore (Phase 2: 1-Station Rail Extension with Bus	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Efficiency Transit Efficiency Climate Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Alameda Regional Alameda Regional County Multi-County Multi-County Contra Costa Multi-County Contra Costa Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$5006 \$112 \$20	\$23 \$42 \$17 \$25 \$15 \$25 \$124 \$110 \$3 \$111 \$159 \$1,787 \$6 \$6 \$3 \$3 \$29 \$124 \$110 \$3 \$110 \$3 \$110 \$	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$112 \$1,286 \$5 \$4 \$29 \$220 \$310 \$111 \$18	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$2 \$1,286 \$5 \$4 \$22 \$112 \$12 \$12 \$12 \$12 \$13 \$14 \$16 \$16 \$16 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	1%  2%  12%  0%  1%  1%  0%  1%  1%  0%  3%  1%  4%  2%  2%  1%  2%  -3%	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	42 39 43 44 45 46 47 49 48 50 52 51 53 54 55 56 57 58
Alt9 Alt73 Alt86 Alt26 Alt27 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1 Alt54	22511, 22512, 22512, 22122, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Gilmate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L980 Express Rus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus BART to Livermore (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Road Efficiency Road Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Multi-County Alameda	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$122 \$220	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$15 \$6 \$6 \$6 \$3 \$277 \$613 \$12 \$19 \$19 \$19 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1	1%  2%  12%  0%  1%  0%  1%  0%  1%  2%  2%  2%  2%	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	42 39 43 44 45 46 47 49 48 50 52 51 53 54 55 56 57 58
Alt9 Alt73 Alt86 Alt20 Alt75 Alt98 Alt106 Alt99 Alt43 Alt101 Alt102	22511, 22512, 22122, 230613, 22120, 230581 222605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240196 240196 240196 240196 240196 240196 240196	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-150 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamlen) AC Transit Frequent Transit Network F-808 Express Sus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Uvermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program]	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Contra Costa Multi-County Contra Costa Multi-County Contra Costa Multi-County Alameda Multi-County Alameda Regional San Francisco	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$108 \$3 \$108 \$3 \$108 \$3 \$108 \$3 \$124 \$108 \$3 \$108 \$3 \$108 \$1	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159 \$6 \$6 \$6 \$3 \$277 \$613 \$12 \$19 \$19 \$19 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	\$12 \$22 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$18 \$18	\$12 \$22 \$9 \$14 \$9 \$16 \$15 \$65 \$2 \$65 \$1,286 \$5 \$1,286 \$5 \$4 \$29 \$220 \$511 \$118 \$118 \$118	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 0% 11% 2% 2% 2% 2% 2% 2% 11% 2% 11% 2% 11%	40 41 42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 60 61 61	42 39 43 44 45 46 47 49 48 50 52 51 53 54 55 56 57 58 59 60 61
Alt9 Alt73 Alt86 Alt20 Alt75 Alt98 Alt106 Alt99 Alt43 Alt101 Alt51 Alt107 Alt34 Alt107 Alt108 Alt109 Alt1	22511, 22512, 22112, 230613, 22120, 230581 22605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 38147, 240691 240577 22415 240577 22415 240216	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SECTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMIO program) Historic Streetcar Expansion Program	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Biske/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion Climate Transit Efficiency Transit Expansion Climate Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco Regional Alameda Regional San Francisco Regional Alameda Multi-County Multi-County Multi-County Alameda Regional San Francisco Multi-County Multi-County Alameda	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$50 \$42 \$9 \$3	\$23 \$42 \$17 \$25 \$15 \$25 \$124 \$110 \$3 \$115 \$5 \$6 \$6 \$38 \$2277 \$613 \$12 \$19 \$19 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$29 \$220 \$310 \$111 \$111 \$112 \$112 \$113 \$114 \$112	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$111 \$112 \$124 \$29 \$34 \$34 \$35 \$45 \$45 \$45 \$45 \$45 \$45 \$45 \$4	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 0% 1% 1% 2% 2% 2% 2% 1% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 60 59 61 62	42 39 43 44 45 46 47 49 48 50 52 51 53 54 55 56 57 58 59 60 61 62
Alt9 Alt73 Alt86 Alt20 Alt75 Alt98 Alt106 Alt99 Alt43 Alt101 Alt102	22511, 22512, 22122, 230613, 22120, 230581 222605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240196 240196 240196 240196 240196 240196 240196	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SECTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMIO program) Historic Streetcar Expansion Program	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Contra Costa Multi-County Contra Costa Multi-County Contra Costa Multi-County Alameda Multi-County Alameda Regional San Francisco	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$108 \$3 \$108 \$3 \$108 \$3 \$108 \$3 \$124 \$108 \$3 \$108 \$3 \$108 \$1	\$23 \$42 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$159 \$6 \$6 \$6 \$3 \$277 \$613 \$12 \$19 \$19 \$19 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	\$12 \$22 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$18 \$18	\$12 \$22 \$9 \$14 \$9 \$16 \$15 \$65 \$2 \$65 \$1,286 \$5 \$1,286 \$5 \$4 \$29 \$220 \$511 \$118 \$118 \$118	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 0% 11% 2% 2% 2% 2% 2% 2% 11% 2% 11% 2% 11%	40 41 42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 60 61 61	42 39 43 44 45 46 47 49 48 50 52 51 53 54 55 56 57 58 59 60 61
Alt9 Alt73 Alt86 Alt86 Alt86 Alt87 Alt98 Alt106 Alt90 Alt91 Alt107 Alt93 Alt107	22511, 22512, 22112, 230613, 22120, 230581 22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 22343 98147, 240691 240577 22415 240592 240577 240589 240676, 240678	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: Hot Valnes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAQQMD program] Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements V Solar Installation [BAAQMD program]	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Multi-County Multi-County Multi-County Contra Costa Multi-County Alameda Multi-County Alameda Regional San Francisco Multi-County Alameda Regional Regional Regional Regional Regional Regional Regional Regional	\$23 \$41 \$15 \$25 \$15 \$28 \$108 \$3 \$100 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$32 \$32 \$31 \$32 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$23 \$42 \$17 \$25 \$15 \$25 \$124 \$110 \$3 \$11 \$159 \$1,787 \$6 \$6 \$6 \$6 \$6 \$122 \$122 \$123 \$124 \$150	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$2 \$29 \$20 \$111 \$11 \$12 \$29 \$20 \$44 \$9 \$9 \$44 \$9 \$14 \$26 \$44 \$46 \$46 \$46 \$46 \$46 \$46 \$46 \$46 \$4	\$12 \$22 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$65 \$1,286 \$5 \$4 \$112 \$1,286 \$5 \$4 \$112 \$1,286 \$5 \$4 \$4 \$9 \$114 \$1,286	2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 0% 1% 2% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0%	41 41 42 43 44 45 46 47 48 49 49 55 50 51 52 53 55 56 60 60 60 62 63 64	42 39 44 44 45 46 47 48 50 52 51 53 54 55 55 56 57 58 60 61 61 62 63 64
Alt9 Alt73 Alt86 Alt26 Alt27 Alt75 Alt98 Alt106 Alt90 Alt101 Alt151 Alt101	22511, 22512, 22512, 22512, 230613, 22120, 230581 22605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240650 240589 240677	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Improvements San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network Fe80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] MART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion Transit Expansion Transit Expansion	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Mateo Regional Multi-County Contra Costa Multi-County Alameda Sonoma Regional Multi-County Multi-County Multi-County Multi-County Multi-County Multi-County Multi-County Multi-County Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$108 \$3 \$108 \$3 \$108 \$3 \$108 \$3 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$50 \$42 \$9 \$31 \$108	\$23 \$42 \$117 \$25 \$15 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$115 \$159 \$1,787 \$6 \$6 \$6 \$38 \$277 \$613 \$12 \$19 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$2 \$4 \$2 \$3 \$4 \$5 \$5 \$4 \$5 \$5 \$6 \$112 \$12 \$13 \$14 \$15 \$15 \$16 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$22 \$44 \$44 \$44 \$44 \$44 \$45 \$45 \$45	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 0.9 0.9 0.8 0.8 0.8 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	2% 2% 0% 1% 0% 2% 2% 1% 1% 1% 1% 1% 1% 0% 2% 2% 2% 0% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	41 41 42 43 44 45 46 47 48 49 50 50 51 51 52 53 53 54 60 63 63 64	42 39 44 44 45 46 47 49 48 50 50 52 51 53 54 55 56 67 77 58 60 61 62 63 64 66
Alt9 Alt73 Alt86 Alt86 Alt86 Alt87 Alt98 Alt106 Alt90 Alt91 Alt107 Alt93 Alt107	22511, 22512, 22112, 230613, 22120, 230581 22605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 200ACT1 22343 98147, 240691 240526 240526 240526 240526 240526 240526 240526 240589 240676, 240677 230525 240677	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Improvements San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network Fe80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] MART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Multi-County Multi-County Multi-County Contra Costa Multi-County Alameda Multi-County Alameda Regional San Francisco Multi-County Alameda Regional Regional Regional Regional Regional Regional Regional Regional	\$23 \$41 \$15 \$25 \$15 \$28 \$108 \$3 \$100 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$32 \$32 \$31 \$32 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$23 \$42 \$17 \$25 \$15 \$25 \$124 \$110 \$3 \$11 \$159 \$1,787 \$6 \$6 \$6 \$6 \$6 \$122 \$122 \$123 \$124 \$150	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$2 \$29 \$20 \$111 \$11 \$12 \$29 \$20 \$44 \$9 \$9 \$44 \$9 \$14 \$26 \$44 \$46 \$46 \$46 \$46 \$46 \$46 \$46 \$46 \$4	\$12 \$22 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$65 \$1,286 \$5 \$4 \$112 \$1,286 \$5 \$4 \$112 \$1,286 \$5 \$4 \$4 \$9 \$114 \$1,286	2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 0% 1% 2% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0%	41 41 42 43 44 45 46 47 48 49 49 55 50 51 52 53 55 56 60 60 60 62 63 64	42 39 44 44 45 46 47 48 50 52 51 53 54 55 55 56 57 58 60 61 61 62 63 64
Alt19 Alt73 Alt18 Alt2 Alt19 Alt19 Alt19 Alt19 Alt19 Alt106 Alt9 Alt101 Alt19 Alt101 A	22511, 22512, 22512, 22512, 230513, 22505 22102, 230581 22605 200MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 23055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 2405650 240569 240677 230252 230219, 230514	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Gant Bateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L880 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Hastoric Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] SMART (Phase 2: Extension to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Alameda  Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Mateo Regional Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Multi-County Alameda Multi-County Alameda Multi-County	\$23 \$41 \$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$600 \$12 \$20 \$50 \$42 \$9 \$11 \$10 \$9 \$11 \$10 \$10 \$10 \$10 \$10 \$10 \$10	\$23 \$42 \$117 \$25 \$15 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$5159 \$51,787 \$6 \$6 \$6 \$38 \$277 \$613 \$512 \$19 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29 \$20 \$310 \$118 \$2 \$318 \$31	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$1,286 \$51 \$1,286 \$5 \$4 \$29 \$29 \$29 \$316 \$316 \$317 \$417	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2% 2% 1% 2% 2% 2% 2% 2% 2% 2% 2% 2% 3% 1% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	41 41 42 43 44 45 46 47 48 49 50 51 51 52 53 54 66 63 64 65 66 67	42 39 44 44 45 46 47 49 48 50 50 52 51 53 55 56 57 58 60 61 62 62 63 64 66 65 67
Alt19 Alt73 Alt86 Alt106 Alt107 Alt99 Alt107 Alt91 Alt107	22511, 22512, 22512, 22112, 230613, 22120, 230613, 22120, 230613, 22120, 230614 240526 22247 240699 n/a 22268 230550 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240577 22415 240590 240589 240676, 240677 240529 240676, 240677 230252 230219, 230314 22956	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-880 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program Unimbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements FV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur+ IOS Cost Defernals) Marin Countywide Bus Service Frequency Improvements FV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur+ IOS Cost Defernals) Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional San Francisco Multi-County Multi-County Multi-County Alameda Multi-County Alameda Regional San Francisco Multi-County Multi-County Multi-County Multi-County Alameda Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Multi-County Santa Clara	\$23 \$41 \$15 \$25 \$15 \$28 \$108 \$3 \$100 \$100 \$158 \$1,787 \$6 \$6 \$1,787 \$6 \$6 \$12 \$20 \$220 \$32 \$32 \$32 \$32 \$33 \$34 \$35 \$45 \$45 \$45 \$45 \$45 \$45 \$45 \$4	\$23 \$42 \$17 \$25 \$17 \$25 \$15 \$27 \$29 \$124 \$110 \$3 \$11 \$159 \$1,787 \$6 \$6 \$6 \$5 \$6 \$5 \$122 \$112 \$112 \$113 \$113 \$113 \$113 \$113	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$2 \$29 \$20 \$111 \$11 \$12 \$29 \$44 \$9 \$9 \$14 \$15 \$16 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	\$12 \$22 \$9 \$14 \$9 \$15 \$55 \$2 \$65 \$2 \$1,286 \$5 \$1,286 \$5 \$1,286 \$5 \$1,286 \$5 \$4 \$1,286 \$5 \$4 \$1,286 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$3 \$4 \$4 \$5 \$4 \$4 \$5 \$4 \$4 \$4 \$5 \$4 \$4 \$5 \$4 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$4 \$5 \$5 \$5 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 0% 1% 2% 1% 2% 1% 2% 2% 1% 2% 2% 1% 2% 2% 1% 2% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	41 41 42 43 44 45 46 47 48 49 49 50 51 52 53 55 56 60 60 63 64 66 66 67 68	42 39 44 44 45 46 47 48 50 52 51 53 54 55 56 57 58 59 60 61 61 62 63 64 66 66 65 67
Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt106 Alt107 Alt08 Alt108 A	22511, 22512, 22512, 22512, 22512, 230613, 22120, 23063, 22120, 23064, 240526 22247  240699 n/a  22268 230550 n/a  22268 230550 n/a  240545 230055  LBART  240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240650 240589 240676, 240675, 240677 220525 230219, 230314	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network Le80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program Umbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur+ IOS Cost Defernals) Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements ABRT to Livermore (Phases 1: 2- Rail Extension)	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Glimate Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Francisco Regional San Francisco Multi-County Multi-County Multi-County Multi-County Alameda Alameda Alameda Multi-County Santa Clara Santa Clara Alameda	\$23 \$41 \$15 \$25 \$15 \$28 \$108 \$3 \$100 \$3 \$100 \$158 \$1,787 \$6 \$6 \$5 \$272 \$606 \$112 \$200 \$3 \$3 \$1,787 \$6 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,100	\$23 \$42 \$417 \$25 \$17 \$25 \$15 \$27 \$29 \$110 \$3 \$1110 \$3 \$1110 \$3 \$115 \$159 \$1,787 \$6 \$6 \$6 \$56 \$56 \$58 \$2277 \$5613 \$512 \$512 \$512 \$513 \$512 \$513 \$512 \$513 \$512 \$513 \$513 \$513 \$513 \$513 \$513 \$513 \$513	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$1,286 \$5 \$4 \$2 \$2 \$1,286 \$5 \$4 \$2 \$2 \$2 \$2 \$1,286 \$3 \$4 \$1,286 \$4 \$2 \$2 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	\$12 \$22 \$9 \$14 \$9 \$15 \$65 \$2 \$65 \$2 \$112 \$1,286 \$5 \$4 \$22 \$220 \$510 \$11 \$11 \$12 \$22 \$44 \$9 \$9 \$14 \$15 \$12 \$14 \$15 \$15 \$16 \$16 \$16 \$16 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 1% 0% 1% 2% 1% 2% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	41 41 42 43 44 45 46 47 48 49 49 50 51 52 53 55 56 60 63 64 65 66 67 68 69 70 70	42 39 44 44 45 46 47 49 50 52 51 53 55 55 56 57 57 60 61 62 63 64 66 65 67 68 69 70
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Alt9 Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt106 Alt107 Alt08 Alt108 A	22511, 22512, 22512, 22512, 22512, 230613, 22120, 23063, 22120, 23064, 240526 22247  240699 n/a  22268 230550 n/a  22268 230550 n/a  240545 230055  LBART  240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240650 240589 240676, 240675, 240677 220525 230219, 230314	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Gilmate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L-880 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMIO program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency (Improvements EV Solar Installation (BAAQMIO program) Marin Countywide Bus Service Frequency (Improvements EV Solar Installation (BAAQMIO program) Marin Countywide Bus Service Frequency (Improvements EV Solar Installation (BAAQMIO program) Marin Countywide Bus Service Frequency (Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Monterey Highway BRT BART to Livermore (Phase 1 & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Glimate Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Francisco Regional San Francisco Multi-County Multi-County Multi-County Multi-County Alameda Alameda Alameda Multi-County Santa Clara Santa Clara Alameda	\$23 \$41 \$15 \$25 \$15 \$28 \$108 \$3 \$100 \$3 \$100 \$158 \$1,787 \$6 \$6 \$5 \$272 \$606 \$112 \$200 \$3 \$3 \$1,787 \$6 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,100	\$23 \$42 \$417 \$25 \$17 \$25 \$15 \$27 \$29 \$110 \$3 \$1110 \$3 \$1110 \$3 \$1110 \$3 \$112 \$112 \$112 \$112 \$112 \$113 \$113 \$	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$1,286 \$5 \$4 \$2 \$2 \$1,286 \$5 \$4 \$2 \$2 \$2 \$2 \$1,286 \$3 \$4 \$1,286 \$4 \$2 \$2 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	\$12 \$22 \$9 \$14 \$9 \$15 \$65 \$2 \$65 \$2 \$112 \$1,286 \$5 \$4 \$22 \$220 \$510 \$11 \$11 \$12 \$22 \$44 \$9 \$9 \$14 \$15 \$12 \$14 \$15 \$15 \$16 \$16 \$16 \$16 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1% 2% 12% 0% 1% 0% 1% 0% 1% 1% 0% 1% 2% 1% 2% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	41 41 42 43 44 45 46 47 48 49 49 50 51 52 53 55 56 60 63 64 65 66 67 68 69 70 70	42 39 44 44 45 46 47 49 50 52 51 53 55 55 56 57 57 60 61 62 63 64 66 65 67 68 69 70
Alt19 Alt73 Alt18 Alt2 Alt176 Alt19 Alt19 Alt19 Alt19 Alt19 Alt106 Alt19 Alt101	22511, 22512, 22512, 22512, 22512, 230513, 225054 240526 2	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Gant Bateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network LEGO Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Hastoric Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Marin Countywide Bus Service Frequency Improvements Colden Gate Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Capit	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Contra Costa Multi-County San Francisco Alameda San Francisco Santa Clara Santa Clara Alameda Santa Clara Alameda Santa Clara	\$23 \$41 \$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$51 \$272 \$66 \$12 \$20 \$50 \$42 \$9 \$31 \$31 \$510 \$9 \$516 \$4 \$515 \$55 \$519 \$55	\$23 \$42 \$117 \$25 \$15 \$15 \$29 \$124 \$110 \$3 \$111 \$115 \$159 \$1,787 \$6 \$6 \$6 \$38 \$277 \$613 \$12 \$19 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$22 \$31 \$41 \$41 \$41 \$41 \$41 \$41 \$41 \$4	\$12 \$22 \$22 \$59 \$14 \$59 \$16 \$73 \$65 \$2 \$65 \$1,286 \$51 \$1,286 \$51 \$1,286 \$51 \$1,286 \$52 \$53 \$44 \$59 \$536 \$51 \$512 \$52 \$536 \$531 \$536 \$531 \$536 \$531 \$536 \$531 \$536 \$536 \$537 \$535 \$536 \$537 \$536 \$537 \$536	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2% 2% 1% 0% 1% 0% 1% 1% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	41 41 42 43 44 45 46 47 48 49 50 51 52 53 54 66 67 63 64 65 66 67 70 70 71 72 73	42 39 44 44 45 46 47 49 48 50 50 52 51 53 55 56 60 61 62 63 64 66 65 67 70 70 72 73
Ait9 Ait73 Ait106 Ait106 Ait106 Ait107 Ait106 Ait107 Ait10	22511, 22512, 22512, 22512, 22512, 230513, 22565 200MUNI 230164 240526 22247 240699 n/a 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240577 240690 240577 240650 240589 240676, 240675, 240677 230252 230219, 230314 22956 220547 220547 220547 220547 220547 220547 220547 220547 220547 220547 220547 220547 220547 220567 22019 98139	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-8 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMID program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMID program) MART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Defernals) Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Centery Highway BRT BART to Livermore (Phase 1: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion Nomean)	Transit Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Expansion Transit Expansion	Alameda Multi-County Contra Costa San Francisco San Francisco Regional Alameda Regional Multi-County Multi-County Multi-County Multi-County Multi-County Multi-County Marin Multi-County Marin Multi-County Marin Multi-County Santa Clara Santa Clara Alameda Sonta Clara Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda	\$23  \$41  \$15  \$25  \$25  \$15  \$28  \$108  \$3  \$100  \$51,787  \$6  \$6  \$37  \$272  \$5006  \$112  \$200  \$50  \$51,787  \$6  \$51  \$51  \$50  \$51  \$51  \$51  \$51  \$51	\$23 \$42 \$17 \$25 \$17 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$155 \$56 \$58 \$2277 \$613 \$12 \$12 \$19 \$31 \$32 \$51 \$42 \$9 \$51 \$51 \$52 \$51 \$53 \$53 \$53 \$53 \$53 \$53 \$53 \$53 \$53 \$53	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$11 \$12 \$4 \$29 \$36 \$4 \$11 \$11 \$11 \$11 \$11 \$11 \$11	\$12 \$22 \$9 \$14 \$9 \$15 \$5 \$6 \$15 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$111 \$12 \$4 \$9 \$12 \$13 \$14 \$15 \$16 \$173	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	2% 2% 0% 1% 0% 1% 0% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	41 41 42 43 44 45 46 47 48 49 49 50 51 52 53 53 54 55 56 60 63 64 65 66 67 70 71 71 72	42 39 44 44 45 46 47 49 48 50 52 51 53 53 54 55 56 57 58 60 61 62 63 64 66 66 65 67 70 71 72
Alt19 Alt73 Alt24 Alt26 Alt26 Alt26 Alt27 Alt27 Alt28 Alt28 Alt106 Alt99 Alt43 Alt101 Alt55 Alt61 Alt6	22511, 22512, 22512, 22112, 230613, 22120, 23063, 22120, 23064, 240526 22247  240699 n/a  22268 230550 n/a  22268 230550 n/a  240545 230055  LBART  240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240650 240589 240676, 240677, 240677 230252 230219, 230314  22956 230547 22019 98139 230554	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)  SR-4 Bypass Completion (SR-150 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SECTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Garbare (Sandard Sandard San	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Francisco Multi-County Multi-County Multi-County Multi-County Alameda Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara Santa Clara Santa Clara Santa Clara Santa Clara Santa Clara	\$23 \$41 \$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$53 \$10 \$51,787 \$6 \$6 \$56 \$37 \$272 \$5606 \$112 \$220 \$500 \$512 \$510 \$510 \$510 \$510 \$510 \$510 \$510 \$510	\$23 \$42 \$17 \$25 \$17 \$25 \$15 \$27 \$29 \$124 \$110 \$3 \$11 \$159 \$1,787 \$6 \$6 \$6 \$5 \$6 \$5 \$122 \$19 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11	\$12 \$22 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$5 \$4 \$2 \$29 \$220 \$210 \$111 \$11 \$12 \$4 \$4 \$9 \$12 \$4 \$4 \$2 \$2 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	\$12 \$22 \$9 \$14 \$9 \$1516 \$73 \$65 \$2 \$65 \$2 \$65 \$2 \$51 \$112 \$51,286 \$5 \$5 \$4 \$5 \$5 \$5 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	1% 2% 10% 0% 11% 0% 11% 0% 11% 0% 11% 10% 20% 11% 10% 11% 10% 11% 10% 11% 10% 11% 10% 11% 10% 11% 10% 10	41 41 42 43 44 45 46 47 48 49 49 55 55 56 65 57 58 60 62 63 64 65 66 67 68 69 70 71 72 73 74	42 39 44 44 45 46 47 49 50 52 51 53 54 55 56 57 58 59 60 61 61 62 63 64 66 65 67 70 71 71 72 73
Ait19 Ait73 Ait186 Ait26 Ait27 Ait73 Ait186 Ait190 Ait88 Ait106 Ait99 Ait43 Ait107 Ait54 Ait63 Ait107 Ait54 Ait61 Ait70 Ait61	22511, 22512, 22512, 22512, 230513, 22102, 230581 22605 200MUNI 230164 240526 22247 240699 n/a 222247 240699 n/a 240545 230550 n/a 240545 230550 14 240545 230055 18ART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240650 240589 240567 230252 230219, 230314 225667 230554 226677 230252 230219, 230314 225667 22019 98139 230554 2278 2278 2278 2278 2278 2278 2278 227	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) SR-4 Bypass Completion (SR-150 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Gary Bulevard BRT Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase ± 1: -Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network Fe80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) Marin Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) Marin Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: & 3: to Nieman) Capitol Corridor Service Frequency Improvements (Oakland to Vasona Light Rail Extension (Phase 2: & 3: to Nieman) Capitol Corridor Service Frequency Improvements (Oakland to Vasona Light Rail Extension (Phase 2: & 3: to Nieman)	Transit Expansion Highway Expansion Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Expansion Transit Efficiency	Alameda Multi-County Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Contra Costa Multi-County Marin Multi-County Marin Multi-County Marin Multi-County Santa Clara Santa Clara Alameda Santa Clara	\$23 \$41 \$15 \$25 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$53 \$10 \$51 \$51 \$56 \$6 \$51 \$272 \$560 \$512 \$200 \$500 \$422 \$59 \$311 \$510 \$59 \$515 \$515 \$55 \$519 \$55 \$519	\$23 \$42 \$17 \$25 \$15 \$25 \$15 \$29 \$124 \$110 \$3 \$11 \$119 \$51,787 \$6 \$6 \$6 \$38 \$277 \$613 \$12 \$19 \$51 \$51 \$51 \$51 \$52 \$51 \$51 \$52 \$53 \$53 \$53 \$53 \$53 \$53 \$53 \$53 \$53 \$53	\$12  \$22  \$29  \$14  \$9  \$14  \$9  \$15  \$16  \$73  \$65  \$2  \$6  \$112  \$12  \$51  \$128  \$52  \$51  \$138  \$52  \$54  \$59  \$36  \$51  \$51  \$51  \$51  \$51  \$51  \$52  \$53  \$53  \$53  \$53  \$53  \$53  \$53	\$12  \$22  \$29  \$14  \$9  \$16  \$73  \$65  \$2  \$65  \$12  \$59  \$112  \$12  \$59  \$22  \$51  \$112  \$12  \$220  \$51  \$118  \$220  \$51  \$111  \$118  \$22  \$34  \$41  \$41  \$51  \$52  \$41  \$51  \$51  \$51  \$51  \$51  \$51  \$51	2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	1% 2% 0% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 1% 2% 1% 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% 2% 2% 3% 4% 0% 1% 4% 6% 6%	40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 70 71 72 73 74 75 75 77 77 77 77	42 39 44 44 45 46 47 49 48 50 50 52 51 53 55 56 60 61 62 63 64 66 65 67 70 70 72 73 74

# TABLE D11: NOISE SENSITIVITY TEST RESULTS

					Original Total	Adjusted Total	Original Total	Adjusted Total					
					Annualized Benefits (in	Annualized Benefits (in	Annualized Costs (in	Annualized Costs (in			Percent		
					millions of 2013	millions of	millions of	millions of	Original	Adjusted	Change	Original	Adjusted
Alt Alt90	RTPID# 240182	Alternative BART Metro Program	Mode Transit Efficiency	County Multi-County	dollars) \$161	2013 dollars) \$162	2013 dollars) -\$4	2013 dollars) -\$4	B/C >60	B/C >60	B/C	Rank 1	Rank 1
Alt93	240182	Treasure Island Congestion Pricing	Pricing	Regional	\$69	\$69	-54 \$1	-\$4 \$1	59	59	0%	2	2
Alt85	240522	Congestion Pricing Pilot	Pricing	San Francisco	\$227	\$228	\$5	\$5	45	45	0%	3	3
Alt71 Alt104	22780 22274	AC Transit Grand-MacArthur BRT ITS Improvements in San Mateo County	Transit Efficiency Road Efficiency	Alameda San Mateo	\$32 \$56	\$32 \$56	\$2 \$4	\$2 \$4	18 16	18 16	0%	4 5	5
Alt105	240494	ITS Improvements in Santa Clara County	Road Efficiency	Santa Clara	\$752	\$752	\$48	\$48	16	16	0%	5	5
Alt5 Alt53	230419 22062	Freeway Performance Initiative Irvington BART Station	FPI Transit Efficiency	Regional Alameda	\$3,175 \$19	\$3,175 \$19	\$202 \$2	\$202 \$2	16 12	16 12	0% 0%	5 8	7 8
Alt57	240171	SFMTA Transit Effectiveness Project	Transit Efficiency	San Francisco	\$90	\$90	\$8	\$8	11	11	0%	9	9
Alt95	240582	Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency	Regional	\$55	\$55	\$6	\$6	9	9	0%	10	10
Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion	Santa Clara	\$144	\$144	\$21	\$21	7	7	0%	11	11
Alt25	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Road Efficiency	Santa Clara	\$81	\$81	\$12	\$12	7	7	0%	12	12
Alt27 Alt91	94506 98207T	Fremont/Union City East-West Connector Alameda-Oakland BRT + Transit Access Improvements	Arterial Expansion Transit Efficiency	Alameda Alameda	\$65 \$14	\$65 \$14	\$10 \$2	\$10 \$2	7 6	7	0% 0%	13 14	13 14
Alt14		US-101 Express Lanes - Whipple to County Line	Road Efficiency	Multi-County	\$123	\$123	\$19	\$19	6	6	0%	15	15
Alt21	230161	Van Ness Avenue BRT	Transit Efficiency	San Francisco	\$44	\$44	\$7	\$7	6	6	0%	16	16
Alt36 Alt80	HOTd 240155	Silicon Valley Express Lanes Network Better Market Street	Express Lanes Netw Transit Efficiency	Multi-County San Francisco	\$408 \$56	\$403 \$57	\$70 \$10	\$70 \$10	6	6	-1% 0%	17 18	17 18
Alt8	22455	AC Transit East Bay BRT	Transit Efficiency	Alameda	\$62	\$62	\$12	\$12	5	5	0%	19	19
Alt49	HOTe 230468	Express Lanes Network E	Express Lanes Netw		\$602	\$599	\$118	\$118	5	5	0%	20	21
Alt32 Alt96	230468 n/a	I-80 Auxiliary Lanes (Airbase Parkway to I-680) Local Streets and Roads Capital Maintenance Needs	Road Efficiency Maintenance	Solano Regional	\$18 \$1,369	\$18 \$1,369	\$4 \$280	\$4 \$280	5	5	0% 0%	21 22	20
		·											
Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$325	\$70	\$70	5	5	0%	23	23
Alt47	240134	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (San Francisco To Tamien)	Transit Efficiency	Multi-County	\$153	\$153	\$34	\$34	5	5	0%	24	24
Alt56	240557	Oakdale Caltrain Station	Transit Efficiency	San Francisco	\$3	\$3	\$1	\$1	4	4	1%	25	25
Alt23	240062	SR-84/I-680 Interchange Improvements + SR-84 Widening (Pigeon Pass to I-680)	Highway Expansion	Alameda	\$87	\$87	\$21	\$21	4	4	0%	26	26
Alt38	230294	New SR-152 Alignment	Highway Expansion	Santa Clara	\$148	\$148	\$41	\$41	4	4	0%	27	27
Alt15 Alt97	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown	Transit Expansion	Multi-County	\$108	\$108	\$31	\$31	4	4	0%	28	28
Alt6	240410 21205, 22350	Transportation for Livable Communities I-680/SR-4 Interchange Improvements + SR-4 Widening	Highway Expansion	Regional Contra Costa	\$875 \$65	\$875 \$65	\$255 \$21	\$255 \$21	3	3	0% 0%	29 30	29 30
Alt51	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Transit Efficiency	Solano	\$2	\$2	\$1	\$1	3	3	-1%	31	31
Alt58	240617 22227, 240328,	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo) Geneva Avenue Corridor Improvements (Roadway Extension,	Road Efficiency	Napa	\$11	\$11	\$4	\$4	3	3	0%	32	32
Alt66	240334	BRT, and Southern Intermodal Terminal)	Transit Efficiency	Multi-County	\$36	\$36	\$15	\$15	2	2	0%	33	33
Alt87 Alt17	240147 240026	Southeast Waterfront Transportation Improvements SamTrans El Camino BRT	Transit Efficiency Transit Efficiency	San Francisco San Mateo	\$88 \$59	\$88 \$59	\$36 \$25	\$36 \$25	2	2	0% 0%	34 35	34 35
Alt24	240119	VTA El Camino BRT	Transit Efficiency	Santa Clara	\$28	\$28	\$12	\$12	2	2	0%	36	36
Alt77	00BART	BART Service Frequency Improvements	Transit Efficiency	Multi-County	\$126	\$126	\$56	\$56	2	2	0%	37	37
Alt84 Alt88	230604 580_BUS	Bay Bridge Contraflow Lane I-580 Express Bus (Dublin to Livermore)	Road Efficiency Transit Efficiency	Multi-County Alameda	\$67 \$32	\$67 \$32	\$31 \$16	\$31 \$16	2	2	0% 1%	38 39	38 39
Alt33	240018	Dumbarton Transit Corridor (Phase 1: Express Bus)	Transit Efficiency	Alameda	\$23	\$23	\$12	\$12	2	2	0%	40	40
	22511, 22512,												
Alt9	22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany,											
	22120, 230581	Richmond, Hercules, and Redwood City)	Transit Expansion	Multi-County	\$41	\$42	\$22	\$22	2	2	1%	41	41
Alt73	22120, 230581 22605		Transit Expansion Highway Expansion	Multi-County Contra Costa	\$41 \$15	\$42 \$16	\$22 \$9	\$22 \$9	2	2	1% 0%	41 42	41 42
Alt73 Alt86	22605 00MUNI	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements	Highway Expansion Transit Efficiency	Contra Costa San Francisco	\$15 \$25	\$16 \$25	\$9 \$14	\$9 \$14	2	2	0% 0%	42 43	42 43
Alt73	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Highway Expansion	Contra Costa	\$15	\$16	\$9	\$9	2	2	0%	42	42
Alt73 Alt86 Alt2	22605 00MUNI 230164	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network	Highway Expansion Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco	\$15 \$25 \$15	\$16 \$25 \$15	\$9 \$14 \$9	\$9 \$14 \$9	2 2 2	2 2 2	0% 0% 0%	42 43 44	42 43 44
Alt73 Alt86 Alt2 Alt75 Alt98	22605 00MUNI 230164 240526 22247	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SFCTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped	Contra Costa San Francisco San Francisco San Francisco Regional	\$15 \$25 \$15 \$28 \$124	\$16 \$25 \$15 \$28 \$124	\$9 \$14 \$9 \$16 \$73	\$9 \$14 \$9 \$16 \$73	2 2 2 2 2	2 2 2 2 2	0% 0% 0% 0% 0%	42 43 44 45 46	42 43 44 45 46
Alt73 Alt86 Alt2 Alt75	22605 00MUNI 230164 240526	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco	\$15 \$25 \$15 \$28	\$16 \$25 \$15 \$28	\$9 \$14 \$9 \$16	\$9 \$14 \$9 \$16	2 2 2 2	2 2 2 2	0% 0% 0% 0%	42 43 44 45	42 43 44 45
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99	22605 00MUNI 230164 240526 22247 240699 n/a	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3	\$16 \$25 \$15 \$28 \$124 \$109 \$3	\$9 \$14 \$9 \$16 \$73 \$65 \$2	\$9 \$14 \$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48	42 43 44 45 46 47 48
Alt73 Alt86 Alt2 Alt75 Alt98	22605 00MUNI 230164 240526 22247 240699	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco Regional	\$15 \$25 \$15 \$28 \$124	\$16 \$25 \$15 \$28 \$124	\$9 \$14 \$9 \$16 \$73	\$9 \$14 \$9 \$16 \$73	2 2 2 2 2 2	2 2 2 2 2 2	0% 0% 0% 0% 0%	42 43 44 45 46	42 43 44 45 46
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SFCTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$110 \$158 \$1,787	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 2 2 1	2 2 2 2 2 2 2 2 2 2 1	0% 0% 0% 0% 0% 0% 0% 1% 0% 0%	42 43 44 45 46 47 48 49 50 51	42 43 44 45 46 47 48 49 50 51
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550	S.R.4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program)	Highway Expansion Transit Efficiency Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50	42 43 44 45 46 47 48 49 50
Alt73 Alt86 Alt2 Alt75 Alt98  Alt106 Alt99  Alt43 Alt100 Alt101 Alt55 Alt63	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1	0% 0% 0% 0% 0% 0% 0% 1%	42 43 44 45 46 47 48 49 50 51 52 53	42 43 44 45 46 47 48 49 50 51 52 53
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545	S.R.4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SFCTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 1 1	2 2 2 2 2 2 2 2 2 1 1	0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50 51	42 43 44 45 46 47 48 49 50 51
Alt73 Alt86 Alt2 Alt75 Alt98  Alt106 Alt99  Alt43 Alt100 Alt101 Alt55 Alt63	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240645 230055 LBART	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6 \$6	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 2 2 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1	0% 0% 0% 0% 0% 0% 0% 1%	42 43 44 45 46 47 48 49 50 51 52 53	42 43 44 45 46 47 48 49 50 51 52 53
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SFCTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamlen)  AC Transit Frequent Transit Network	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Multi-County Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$5006	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$1,286 \$5 \$4 \$29 \$220 \$510	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510	2 2 2 2 2 2 2 2 2 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 1% 1% 0% 0%	42 43 44 45 46 47 48 49 50 51 52 53 54	42 43 44 45 46 47 48 49 50 51 52 53 54
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements  Geary Boulevard BRT  SFCTA Transit Performance Initiative  Regional Bikeway Network  AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements  Climate Initiatives (5-year program)  Transit Capital Maintenance Needs  Parkmerced Light Rail Corridor  Golden Gate Ferry Service Frequency Improvements  BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)  Caltrain Vision (10-Train Service during Peak Hours) +  Electrification (San Francisco to Tamien)  AC Transit Frequent Transit Network  I-880 Express Bus Service Frequency Improvements (Phase 2)	Highway Expansion Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Regional Alameda Regional Multi-County Alameda Multi-County Contra Costa	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$115 \$5 \$6 \$6 \$3 \$3 \$1,787 \$6 \$6 \$5 \$3	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$2 \$2 \$2 \$220 \$510 \$111	2 2 2 2 2 2 2 2 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt01 Alt63 Alt107 Alt83 Alt107 Alt83 Alt107	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240045 240045 LBART 240521, 21627 00ACT1 22343 98147, 240691	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Manin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 2: Station nail Extension with Bus BART to Livermore (Phase 2)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6 \$3 \$27 \$27 \$3 \$40 \$1,787 \$6 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$3 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$6 \$7 \$6 \$7 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$5110 \$111 \$18	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 0% 1% 0% 1%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58
Alt73 Alt86 Alt26 Alt27 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt144 Alt83 Alt67 Alt1	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus BART to Livermore (Phase 2: 1-Station Rail Extension with Bus BART to Livermore (Phase 2: 1-Station Rail Extension with Bus BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Road Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional Regional Regional Multi-County Multi-County Multi-County Multi-County Multi-County Contra Costa Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$112 \$20	\$16 \$25 \$15 \$28 \$128 \$109 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$273 \$607 \$220	\$9 \$14 \$9 \$16 \$16 \$17 \$18 \$65 \$2 \$112 \$1,286 \$4 \$29 \$29 \$220 \$510 \$111 \$18	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$4 \$29 \$220 \$510 \$111 \$18	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 11% 0% 0% 1.1% 1.1	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt01 Alt63 Alt107 Alt83 Alt107 Alt83 Alt107	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240045 240045 LBART 240521, 21627 00ACT1 22343 98147, 240691	S.R.4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOY Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6 \$3 \$27 \$27 \$3 \$40 \$1,787 \$6 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$3 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$6 \$7 \$6 \$7 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$5110 \$111 \$18	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 0% 1% 0% 1%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58
Alt73 Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt4101 Alt101 Alt101 Alt101 Alt107 Alt107 Alt107 Alt107 Alt104 Alt106 Alt106 Alt107 Alt104 Alt107 Alt104 Alt106 Alt106 Alt107 Alt106 Alt107 Alt107 Alt108 Alt108 Alt109 Alt108 Alt108 Alt108 Alt108 Alt108 Alt108 Alt108 Alt108	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240196	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Multi-County Alameda Regional San Francisco	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$12 \$20 \$50 \$42 \$9 \$3	\$16 \$25 \$15 \$28 \$120 \$109 \$3 \$10 \$158 \$1,187 \$6 \$6 \$6 \$37 \$2273 \$607 \$12 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$2	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$336	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,226 \$5 \$4 \$29 \$220 \$5110 \$111 \$18 \$18 \$52 \$44 \$9 \$336	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 1% 0% 1% 1% 0% 0% 1% 1% 0% 1% 1% 1% 0% 1% 1% 1% 1% 0% 1%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61 62	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62
Alt73 Alt86 Alt2 Alt75 Alt98  Alt106 Alt99  Alt43 Alt100 Alt101 Alt55 Alt63 Alt107  Alt44 Alt83 Alt67 Alt1 Alt54 Alt102 Alt62	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program	Highway Expansion Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Alameda Regional Contra Contra Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Multi-County Contra Costa Multi-County Alameda Regional San Francisco	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$5 \$272 \$500 \$12 \$20 \$50 \$42 \$9	\$16 \$25 \$15 \$28 \$124 \$109 \$3 \$10 \$158 \$1,787 \$6 \$5 \$3 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$2 \$2 \$2 \$2 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$773 \$65 \$2 \$6 \$1112 \$1,286 \$5 \$5 \$2 \$2 \$2 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 1% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58
Alt73 Alt86 Alt21 Alt75 Alt88 Alt106 Alt99 Alt43 Alt100 Alt101 Alt51 Alt55 Alt63 Alt107 Alt144 Alt184 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt165 Alt64 Alt1664 Alt1	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240577 22415 240559 2406509 2406576, 2406599 240676, 240675,	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Fetal Transit Frequent Transit Network I-680 Express Bus Service Brequency Improvements (Phase 2: Hot Livermore (Phase 2: 1-Station Rail Extension with Bus Enhancements) H-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: Hot Valnes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) H-680 Express Bus Service Frequency Improvements (Phase 2) Dumárn-Sonoma Narrows (Phase 2: Hot Valnes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Historic Streetcar Expansion Program Historic Streetcar Expansion Program Unmarborn Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program]	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Climate Maintenance Transit Efficiency Climate	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$12 \$200 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$16 \$25 \$15 \$28 \$120 \$109 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$273 \$607 \$12 \$20 \$23 \$23 \$24 \$25 \$3 \$3 \$3 \$4 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$29	\$9 \$14 \$9 \$14 \$9 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$54 \$59 \$64 \$59 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 1% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 60 59 61 62 63 64	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
Alt73 Alt86 Alt20 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt107	22605 00MUNI 230164 240526 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240269 240569 240569 240677	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Hasvi-Duty Truck Replacement (BAAQMD program) Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Regional Multi-County Mameda Regional Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$37 \$272 \$506 \$32 \$29 \$312 \$20	\$16 \$25 \$15 \$28 \$120 \$109 \$3 \$109 \$158 \$1,787 \$6 \$6 \$6 \$37 \$273 \$607 \$220 \$32 \$32 \$42 \$42 \$42 \$42 \$42 \$42 \$42 \$4	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$16 \$73 \$16 \$73 \$17 \$112 \$1,28 \$1,38 \$1,3	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$112 \$1,286 \$29 \$220 \$510 \$111 \$118 \$52 \$54 \$59 \$55 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50 51 51 52 53 53 55 56 60 60 61 62 63 64 64	42 43 44 45 46 47 48 49 50 51 51 52 53 53 55 56 57 58 59 60 61 62 63 64 64
Alt73 Alt86 Alt21 Alt75 Alt88 Alt106 Alt99 Alt43 Alt100 Alt101 Alt51 Alt55 Alt63 Alt107 Alt144 Alt184 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt164 Alt165 Alt64 Alt1664 Alt1	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240517 22443 98147, 240691 240577 22415 240676, 240675, 240677 240677 240677 240677 240677 240672	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Hasvi-Duty Truck Replacement (BAAQMD program) Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Climate Maintenance Transit Efficiency Climate	Contra Costa San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$12 \$200 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$16 \$25 \$15 \$28 \$120 \$109 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$273 \$607 \$12 \$20 \$23 \$23 \$24 \$25 \$3 \$3 \$3 \$4 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$29	\$9 \$14 \$9 \$14 \$9 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$54 \$59 \$64 \$59 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65 \$65	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 1% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 60 59 61 62 63 64	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
Alt73 Alt86 Alt20 Alt75 Alt98 Alt106 Alt90 Alt101 Alt51 Alt101 Alt51 Alt101 Alt51 Alt101 Alt51 Alt101 Alt61	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240577 22415 240577 240577 230252 230219, 230314	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network Le80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetac Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional Regional Multi-County Multi-County Alameda Multi-County Alameda Regional San Francisco Multi-County Alameda Multi-County Multi-County Alameda Regional Multi-County	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$112 \$20 \$50 \$412 \$9 \$110 \$9 \$110	\$16 \$25 \$15 \$28 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$409 \$4	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$18 \$52 \$44 \$9 \$9 \$36 \$41 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$52 \$544 \$536 \$541 \$52 \$544 \$552 \$544	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$9 \$36 \$41 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$5	2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 1% 0% 1% 1% 0% 1% 1% 0% 1% 1% 0% 0% 1% 1% 0% 0% 1% 1% 0% 0% 1% 1% 0% 0%	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 60 62 63 64 65 66 67	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 55 56 61 62 63 64 65 66 67
Alt73 Alt86 Alt75 Alt98 Alt106 Alt99 Alt40 Alt101 Alt107 A	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240517 22443 98147, 240691 240577 22415 240676, 240675, 240677 240677 240677 240677 240677 240672	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program  San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOY Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$512 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50	\$16 \$25 \$15 \$28 \$109 \$3 \$109 \$158 \$1,787 \$6 \$6 \$6 \$37 \$2273 \$607 \$12 \$20 \$20 \$22 \$3 \$3 \$3 \$3 \$4 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$7 \$7 \$7 \$8 \$8 \$8 \$8 \$8 \$8 \$8 \$8 \$8 \$8	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$29 \$29 \$220 \$510 \$11 \$11 \$18 \$52 \$44 \$9 \$36 \$41 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$5	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$51,226 \$52 \$54 \$29 \$220 \$5110 \$111 \$18 \$52 \$44 \$9 \$336 \$41 \$22 \$513 \$513 \$513	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 0% 1% 0% 0% 0% 0% 1% 0% 0% 1% 0% 0% 1% 0% 0% 1% 0% 0% 1% 0% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 44 45 46 47 47 48 49 50 51 52 53 53 54 55 56 57 57 60 60 62 63 64 64 66 66	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 55 56 60 61 62 63 64 65 66
Alt73 Alt86 Alt106 Alt107 Alt99 Alt107 Alt108 Alt107 Alt109 Alt107 Alt10	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240516 240577 22415 240520 240576 240677 22052 230219, 230314 22956 230547 220567	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-880 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements V Solar Installation [BAAQMD program] SMART (Phase 2: Extensions to Gloverdale & Larkspur + IOS Cost Defernals) Marin Countywide Bus Service Frequency Improvements Copitol Express way Light Rail Extension (Phase 2: to Eastridge Transit Certeiror (Phase 2: Rail Extension) RART to Livermore (Phase 1: 2-Rail Extension)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Alameda Sonoma Regional San Francisco Alameda Sonoma Regional	\$15 \$25 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$112 \$20 \$3 \$3 \$1,787 \$6 \$6 \$1,787 \$6 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$1,78	\$16 \$25 \$15 \$28 \$120 \$100 \$3 \$100 \$158 \$1,787 \$6 \$6 \$6 \$37 \$2273 \$607 \$12 \$20 \$22 \$3 \$3 \$40 \$100 \$3 \$3 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$29 \$220 \$510 \$111 \$18 \$18 \$18 \$29 \$29 \$310 \$311 \$312 \$320 \$311 \$312 \$320 \$337 \$317 \$317	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$4 \$29 \$220 \$510 \$111 \$111 \$12 \$52 \$44 \$9 \$36 \$41 \$52 \$54 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 0% 1% 0% 0% 1% 0% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 63 64 64 66 67 68 69 70	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 68 69 70
Alt73 Alt86 Alt75 Alt96 Alt90 Alt06 Alt010 Alt101 Alt010 Alt010 Alt011 Alt03 Alt07 Alt03 Alt07 Alt03 Alt07 Alt03 Alt07 Alt04 Alt03 Alt07 Alt04 Alt07 Alt04 Alt04 Alt06 Alt01 A	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240216 240569 240569 240677 230252 230219, 230314	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network LF80 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Marin Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Montercy Highway BRT BART to Livermore (Phases 1: & 2: Rail Extension) Downtown East Valley (Phase 2: LETT)	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion Transit Expansion Transit Expansion Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Multi-County Alameda Multi-County San Francisco Alameda Multi-County San Francisco Alameda San Francisco Alameda San Francisco S	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$5006 \$32 \$20 \$312 \$20 \$315 \$310 \$315 \$42 \$315 \$	\$16 \$25 \$25 \$28 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$200 \$4 \$158 \$273 \$60 \$273 \$60 \$32 \$32 \$32 \$42 \$53 \$54 \$54 \$54 \$55 \$55 \$56 \$56 \$56 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$57	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$16 \$73 \$16 \$73 \$17 \$112 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$111 \$111 \$111 \$111 \$111 \$11	\$9 \$14 \$9 \$14 \$9 \$15 \$16 \$73 \$65 \$2 \$6 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$18 \$52 \$54 \$59 \$52 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 154 0% 0% 154 156 0% 0% 158 158 158 158 158 158 158 158 158 158	42 43 44 45 46 47 48 49 50 51 51 52 53 55 56 60 63 64 65 66 67 70 70 71	42 43 44 45 46 47 48 49 50 50 51 52 53 55 56 67 61 63 64 65 66 67 67 68 69 70 71
Alt73 Alt86 Alt106 Alt107 Alt99 Alt107 Alt108 Alt107 Alt109 Alt107 Alt10	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240516 240577 22415 240520 240576 240677 22052 230219, 230314 22956 230547 220567	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2005 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network LEGBU Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Historic Streetcar Expansion Program Historic Streetcar Expansion Program Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Marin Countywide Bus Service Frequency Improvements Golden Gate Gate Sus Service Frequency Improvements	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Expansion	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Alameda Sonoma Regional San Francisco Alameda Sonoma Regional	\$15 \$25 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$112 \$20 \$3 \$3 \$1,787 \$6 \$6 \$1,787 \$6 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$1,78	\$16 \$25 \$15 \$28 \$120 \$100 \$3 \$100 \$158 \$1,787 \$6 \$6 \$6 \$37 \$2273 \$607 \$12 \$20 \$22 \$3 \$3 \$40 \$100 \$3 \$3 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$2 \$2 \$20 \$510 \$111 \$18 \$18 \$18 \$29 \$29 \$310 \$311 \$312 \$320 \$311 \$312 \$320 \$337 \$317 \$317	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,226 \$51 \$2 \$29 \$220 \$510 \$111 \$111 \$12 \$52 \$44 \$9 \$36 \$41 \$52 \$54 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 0% 1% 0% 1% 0% 1% 0% 1% 0% 0% 1% 0% 0% 1% 0% 0% 0% 1% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 43 44 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 63 64 64 66 67 68 69 70	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 68 69 70
Alt73 Alt186 Alt191 Alt106 Alt199 Alt107 Alt108 Alt107 Alt108 Alt100 Alt101 Alt107 Alt108 Alt107 Alt108 Alt107 Alt108 Alt107 Alt108 Alt107 Alt108 Alt107 Alt108 Alt108 Alt109 Alt	22605 00MUNI 230164 240526 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240569 240677 230252 230219, 230314 229567 23054 22667 22667 22057 22057 22057 230554	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetac Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2 &	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda San Mateo Regional San Mateo Regional Regional Multi-County Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County San Francisco Multi-County Alameda Multi-County San Francisco Alameda Sonoma Multi-County Marin Multi-County Marin Multi-County Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$112 \$20 \$31 \$158 \$1,787 \$6 \$6 \$158 \$1,787 \$6 \$158 \$1,787 \$6 \$158 \$1,787	\$16 \$25 \$25 \$15 \$28 \$100 \$3 \$100 \$53 \$158 \$1,787 \$66 \$6 \$37 \$273 \$560 \$512 \$220 \$50 \$512 \$20 \$50 \$515 \$515 \$515 \$515 \$515 \$515 \$515	\$9 \$14 \$9 \$16 \$73 \$65 \$2 \$65 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$12 \$12 \$29 \$36 \$41 \$512 \$512 \$52 \$544 \$552 \$544 \$552 \$544 \$552 \$544 \$552 \$545 \$555 \$55	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$51 \$2 \$4 \$29 \$220 \$510 \$511 \$118 \$52 \$44 \$9 \$36 \$41 \$512 \$52 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1% 1% 0% 1% 1% 1% 0% 1% 1% 1% 0% 1% 1% 1% 0% 1% 1% 1% 0% 0% 1% 1% 1% 0% 0%	42 43 44 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 62 63 64 65 66 67 70 70 71 72 73	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 55 56 61 62 63 64 65 66 67 70 71 72 73
Alt73 Alt86 Alt106 Alt90 Alt106 Alt107 Alt108 Alt106 Alt107 Alt108 Alt108 Alt109 Alt10	22605 00MUNI 230164 240526 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240569 240576, 240677 230252 230219, 230314 229667 230547 22667 22059 98139 230554	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Havy-Duty Truck Replacement (BAAQMD program) Historic Streater Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements Ev Solar Installation (BAAQMD program) Marin Countywide Bus Service Frequency Improvements Copitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Montercy Highway BRT BART to Livermore (Phases 1: & 2: Rail Extension) Downtown East Valley (Phase 2: LRT) ACE Expansion Sunnyvale-Cupertino BRT Capitol Corridor Service Frequency Improvements	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Regional Regional Regional Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Sonoma Regional San Francisco Multi-County San Francisco Multi-County Alameda Sonoma Regional San Francisco San Francis	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,0 \$158 \$4,0 \$6 \$6 \$37 \$272 \$606 \$37 \$272 \$606 \$32 \$32 \$32 \$32 \$33 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40	\$16 \$25 \$15 \$28 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$4 \$6 \$6 \$6 \$6 \$37 \$273 \$607 \$273 \$607 \$220 \$3 \$200 \$3 \$400	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$12 \$29 \$210 \$220 \$220 \$220 \$220 \$220 \$220 \$220	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$94 \$12 \$29 \$21 \$220 \$311 \$318 \$32 \$33 \$31 \$312 \$32 \$33 \$313 \$313 \$313	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 154 0% 0% 155 0% 156 0% 156 0% 156 0% 156 156 156 156 156 156 156 156 156 156	42 43 44 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 62 64 65 66 67 70 70 72 73 74	42 43 44 45 46 47 48 49 50 51 51 52 53 53 54 55 56 61 62 63 64 65 66 67 70 71 72 73
Alt73 Alt86 Alt106 Alt107 Alt99 Alt107 Alt108 Alt10	22605 00MUNI 230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240577 22415 240520 240576, 240677, 240677 230252 230219, 230314 22956 230547 22019 28139 230554	SR-4 Bypass Completion (SR-160 to Walnut Avenue)  Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequen	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Bike/Ped Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional San Francisco Multi-County Multi-County Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda Sonoma Regional Santa Clara	\$15 \$25 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$66 \$12 \$272 \$606 \$112 \$20 \$33 \$1,787 \$606 \$112 \$108 \$108 \$109	\$16 \$25 \$25 \$15 \$28 \$1109 \$3 \$3 \$100 \$1158 \$1,787 \$6 \$6 \$6 \$37 \$2273 \$607 \$12 \$20 \$20 \$53 \$42 \$9 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15	\$9 \$14 \$9 \$14 \$9 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$51 \$51 \$4 \$29 \$220 \$510 \$111 \$118 \$18 \$12 \$29 \$34 \$51 \$11 \$12 \$12 \$29 \$36 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$111 \$128 \$52 \$44 \$9 \$112 \$112 \$112 \$112 \$112 \$113 \$112 \$112	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 134 0% 0% 135 0% 0% 135 0% 136 0% 137 136 0% 0% 137 136 0% 0% 137 136 0% 0% 137 137 138 0% 0% 138 138 138 138 138 138 138 138 138 138	42 43 44 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 63 64 66 67 68 69 70 70 71 71 72 73	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 70 71 71 72 73
Alt73 Alt88 Alt106 Alt107 Alt99 Alt43 Alt107 Alt91 Alt63 Alt107 Alt63 Alt107 Alt63 Alt107 Alt63 Alt107 Alt64 Alt61 Alt79 Alt61	22605 00MUNI 230164 240526 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240569 240576, 240677 230252 230219, 230314 229667 230547 22667 22059 98139 230554	SR-4 Bypass Completion (SR-160 to Walnut Avenue) Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network LF60 Express Sus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 1: 1-Station DMI Extension with Bus Enhancements) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center) Montrery Highway BRT BART to Livermore (Phases 1 & 2: Rai	Highway Expansion Transit Efficiency Transit Efficiency Bike/Ped Maintenance Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency	Contra Costa San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco Regional Alameda Regional Regional Regional Regional Regional Regional Regional Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Sonoma Regional San Francisco Multi-County San Francisco Multi-County Alameda Sonoma Regional San Francisco San Francis	\$15 \$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,0 \$158 \$4,0 \$6 \$6 \$37 \$272 \$606 \$37 \$272 \$606 \$32 \$32 \$32 \$32 \$33 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40	\$16 \$25 \$15 \$28 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$109 \$3 \$4 \$6 \$6 \$6 \$6 \$37 \$273 \$607 \$273 \$607 \$220 \$3 \$200 \$3 \$400	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,286 \$54 \$29 \$220 \$510 \$111 \$118 \$12 \$29 \$210 \$220 \$220 \$220 \$220 \$220 \$220 \$220	\$9 \$14 \$9 \$14 \$9 \$16 \$73 \$65 \$52 \$6 \$112 \$1,285 \$4 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$94 \$12 \$29 \$21 \$220 \$311 \$318 \$32 \$33 \$31 \$312 \$32 \$33 \$313 \$313 \$313	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	0% 0% 0% 0% 0% 0% 0% 0% 0% 154 0% 0% 155 0% 156 0% 156 0% 156 0% 156 156 156 156 156 156 156 156 156 156	42 43 44 44 45 46 47 48 49 50 51 51 52 53 53 54 60 60 62 64 65 66 67 70 70 72 73 74	42 43 44 45 46 47 48 49 50 51 51 52 53 54 55 56 61 62 63 64 65 66 67 70 70 72 73 74

# TABLE D12: TRAVEL TIME SENSITIVITY TEST RESULTS (-30% VALUATION)

					Original Total	Adjusted Total	Original Total	Adjusted Total					
					Annualized	Annualized	Annualized	Annualized					
					Benefits (in millions of 2013	Benefits (in millions of	Costs (in millions of	Costs (in millions of	Original	Adjusted	Percent Change	Original	Adjusted
Alt	RTPID#	Alternative	Mode	County	dollars)	2013 dollars)	2013 dollars)	2013 dollars)	B/C	B/C	B/C	Rank	Rank
Alt90	240182	BART Metro Program	Transit Efficiency	Multi-County		\$122	-\$4	-\$4	>60	>60	-	1	1
Alt93	240694	Treasure Island Congestion Pricing	Pricing	Regional	\$69	\$57	\$1	\$1	59	49	-17%	2	2
Alt85 Alt71	240522 22780	Congestion Pricing Pilot AC Transit Grand-MacArthur BRT	Pricing Transit Efficiency	San Francisco Alameda	\$227 \$32	\$206 \$23	\$5 \$2	\$5 \$2	45 18	40 13	-10% -26%	4	4
Alt104	22274	ITS Improvements in San Mateo County	Road Efficiency	San Mateo	\$56	\$41	\$4	\$4	16	11	-27%	5	5
Alt105	240494	ITS Improvements in Santa Clara County	Road Efficiency	Santa Clara	\$752	\$549	\$48	\$48	16	11	-27%	5	6
Alt5 Alt53	230419 22062	Freeway Performance Initiative Irvington BART Station	FPI Transit Efficiency	Regional Alameda	\$3,175 \$19	\$2,317 \$15	\$202 \$2	\$202 \$2	16 12	11 10	-27% -19%	5 8	7 8
Alt57	240171	SFMTA Transit Effectiveness Project	Transit Efficiency	San Francisco	\$90	\$64	\$8	\$8	11	8	-19%	9	10
Alt95	240582	Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency	Regional	\$55	\$55	\$6	\$6	9	9	0%	10	9
Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion	Santa Clara	\$144	\$100	\$21	\$21	7	5	-30%	11	13
	240404				404	4	442	440	_		701	40	
Alt25 Alt27	240431 94506	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard) Fremont/Union City East-West Connector	Arterial Expansion	Santa Clara Alameda	\$81 \$65	\$75 \$46	\$12 \$10	\$12 \$10	7	5	-7% -30%	12	11 16
Alt91	98207T	Alameda-Oakland BRT + Transit Access Improvements	Transit Efficiency	Alameda	\$14	\$9	\$2	\$2	6	5	-30%	14	17
Alt14	240060, 240523	US-101 Express Lanes - Whipple to County Line	Road Efficiency	Multi-County	\$123	\$90	\$19	\$19	6	5	-27%	15	15
Alt21	230161	Van Ness Avenue BRT	Transit Efficiency	San Francisco	\$44	\$34	\$7	\$7	6	5	-24%	16	14
Alt36 Alt80	HOTd 240155	Silicon Valley Express Lanes Network  Better Market Street	Express Lanes Netw Transit Efficiency	Multi-County San Francisco	\$408 \$56	\$204 \$40	\$70 \$10	\$70 \$10	6	3	-50% -29%	17 18	26 18
Alt8	22455	AC Transit East Bay BRT	Transit Efficiency	Alameda	\$62	\$42	\$10	\$10	5	4	-32%	19	21
Alt49	НОТе	Express Lanes Network E	Express Lanes Netw	Multi-County	\$602	\$382	\$118	\$118	5	3	-37%	20	25
Alt32	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)	Road Efficiency	Solano	\$18	\$13	\$4	\$4	5	4	-30%	21	23
Alt96	n/a	Local Streets and Roads Capital Maintenance Needs	Maintenance	Regional	\$1,369	\$1,369	\$280	\$280	5	5	0%	22	12
Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$261	\$70	\$70	5	4	-19%	23	20
	- 35.5	Caltrain Service Frequency Improvements (6-Train Service			7	¥=4=	7	7.7			20,1		
Alt47	240134	during Peak Hours) + Electrification (San Francisco To Tamien)	Transit Efficiency	Multi-County	\$153	\$124	\$34	\$34	5	4	-19%	24	22
Alt56	240557	Oakdale Caltrain Station	Transit Efficiency	San Francisco	\$3	\$2	\$1	\$1	4	4	-14%	25	19
Alt23	240062	SR-84/I-680 Interchange Improvements + SR-84 Widening (Pigeon Pass to I-680)	Highway Expansion	Alameda	\$87	\$59	\$21	\$21	4	3	-32%	26	27
Alt38	230294	New SR-152 Alignment	Highway Expansion		\$148	\$107	\$41	\$41	4	3	-32%	27	28
Alt15	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown	Transit Expansion	Multi-County	\$108	\$80	\$31	\$31	4	3	-26%	28	29
Alt97	240410	Transportation for Livable Communities	TLC	Regional	\$875	\$875	\$255	\$255	3	3	0%	29	24
Alt6 Alt51	21205, 22350 21341	I-680/SR-4 Interchange Improvements + SR-4 Widening Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Highway Expansion Transit Efficiency	Solano	\$65 \$2	\$44 \$1	\$21 \$1	\$21 \$1	3	2	-33% -30%	30 31	31 32
Alt58	240617	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)	Road Efficiency	Napa	\$11	\$9	\$4	\$4	3	2	-22%	32	33
	22227, 240328,	Geneva Avenue Corridor Improvements (Roadway Extension,											
Alt66	240334	BRT, and Southern Intermodal Terminal)	Transit Efficiency	Multi-County	\$36	\$27	\$15	\$15	2	2	-26%	33	35
Alt87 Alt17	240147 240026	Southeast Waterfront Transportation Improvements SamTrans El Camino BRT	Transit Efficiency	San Francisco San Mateo	\$88	\$65 \$46	\$36 \$25	\$36 \$25	2	2	-26% -23%	34	37
Alt24	240026	VTA El Camino BRT	Transit Efficiency Transit Efficiency	Santa Clara	\$59 \$28	\$46	\$12	\$12	2	2	-23%	35 36	36 34
Alt77	00BART	BART Service Frequency Improvements	Transit Efficiency	Multi-County	\$126	\$98	\$56	\$56	2	2	-22%	37	38
Alt84	230604	Bay Bridge Contraflow Lane	Road Efficiency	Multi-County	\$67	\$67	\$31	\$31	2	2	0%	38	30
Alt88	580_BUS	I-580 Express Bus (Dublin to Livermore)	Transit Efficiency	Alameda	\$32	\$26	\$16	\$16	2	2	-19%	39	42
Alt33	240018 22511, 22512,	Dumbarton Transit Corridor (Phase 1: Express Bus)	Transit Efficiency	Alameda	\$23	\$17	\$12	\$12	2	1	-24%	40	44
	22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany,											
Alt9	22120, 230581	Richmond, Hercules, and Redwood City)	Transit Expansion	Multi-County	\$41	\$35	\$22	\$22	2	2	-14%	41	41
Alt73	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Highway Expansion	Contra Costa	\$15	\$13	\$9	\$9	2	1	400/	42	45
Alt86	00MUNI	Muni Service Frequency Improvements							2		-19%		
Alt2 Alt75	230164		Transit Efficiency	San Francisco	\$25	\$17	\$14	\$14	2	1	-30%	43	52
Alt98		Geary Boulevard BRT	Transit Efficiency	San Francisco	\$25 \$15	\$12	\$9	\$9	2	1	-30% -23%	44	48
	240526	Geary Boulevard BRT SFCTA Transit Performance Initiative	Transit Efficiency Transit Efficiency	San Francisco San Francisco	\$25 \$15 \$28	\$12 \$22	\$9 \$16	\$9 \$16	2 2 2	1 1 1	-30% -23% -22%	44 45	48 49
		Geary Boulevard BRT	Transit Efficiency	San Francisco	\$25 \$15	\$12	\$9	\$9	2	1	-30% -23%	44	48
Alt106	240526 22247 240699	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency	San Francisco San Francisco Regional Alameda	\$25 \$15 \$28 \$124	\$12 \$22 \$124 \$82	\$9 \$16 \$73 \$65	\$9 \$16 \$73 \$65	2 2 2 2	1 1 1 2	-30% -23% -22% 0%	44 45 46 47	48 49 39 51
	240526 22247	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program	Transit Efficiency Transit Efficiency Bike/Ped	San Francisco San Francisco Regional	\$25 \$15 \$28 \$124	\$12 \$22 \$124	\$9 \$16 \$73	\$9 \$16 \$73	2 2 2 2	1 1 1 2	-30% -23% -22% 0%	44 45 46	48 49 39
Alt106 Alt99	240526 22247 240699 n/a	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance	San Francisco San Francisco Regional Alameda Regional	\$25 \$15 \$28 \$124 \$108 \$3	\$12 \$22 \$124 \$82 \$3	\$9 \$16 \$73 \$65 \$2	\$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2	1 1 1 2	-30% -23% -22% 0% -25% 0%	44 45 46 47 48	48 49 39 51 40
Alt106 Alt99 Alt43 Alt100	240526 22247 240699	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program)	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency	San Francisco San Francisco Regional Alameda	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158	\$12 \$22 \$124 \$82 \$3 \$9 \$153	\$9 \$16 \$73 \$65 \$2 \$6 \$112	\$9 \$16 \$73 \$65 \$2 \$6 \$112	2 2 2 2	1 1 1 2	-30% -23% -22% 0%	44 45 46 47	48 49 39 51
Alt106 Alt99 Alt43 Alt100 Alt101	240526 22247 240699 n/a 22268 230550 n/a	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance	San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 1 1	1 1 2 1 2 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0%	44 45 46 47 48 49 50 51	48 49 39 51 40 43 47 46
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	240526 22247 240699 n/a 22268 230550 n/a 240545	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional San Francisco	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 1 1	1 1 2 2 1 2 1 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0% -20%	44 45 46 47 48 49 50 51 52	48 49 39 51 40 43 47 46 53
Alt106 Alt99 Alt43 Alt100 Alt101	240526 22247 240699 n/a 22268 230550 n/a	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance	San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 1 1	1 1 2 1 2 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0%	44 45 46 47 48 49 50 51	48 49 39 51 40 43 47 46
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	240526 22247 240699 n/a 22268 230550 n/a 240545	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional San Francisco	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 1 1	1 1 2 2 1 2 1 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0% -20%	44 45 46 47 48 49 50 51 52	48 49 39 51 40 43 47 46 53
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63	240526 22247 240699 n/a 22268 230550 n/a 240545 230055	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) +	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4	2 2 2 2 2 2 2 2 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0% -20% 2%	44 45 46 47 48 49 50 51 52 53	48 49 39 51 40 43 47 46 53 50
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Multi-County	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 1 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0% -20% 2% -20%	44 45 46 47 48 49 50 51 52 53 54	48 49 39 51 40 43 47 46 53 50 54
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Alameda Regional Regional Multi-County Multi-County Multi-County	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 1 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0% -20% -20% -19% -20%	44 45 46 47 48 49 50 51 52 53 54 55	48 49 39 51 40 43 47 46 53 50 54
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Multi-County	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 1 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-30% -23% -22% 0% -25% 0% -9% -3% 0% -20% 2% -20%	44 45 46 47 48 49 50 51 52 53 54	48 49 39 51 40 43 47 46 53 50 54
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-880 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Ragional Multi-County Multi-County Multi-County Contra Costa Multi-County	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$272 \$200	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$6 \$30 \$221 \$472 \$10 \$12	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$4 \$29 \$220 \$510 \$11	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$4 \$29 \$220 \$510 \$11 \$11	2 2 2 2 2 2 2 1 1 1 1 1 1 1	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 0.9 0.9	-30% -23% -22% -25% -3% -3% -3% -3% -3% -20% -20% -20% -20% -22% -42%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt83 Alt67 Alt1	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 38147, 240691	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Biske/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Road Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Multi-County Alameda	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$12 \$220	\$12 \$22 \$124 \$124 \$82 \$3 \$3 \$1,787 \$5 \$6 \$30 \$221 \$472 \$472 \$472 \$40	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$5110 \$111 \$18	\$9 \$16 \$73 \$65 \$2 \$6 \$1,126 \$1,126 \$5 \$4 \$29 \$220 \$511 \$11 \$18	2 2 2 2 2 2 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 0.9 0.9	-30% -23% -22% -3% -3% -3% -3% -3% -9% -3% -3% -20% -20% -20% -20% -22% -42% -42%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Trani Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion Climate	San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Multi-County Multi-County Multi-County Multi-County Alameda Multi-County Alameda Regional Regional	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$15 \$1,787 \$6 \$6 \$5 \$272 \$500 \$12 \$220	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$6 \$30 \$221 \$472 \$10 \$12 \$10 \$42	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$4 \$29 \$29 \$510 \$11 \$11 \$18	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$29 \$29 \$210 \$510 \$11 \$11 \$18	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.9 0.7	-30% -23% -223% -229% -9% -3% -9% -3% -20% -20% -19% -22% -22% -42% -42% -0%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60 56
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt83 Alt67 Alt1	240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 38147, 240691	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Biske/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Road Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Multi-County Alameda	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$12 \$220	\$12 \$22 \$124 \$124 \$82 \$3 \$3 \$1,787 \$5 \$6 \$30 \$221 \$472 \$472 \$472 \$40	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$5110 \$111 \$18	\$9 \$16 \$73 \$65 \$2 \$6 \$1,126 \$1,126 \$5 \$4 \$29 \$220 \$511 \$11 \$18	2 2 2 2 2 2 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 0.9 0.9	-30% -23% -22% -3% -3% -3% -3% -3% -9% -3% -3% -20% -20% -20% -20% -22% -42% -42%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1 Alt54 Alt102 Alt62 Alt62 Alt74 Alt74	240526 22247  240699 n/a  2268 230550 n/a 240545 230055  LBART  240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240565	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 2: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Contra Costs Multi-County Lounta County Alameda Regional Regional Regional San Francisco Multi-County Alameda Regional San Francisco Alameda San Francisco Alameda Sonoma	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20 \$32 \$32 \$32 \$33 \$32 \$33 \$33 \$34 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30 \$221 \$472 \$10 \$12 \$22 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30	\$9 \$16 \$73 \$65 \$2 \$6 \$1128 \$5 \$4 \$29 \$220 \$111 \$18 \$5 \$29 \$29 \$20 \$311 \$18 \$32 \$4	\$9 \$116 \$73 \$65 \$2 \$65 \$12 \$6 \$11286 \$5 \$4 \$29 \$229 \$220 \$511 \$118 \$18 \$52 \$52 \$54 \$59 \$54	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 0.9 0.7	-30% -23% -22% -22% -9% -3% -9% -3% -20% -20% -20% -20% -20% -19% -22% -22% -42% -40% -16% -18%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61 62 63	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60 56 59 63 65
Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1 Alt54 Alt102 Alt54 Alt102	240526 22247 240699 n/a 22268 230550 n/a 240545 230055  LBART 240521, 21627 00ACT1 240577 240577 240577 240570 240570 240570 240589	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Glimate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Hilstoric Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Regional Regional Regional Regional Regional Regional Multi-County Alameda Multi-County Alameda Alameda Regional San Francisco	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$200 \$50 \$42 \$9 \$31	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,735 \$5 \$6 \$30 \$221 \$472 \$10 \$12 \$42 \$472 \$10 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29 \$20 \$510 \$11 \$18 \$18 \$29 \$4	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$118 \$38 \$38 \$44 \$39 \$34 \$38 \$38 \$38 \$38 \$38 \$38 \$38 \$38 \$38 \$38	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-30% -23% -22% -22% -9% -3% -9% -3% 0% -20% -20% -20% -22% -42% -22% -42% -18%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61 62	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60 56 59 63
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Alt106 Alt99 Alt430 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt107 Alt144 Alt102 Alt62 Alt62 Alt62 Alt61 Alt103 Alt103 Alt103	240526 22247  240699 n/a 22268 230550 n/a 240545 230055 LBART  240521, 21627 00A.CT1 22343 98147, 240691 24016 240517 240216 240569 240569 240659 240677	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Multi-County Alameda Multi-County Multi-County Alameda Regional Multi-County Multi-County Alameda Regional Multi-County Multi-County Alameda Regional	\$25 \$15 \$28 \$108 \$3 \$10 \$10 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20 \$20 \$20 \$20 \$31 \$32 \$31 \$32 \$32 \$33 \$34 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30 \$221 \$40 \$42 \$40 \$42 \$40 \$42 \$40 \$42 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40	\$9 \$16 \$173 \$573 \$555 \$2 \$6 \$1128 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$52 \$48 \$59 \$55 \$55 \$55 \$56 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$57	\$9 \$16 \$73 \$73 \$75 \$55 \$2 \$66 \$1112 \$1,286 \$55 \$4 \$29 \$220 \$510 \$111 \$18 \$52 \$44 \$536 \$536 \$54 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 0.9 0.9 0.7 0.8 0.8	-30% -23% -22% -0% -9% -3% -0% -20% -20% -20% -20% -20% -19% -12% -22% -42% -20% -0% -18% -18% -18% -18% -18%	44 45 46 47 48 49 49 50 51 52 53 54 55 56 57 57 60 60 61 62 63 64	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60 66 66
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Alt106 Alt107 Alt43 Alt107 Alt53 Alt107 Alt34 Alt63 Alt67 Alt144 Alt64 A	240526 22247 240699 n/a 22268 230550 n/a 240545 230055  LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240620 240650 240676, 240675, 240677 240627 230252 230219, 230314	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetcar Expansion Program Jumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Colden Gate Bus Service Frequency Improvements Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center (Light Rail Extension (Phase 2: to Eastridge	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Climate Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Alameda Multi-County Multi-County Multi-County Alameda Regional San Francisco Alameda Regional Regional Regional San Francisco Alameda Regional San Francisco Alameda Regional San Francisco Alameda Sonoma Regional Regional Sonoma Regional	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$10 \$158 \$1,787 \$6 \$6 \$5 \$5 \$272 \$606 \$112 \$220 \$220 \$322 \$31 \$32 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30 \$221 \$472 \$10 \$42 \$5 \$12 \$12 \$472 \$10 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$13 \$14 \$14 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15 \$15	\$9 \$16 \$73 \$75 \$75 \$65 \$2 \$6 \$112 \$1,1286 \$5 \$4 \$29 \$220 \$5110 \$111 \$118 \$12 \$44 \$9 \$36 \$41 \$52 \$112 \$112 \$112 \$112 \$112 \$113 \$113 \$11	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,1286 \$5 \$4 \$29 \$220 \$5110 \$111 \$118 \$52 \$44 \$9 \$36 \$41 \$52 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$51 \$52 \$53 \$54 \$55 \$55 \$54 \$55 \$55 \$55 \$55 \$55 \$55	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 1 1 1 1 1 1 1 1 0.9 0.9 0.7 0.8 1 0.6 0.8 0.6 0.6 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	-30% -23% -22% -0% -25% -3% -3% -3% -20% -20% -20% -20% -22% -22% -42% -22% -42% -3% -18% -3% -18% -3%	44 45 46 47 48 49 50 51 51 52 53 53 54 55 56 57 57 60 60 63 64 65 66 66 67	48 49 39 51 40 43 47 46 53 50 50 55 57 58 64 60 66 65 61 66 66 62 68
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Alt106 Alt99 Alt43 Ait100 Alt101 Alt101 Alt101 Alt105 Alt63 Alt107 Alt34 Alt103 Alt104 Alt54 Alt103 Alt104 Alt104 Alt104 Alt104 Alt106 Alt107 Alt106 Alt107	240526 22247 240699 n/a 22268 230550 n/a 240545 230055  LBART 240521, 21627 00ACT1 22343 98147, 240591 240577 22415 240526 240577 223052 230219, 230314 229567 23054 229547 22057 230554	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Usermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Uvermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Hilstoric Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation [BAAQMD program] SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Golden Gate Bus Service Frequency Improvements Honton Gate Gate Gate Gate Gate Gate Gate Gate	Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda San Francisco Multi-County Alameda San Francisco San Francisco Alameda San Francisco San Franci	\$25 \$15 \$28 \$108 \$3 \$10 \$10 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20 \$20 \$31 \$31 \$32 \$10 \$1,787 \$6 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$6 \$1,787 \$1,78	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30 \$221 \$40 \$42 \$42 \$42 \$45 \$5 \$5 \$5 \$6 \$40 \$40 \$40 \$40 \$40 \$40 \$40 \$40	\$9 \$16 \$173 \$555 \$2 \$6 \$1128 \$51,286 \$52 \$2 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$59 \$510 \$511 \$118 \$52 \$54 \$511 \$518 \$52 \$54 \$54 \$552 \$54 \$552 \$551 \$552 \$551 \$552 \$551 \$552 \$551 \$552 \$553 \$553 \$553 \$553 \$553 \$553 \$553	\$9 \$116 \$73 \$73 \$75 \$52 \$6 \$5112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$118 \$52 \$44 \$52 \$510 \$510 \$511 \$518 \$52 \$54 \$52 \$54 \$552 \$54 \$552 \$550 \$550 \$550 \$550 \$550 \$550 \$550	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 0.9 0.7 0.8 0.6 0.6 0.7 0.6 0.6 0.7 0.7 0.8 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	-30% -23% -22% -0% -9% -3% -0% -20% -20% -20% -20% -19% -22% -22% -42% -16% -18% -18% -3% -23% -24% -21% -24% -21% -24% -14% -15%	44 45 46 47 48 49 50 51 51 52 53 55 56 60 60 60 65 66 67 66 67 70 70 70 71 72 73	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60 66 62 68 67 69 77 70 72 75 77 77 77 77 77 77 77 77 77
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Alt106 Alt107 Alt43 Alt107 Alt34 Alt107 Alt34 Alt107 Alt34 Alt107 Alt41 Alt52 Alt62 Alt70	240526 22247 240699 n/a 22268 230550 n/a 240545 230055  LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240620 240650 240589 240676, 240675, 240677 240216 240677 22019 230524 230547 22019 230547 22019 230547 22019 28139 230554	iceary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements (Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HoV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMD program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements EV Solar Installation (BAAQMD program) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Marin Countywide Bus Service Frequency Improvements Golden Gate Gus	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion Transit Efficiency Transit Expansion	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Multi-County Contra Costa Multi-County Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara Santa Clara Santa Clara	\$25 \$15 \$28 \$124 \$108 \$3 \$10 \$10 \$158 \$1,787 \$6 \$6 \$158 \$1,787 \$6 \$6 \$272 \$606 \$112 \$20 \$20 \$32 \$31 \$32 \$31 \$32 \$31 \$31 \$31 \$31 \$31 \$31 \$31 \$31	\$12 \$22 \$124 \$82 \$3 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30 \$221 \$472 \$472 \$472 \$472 \$472 \$472 \$472 \$472	\$9 \$16 \$73 \$73 \$65 \$2 \$6 \$51,286 \$5 \$4 \$29 \$220 \$511 \$18 \$18 \$52 \$54 \$59 \$535 \$54 \$59 \$55 \$54 \$59 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	\$9 \$116 \$73 \$73 \$65 \$2 \$65 \$1,286 \$1,286 \$5,4 \$29 \$220 \$510 \$111 \$18 \$52 \$52 \$54 \$510 \$511 \$518 \$52 \$52 \$53 \$53 \$53 \$53 \$53 \$53 \$535 \$535	2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-30% -23% -22% -0% -25% -3% -3% -3% -20% -20% -20% -20% -22% -22% -42% -22% -42% -30% -16% -18% -38% -18% -0% -19% -23% -24% -24% -24% -24% -25% -25% -25% -26% -16% -18% -18% -18% -18% -18% -18% -18% -24% -24% -24% -24% -25% -24% -25% -24% -25% -25% -25% -25% -25% -25% -25% -25	44 45 46 47 48 49 50 51 51 52 53 54 55 56 57 58 60 60 62 63 64 64 65 66 67 68 69 70 70 71 72 73 74	48 49 39 51 40 43 47 46 53 50 55 57 58 64 60 56 59 66 66 66 66 67 69 70 70 77 73
Alt106 Alt99 Alt43 Alt101 Alt43 Alt101 Alt151 Alt63 Alt107 Alt34 Alt63 Alt107 Alt54 Alt61 Alt62 Alt62 Alt64 Alt61 Alt62 Alt64 Alt61 Alt61 Alt62 Alt74 Alt61 Alt61 Alt62 Alt79 Alt63 Alt79 Alt63 Alt79 Alt61	240526 22247 240699 n/a 22268 230550 n/a 240545 230055  LBART 240521, 21627 00ACT1 22343 98147, 240591 24057 24057 240520 24057 230252 230219, 230314 22567 230554 220554	Geary Boulevard BRT	Transit Efficiency Transit Efficiency Transit Efficiency Maintenance Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco Regional Alameda Regional San Mateo Regional San Mateo Regional San Francisco Multi-County Alameda Multi-County Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Multi-County Alameda Regional Multi-County Marin Multi-County San Francisco Alameda San Francisco San Francisco Alameda San Francisco San Francisco Alameda San Francisco Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara Alameda Santa Clara Santa Clara Santa Clara	\$25 \$15 \$28 \$108 \$3 \$108 \$3 \$108 \$3 \$108 \$3 \$109 \$108 \$109 \$119	\$12 \$22 \$124 \$82 \$3 \$9 \$153 \$1,787 \$5 \$6 \$30 \$221 \$472 \$40 \$42 \$5 \$5 \$5 \$5 \$5 \$6 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	\$9 \$16 \$173 \$55 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$111 \$18 \$52 \$54 \$54 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55	\$9 \$116 \$73 \$73 \$75 \$52 \$66 \$1112 \$1,1286 \$55 \$4 \$29 \$220 \$510 \$111 \$118 \$52 \$54 \$512 \$52 \$510 \$512 \$512 \$513 \$515 \$516 \$517 \$52 \$517 \$518 \$518 \$52 \$536 \$531 \$536 \$531 \$536 \$531 \$536 \$537 \$535 \$537 \$5353 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$536 \$537 \$537 \$538 \$538 \$538 \$538 \$538 \$538 \$538 \$538	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-30% -23% -22% -22% -0% -9% -3% -3% -20% -20% -20% -20% -19% -22% -42% -16% -18% -33% -23% -21% -24% -21% -24% -14% -14% -15%	44 45 46 47 48 49 50 50 51 51 52 53 54 55 66 60 63 64 65 66 67 70 70 72 73 74	48 49 39 51 40 43 47 46 53 50 54 55 57 58 64 60 66 66 62 68 68 67 69 71 70 77 73 76

# TABLE D13: TRAVEL TIME SENSITIVITY TEST RESULTS (-50% VALUATION)

					Original Total Annualized	Adjusted Total Annualized	Original Total Annualized	Adjusted Total Annualized					
					Benefits (in	Benefits (in	Costs (in	Costs (in			Percent		
Alt	RTPID#	Alternative	Mode	County	millions of 2013 dollars)	millions of 2013 dollars)	millions of 2013 dollars)	millions of 2013 dollars)	Original B/C	Adjusted B/C	Change B/C	Original Rank	Adjusted Rank
Alt90	240182	BART Metro Program	Transit Efficiency	Multi-County	\$161	\$95	-\$4	-\$4	>60	>60	- -	1	1
Alt93	240694	Treasure Island Congestion Pricing	Pricing	Regional	\$69	\$49	\$1	\$1	59	42	-29%	2	2
Alt85 Alt71	240522 22780	Congestion Pricing Pilot AC Transit Grand-MacArthur BRT	Pricing Transit Efficiency	San Francisco Alameda	\$227 \$32	\$191 \$18	\$5 \$2	\$5 \$2	45 18	38 10	-16% -44%	3 4	4
Alt104	22274	ITS Improvements in San Mateo County	Road Efficiency	San Mateo	\$56	\$31	\$4	\$4	16	9	-45%	5	6
Alt105	240494	ITS Improvements in Santa Clara County	Road Efficiency	Santa Clara	\$752	\$413	\$48	\$48	16	9	-45%	5	6
Alt5 Alt53	230419 22062	Freeway Performance Initiative Irvington BART Station	FPI Transit Efficiency	Regional Alameda	\$3,175 \$19	\$1,745 \$13	\$202 \$2	\$202 \$2	16 12	9 8	-45% -31%	5 8	9
Alt57	240171	SFMTA Transit Effectiveness Project	Transit Efficiency	San Francisco	\$90	\$47	\$8	\$8	11	6	-47%	9	11
Alt95	240582	Truck & Motorcycle Retirement [BAAQMD program]	Transit Efficiency	Regional	\$55	\$55	\$6	\$6	9	9	0%	10	5
Alt44	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Highway Expansion	Santa Ciara	\$144	\$71	\$21	\$21	7	3	-50%	11	15
Alt25	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)		Santa Clara	\$81	\$71	\$12	\$12	7	6	-12%	12	10
Alt27 Alt91	94506 98207T	Fremont/Union City East-West Connector Alameda-Oakland BRT + Transit Access Improvements	Arterial Expansion Transit Efficiency	Alameda Alameda	\$65 \$14	\$33 \$7	\$10 \$2	\$10 \$2	7 6	3	-49% -50%	13 14	18 19
Alt14	240060, 240523	US-101 Express Lanes - Whipple to County Line	Road Efficiency	Multi-County	\$123	\$68	\$19	\$19	6	4	-45%	15	14
Alt21	230161	Van Ness Avenue BRT	Transit Efficiency	San Francisco	\$44	\$27	\$7	\$7	6	4	-39%	16	13
Alt36 Alt80	HOTd 240155	Silicon Valley Express Lanes Network Better Market Street	Express Lanes Netw Transit Efficiency	Multi-County San Francisco	\$408 \$56	\$68 \$29	\$70 \$10	\$70 \$10	6	3	-83% -49%	17 18	51 22
Alt8	22455	AC Transit East Bay BRT	Transit Efficiency	Alameda	\$62	\$29	\$10	\$10	5	3	-49%	19	23
Alt49	НОТе	Express Lanes Network E	Express Lanes Netw		\$602	\$235	\$118	\$118	5	2	-61%	20	27
Alt32 Alt96	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680) Local Streets and Roads Capital Maintenance Needs	Road Efficiency	Solano	\$18 \$1,369	\$9 \$1,369	\$4 \$280	\$4 \$280	5	3 5	-51%	21 22	24 12
AIL96	n/a	Local Streets and Roads Capital Maintenance Needs	Maintenance	Regional	\$1,309	\$1,309	\$280	\$280	3	3	0%	22	12
Alt13	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Transit Expansion	Santa Clara	\$324	\$220	\$70	\$70	5	3	-32%	23	20
	240424	Caltrain Service Frequency Improvements (6-Train Service			4450	4405	40.4	424	_		240/		24
Alt47 Alt56	240134 240557	during Peak Hours) + Electrification (San Francisco To Tamien)  Oakdale Caltrain Station	Transit Efficiency Transit Efficiency	Multi-County San Francisco	\$153 \$3	\$105 \$2	\$34 \$1	\$34 \$1	5 4	3	-31% -23%	24 25	21 17
		SR-84/I-680 Interchange Improvements + SR-84 Widening											
Alt23 Alt38	240062 230294	(Pigeon Pass to I-680)	Highway Expansion	Alameda	\$87 \$148	\$40 \$80	\$21	\$21 \$41	4	2	-54% -46%	26	29
Alt15	230290	New SR-152 Alignment Transbay Transit Center - Phase 2B (Caltrain Downtown	Highway Expansion Transit Expansion	Santa Clara Multi-County	\$148	\$61	\$41 \$31	\$31	4	2	-46%	27 28	28 26
Alt97	240410	Transportation for Livable Communities	TLC	Regional	\$875	\$875	\$255	\$255	3	3	0%	29	16
Alt6 Alt51	21205, 22350 21341	I-680/SR-4 Interchange Improvements + SR-4 Widening Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Highway Expansion Transit Efficiency	Contra Costa Solano	\$65 \$2	\$29 \$1	\$21 \$1	\$21 \$1	3	1	-55% -51%	30 31	40 35
Alt58	240617	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)	Road Efficiency	Napa	\$11	\$7	\$4	\$4	3	2	-36%	32	32
	22227, 240328,	Geneva Avenue Corridor Improvements (Roadway Extension,			Anc	424	44-	44-			****		20
Alt66 Alt87	240334 240147	BRT, and Southern Intermodal Terminal) Southeast Waterfront Transportation Improvements	Transit Efficiency Transit Efficiency	Multi-County San Francisco	\$36 \$88	\$21 \$50	\$15 \$36	\$15 \$36	2	1	-43% -44%	33 34	38 42
Alt17	240026		Transit Efficiency	San Mateo	\$59	\$37	\$25	\$25	2	1	-38%	35	34
Alt24	240119	VTA El Camino BRT	Transit Efficiency	Santa Clara	\$28	\$19	\$12	\$12	2	2	-31%	36	33
Alt77 Alt84	00BART 230604	BART Service Frequency Improvements  Bay Bridge Contraflow Lane	Transit Efficiency Road Efficiency	Multi-County Multi-County	\$126 \$67	\$80 \$67	\$56 \$31	\$56 \$31	2	2	-37% 0%	37 38	36 25
Alt88	580_BUS	I-580 Express Bus (Dublin to Livermore)	Transit Efficiency	Alameda	\$32	\$22	\$16	\$16	2	1	-31%	39	45
Alt33	240018	Dumbarton Transit Corridor (Phase 1: Express Bus)	Transit Efficiency	Alameda	\$23	\$14	\$12	\$12	2	1	-40%	40	47
	22511, 22512, 22122, 230613,	WETA Service Expansion (Treasure Island, Berkeley/Albany,											
Alt9	22120, 230581	Richmond, Hercules, and Redwood City)	Transit Expansion	Multi-County	\$41	\$32	\$22	\$22	2	1	-24%	41	37
Alt73	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Highway Expansion	Contra Costa	\$15	\$11	\$9 \$14	\$9	2	1	-31%	42	46
Alt86	00MUNI 230164	Muni Service Frequency Improvements Geary Boulevard BRT	Transit Efficiency Transit Efficiency	San Francisco	\$25 \$15	\$12 \$9		\$14 \$9	2	0.9	-50% -38%	43 44	54 49
	00MUNI 230164 240526	Muni Service Frequency Improvements Geary Boulevard BRT SFCTA Transit Performance Initiative	Transit Efficiency Transit Efficiency	San Francisco San Francisco San Francisco	\$25 \$15 \$28	\$12 \$9 \$18	\$9 \$16	\$14 \$9 \$16	2 2 2	0.9 1 1	-50% -38% -37%	43 44 45	54 49 48
Alt86 Alt2	230164	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network	Transit Efficiency	San Francisco	\$15	\$9	\$9	\$9	2	1	-38%	44	49
Alt86 Alt2 Alt75 Alt98	230164 240526 22247	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of	Transit Efficiency Transit Efficiency Bike/Ped	San Francisco San Francisco Regional	\$15 \$28 \$124	\$9 \$18 \$124	\$9 \$16 \$73	\$9 \$16 \$73	2 2 2 2	1 1 2	-38% -37% 0%	44 45 46	49 48 30
Alt86 Alt2 Alt75	230164 240526	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network	Transit Efficiency Transit Efficiency	San Francisco San Francisco	\$15 \$28	\$9 \$18	\$9 \$16	\$9 \$16	2 2 2	1	-38% -37%	44 45	49 48
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99	230164 240526 22247 240699 n/a	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance	San Francisco San Francisco Regional Alameda Regional	\$15 \$28 \$124 \$108 \$3	\$9 \$18 \$124 \$64 \$3	\$9 \$16 \$73 \$65 \$2	\$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2	1 1 2 1 2	-38% -37% 0% -41% 0%	44 45 46 47 48	49 48 30 50 31
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43	230164 240526 22247 240699 n/a	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo	\$15 \$28 \$124 \$108 \$3	\$9 \$18 \$124 \$64 \$3	\$9 \$16 \$73 \$65 \$2	\$9 \$16 \$73 \$65 \$2	2 2 2 2 2 2	1 1 2 1 2	-38% -37% 0% -41% 0%	44 45 46 47 48	49 48 30 50 31
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101	230164 240526 22247 240699 n/a 22268 230550 n/a	Geary Boulevard BRT SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance	San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 1 1	1 1 2 1 2 1 1 1	-38% -37% 0% -41% 0% -15% -5% 0%	44 45 46 47 48 49 50 51	49 48 30 50 31 39 44 41
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	230164 240526 22247 240699 n/a 22268 230550 n/a 240545	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 1 1	1 1 2 1 2 1 1 1 0.9	-38% -37% 0% -41% 0% -15% -5% 0% -34%	44 45 46 47 48 49 50 51 52	49 48 30 50 31 39 44 41 53
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101	230164 240526 22247 240699 n/a 22268 230550 n/a	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance	San Francisco San Francisco Regional Alameda Regional San Mateo Regional	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286	2 2 2 2 2 2 2 1 1	1 1 2 1 2 1 1 1	-38% -37% 0% -41% 0% -15% -5% 0%	44 45 46 47 48 49 50 51	49 48 30 50 31 39 44 41
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55	230164 240526 22247 240699 n/a 22268 230550 n/a 240545	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5	2 2 2 2 2 2 2 1 1	1 1 2 1 2 1 1 1 0.9	-38% -37% 0% -41% 0% -15% -5% 0% -34%	44 45 46 47 48 49 50 51 52	49 48 30 50 31 39 44 41 53
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107	230164 240526 222247 240699 n/a 22268 230550 n/a 240545 230055	Geary Boulevard BRT SECTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) +	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4 \$6	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4	2 2 2 2 2 2 2 2 1 1 1	1 1 2 1 2 1 1 1 0.9 1	-38% -37% 0% -41% 0% -15% -5% 0% -34% 3%	44 45 46 47 48 49 50 51 52 53	49 48 30 50 31 39 44 41 53 43
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83	230164 240526 222247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$3	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4 \$6	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$11,286 \$5 \$4 \$29	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 2 1 1 1 1	1 1 2 1 2 1 1 1 0.9 1	-38% -37% 0% -41% 0% -15% -5% 0% -34% 3%	44 45 46 47 48 49 50 51 52 53	49 48 30 50 31 39 44 41 53 43
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt83 Alt107	230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional San Francisco Multi-County Alameda Multi-County Contra Costa	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$112	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4 \$6 \$25 \$188 \$382 \$8	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 2 1 1 1 1 1 1	1 1 2 1 2 1 1 0.9 1 0.9 1 0.9 0.9	-38% -37% 0% -41% 0% -15% -5% 0% -34% 3% -33% -31% -37% -36%	44 45 46 47 48 49 50 51 52 53 54 55 56 57	49 48 30 50 31 39 44 41 53 43 55 56 58 59
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83	230164 240526 222247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (3an Francisco to Tamien) AC Transit Frequent Transit Network 1-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Alameda Regional Regional Multi-County Multi-County Multi-County	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$3	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4 \$6 \$25	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$11,286 \$5 \$4 \$29	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29	2 2 2 2 2 2 2 1 1 1 1 1	1 1 2 1 2 1 1 1 0.9 1	-38% -37% 0% -41% 0% -15% -5% -34% 3% -33% -31% -37%	44 45 46 47 48 49 50 51 52 53 54	49 48 30 50 31 39 44 41 53 43 55 56
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1 Alt54	230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus BART to Livermore (Phase 2: 1-Station Rail Extension with Bus BART to Livermore (Phase 2: 1-Station Rail Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Biske/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Road Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Multi-County Alameda	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$122 \$20	\$9 \$18 \$124 \$64 \$3 \$9 \$1,787 \$4 \$6 \$25 \$25 \$382 \$382 \$382 \$382 \$382 \$382 \$383	\$9 \$16 \$73 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$18	\$9 \$16 \$73 \$65 \$2 \$6 \$1,126 \$1,126 \$5 \$4 \$29 \$220 \$511 \$11 \$18	2 2 2 2 2 2 1 1 1 1 1 1 1 1	1 1 2 1 2 1 1 0.9 1 0.9 0.9 0.7 0.7 0.3	-38% -37% -37% -37% -419 -419 -5% -5% -349 -349 -339 -319 -36% -70% -33%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	49 48 30 50 31 39 44 41 53 43 55 56 58 59 67
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt83 Alt67 Alt1 Alt83 Alt67 Alt1 Alt54 Alt102	230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOY Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion Climate	San Francisco San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Multi-County Multi-County Multi-County Multi-County Alameda Multi-County Alameda Regional Regional	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20 \$50 \$42	\$9 \$18 \$124 \$64 \$3 \$150 \$1,187 \$6 \$25 \$188 \$382 \$8 \$6 \$382 \$8 \$6	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$3 \$4 \$29 \$29 \$510 \$11 \$11 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$2 \$29 \$29 \$210 \$510 \$11 \$11 \$18 \$12 \$12 \$12 \$12 \$13 \$14 \$15 \$15 \$16 \$16 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17 \$17	2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1	1 1 2 1 2 1 1 1 0.9 1 0.9 0.7 0.7 0.7 0.3	-38% -37% 0% -41% 0% -15% -5% 0% -34% 3% -33% -31% -37% -36% -70% -33%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59	49 48 30 50 31 39 44 41 53 43 55 56 58 59 67
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt55 Alt63 Alt107 Alt34 Alt83 Alt67 Alt1 Alt54	230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (S-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network I-680 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOY Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Efficiency Transit Efficiency Biske/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Road Efficiency Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Alameda Multi-County Contra Costa Multi-County Alameda Multi-County Alameda	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$122 \$20	\$9 \$18 \$124 \$64 \$3 \$9 \$1,787 \$4 \$6 \$25 \$25 \$382 \$382 \$382 \$382 \$382 \$382 \$383	\$9 \$16 \$73 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$11 \$18	\$9 \$16 \$73 \$65 \$2 \$6 \$1,126 \$1,126 \$5 \$4 \$29 \$220 \$511 \$11 \$18	2 2 2 2 2 2 1 1 1 1 1 1 1 1	1 1 2 1 2 1 1 0.9 1 0.9 0.9 0.7 0.7 0.3	-38% -37% -37% -37% -419 -419 -5% -5% -349 -349 -339 -319 -36% -70% -33%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	49 48 30 50 31 39 44 41 53 43 55 56 58 59 67
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt106 Alt99 Alt100 Alt101 Alt101 Alt55 Alt63 Alt63 Alt107 Alt104 Alt104 Alt105 Alt104 Alt104 Alt104 Alt105 Alt104 Alt106 Alt107 Alt107 Alt107 Alt108 Alt107 Alt108 Alt108 Alt109 Alt10	230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22243 98147, 240691 240196 240216 240196 240216 240157 22415 240216	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network Less Express Bus Service Frequency Improvements (Phase 2: Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement (BAAQMID program) Historic Streetcar Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countyde Bus Service Frequency Improvements	Transit Efficiency Transit Efficiency Bike/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional San Francisco Multi-County Contra Costa Multi-County Alameda Regional Regional Alameda Regional San Francisco Multi-County Contra Costa Multi-County Alameda Regional San Francisco Alameda San Francisco	\$15 \$28 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$3 \$272 \$606 \$12 \$20 \$50 \$50 \$51	\$9 \$18 \$124 \$64 \$3 \$9 \$15,787 \$4 \$6 \$25 \$1,88 \$388 \$6 \$38 \$6 \$33 \$25 \$25 \$33 \$32 \$33 \$33 \$33 \$33 \$33 \$33 \$33 \$33	\$9 \$16 \$73 \$65 \$2 \$6 \$11,286 \$5 \$4 \$29 \$220 \$510 \$11 \$18 \$5 \$29 \$29 \$20 \$511 \$18 \$18 \$5 \$4	\$9 \$116 \$73 \$65 \$2 \$65 \$12 \$6 \$11286 \$5 \$4 \$29 \$229 \$220 \$511 \$118 \$18 \$52 \$52 \$54 \$59 \$54	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 2 1 1 1 1 0.9 1 0.9 0.7 0.7 0.7 0.3	-38% -37% 0% -41% 0% -5% 0% -34% 3% -31% -37% -36% -70% -33% 0% -26% -30% -29%	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61 62 63	49 48 30 50 31 39 44 41 53 43 55 56 58 59 67 62 52 61 63 64
Alt86 Alt2 Alt75 Alt98 Alt106 Alt99 Alt43 Alt100 Alt101 Alt107	230164 240526 22247 240699 n/a 22268 230550 n/a 240545 230055 LBART 240521, 21627 00ACT1 22343 98147, 240691 240196 240577 22415 240216 240589	Geary Boulevard BRT  SFCTA Transit Performance Initiative Regional Bikeway Network AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) New Freedom Program San Mateo Countywide Shuttle Service Frequency Improvements Climate Initiatives (5-year program) Transit Capital Maintenance Needs Parkmerced Light Rail Corridor Golden Gate Ferry Service Frequency Improvements BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements) Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien) AC Transit Frequent Transit Network L980 Express Bus Service Frequency Improvements (Phase 2) Marin-Sonoma Narrows (Phase 2: HOV Lanes) BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements) Heavy-Duty Truck Replacement [BAAQMD program] Historic Streetac Expansion Program Dumbarton Transit Corridor (Phase 2: Commuter Rail) Sonoma Countywide Bus Service Frequency Improvements	Transit Efficiency Transit Efficiency Bilke/Ped Transit Efficiency Maintenance Transit Efficiency Climate Maintenance Transit Efficiency Transit Expansion	San Francisco San Francisco Regional Alameda Regional San Mateo Regional Regional Regional Regional Regional Regional Regional Regional Regional Multi-County Alameda Multi-County Alameda Alameda Regional San Francisco	\$15 \$28 \$124 \$108 \$3 \$10 \$158 \$1,787 \$6 \$6 \$37 \$272 \$606 \$12 \$20 \$50 \$51,28 \$50 \$51,58 \$51,58 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7	\$9 \$18 \$124 \$64 \$3 \$9 \$150 \$1,787 \$4 \$6 \$25 \$188 \$382 \$8 \$5 \$6 \$382 \$8 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$29 \$210 \$111 \$111 \$118 \$12 \$4	\$9 \$16 \$73 \$65 \$2 \$6 \$112 \$1,286 \$5 \$4 \$29 \$220 \$510 \$118 \$38 \$38 \$44 \$39 \$34 \$38 \$38 \$38 \$38 \$38 \$38 \$38 \$38 \$38 \$38	2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 2 1 1 0.9 1 0.9 0.7 0.7 0.3 0.6 1	-38% -37% 0% -41% 0% -15% -5% 0% -34% 3% -31% -37% -36% -70% -33% 0% -36% -36% -36% -36% -36% -36% -36% -36	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 59 61 62	49 48 30 50 31 39 44 41 53 43 55 56 58 59 67 62 52 61 63
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# APPENDIX E: Project Performance Assessment Equity Considerations Documentation

By relying on the targets assessment, this analysis highlights equity considerations contained in the overall performance assessment, while at the same time looking at projects from a geographical perspective. Projects were identified as serving a community of concern if they were located in a community of concern and if they provided an access point for residents (e.g. train station, freeway on-ramp, etc.).

Three of the ten Plan Bay Area performance targets were used to calculate a project's Equity Targets Score:

- Adequate Housing
- Particulate Matter in CARE Communities
- Low-Income Household Transportation Cost

A project's Equity Targets Score indicates that project's level of support for equity concerns; it can range from +3.0 (Strong Support) to -3.0 (Strong Adverse Impacts). The same ratings and scale from the targets assessment were used to examine the scores for equity considerations:

- strong support (1)
- moderate support (0.5)
- minimal impact (o)
- moderate adverse impact (-0.5)
- strong adverse impact (-1)

# Adequate Housing

Target scores are consistent with the overall targets assessment methodology as documented in Appendix B.

#### PM in CARE Communities

The results for target 3c are reported separately in the Project Assessment Equity Considerations Table. Projects were mapped against the six Community Air Risk Evaluation (CARE) Impacted Communities. These are areas that are highly impacted from outdoor Toxic Air Contaminants (TAC) due to their proximity to ports or freeways and a high density of sensitive populations (seniors, children, and low income residents). Projects likely to increase transit, biking or walking and are located in a CARE community are considered to support the target. Conversely, projects that

increase VMT and are located in a CARE community are considered to adversely affect this target. The degree of support or adverse impact is a function of the project scale and likely increase or decrease in VMT. Projects receive a minimal rating if they do not affect VMT substantially, even if they are located in a CARE community. Projects that are not located in a CARE community also receive a minimal rating.

#### **Examples**

El Camino Real Complete Streets Improvements – This project is located in a CARE community and supports bicycle, pedestrian, and transit improvements along a major corridor. Therefore, the project receives a **moderate support** rating for the PM in CARE target.

*I-8o Ashby Interchange Improvements* – Despite improvements to Interstate 80 that largely favor cars, this project does not increase VMT substantially and therefore does not increase particulate matter emissions. The project receives a **minimal impact** rating for PM in CARE, despite the project being located adjacent to a CARE community.

Fremont/Union City East-West Connector — This project is an expansion of an arterial roadway and is expected to increase VMT. As expected, the project receives a moderate adverse impact rating for VMT and PM, but since the project is not located in a CARE community, it scores **minimal impact** for PM in CARE.

Silicon Valley Express Lanes Network – The addition of express lanes would make driving more attractive and increase vehicle use throughout the county. This project receives a **moderate adverse impact** rating for PM in CARE because some express lane corridors intersect with South Bay CARE communities.

#### **Low-Income H+T Affordability**

Target scores are consistent with the overall targets assessment methodology as documented in Appendix B.

	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
	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
J	4	22780	AC Transit Grand-MacArthur BRT	Alameda/ 3434	Transit Efficiency	36	32	2	18	n/a	5.5	5.5	0
High B/C	5	230419	Freeway Performance Initiative	Regional	FPI	2,991	3,175	202	16	28	4.0	4.0	0
王	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
	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
th B/C	16	230161	Van Ness Avenue BRT	San Francisco/ 3434	Transit Efficiency	140	44	7	6	n/a	6.5	6.5	0
Medium-High B/C	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
/lediu	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	НОТе	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
	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
Medium-Low B/C	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
dium	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
ğ	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

	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
	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
	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
№ B/C	69	230547	Monterey Highway BRT	Santa Clara	Transit Efficiency	140	15	37	0.4	n/a	5.5	5.5	0
Low	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
	<i>7</i> 5	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

B/C RATIO - COLOR	RKEY
High B/C	
(B/C ratio greater than 10)	
Medium-High B/C	
(B/C ratio between 5 and 9)	
Medium-Low B/C	
(B/C ratio between 1 and 4)	
Low B/C	
(B/C ratio less than 1)	

TARGE	TS SCORE - COLOR KEY
	Strong Support
	(score of 6.0 or higher)
	Moderate Support
	(score between 1.5 and 5.5)
	Minimal Impact
	(score between -1.0 and 1.0)
	Moderate Adverse Impact
	(score between -1.5 and -5.5)
	Strong Adverse Impact
	(score of -6.0 or lower)

												TRAVEL TI	ME BENEFITS	;		TRAVEL COST	BENEFITS /	AIR POLLUTAN	NT BENEFITS	COLLISIC	NS & ACTIVE	TRANSPORT BE	ENEFITS
Row# F	Project ID	Project Name	County	Project Type	Project Capital Costs [in millions]	Net Annual O&M Costs [in millions]	Total Annualized 2035 Benefits [in millions]	Total Annualized 2035 Costs [in millions]	B/C Ratio	Auto/Truck [in millions of hours]	Auto/Truck (Non-Recurr. Delay) [in millions of hours]	Transit In- Vehicle [in millions of hours]	Transit Out-of- Vehicle [in millions of hours]	Walk/Bike [in millions of hours]	TOTAL	VMT [in millions] Ve	ehicles Owned	PM2.5 [in tons]	CO2 [in thousands of metric tons]	Fatalities due to Collisions	Injuries due to Collisions	Property Damage Only (PDO) Collisions	Active Individuals
1	22780	AC Transit Grand-MacArthur BRT	ALA/3434	Transit Efficiency	\$ 36.0	\$ -	\$ 31.5	\$ 1.8	18	(1.4)	(0.1)	0.1	(0.1)	0.0	(1.5)	(6)	(53)	(0.9)	(8)	(0.1)	(4)	(7)	98
2	22062	Irvington BART Station	ALA	Transit Efficiency	\$ 123.0	\$ -	\$ 18.7	\$ 1.5	12	(0.6)	(0.1)	0.2	(0.1)	(0.0)	(0.6)	(6)	(357)	(0.5)	(4)	(0.1)	(4)	(6)	763
3	94506	Fremont/Union City East-West Connector	ALA	Arterial Expansion	\$ 190.0	\$ 0.5	\$ 65.5	\$ 10.0	7	(3.7)	(0.2)	0.0	0.0	0.0	(3.9)	2	164	(1.6)	(20)	(0.1)	(10)	3	(449)
4	982071	Alameda-Oakland BRT + Transit Access Improvements	ALA	Transit Efficiency	\$ 15.8	\$ 1.3	\$ 13.6	\$ 2.1	6	(0.1)	0.0	(0.0)	(0.3)	0.0	(0.4)	(1)	12	0.0	0	(0.0)	(1)	(1)	(200)
5	22455	AC Transit East Bay BRT	ALA/3434	Transit Efficiency	\$ 211.0	\$ 1.0	\$ 62.0	\$ 11.6	5	(0.8)	(0.0)	(1.2)	(0.9)	(0.1)	(3.0)	6	187	(0.3)	(4)	0.0	3	8	(100)
6		SR-84/I-680 Interchange Improvements + SR-84 Widening (Jack London to I-680)	ALA	Highway Expansion	\$ 380.5	\$ 1.7	\$ 87.1	\$ 20.7	4	(5.0)	(0.6)	(0.1)	0.1	(0.0)	(5.6)	16	446	(1.4)	(19)	(0.0)	(2)	23	(624)
7	580_BUS	l-580 Express Bus (Dublin to Livermore)	ALA	Transit Efficiency	\$ 150.0	\$ 8.1	\$ 31.8	\$ 16.4	2	(1.2)	(0.1)	0.5	(0.2)	(0.0)	(1.0)	(17)	(156)	(0.8)	(6)	(0.2)	(12)	(18)	329
8	LBART	BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	ALA	Transit Expansion	\$ 555.3	\$ 10.1	\$ 36.7	\$ 28.6	1	(1.6)	(0.2)	1.3	(0.4)	(0.1)	(1.0)	(19)	(482)	(1.4)	(12)	(0.2)	(12)	(20)	486
9	240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	ALA	Transit Expansion	\$ 1,134.5	\$ 14.6	\$ 49.6	\$ 52.4	1	(2.2)	(0.3)	1.8	(0.5)	(0.1)	(1.3)	(26)	(651)	(1.9)	(16)	(0.2)	(16)	(27)	657
10	22667	BART to Livermore (Phases 1 & 2: Rail Extension)	ALA	Transit Expansion	\$ 4,177.0	\$ 14.2	\$ 56.7	\$ 153.4	0.4	(2.2)	(0.3)	1.4	(0.5)	(0.1)	(1.7)	(26)	(651)	(1.9)	(16)	(0.2)	(16)	(27)	657
11	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	ALA/3434	Transit Efficiency	\$ 180.0	\$ -	\$ (0.1)	\$ 2.3	0.0	(0.1)	0.1	0.0	0.0	(0.0)	0.0	(1)	(8)	0.0	0	(0.0)	(1)	(1)	29
12	22400	SR-239 Expressway Construction (Brentwood to Tracy)	СС	Highway Expansion	\$ 372.7	\$ 1.9	\$ 143.8	\$ 20.6	7	(8.5)	(0.2)	0.0	0.0	(0.0)	(8.6)	18	363	(2.7)	(38)	(0.4)	(32)	28	(553)
13		I-680/SR-4 Interchange Improvements + SR-4 Widening (Morello Avenue to SR-242)	СС	Highway Expansion	\$ 396.3	\$ 1.4	\$ 65.4	\$ 21.2	3	(2.8)	(0.5)	(0.4)	(0.3)	0.0	(4.0)	6	2,774	0.2	6	(0.1)	(6)	19	(244)
14	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	СС	Highway Expansion	\$ 149.9	\$ 1.1	\$ 15.5	\$ 8.6	2	(0.6)	(0.0)	0.0	(0.0)	(0.0)	(0.6)	(5)	(32)	0.2	8	(0.5)	(38)	(5)	(16)
15	22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	СС	Transit Efficiency	\$ 59.7	\$ 6.4	\$ 12.2	\$ 10.7	1	(0.5)	0.0	0.2	(0.1)	(0.0)	(0.4)	(4)	(181)	(0.4)	(3)	(0.0)	(3)	(4)	333
16	230252	Marin Countywide Bus Service Frequency Improvements	MRN	Transit Efficiency	\$ -	\$ 12.3	\$ 8.9	\$ 12.3	0.7	(0.3)	(0.0)	0.5	(0.1)	(0.1)	0.0	(8)	(475)	(0.4)	(3)	(0.1)	(6)	(8)	1,439
17	240182	BART Metro Program (including Bay Fair Connection and Civic Center Turnback)	Multi-Cty.	Transit Efficiency	\$ 650.0	\$ (18.5)	\$ 161.3	\$ (10.4)	>60	(3.0)	(0.2)	0.9	(2.6)	(0.1)	(5.0)	(31)	(1,373)	(1.9)	(17)	(0.3)	(21)	(32)	2,735
18	240523, 240060	US-101 HOV Lanes (Whipple Avenue to Cesar Chavez Street)	Multi-Cty.	Road Efficiency	\$ 330.7	\$ 2.8	\$ 122.7	\$ 19.3	6	(5.0)	(1.2)	(0.4)	(0.0)	0.1	(6.5)	(29)	(451)	(0.8)	(1)	(0.2)	(14)	(5)	(281)
19	НОТе	CTC Application + Alameda County Authorized Lanes Express Lanes Network	Multi-Cty.	Express Lanes Network	\$ 2,364.0	\$ -	\$ 601.6	\$ 118.2	5	(15.7)	(24.3)	(2.7)	(0.6)	(0.3)	(43.5)	235	5,456	9.8	39	1.3	78	298	(5,050)
20	21627	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi-Cty.	Transit Efficiency	\$ 847.7	\$ 5.6	\$ 152.5	\$ 33.9	5	(3.3)	(0.3)	1.0	(1.5)	(0.0)	(4.1)	(69)	(2,438)	(3.0)	(23)	(0.6)	(42)	(70)	5,760
21	22227, 240328, 240334	BRT, and Southern Intermodal Terminal)	Multi-Cty.	Transit Efficiency	\$ 215.7	\$ 3.7	\$ 36.1	\$ 14.5	2	(1.5)	(0.0)	(0.1)	(0.1)	(0.0)	(1.7)	(6)	(174)	(1.0)	(9)	(0.1)	(7)	(5)	(105)
22	00BART	BART Service Frequency Improvements	Multi-Cty.	Transit Efficiency	\$ 1,274.7	\$ 13.1	\$ 126.0	\$ 55.6	2	(3.2)	(0.4)	1.2	(1.5)	(0.0)	(3.8)	(42)	(1,390)	(2.6)	(23)	(0.4)	(28)	(43)	2,753
23	230604	Bay Bridge Contraflow Lane	Multi-Cty.	Road Efficiency	\$ 610.5	\$ -	\$ 66.8	\$ 30.5	2	(2.7)	0.1	(2.6)	0.3	0.1	(4.9)	(7)	317	(1.2)	(11)	0.4	32	4	(2,591)
24	240018	Dumbarton Corridor Express Bus	Multi-Cty.	Transit Efficiency	\$ 101.0	\$ 4.5	\$ 22.6	\$ 11.7	2	(0.5)	(0.1)	0.4	(0.4)	(0.0)	(0.6)	(6)	(200)	(0.4)	(4)	(0.1)	(4)	(6)	552
25			Multi-Cty./ 3434	Transit Expansion	\$ 320.2	\$ 15.7	\$ 41.3	\$ 22.1	2	(2.8)	(0.3)	0.7	0.6	0.0	(1.8)	(27)	(790)	(1.9)	(16)	(0.3)	(18)	(28)	1,714
26	240699	AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Multi-Cty.	Transit Efficiency	\$ -	\$ 64.9	\$ 108.5	\$ 64.9	2	(1.8)	(0.2)	1.8	(2.4)	(0.2)	(2.6)	(29)	(1,847)	(1.4)	(11)	(0.3)	(20)	(28)	(4,761)
27	230055	Golden Gate Ferry Service Frequency Improvements	Multi-Cty.	Transit Efficiency	\$ 34.4	\$ 3.3	\$ 5.8	\$ 4.4	1	(0.4)	(0.0)	0.5	0.0	(0.0)	0.0	(4)	(286)	(0.4)	(3)	(0.1)	(4)	(4)	661
28	240521, 240134, 21627	Caltrain Vision (10-Train Service during Peak Hours) +	Multi-Cty.	Transit Efficiency	\$ 5,598.7	\$ 33.7	\$ 272.0	\$ 220.3	1	(5.6)	(0.5)	2.3	(2.8)	(0.1)	(6.9)	(124)	(4,553)	(5.7)	(44)	(1.1)	(75)	(126)	10,025
29	00ACT1	AC Transit Frequent Transit Network	Multi-Cty.	Transit Efficiency	\$ 654.3	\$ 463.6	\$ 605.7	\$ 510.3	1	(12.7)	(1.3)	13.0	(11.6)	(0.6)	(13.2)	(173)	(9,548)	(8.7)	(72)	(1.7)	(118)	(171)	9,442

											TRAVEL TI	ME BENEFITS			TRAVEL COS	T BENEFITS	AIR POLLUTA	NT BENEFITS	COLLISIO	NS & ACTIVE	TRANSPORT BE	ENEFITS
Row# F	roject ID Project Name	County	Project Type	Project Capital Costs [in millions]	Net Annual O&M Costs [in millions]	Total Annualized 2035 Benefits [in millions]		3/C Ratio	Auto/Truck [in millions of hours]	Auto/Truck (Non-Recurr. Delay) [in millions of hours]	Transit In- Vehicle [in millions of hours]	Transit Out-of- Vehicle [in millions of hours]	Walk/Bike [in millions of hours]	TOTAL	VMT [in millions]	Vehicles Owned	PM2.5 [in tons]	CO2 [in thousands of metric tons]	Fatalities due to Collisions	Injuries due to Collisions	Property Damage Only (PDO) Collisions	Active Individuals
30	98147. 240691 Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Multi-Cty.	Road Efficiency	\$ 300.0	\$ 2.7	\$ 20.0	\$ 17.7	1	(0.5)	(0.4)	(0.4)	(0.1)	0.0	(1.4)	14	235	0.5	9	0.1	8	17	(601)
31	240216 Dumbarton Rail	Multi-Cty./ 3434	Transit Expansion	\$ 755.0	\$ 11.1	\$ 30.7	\$ 36.3	0.8	(1.1)	(0.2)	0.4	(0.1)	(0.0)	(1.0)	(16)	(502)	(0.9)	(8)	(0.2)	(11)	(16)	942
32	240676, 240675, 240677 Cost Deferrals)	Multi-Cty./ 3434	Transit Expansion	\$ 282.9	\$ 3.8	\$ 9.7	\$ 13.2	0.7	(0.3)	(0.1)	0.1	(0.1)	(0.0)	(0.3)	(5)	(161)	(0.2)	(1)	(0.0)	(3)	(5)	252
33	230219, 230314 Golden Gate Bus Service Frequency Improvements	Multi-Cty.	Transit Efficiency	\$ 143.2	\$ 18.9	\$ 15.7	\$ 29.1	0.5	(0.3)	(0.0)	0.3	(0.3)	(0.0)	(0.4)	(5)	(144)	(0.3)	(2)	(0.0)	(4)	(5)	248
34	98139 ACE Service Expansion	Multi-Cty./ 3434	Transit Efficiency	\$ 600.0	\$ 46.5	\$ 19.1	\$ 66.5	0.3	(0.8)	(0.2)	(0.2)	0.3	(0.0)	(0.9)	(17)	(267)	(1.0)	(8)	(0.2)	(11)	(19)	537
35	22009 Capitol Corridor Service Frequency Improvements (Oakland to San Jose)	Multi-Cty./ 3434	Transit Efficiency	\$ 508.5	\$ 1.2	\$ 1.0	\$ 18.2	0.1	(0.1)	(0.0)	0.0	0.0	(0.0)	(0.1)	1	(12)	(0.0)	(0)	0.0	0	1	29
36	240617 SR-29 HOV Lanes and BRT (Napa Junction to Vallejo)	NAP	Road Efficiency	\$ 60.0	\$ 1.2	\$ 10.9	\$ 4.2	3	(0.4)	(0.2)	(0.0)	0.0	0.0	(0.5)	(1)	(45)	0.0	3	(0.1)	(11)	(0)	976
37	230419 Freeway Performance Initiative	Reg.	FPI	\$ 2,991.0	\$ 54.2	\$ 3,174.9	\$ 202.5	16	(155.9)	(9.8)	(2.9)	(0.9)	(0.5)	(170.0)	(65)	(5,163)	(100.1)	(2,100)	(29.0)	201	4	(3,021)
38	240582 Truck & Motorcycle Retirement [BAAQMD program]	Reg.	Climate	\$ 5.7	\$ 0.3	\$ 54.5	\$ 6.0	9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	(63.0)	0	n/a	n/a	n/a	n/a
39	n/a Local Streets and Roads Capital Maintenance Needs	Reg.	Maintenance	\$ -	\$ 280.0	\$ 1,369.3	\$ 280.0	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	240410 Transportation for Livable Communities	Reg.	TLC	\$ 7,131.3	\$ 0.0	\$ 874.8	\$ 254.7	3	(15.3)	(0.6)	(1.5)	(1.7)	2.6	(16.5)	(392)	(27,961)	(7.7)	(174)	(4.2)	(298)	(461)	167,639
41	22247 Regional Bikeway Network	Reg.	Bike/Ped	\$ 1,464.0	\$ -	\$ 124.5	\$ 73.2	2	(1.2)	(0.1)	(0.1)	(0.1)	0.2	(1.4)	(34)	(2,417)	(0.7)	(15)	(0.4)	(26)	(40)	54,406
42	n/a New Freedom Program	Reg.	Lifeline/New Freedom	\$ -	\$ 2.0	\$ 3.3	\$ 2.0	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
43	230550 Climate Initiatives (5-year program)	Reg.	Climate	\$ 560.0	\$ -	\$ 158.0	\$ 112.0	1	(0.8)	(0.0)	(0.1)	(0.1)	0.1	(0.9)	(21)	(1,497)	(0.4)	(2,216)	(0.2)	(16)	(25)	n/a
44	n/a Transit Capital Maintenance Needs	Reg.	Maintenance	\$ -	\$ 1,285.7	\$ 1,787.1	\$ 1,285.7	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	240577 Heavy-Duty Truck Replacement [BAAQMD program]	Reg.	Climate	\$ 42.2	\$ 1.8	\$ 41.8	\$ 44.0	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	(48.0)	0	n/a	n/a	n/a	n/a
46	240589 EV Solar Installation [BAAQMD program]	Reg.	Climate	\$ 1.3	\$ 0.3	\$ 1.1	\$ 1.5	0.8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0	(13)	n/a	n/a	n/a	n/a
47	240690 Lifeline Transportation Program	Reg.	Lifeline/New Freedom	\$ -	\$ 119.0	\$ 10.0	\$ 119.0	0.1	(0.2)	(0.0)	(0.0)	(0.0)	0.0	(0.2)	(6)	418	(0.1)	(3)	(0.1)	(4)	(7)	n/a
48	240694 Treasure Island Congestion Pricing	SF	Pricing	\$ 58.9	\$ -	\$ 69.1	\$ 1.2	59	(2.3)	(0.1)	1.3	(0.5)	0.0	(1.7)	(25)	(1,540)	(1.4)	(11)	(0.2)	(18)	(25)	2,483
49	240522 Congestion Pricing Pilot	SF	Pricing	\$ 101.8	\$ -	\$ 227.4	\$ 5.1	45	(6.3)	(0.2)	4.3	(1.5)	1.2	(2.4)	(85)	(9,583)	(4.6)	(40)	(1.0)	(75)	(91)	11,899
50	240171 SFMTA Transit Effectiveness Project	SF	Transit Efficiency	\$ 156.9	\$ -	\$ 89.5	\$ 7.8	11	(2.1)	(0.2)	1.0	(1.7)	(0.1)	(3.1)	(11)	(311)	(1.5)	(14)	(0.1)	(8)	(10)	(3,811)
51	230161 Van Ness Avenue BRT	SF/3434	Transit Efficiency	\$ 139.5	\$ -	\$ 44.1	\$ 7.0	6	(1.2)	(0.1)	(0.4)	(0.1)	(0.1)	(2.0)	(11)	(340)	(0.9)	(8)	(0.1)	(9)	(12)	895
52	240155 Better Market Street	SF	Transit Efficiency	\$ 200.0	\$ -	\$ 56.5	\$ 10.0	6	(2.0)	(0.4)	(0.9)	(0.2)	0.3	(3.1)	(12)	436	(0.4)	(1)	(0.2)	(14)	(2)	(423)
53	240557 Oakdale Caltrain Station	SF	Transit Efficiency	\$ 51.2	\$ -	\$ 2.8	\$ 0.6	4	(0.1)	0.0	0.1	(0.0)	(0.0)	(0.0)	(1)	(68)	(0.1)	(1)	(0.0)	(1)	(2)	76
54	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)	SF/3434	Transit Expansion	\$ 2,348.0	\$ 1.4	\$ 107.9	\$ 30.8	4	(5.4)	(0.2)	1.8	(0.9)	(0.0)	(4.7)	(22)	(545)	(1.0)	(8)	(0.2)	(14)	(22)	942
55	240147 Southeast Waterfront Transportation Improvements	SF	Transit Efficiency	\$ 397.0	\$ 16.1	\$ 88.1	\$ 36.0	2	(1.7)	(0.1)	0.2	(1.4)	(0.1)	(3.0)	(12)	(558)	(1.0)	(9)	(0.2)	(13)	(11)	(756)
56	00MUNI Muni Service Frequency Improvements	SF	Transit Efficiency	\$ -	\$ 14.0	\$ 24.7	\$ 14.0	2	(0.2)	0.0	0.2	(0.7)	0.0	(0.7)	(1)	(58)	(0.0)	(0)	(0.0)	(2)	(1)	(1,058)
57	230164 Geary Boulevard BRT	SF	Transit Efficiency	\$ 172.3	\$ -	\$ 15.1	\$ 8.6	2	(0.1)	0.0	0.1	(0.3)	(0.0)	(0.3)	(2)	(191)	(0.1)	(2)	(0.0)	(1)	(2)	463
58	240526 SFCTA Transit Performance Initiative	SF	Transit Efficiency	\$ 489.8	\$ -	\$ 28.4	\$ 16.3	2	(0.4)	(0.1)	(0.6)	(0.1)	(0.1)	(1.2)	(5)	(404)	(0.4)	(3)	(0.1)	(4)	(5)	338
59	240545 Parkmerced Light Rail Corridor	SF	Transit Efficiency	\$ 76.0	\$ 2.0	\$ 6.3	\$ 4.5	1	(0.2)	0.1	0.4	(0.2)	(0.1)	(0.0)	(0)	(168)	(0.1)	(1)	(0.0)	(1)	(0)	(135)
60	22415 Historic Streetcar Expansion Program	SF	Transit Efficiency	\$ 66.4	\$ 7.2	\$ 8.6	\$ 9.4	0.9	(0.3)	0.0	0.1	0.0	(0.2)	(0.3)	(1)	(306)	(0.2)	(1)	(0.0)	(1)	(0)	76
61	22274 ITS Improvements in San Mateo County	SM	Road Efficiency	\$ 65.7	\$ 0.3	\$ 56.0	\$ 3.6	16	(2.7)	(0.2)	(0.1)	(0.0)	(0.0)	(3.0)	(1)	(82)	(1.8)	(37)	(0.5)	4	0	(48)

											TRAVEL T	IME BENEFITS			TRAVEL COS	T BENEFITS A	AIR POLLUTA	NT BENEFITS	COLLISION	IS & ACTIVE 1	TRANSPORT B	BENEFITS
Row#	Project ID Project Name	County	Project Type	Project Capital Costs [in millions]	Net Annual O&M Costs [in millions]	2035 Benefits	Total Annualized 2035 Costs [in millions]	B/C Ratio	Auto/Truck [in millions of hours]	Auto/Truck (Non-Recurr. Delay) [in millions of hours]	Transit In- Vehicle [in millions of hours]	Transit Out-of- Vehicle [in millions of hours]	Walk/Bike [in millions of hours]	TOTAL	VMT [in millions]	Vehicles Owned	PM2.5 [in tons]	CO2 [in thousands of metric tons]	Fatalities due to Collisions	Injuries due to Collisions	Property Damage Only (PDO) Collisions	Active Individuals
62	240026 SamTrans El Camino BRT	SM	Transit Efficiency	\$ 120.0	\$ 19	0.0 \$ 59.1	\$ 25.0	2	(2.9)	(0.2)	0.8	(0.2)	(0.0)	(2.4)	(14)	(593)	(1.7)	(17)	(0.1)	(10)	(13)	3,253
63	San Mateo Countywide Shuttle Service Frequency Improvements	SM	Transit Efficiency	\$ -	\$ 6	5.3 \$ 10.3	\$ 6.3	2	(0.5)	0.0	0.4	(0.0)	(0.0)	(0.1)	(7)	(404)	(0.4)	(3)	(0.1)	(5)	(6)	1,321
64	240494 ITS Improvements in Santa Clara County	SCL	Road Efficiency	\$ 319.5	\$ 32	2.0 \$ 752.2	\$ 48.0	16	(36.9)	(2.3)	(0.7)	(0.2)	(0.1)	(40.3)	(15)	(1,230)	(23.7)	(498)	(6.9)	48	1	(715)
65	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	SCL	Road Efficiency	\$ 197.8	\$ 1	7 \$ 81.0	\$ 11.6	7	(3.7)	(1.1)	(0.1)	0.0	0.0	(4.9)	0	(179)	(0.3)	2	(0.1)	(9)	16	(125)
66	HOTd Silicon Valley Express Lanes Network	SCL	Express Lanes Network	\$ 1,398.0	\$ -	\$ 407.8	\$ 69.9	6	(13.4)	(23.8)	(2.6)	(0.5)	(0.3)	(40.6)	471	13,292	17.6	78	3.2	208	544	(5,430)
67	240375 BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	SCL/3434	Transit Expansion	\$ 4,094.3	\$ 18	3.7 \$ 323.5	\$ 69.9	5	(8.5)	(1.0)	3.4	(2.9)	(0.1)	(9.1)	(161)	(6,667)	(7.7)	(63)	(1.5)	(106)	(164)	12,117
68	230294 New SR-152 Alignment	SCL	Highway Expansion	\$ 775.8	\$ 1	9 \$ 147.8	\$ 40.7	4	(8.0)	(0.1)	(0.1)	0.0	(0.0)	(8.1)	21	257	(1.3)	(6)	(1.9)	(152)	20	(194)
69	240119 VTA El Camino BRT	SCL	Transit Efficiency	\$ 239.0	\$ -	\$ 28.1	\$ 12.0	2	(0.9)	(0.1)	(0.0)	(0.0)	(0.1)	(1.0)	(12)	(638)	(0.8)	(6)	(0.1)	(8)	(12)	1,501
70	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	SCL	Transit Expansion	\$ 276.0	\$ 0	0.9 \$ 3.8	\$ 8.3	0.5	(0.3)	0.0	0.2	0.1	(0.0)	(0.0)	(5)	(297)	(0.2)	(1)	(0.1)	(4)	(5)	1,012
71	230547 Monterey Highway BRT	SCL	Transit Efficiency	\$ 140.0	\$ 29	9.6 \$ 15.0	\$ 36.6	0.4	(0.2)	0.0	0.3	(0.4)	0.0	(0.3)	(3)	(203)	(0.2)	(2)	(0.0)	(2)	(3)	297
72	22019 Downtown East Valley (Phase 2: LRT)	SCL/3434	Transit Expansion	\$ 307.2	\$ 5	5.4 \$ 4.8	\$ 15.6	0.3	(0.2)	0.0	0.3	(0.0)	(0.1)	0.0	(3)	(331)	(0.2)	(1)	(0.0)	(4)	(3)	755
73	230554 Sunnyvale-Cupertino BRT	SCL	Transit Efficiency	\$ 100.0	\$ 21	1 \$ 4.8	\$ 26.1	0.2	(0.1)	0.0	0.1	(0.1)	0.0	(0.0)	(0)	(147)	(0.1)	(1)	(0.0)	(0)	0	959
74	22978 Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	SCL	Transit Expansion	\$ 434.8	\$ 4	1.2 \$ 2.8	\$ 18.7	0.2	(0.3)	(0.0)	0.3	0.1	(0.0)	0.1	(6)	(414)	(0.3)	(2)	(0.1)	(4)	(6)	1,407
75	98119 Vasona Light Rail Extension (Phase 2)	SCL	Transit Expansion	\$ 176.0	\$ 0	0.6 \$ 0.1	\$ 6.5	0.0	(0.2)	0.1	0.2	0.0	(0.0)	0.1	(3)	(211)	(0.1)	(2)	(0.0)	(2)	(3)	622
76	230468 I-80 Auxiliary Lanes (Airbase Parkway to I-680)	SOL	Road Efficiency	\$ 50.0	\$ 1	0 \$ 18.0	\$ 3.5	5	(1.1)	(0.1)	0.1	0.0	0.0	(1.1)	3	(13)	0.1	2	(0.1)	(9)	4	(399)
77	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	SOL	Transit Efficiency	\$ 54.0	\$ -	\$ 2.0	\$ 0.7	3	(0.2)	0.0	0.0	(0.0)	(0.0)	(0.1)	1	(26)	(0.1)	(1)	0.0	0	1	26
78	240650 Sonoma Countywide Bus Service Frequency Improvements	SON	Transit Efficiency	\$ 427.8	\$ 10	32.0	\$ 41.0	0.8	(0.6)	(0.0)	0.6	(0.5)	(0.1)	(0.6)	(9)	(914)	(0.5)	(3)	(0.1)	(6)	(8)	2,594

							TRAVEL 1	IME BENEFIT	rs		TRAVEL CO	ST BENEFITS		AIR POLLUTANT	REDUCTION BENEFITS	COLLISIONS, ACTIVE TRANSPO	RT, & NOISE REDU	ICTION BENEFITS
Row # Project	ID Project Name Coun	y Project Type	Capital Costs O&	t Annual Total Annua M Costs 2035 Bene millions] [in million		Auto/Truck (Non-Recurr. Delay)	Transit In- Vehicle	Transit Out-of- Vehicle	Walk/Bike	TOTAL Vehi Opera		Parking T	FOTAL PN	2.5 CO2	Other TO	TAL Fatalities due to Injuries due to Collisions Collisions Property Damage Only (PDO) Collisions	Active Transport	Noise TOTAL
1 22	780 AC Transit Grand-MacArthur BRT ALA/34	34 Transit Efficiency	\$ 36.0 \$	- \$	1.5 \$ 1.8 18	\$ 22.6 \$ 2.2	\$ (0.8)	\$ 3.9	\$ (0.1)	\$ 27.7 \$	1.8 \$ 0.3	\$ 0.1 \$	2.3 \$	0.4 \$ 0.5	\$ 0.0 \$	0.9 \$ 0.3 \$ 0.3 \$ 0.0	\$ 0.1 \$	0.0 \$ 0.7
2 22	D62 Irvington BART Station ALA	Transit Efficiency	\$ 123.0 \$	- \$	8.7 \$ 1.5 12	\$ 10.7 \$ 1.3	\$ (3.5)	\$ 3.1	\$ 0.2	\$ 11.8 \$	1.8 \$ 2.2	\$ 1.0 \$	5.1 \$	0.2 \$ 0.2	\$ 0.0 \$	0.4 \$ 0.3 \$ 0.2 \$ 0.0	\$ 0.9 \$	0.0 \$ 1.5
3 94	506 Fremont/Union City East-West Connector ALA	Arterial Expansion	\$ 190.0 \$	0.5 \$	5.5 \$ 10.0 7	\$ 62.1 \$ 3.7	\$ (0.2)	\$ (0.8)	\$ (0.2)	\$ 64.6 \$	(0.7) \$ (1.0)	\$ (0.1)	(1.8) \$	0.8 \$ 1.1	\$ 0.0 \$	1.9 \$ 0.6 \$ 0.7 \$ (0.0)	\$ (0.5) \$	(0.0) \$ 0.7
4 982	OTT Alameda-Oakland BRT + Transit Access Improvements ALA	Transit Efficiency	\$ 15.8 \$	1.3 \$	3.6 \$ 2.1 6	\$ 1.9 \$ (0.4)	\$ 0.6	\$ 11.5	\$ (0.1)	\$ 13.6 \$	0.2 \$ (0.1)	\$ (0.0) \$	0.1 \$	(0.0) \$ (0.0	\$ (0.0) \$	(0.0) \$ 0.1 \$ 0.1 \$ 0.0	\$ (0.2) \$	0.0 \$ (0.1)
5 22	ALA/34 AC Transit East Bay BRT ALA/34	34 Transit Efficiency	\$ 211.0 \$	1.0 \$	2.0 \$ 11.6 5	\$ 13.3 \$ 0.6	\$ 19.6	\$ 30.2	\$ 1.6	\$ 65.3 \$	(1.8) \$ (1.2)	\$ (0.1)	(3.1) \$	0.1 \$ 0.2	\$ 0.0 \$	0.3 \$ (0.2) \$ (0.2) \$ (0.0)	\$ (0.1) \$	(0.0) \$ (0.5)
	162, SR-84/I-680 Interchange Improvements + SR-84 Widening 1776 (Jack London to I-680)	Highway Expansion	\$ 380.5 \$	1.7 \$	7.1 \$ 20.7 4	\$ 83.4 \$ 10.8	\$ 1.5	\$ (2.3)	\$ 0.1	\$ 93.5 \$	(4.4) \$ (2.8)	\$ (0.2) \$	(7.4) \$	0.7 \$ 1.0	\$ (0.0) \$	1.7 \$ 0.0 \$ 0.1 \$ (0.1)	\$ (0.7) \$	(0.0) \$ (0.7)
<i>7</i> 580_I	BUS I-580 Express Bus (Dublin to Livermore) ALA	Transit Efficiency	\$ 150.0 \$	8.1 \$	1.8 \$ 16.4 2	\$ 20.9 \$ 1.6	\$ (8.1)	\$ 5.5	\$ 0.1	\$ 20.0 \$	4.8 \$ 2.9	\$ 0.5 \$	8.3 \$	0.4 \$ 0.4	\$ (0.0) \$	0.7 \$ 0.8 \$ 0.8 \$ 0.0	\$ 1.2 \$	0.0 \$ 2.8
8 LB	BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Transit Expansion	\$ 555.3 \$	10.1 \$	6.7 \$ 28.6 1	\$ 26.9 \$ 4.1	\$ (21.5)	\$ 13.0	\$ 1.4	\$ 23.9 \$	5.4 \$ 3.0	\$ 0.7 \$	9.2 \$	0.7 \$ 0.7	\$ 0.0 \$	1.4 \$ 0.8 \$ 0.8 \$ 0.0	\$ 0.6 \$	0.0 \$ 2.2
9 240	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Transit Expansion	\$ 1,134.5 \$	14.6 \$	9.6 \$ 52.4 1	\$ 36.4 \$ 5.6	\$ (29.0)	\$ 17.5	\$ 1.9	\$ 32.4 \$	7.3 \$ 4.1	\$ 1.0 \$	12.4 \$	0.9 \$ 0.9	\$ 0.0 \$	1.8 \$ 1.0 \$ 1.0 \$ 0.1	\$ 0.8 \$	0.1 \$ 3.0
10 22	567 BART to Livermore (Phases 1 & 2: Rail Extension) ALA	Transit Expansion	\$ 4,177.0 \$	14.2 \$	6.7 \$ 153.4 0.4	\$ 36.4 \$ 5.6	\$ (21.9)	\$ 17.5	\$ 1.9	\$ 39.5 \$	7.3 \$ 4.1	\$ 1.0 \$	12.4 \$	0.9 \$ 0.9	\$ 0.0 \$	1.8 \$ 1.0 \$ 1.0 \$ 0.1	\$ 0.8 \$	0.1 \$ 3.0
11 230	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	34 Transit Efficiency	\$ 180.0 \$	- \$	0.1) \$ 2.3 0.0	\$ 1.0 \$ (1.2)	\$ (0.1)	\$ (0.2)	\$ 0.0	\$ (0.5) \$	0.2 \$ 0.1	\$ 0.0 \$	0.3 \$	(0.0) \$ (0.0	\$ 0.0 \$	(0.0) \$ 0.1 \$ 0.1 \$ 0.0	\$ 0.0 \$	0.0 \$ 0.2
	400 SR-239 Expressway Construction (Brentwood to Tracy) CC	Highway Expansion	\$ 372.7 \$	1.9 \$ 1	3.8 \$ 20.6 7	\$ 142.2 \$ 3.6	\$ (0.1)	\$ (1.2)	\$ 0.3	\$ 144.8 \$	(5.2) \$ (2.3)	\$ - \$	(7.5) \$	1.3 \$ 2.1	\$ (0.0) \$	3.4 \$ 1.8 \$ 2.1 \$ (0.1)	\$ (0.7) \$	(0.0) \$ 3.1
	.05, I-680/SR-4 Interchange Improvements + SR-4 Widening CC (Morello Avenue to SR-242)	Highway Expansion	\$ 396.3 \$	1.4 \$	5.4 \$ 21.2 3	\$ 47.5 \$ 7.8	\$ 5.9	\$ 10.9	\$ (0.1)	\$ 71.9 \$	(1.5) \$ (3.4)	\$ - \$	(4.9) \$	(0.1) \$ (0.3	\$ (0.1) \$	(0.5) \$ 0.2 \$ 0.4 \$ (0.0)	\$ (1.5) \$	(0.0) \$ (1.0)
14 22	505 SR-4 Bypass Completion (SR-160 to Walnut Avenue) CC	Highway Expansion	\$ 149.9 \$	1.1 \$	5.5 \$ 8.6 2	\$ 9.4 \$ 0.2	\$ (0.1)	\$ 0.1	\$ 0.1	\$ 9.7 \$	1.5 \$ 0.2	\$ 0.0 \$	1.7 \$	(0.1) \$ (0.4	\$ (0.0) \$	(0.6) \$ 2.2 \$ 2.4 \$ 0.0	\$ (0.0) \$	0.0 \$ 4.6
15 22	343 I-680 Express Bus Service Frequency Improvements (Phase 2) CC	Transit Efficiency	\$ 59.7 \$	6.4 \$	2.2 \$ 10.7 1	\$ 8.1 \$ (0.1)	\$ (2.5)	\$ 3.1	\$ 0.1	\$ 8.7 \$	1.1 \$ 1.1	\$ 0.0 \$	2.3 \$	0.2 \$ 0.2	\$ 0.0 \$	0.4 \$ 0.2 \$ 0.2 \$ 0.0	\$ 0.4 \$	0.0 \$ 0.8
16 230	252 Marin Countywide Bus Service Frequency Improvements MRN	Transit Efficiency	\$ - \$	12.3 \$	8.9 \$ 12.3 0.7	\$ 5.5 \$ 0.1	\$ (8.7)	\$ 3.1	\$ 1.0	\$ 1.0 \$	2.4 \$ 3.0	\$ - \$	5.3 \$	0.2 \$ 0.2	\$ 0.0 \$	0.3 \$ 0.0 \$ 0.4 \$ 0.0	\$ 1.8 \$	0.0 \$ 2.2
17 240	Center Turnback)	Efficiency	\$ 650.0 \$	(18.5) \$ 1	1.3 \$ (10.4) >60	\$ 50.1 \$ 3.8	\$ (14.1)	\$ 91.1	\$ 1.3	\$ 132.2 \$	8.8 \$ 8.6	\$ 3.6 \$	21.0 \$	0.9 \$ 0.9	\$ 0.0 \$	1.9 \$ 1.3 \$ 1.3 \$ 0.1	\$ 3.3 \$	0.1 \$ 6.2
18 2405 240	060 US-101 HOV Lanes (Whippie Avenue to Cesar Chavez Street) Multi-	Efficiency	\$ 330.7 \$	2.8 \$ 1	2.7 \$ 19.3 6	\$ 84.2 \$ 19.6	\$ 5.7	\$ 1.2	\$ (1.5)	\$ 109.3 \$	8.0 \$ 2.8	\$ 0.9 \$	11.7 \$	0.4 \$ 0.0	\$ (0.2) \$	0.2 \$ 0.8 \$ 0.9 \$ 0.0	\$ (0.3) \$	0.1 \$ 1.4
19 H	Lanes Network	ty. Express Lane Network	\$ 2,364.0 \$	- \$ 6	1.6 \$ 118.2 5	\$ 252.7 \$ 412.3	\$ 43.2	\$ 20.6	\$ 4.3	\$ 733.0 \$	56.0) \$ (34.3)	\$ (5.3) \$	(105.5) \$	(4.8) \$ (2.2	\$ (0.7) \$	(7.6) \$ (5.9) \$ (5.0) \$ (0.7)	\$ (6.2) \$	(0.6) \$ (18.3)
20 21	34, Caltrain Service Frequency Improvements (6-Train Service 627 during Peak Hours) + Electrification (SF to Tamien)  Multi-C	ty. Transit Efficiency	\$ 847.7 \$	5.6 \$ 1	2.5 \$ 33.9 5	\$ 54.3 \$ 5.2	\$ (16.7)	\$ 52.8	\$ 0.2	\$ 96.0 \$	19.4 \$ 15.3	\$ 6.3 \$	41.1 \$	1.4 \$ 1.3	\$ 0.0 \$	2.7 \$ 2.7 \$ 2.7 \$ 0.2	\$ 7.0 \$	0.2 \$ 12.8
21 240 240	128, BRT, and Southern Intermodal Terminal) Multi-G	Efficiency	\$ 215.7 \$	3.7 \$	6.1 \$ 14.5 2	\$ 25.2 \$ 0.7	\$ 1.1	\$ 3.7	\$ 0.0	\$ 30.8 \$	1.8 \$ 1.1	\$ 0.7 \$	3.6 \$	0.5 \$ 0.5	\$ 0.0 \$	1.0 \$ 0.4 \$ 0.4 \$ 0.0	\$ (0.1) \$	0.0 \$ 0.7
22 00B	ART BART Service Frequency Improvements Multi-0	ty. Transit Efficiency	\$ 1,274.7 \$	13.1 \$ 1	6.0 \$ 55.6 2	\$ 53.6 \$ 6.1	\$ (20.0)	\$ 51.5	\$ 0.8	\$ 92.0 \$	11.7 \$ 8.7	\$ 3.7 \$	24.1 \$	1.3 \$ 1.3	\$ 0.1 \$	2.6 \$ 1.8 \$ 1.8 \$ 0.1	\$ 3.4 \$	0.1 \$ 7.2
23 230	Bay Bridge Contraflow Lane Multi-G	Efficiency	\$ 610.5 \$	- \$	6.8 \$ 30.5 2	\$ 47.0 \$ (1.2)	\$ 41.3	\$ (11.5)	\$ (0.9)	\$ 74.7 \$	2.1 \$ (2.0)	\$ (2.1) \$	(2.0) \$	0.6 \$ 0.6	\$ 0.0 \$	1.2 \$ (1.9) \$ (2.1) \$ (0.0)	\$ (3.2) \$	0.0 \$ (7.1)
	D18 Dumbarton Corridor Express Bus Multi-G	ty. Transit Efficiency	\$ 101.0 \$	4.5 \$	2.6 \$ 11.7 2	\$ 8.0 \$ 1.4	\$ (6.8)	\$ 14.7	\$ 0.7	\$ 18.1 \$	1.6 \$ 1.3	\$ 0.3 \$	3.2 \$	0.2 \$ 0.2	\$ 0.0 \$	0.4 \$ 0.0 \$ 0.3 \$ 0.0	\$ 0.7 \$	0.0 \$ 1.0
	.12, 22, WETA Service Expansion (Treasure Island, Berkeley/Albany, .13, Richmond, Hercules, and Redwood City) 20,		\$ 320.2 \$	15.7 \$	1.3 \$ 22.1 2	\$ 46.5 \$ 4.6	\$ (10.7)	\$ (20.9)	\$ (0.1)	\$ 19.5 \$	7.7 \$ 5.0	\$ 4.0 \$	16.7 \$	0.9 \$ 0.9	\$ 0.0 \$	1.8 \$ 0.0 \$ 1.1 \$ 0.1	\$ 2.1 \$	0.1 \$ 3.4
26 240	AC Transit Service Frequency Improvements (Restoration of	ty. Transit	\$ - \$	64.9 \$ 1	8.5 \$ 64.9 2	\$ 29.4 \$ 2.7	\$ (29.5)	\$ 84.9	\$ 2.4	\$ 89.8 \$	8.1 \$ 11.6	\$ 0.7 \$	20.4 \$	0.7 \$ 0.6	\$ 0.0 \$	1.3 \$ 1.3 \$ 1.3 \$ 0.1	\$ (5.8) \$	0.1 \$ (3.1)
27 230	2005 Golden Gate Ferry Service Frequency Improvements Multi-G	Trancit	\$ 34.4 \$	3.3 \$	5.8 \$ 4.4 1	\$ 6.7 \$ 0.4	\$ (7.5)	\$ (0.1)	\$ 0.1	\$ (0.4) \$	1.2 \$ 1.8	\$ 1.4 \$	4.5 \$	0.2 \$ 0.2	\$ 0.0 \$	0.4 \$ 0.2 \$ 0.2 \$ 0.0	\$ 0.8 \$	0.0 \$ 1.3
2405 28 2401 21	.34, Caltrain Vision (10-Train Service during Peak Hours) + Multi-(	Transit	\$ 5,598.7 \$	33.7 \$ 2	2.0 \$ 220.3 1	\$ 93.9 \$ 9.3	\$ (36.4)	\$ 100.2	\$ 1.9	\$ 168.9 \$	34.8 \$ 28.6	\$ 11.8 \$	75.2 \$	2.8 \$ 2.5	\$ 0.1 \$	5.3 \$ 5.0 \$ 4.8 \$ 0.3	\$ 12.2 \$	0.3 \$ 22.6
29 00A	CT1 AC Transit Frequent Transit Network Multi-C	ty. Transit Efficiency	\$ 654.3 \$	463.6 \$ 6	5.7 \$ 510.3 1	\$ 212.2 \$ 21.7	\$ (208.1)	\$ 410.4	\$ 10.2	\$ 446.4 \$	18.6 \$ 60.1	\$ 14.7 \$	123.4 \$	4.3 \$ 4.0	\$ 0.1 \$	8.4 \$ 7.6 \$ 7.5 \$ 0.4	\$ 11.5 \$	0.4 \$ 27.5
30 981 240	47, Marin-Sonoma Narrows (Phase 2: HOV Lanes) Multi-0	Road	\$ 300.0 \$	2.7 \$	0.0 \$ 17.7 1	\$ 11.2 \$ 6.0	\$ 6.3	\$ 4.8	\$ (0.1)	\$ 28.2 \$	(3.9) \$ (1.5)	\$ (0.1) \$	(5.5) \$	(0.3) \$ (0.5	\$ (0.0) \$	(0.8) \$ (0.5) \$ (0.5) \$ (0.0)	\$ (0.7) \$	(0.0) \$ (1.8)
31 240	216 Dumbarton Rail Multi-C 3434		\$ 755.0 \$	11.1 \$	0.7 \$ 36.3 0.8	\$ 18.4 \$ 2.6	\$ (7.1)	\$ 4.5	\$ 0.0	\$ 18.5 \$	4.4 \$ 3.2	\$ 1.1 \$	8.6 \$	0.4 \$ 0.4	\$ 0.0 \$	0.9 \$ 0.7 \$ 0.7 \$ 0.0	\$ 1.1 \$	0.0 \$ 2.6
32 2406 240	(75, Cost Deferrals) SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Multi-C	y./ Transit	\$ 282.9 \$	3.8 \$	9.7 \$ 13.2 0.7	\$ 4.1 \$ 1.1	\$ (2.2)	\$ 3.2	\$ 0.1	\$ 6.2 \$	1.5 \$ 1.0	\$ 0.1 \$	2.6 \$	0.1 \$ 0.1	\$ 0.0 \$	0.2 \$ 0.2 \$ 0.2 \$ 0.0	\$ 0.3 \$	0.0 \$ 0.7
33 2302 230		ty. Transit Efficiency	\$ 143.2 \$	18.9 \$	5.7 \$ 29.1 0.5	\$ 5.7 \$ 0.2	\$ (5.3)	\$ 10.7	\$ 0.7	\$ 12.0 \$	1.4 \$ 0.9	\$ 0.6 \$	2.9 \$	0.1 \$ 0.1	\$ 0.0 \$	0.3 \$ 0.0 \$ 0.2 \$ 0.0	\$ 0.3 \$	0.0 \$ 0.6
34 98	139 ACE Service Expansion Multi-C 343		\$ 600.0 \$	46.5 \$	9.1 \$ 66.5 0.3	\$ 13.5 \$ 3.8	\$ 2.7	\$ (11.0)	\$ 0.1	\$ 9.1 \$	4.9 \$ 1.9	\$ 0.1 \$	6.8 \$	0.5 \$ 0.4	\$ 0.0 \$	1.0 \$ 0.8 \$ 0.7 \$ 0.0	\$ 0.7 \$	0.0 \$ 2.3
35 22	Copitol Corridor Service Frequency Improvements (Oakland to San Jose) Multi-Copies to San Jose) 3434		\$ 508.5 \$	1.2 \$	1.0 \$ 18.2 0.1	\$ 1.8 \$ 0.4	\$ (0.4)	\$ (0.7)	\$ 0.0	\$ 1.2 \$	(0.3) \$ 0.1	\$ 0.0 \$	(0.2) \$	0.0 \$ 0.0	\$ 0.0 \$	0.0 \$ (0.0) \$ (0.0) \$ (0.0)	\$ 0.0 \$	(0.0) \$ (0.0)
36 240	517 SR-29 HOV Lanes and BRT (Napa Junction to Vallejo) NAP	Road Efficiency	\$ 60.0 \$	1.2 \$	0.9 \$ 4.2 3	\$ 6.1 \$ 2.6	\$ 0.2	\$ (1.0)	\$ (0.1)	\$ 7.8 \$	0.4 \$ 0.3	\$ - \$	0.7 \$	(0.0) \$ (0.2	\$ (0.0) \$	(0.2) \$ 0.7 \$ 0.7 \$ 0.0	\$ 1.2 \$	0.0 \$ 2.6
<i>37</i> 230	419 Freeway Performance Initiative Reg	FPI	\$ 2,991.0 \$	54.2 \$ 3,1	4.9 \$ 202.5 16	\$ 2,608.5 \$ 166.9	\$ 46.9	\$ 30.0	\$ 7.7	\$ 2,860.0 \$	17.3 \$ 19.0	\$ (1.6) \$	34.7 \$	48.8 \$ 116.3	\$ 1.2 \$	166.3 \$ 133.0 \$ (12.9) \$ (0.0)	\$ (6.3) \$	0.1 \$ 113.9

												TRAVEL TIM	ME BENEFITS				TRAVEL CO	ST BENEFIT	S	All	R POLLUTANT F	EDUCTION BENE	FITS	COLI	ISIONS, ACTIVE	TRANSPORT, & NO	SE REDUCTION	BENEFITS
Row#	Project ID	Project Name	County	Project Type	Project Capital Costs [in millions]	Net Annual O&M Costs [in millions]	Total Annualized 2035 Benefits [in millions]		B/C Ratio	Auto/Truck	Auto/ Truck (Non-Recurr. Delay)	Transit In- T Vehicle	ransit Out-of- Vehicle	Walk/Bike	TOTAL	Vehicle Operating	Vehicle Ownership	Parking	TOTAL	PM2.5	CO <sub>2</sub>	Other	TOTAL	Fatalities due to Collisions	Collisions	Property mage Only Active Tran O) Collisions	sport Noise	TOTAL
38	240582	Truck & Motorcycle Retirement [BAAQMD program]	Reg.	Climate	\$ 5.7	\$ 0.3	\$ 54.5	\$ 6.0	9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	\$ 30.9	\$ -	\$ 23.6 \$	54.5	n/a	n/a	n/a	n/a n/	a n/a
39	n/a	Local Streets and Roads Capital Maintenance Needs	Reg.	Maintenance	\$ -	\$ 280.0	\$ 1,369.3	\$ 280.0	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	a n/a
40	240410	Transportation for Livable Communities	Reg.	TLC	\$ 7,131.3	\$ 0.0	\$ 874.8	\$ 254.7	3	\$ 256.1	\$ 10.3	\$ 23.8 \$	59.8 \$	(41.2) \$	308.8	\$ 105.4	\$ 175.9	26.1	\$ 307.4	\$ 3.7	\$ 9.7	\$ 0.6 \$	14.0	\$ 19.4	\$ 19.1 \$	1.1 \$ 20	1.5 \$ 0.	5 \$ 244.6
41	22247	Regional Bikeway Network	Reg.	Bike/Ped	\$ 1,464.0	\$ -	\$ 124.5	\$ 73.2	2	\$ 22.2	\$ 0.9	\$ 2.1 \$	5.2 \$	(3.6) \$	\$ 26.8	\$ 9.1	\$ 15.2	2.3	\$ 26.6	\$ 0.3	\$ 0.8	\$ 0.1 \$	1.2	\$ 1.7	\$ 1.7 \$	0.1 \$ 6	6.4 \$ 0.0	0 \$ 69.9
42	n/a	New Freedom Program	Reg.	Lifeline/New Freedom	\$ -	\$ 2.0	\$ 3.3	\$ 2.0	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	a n/a
43	230550	Climate Initiatives (5-year program)	Reg.	Climate	\$ 560.0	\$ -	\$ 158.0	\$ 112.0	1	\$ 13.7	\$ 0.6	\$ 1.3 \$	3.2 \$	(2.2) \$	\$ 16.5	\$ 5.6	\$ 9.4	1.4	\$ 16.5	\$ 0.2	\$ 122.6	\$ 0.0 \$	122.9	\$ 1.0	\$ 1.0 \$	0.1	n/a \$ 0.0	0 \$ 2.1
44	n/a	Transit Capital Maintenance Needs	Reg.	Maintenance	\$ -	\$ 1,285.7	\$ 1,787.1	\$ 1,285.7	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	a n/a
45	240577	Heavy-Duty Truck Replacement [BAAQMD program]	Reg.	Climate	\$ 42.2	\$ 1.8	\$ 41.8	\$ 44.0	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	\$ 23.5	\$ -	\$ 18.3 \$	41.8	n/a	n/a	n/a	n/a n/	a n/a
46	240589	EV Solar Installation [BAAQMD program]	Reg.	Climate	\$ 1.3	\$ 0.3	\$ 1.1	\$ 1.5	0.8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	\$ -	\$ 0.7	\$ 0.4 \$	1.1	n/a	n/a	n/a	n/a n/	a n/a
47	240690	Lifeline Transportation Program	Reg.	Lifeline/New Freedom	\$ -	\$ 119.0	\$ 10.0	\$ 119.0	0.1	\$ 3.8	\$ 0.2	\$ 0.4 \$	0.9 \$	(0.6) \$	\$ 4.6	\$ 1.6	\$ 2.6	0.4	\$ 4.6	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.3	\$ 0.3 \$	0.0	n/a \$ 0.0	0 \$ 0.6
48	240694	Treasure Island Congestion Pricing	SF	Pricing	\$ 58.9	\$ -	\$ 69.1	\$ 1.2	59	\$ 39.4	\$ 2.2	\$ (20.1)	18.3 \$	(0.1) \$	39.7	\$ 7.1	\$ 9.7	6.0	\$ 22.7	\$ 0.7	\$ 0.6	\$ 0.0 \$	1.3	\$ 1.1	\$ 1.1 \$	0.1 \$	3.0 \$ 0.	1 \$ 5.4
49	240522	Congestion Pricing Pilot	SF	Pricing	\$ 101.8	\$ -	\$ 227.4	\$ 5.1	45	\$ 105.7	\$ 2.8	\$ (68.2)	52.3 \$	(19.8) \$	72.7	\$ 23.7	\$ 60.3	41.6	\$ 125.6	\$ 2.2	\$ 2.2	\$ 0.1 \$	4.5	\$ 4.8	\$ 4.8 \$	0.2 \$ 1	4.5 \$ 0.3	2 \$ 24.5
50	240171	SFMTA Transit Effectiveness Project	SF	Transit Efficiency	\$ 156.9	\$ -	\$ 89.5	\$ 7.8	11	\$ 34.8	\$ 3.1	\$ (16.5)	61.3 \$	2.3 \$	\$ 85.0	\$ 3.0	\$ 2.0	1.6	\$ 6.6	\$ 0.7	\$ 0.8	\$ 0.0 \$	1.5	\$ 0.5	\$ 0.5 \$	0.0 \$ (	4.6) \$ 0.0	0 \$ (3.6)
51	230161	Van Ness Avenue BRT	SF/3434	Transit Efficiency	\$ 139.5	\$ -	\$ 44.1	\$ 7.0	6	\$ 20.8	\$ 2.5	\$ 6.8 \$	3.4 \$	1.4 \$	34.8	\$ 3.1	\$ 2.1	1.4	\$ 6.7	\$ 0.5	\$ 0.4	\$ 0.0 \$	0.9	\$ 0.0	\$ 0.6 \$	0.0 \$	1.1 \$ 0.0	0 \$ 1.7
52	240155	Better Market Street	SF	Transit Efficiency	\$ 200.0	\$ -	\$ 56.5	\$ 10.0	6	\$ 33.6	\$ 6.5	\$ 14.9 \$	5.6 \$	(5.3) \$	55.2	\$ 3.4	\$ (0.5)	(0.9)	\$ 2.0	\$ 0.2	\$ 0.0	\$ (0.0) \$	0.2	\$ 0.8	\$ 0.9 \$	0.0 \$ (	2.7) \$ 0.0	0 \$ (0.9)
53	240557	Oakdale Caltrain Station	SF	Transit Efficiency	\$ 51.2	\$ -	\$ 2.8	\$ 0.6	4	\$ 2.4	\$ (0.6)	\$ (2.0)	5 1.4 \$	0.1	5 1.3	\$ 0.4	\$ 0.4	0.2	\$ 1.1	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.1	\$ 0.1	\$ 0.1 \$	0.0 \$	0.1 \$ 0.0	0 \$ 0.3
54	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)	SF/3434	Transit Expansion	\$ 2,348.0	\$ 1.4	\$ 107.9	\$ 30.8	4	\$ 87.9	\$ 2.6	\$ (29.2)	31.4 \$	0.7	93.3	\$ 6.0	\$ 3.4	2.1	\$ 11.5	\$ 0.5	\$ 0.4	\$ 0.0 \$	0.9	\$ 0.0	\$ 0.9 \$	0.1 \$	1.1 \$ 0.	1 \$ 2.1
55	240147	Southeast Waterfront Transportation Improvements	SF	Transit Efficiency	\$ 397.0	\$ 16.1	\$ 88.1	\$ 36.0	2	\$ 28.1	\$ 1.7	\$ (3.9)	50.2 \$	0.9	5 77.0	\$ 3.3	\$ 3.5	2.5	\$ 9.3	\$ 0.5	\$ 0.5	\$ 0.0 \$	1.0	\$ 0.8	\$ 0.8 \$	0.0 \$ (	0.9) \$ 0.0	0 \$ 0.7
56	00MUNI	Muni Service Frequency Improvements	SF	Transit Efficiency	\$ -	\$ 14.0	\$ 24.7	\$ 14.0	2	\$ 3.3	\$ (0.3)	\$ (2.6)	25.1 \$	(0.4)	\$ 25.0	\$ 0.2	\$ 0.4	0.3	\$ 0.8	\$ 0.0	\$ 0.0	\$ (0.0) \$	0.0	\$ 0.1	\$ 0.1 \$	0.0 \$ (	1.3) \$ 0.0	0 \$ (1.1)
57	230164	Geary Boulevard BRT	SF	Transit Efficiency	\$ 172.3	\$ -	\$ 15.1	\$ 8.6	2	\$ 2.2	\$ (0.7)	\$ (1.9)	\$ 11.2 \$	0.8	11.5	\$ 0.6	\$ 1.2	0.9	\$ 2.7	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.1	\$ 0.1 \$	0.0 \$	0.6 \$ 0.0	0 \$ 0.8
58	240526	SFCTA Transit Performance Initiative	SF	Transit Efficiency	\$ 489.8	\$ -	\$ 28.4	\$ 16.3	2	\$ 7.1	\$ 0.9	\$ 9.4 \$	2.6 \$	1.1 \$	21.1	\$ 1.3	\$ 2.5	2.0	\$ 5.9	\$ 0.2	\$ 0.2	\$ 0.0 \$	0.4	\$ 0.3	\$ 0.3 \$	0.0 \$	0.4 \$ 0.0	0 \$ 1.0
59	240545	Parkmerced Light Rail Corridor	SF	Transit Efficiency	\$ 76.0	\$ 2.0	\$ 6.3	\$ 4.5	1	\$ 3.7	\$ (1.2)	\$ (5.9)	6.1 \$	1.5 \$	5 4.2	\$ 0.1	\$ 1.1	0.8	\$ 2.0	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.1	\$ 0.1	\$ 0.1 \$	0.0 \$ (	0.2) \$ 0.0	0 \$ (0.1)
60	22415	Historic Streetcar Expansion Program	SF	Transit Efficiency	\$ 66.4	\$ 7.2	\$ 8.6	\$ 9.4	0.9	\$ 4.9	\$ (0.1)	\$ (1.4)	(1.6) \$	2.6	\$ 4.4	\$ 0.2	\$ 1.9	1.6	\$ 3.7	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.1	\$ 0.1 \$	0.0 \$	0.1 \$ 0.0	0 \$ 0.3
61	22274	ITS Improvements in San Mateo County	SM	Road Efficiency	\$ 65.7	\$ 0.3	\$ 56.0	\$ 3.6	16	\$ 46.0	\$ 2.9	\$ 0.8 \$	0.5 \$	0.1	50.4	\$ 0.3	\$ 0.3	(0.0)	\$ 0.6	\$ 0.9	\$ 2.0	\$ 0.0 \$	2.9	\$ 2.3	\$ (0.2) \$	(0.0) \$ (	0.1) \$ 0.0	0 \$ 2.0
62		SamTrans El Camino BRT	SM	Transit Efficiency	\$ 120.0	\$ 19.0	\$ 59.1	\$ 25.0	2	\$ 47.9	\$ 3.1	\$ (13.4)	6.6 \$	0.4	\$ 44.7	\$ 3.9	\$ 3.7	0.3	\$ 7.9	\$ 0.8	\$ 1.0	\$ 0.0 \$	1.8	\$ 0.0	\$ 0.6 \$	0.0 \$	4.0 \$ 0.0	0 \$ 4.6
63	22268	San Mateo Countywide Shuttle Service Frequency Improvements	SM	Transit Efficiency	\$ -	\$ 6.3	\$ 10.3	\$ 6.3	2	\$ 8.6	\$ (0.3)	\$ (6.9)	1.2 \$	0.3	3.0	\$ 1.9	\$ 2.5	0.2	\$ 4.7	\$ 0.2	\$ 0.1	\$ 0.0 \$	0.3	\$ 0.3	\$ 0.3 \$	0.0 \$	1.6 \$ 0.0	0 \$ 2.2
64		ITS Improvements in Santa Clara County	SCL	Road Efficiency	\$ 319.5	\$ 32.0	\$ 752.2	\$ 48.0	16	\$ 618.0	\$ 39.5	\$ 11.1 \$	7.1 \$	1.8 \$	677.6	\$ 4.1	\$ 4.5	(0.4)	\$ 8.2	\$ 11.6	\$ 27.5	\$ 0.3 \$	39.4	\$ 31.5	\$ (3.0) \$	(0.0) \$ (	1.5) \$ 0.0	0 \$ 27.0
65	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	SCL	Road Efficiency	\$ 197.8	\$ 1.7	\$ 81.0	\$ 11.6	7	\$ 61.9	\$ 19.3	\$ 1.3 \$	\$ (0.8)	(0.1)	81.6	\$ (0.1)	\$ (1.1)	(0.0)	\$ (1.2)	\$ 0.1	\$ (0.1)	\$ (0.1) \$	(0.1)	\$ 0.4	\$ 0.6 \$	(0.0) \$ (	0.2) \$ (0.	0) \$ 0.8
66		Silicon Valley Express Lanes Network	SCL	Express Lanes Network	\$ 1,398.0	\$ -	\$ 407.8	\$ 69.9	6	\$ 210.7	\$ 404.0	\$ 41.0 \$	18.5 \$	5.5 \$	679.6	\$ (132.0)	\$ (83.6)	(5.5)	\$ (221.1)	\$ (8.6	) \$ (4.3)	\$ (0.9) \$	(13.8)	\$ (14.5)	\$ (13.3) \$	(1.3) \$ (	5.6) \$ (1.	2) \$ (37.0)
67	740375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	SCL/3434	Transit Expansion	\$ 4,094.3	\$ 18.7	\$ 323.5	\$ 69.9	5	\$ 142.3	\$ 16.5	\$ (55.1)	\$ 101.8 \$	1.7 \$	207.3	\$ 45.3	\$ 33.7	3.9	\$ 82.9	\$ 3.7	\$ 3.5	\$ 0.1 \$	7.3	\$ 6.9	\$ 6.8 \$	0.4 \$ 1	1.6 \$ 0.4	4 \$ 26.0
68	230294	New SR-152 Alignment	SCL	Highway Expansion	\$ 775.8	\$ 1.9	\$ 147.8	\$ 40.7	4	\$ 134.1	\$ 1.0	\$ 1.0 \$	\$ (0.1) \$	0.4	136.4	\$ (6.0)	\$ (1.6)	(0.0)	\$ (7.6)	\$ 0.6	\$ 0.3	\$ (0.0) \$	0.9	\$ 8.8	\$ 9.7 \$	(0.1) \$ (	0.2) \$ (0.	1) \$ 18.2
69		VTA El Camino BRT	SCL	Transit Efficiency	\$ 239.0	\$ -	\$ 28.1	\$ 12.0	2	\$ 14.9	\$ 1.4	\$ 0.1 \$	0.3 \$	0.9	17.5	\$ 3.4	\$ 4.0	0.1	\$ 7.5	\$ 0.4	\$ 0.3	\$ 0.0 \$	0.7	\$ 0.0	\$ 0.5 \$	0.0 \$	1.8 \$ 0.0	0 \$ 2.4
70	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	SCL	Transit Expansion	\$ 276.0	\$ 0.9	\$ 3.8	\$ 8.3	0.5	\$ 5.1	\$ (0.2)	\$ (3.3)	\$ (2.7) \$	0.0 \$	(1.1)	\$ 1.3	\$ 1.9	0.1	\$ 3.3	\$ 0.1	\$ 0.0	\$ 0.0 \$	0.1	\$ 0.0	\$ 0.3 \$	0.0 \$	1.2 \$ 0.0	0 \$ 1.5
71	230547	Monterey Highway BRT	SCL	Transit Efficiency	\$ 140.0	\$ 29.6	\$ 15.0	\$ 36.6	0.4	\$ 3.8	\$ (0.4)	\$ (4.8)	\$ 14.0 \$	(0.5)	12.1	\$ 0.7	\$ 1.3	0.0	\$ 2.1	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.1	\$ 0.1 \$	0.0 \$	0.4 \$ 0.0	0 \$ 0.6
72	22019	Downtown East Valley (Phase 2: LRT)	SCL/3434	Transit Expansion	\$ 307.2	\$ 5.4	\$ 4.8	\$ 15.6	0.3	\$ 2.9	\$ (0.5)	\$ (4.2)	1.3 \$	0.8	5 0.4	\$ 0.9	\$ 2.1	0.1	\$ 3.0	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.0	\$ 0.2 \$	0.0 \$	0.9 \$ 0.0	0 \$ 1.2
73	230554	Sunnyvale-Cupertino BRT	SCL	Transit Efficiency	\$ 100.0	\$ 21.1	\$ 4.8	\$ 26.1	0.2	\$ 2.5	\$ (0.8)	\$ (2.4)	3.3 \$	(0.1)	\$ 2.5	\$ 0.1	\$ 0.9	0.0	\$ 1.0	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.1	\$ 0.0	\$ 0.0 \$	(0.0) \$	1.2 \$ 0.0	0 \$ 1.2
74	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	SCL	Transit Expansion	\$ 434.8	\$ 4.2	\$ 2.8	\$ 18.7	0.2	\$ 4.8	\$ 0.6	\$ (5.3)	\$ (4.2) \$	0.1	\$ (3.8)	\$ 1.7	\$ 2.6	0.1	\$ 4.4	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.0	\$ 0.3 \$	0.0 \$	1.7 \$ 0.0	0 \$ 2.0
75	98119	Vasona Light Rail Extension (Phase 2)	SCL	Transit Expansion	\$ 176.0	\$ 0.6	\$ 0.1	\$ 6.5	0.0	\$ 3.0	\$ (1.8)	\$ (2.9)	\$ (1.6) \$	0.1	\$ (3.2)	\$ 0.7	\$ 1.3	0.0	\$ 2.1	\$ 0.1	\$ 0.1	\$ 0.0 \$	0.2	\$ 0.1	\$ 0.1 \$	0.0 \$	0.8 \$ 0.0	0 \$ 1.1
76	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)	SOL	Road Efficiency	\$ 50.0	\$ 1.0	\$ 18.0	\$ 3.5	5	\$ 18.9	\$ 2.1	\$ (1.6)	\$ (0.9) \$	(0.1)	\$ 18.3	\$ (0.8)	\$ 0.1	(0.0)	\$ (0.7)	\$ (0.0	) \$ (0.1)	\$ (0.0) \$	(0.2)	\$ 0.5	\$ 0.6 \$	(0.0) \$ (	0.5) \$ (0.0	0) \$ 0.6
77	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	SOL	Transit Efficiency	\$ 54.0	\$ -	\$ 2.0	\$ 0.7	3	\$ 2.8	\$ (0.7)	\$ (0.7)	0.6 \$	0.0 \$	\$ 2.0	\$ (0.3)	\$ 0.2	0.0	\$ (0.1)	\$ 0.0	\$ 0.0	\$ (0.0) \$	0.1	\$ (0.0)	\$ (0.0) \$	(0.0) \$	0.0 \$ (0.	0) \$ 0.0
78	240650	Sonoma Countywide Bus Service Frequency Improvements	SON	Transit Efficiency	\$ 427.8	\$ 10.4	\$ 32.0	\$ 41.0	0.8	\$ 10.0	\$ 0.2	\$ (10.2)	5 17.4 \$	1.4	\$ 18.8	\$ 2.5	\$ 5.7	0.9	\$ 9.2	\$ 0.2	\$ 0.1	\$ (0.0)	0.4	\$ 0.0	\$ 0.4 \$	0.0 \$	3.2 \$ 0.0	0 \$ 3.6

						TARGETS SUN	ИMARY						ADOPTED	TARGETS				
Row#	Project ID	Project Name	County	Project Type	Targets Supported	Targets Adversely Impacted	Targets Net Score	In PDA?	CO2	Housing	PM	Collisions	Active Transportation	Open Space / AG	Low Income HH ransportation Cost	Economic Vitality	Non-Auto Mode Share/VMT	Maintenance
1	240180	BART Bay Fair Connection	Alameda	Transit Efficiency	6.0	0.0	6.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	STRONG	MINIMAL
2	22062	Irvington BART Station	Alameda	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	STRONG	MINIMAL
3	22455	AC Transit East Bay BRT	Alameda/ 3434	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
4	22780	AC Transit Grand-MacArthur BRT	Alameda/ 3434	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
5	22667	BART to Livermore (Phases 1 & 2: Rail Extension)	Alameda	Transit Expansion	5.0	0.0	5.0	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL	STRONG	STRONG	STRONG	MINIMAL
6	98207T, 98207R	Alameda-Oakland BRT & I-880 Broadway/Jackson Interchange Improvements	Alameda	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	STRONG	MODERATE	MINIMAL
7	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	Alameda/ 3434	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
8	240113	BART Hayward Maintenance Complex	Alameda	Transit Efficiency	5.0	0.0	5.0	No	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL	STRONG	MODERATE	MODERATE	STRONG
9	240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Alameda	Transit Expansion	5.0	0.0	5.0	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL	STRONG	STRONG	STRONG	MINIMAL
10	LBART	BART to Livermore (Phase 1: 1-Station Rail Extension with DMU)	Alameda	Transit Expansion	5.0	0.0	5.0	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL	STRONG	STRONG	STRONG	MINIMAL
11	580_BUS	I-580 Express Bus (Dublin to Livermore)	Alameda	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
12	22089	Martinez Subdivision & Rail Improvements	Alameda	Transit Efficiency	3.0	0.0	3.0	Yes	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	STRONG	STRONG	MINIMAL	MINIMAL
13	22765	I-580/I-680 Interchange HOV Direct Connectors	Alameda	Road Efficiency	2.0	0.0	2.0	No	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MODERATE	MINIMAL
14	240318	I-80 Ashby Interchange Improvements	Alameda	Road Efficiency	2.0	0.0	2.0	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
15	22769	I-880 23rd/29th Interchange Improvements	Alameda	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
16	22779	I-880/SR-262 Interchange Improvements (Phase 2: Warren Avenue Grade Separation)	Alameda	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
17	240052	I-880 Whipple Road Interchange Improvements	Alameda	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
18	240317	Port of Oakland Wharf Replacement & Berth Deepening (Berths 60-63)	Alameda	Other	1.5	0.0	1.5	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MODERATE
19	240657	I-580 Corridor Spot Intersection Improvements	Alameda	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
20	21100	I-580 Vasco Road Interchange Improvements & Auxiliary Lanes	Alameda	Road Efficiency	1.5	0.5	1.0	No	MINIMAL	MINIMAL	MODERATE AD	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
21	22082	Port of Oakland 7th Street Grade Separation & Roadway Improvements	Alameda	Road Efficiency	1.0	0.0	1.0	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
22	22760	Port of Oakland Outer Harbor Intermodal Terminals	Alameda	Other	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
23	230103	Decoto Neighborhood Grade Separation	Alameda	Road Efficiency	1.0	0.0	1.0	Yes	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
24	240024	Oakland Army Base Infrastructure Improvements	Alameda	Other	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
25	240279	Mandela Parkway & 3rd Street Corridor Street Reconstruction	Alameda	Road Efficiency	1.0	0.0	1.0	Yes	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
26	240562	SR-92 Clawiter/Whitesell Interchange Improvements	Alameda	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
27	94506	Fremont/Union City East-West Connector	Alameda	Arterial Expansion	2.0	1.5	0.5	Yes	MODERATE AD	MODERATE	MODERATE AD	MODERATE AD	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
28	230099	I-580/I-680 Interchange Improvements (Phase 1)	Alameda	Road Efficiency	1.0	1.0	0.0	No	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE AD	MINIMAL	MODERATE	MODERATE AD	MINIMAL
29	240062, 22776	SR-84/I-680 Interchange Improvements + SR-84 Widening (Jack London to I-680)	Alameda	Highway Expansion	0.5	3.0	-2.5	No	MODERATE AD	MINIMAL	MODERATE AD	MODERATE AD	MODERATE AD	MODERATE AD	MINIMAL	MODERATE	MODERATE AD	MINIMAL
30	240053	Whipple Road Widening (Mission Boulevard to I-880)	Alameda	Highway Expansion	1.0	6.0	-5.0	No	STRONG AD	MINIMAL	STRONG AD	STRONG AD	STRONG AD	STRONG AD	MINIMAL	STRONG	STRONG AD	MINIMAL
31	22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	Contra Costa	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
32	230321	Hercules Intermodal Station (Phases 2, 3, and 4)	Contra Costa	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	STRONG	MODERATE	MODERATE	STRONG	MODERATE	MINIMAL	MINIMAL	MODERATE	MINIMAL
33	22360	I-80 San Pablo Dam Road Interchange Improvements	Contra Costa	Road Efficiency	2.5	0.0	2.5	No	MINIMAL	STRONG	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
34	22353, 21223	I-680 HOV Gap Closure in Walnut Creek (N. Main to Livorna)	Contra Costa	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MODERATE	MINIMAL
35	22604	Vasco Road Safety & Operational Improvements (Brentwood to San Joaquin County line)	Contra Costa	Highway Expansion	1.0	0.0	1.0	No	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
36	21205, 22350	I-680/SR-4 Interchange Improvements + SR-4 Widening (Morello Avenue to SR-242)	Contra Costa	Highway Expansion	1.0	0.5	0.5	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE AD	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
Page 1 of 5	;		•		-													

IMPACT TO TARGETS MODERATE ADVERSE

STRONG

						TARGETS SUI	ЛМАRY						ADOPTED	TARGETS				
Row#	Project ID	Project Name	County	Project Type	Targets Supported	Targets Adversely Impacted	Targets Net Score	In PDA?	CO2	Housing	PM	Collisions	Active Transportation	Open Space / AG	Low Income HH ransportation Cost	Economic Vitality	Non-Auto Mode Share/VMT	Maintenance
37	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Contra Costa	Highway Expansion	2.0	4.5	-2.5	No	STRONG AD	STRONG	STRONG AD	MODERATE AD	STRONG AD	MINIMAL	MINIMAL	STRONG	STRONG AD	MINIMAL
38	22981	SR-4 Widening (Marsh Creek Road to San Joaquin County line)	Contra Costa	Highway Expansion	1.0	3.5	-2.5	No	STRONG AD	MINIMAL	STRONG AD	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	STRONG	STRONG AD	MINIMAL
39	98133	Pacheco Boulevard Widening (Blum Road to Arthur Road)	Contra Costa	Highway Expansion	1.0	4.0	-3.0	No	STRONG AD	MINIMAL	STRONG AD	STRONG AD	MODERATE	MINIMAL	MINIMAL	MODERATE	STRONG AD	MINIMAL
40	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Contra Costa	Highway Expansion	1.0	4.5	-3.5	No	STRONG AD	MINIMAL	STRONG AD	MODERATE	STRONG AD	MODERATE AD	MINIMAL	MODERATE	STRONG AD	MINIMAL
41	94050	SR-4 Upgrade to Full Freeway (Phase 2: Cummings Skyway to I-80)	Contra Costa	Highway Expansion	1.0	5.5	-4.5	Yes	STRONG AD	MINIMAL	MODERATE AD	STRONG AD	STRONG AD	STRONG AD	MINIMAL	STRONG	STRONG AD	MINIMAL
42	230252	Marin Countywide Bus Service Frequency Improvements	Marin	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
43	21325	US-101 Twin Cities Corridor Improvements	Marin	Road Efficiency	3.0	0.0	3.0	No	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL
44	240644	Marin Countywide Senior Mobility Program	Marin	Safety	1.5	0.0	1.5	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL
45	240182	BART Metro Program	Multi-County	Transit Efficiency	8.5	0.0	8.5	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	MINIMAL
46	00BART	BART Service Frequency Improvements	Multi-County	Transit Efficiency	8.5	0.0	8.5	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	MINIMAL
47	230603	California High-Speed Train - Bay Area to Central Valley	Multi-County	Transit Expansion	7.5	0.0	7.5	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	MODERATE	STRONG	STRONG	MINIMAL
48	240134, 21627	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi-County	Transit Efficiency	7.5	0.0	7.5	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	MODERATE	STRONG	STRONG	MINIMAL
49	240521, 21627, 240134	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi-County/ 3434	Transit Efficiency	7.5	0.0	7.5	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	MODERATE	STRONG	STRONG	MINIMAL
50	240018	Dumbarton Corridor Express Bus	Multi-County	Transit Efficiency	6.5	0.0	6.5	Yes	STRONG	MODERATE	STRONG	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
51	22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)	Multi-County/ 3434	Transit Efficiency	6.0	0.0	6.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	STRONG	STRONG	MINIMAL
52	240216	Dumbarton Rail	Multi-County/ 3434	Transit Expansion	6.0	0.0	6.0	Yes	STRONG	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MINIMAL	STRONG	MODERATE	MINIMAL
53	240699	AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Multi-County	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	STRONG	MODERATE	MINIMAL
54	00ACT1	AC Transit Frequent Transit Network	Multi-County	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	STRONG	MODERATE	MINIMAL
55	240676, 240675, 240677	SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Multi-County/ 3434	Transit Expansion	5.0	0.0	5.0	Yes	STRONG	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
56	n/a	BART Station Capacity Improvements	Multi-County	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
57	n/a	BART Station Access Improvements	Multi-County	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
58	22511, 22512, 22122, 230613, 22120, 230581	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)	Multi-County/ 3434	Transit Expansion	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MINIMAL	MODERATE	MODERATE	MINIMAL
59	230055	Golden Gate Ferry Service Frequency Improvements	Multi-County	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
60	230604	Bay Bridge Contraflow Lane	Multi-County	Pricing	4.5	0.0	4.5	Yes	STRONG	MODERATE	STRONG	MINIMAL	MINIMAL	MINIMAL	MODERATE	STRONG	MODERATE	MINIMAL
61	22227, 240328, 240334	Geneva Avenue Corridor Improvements (Roadway Extension, BRT, and Southern Intermodal Terminal)	Multi-County	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	STRONG	MODERATE	MODERATE	MINIMAL
62	230219, 230314	Golden Gate Bus Service Frequency Improvements	Multi-County	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
63	98139	ACE Expansion	Multi-County/ 3434	Transit Efficiency	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MINIMAL
64	240036	Caltrain Communications-Based Overlay Signal System (CBOSS) and Positive Train Control System (PTC)	Multi-County	Transit Efficiency	2.5	0.0	2.5	Yes	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MODERATE
65	240060, 240523	US-101 HOV Lanes (Whipple to Cesar Chavez)	Multi-County	Road Efficiency	2.5	0.0	2.5	Yes	MODERATE	MODERATE	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL
66	22003	Capitol Corridor Reliability Improvements (Phase 2)	Multi-County	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
67	22657	I-580 Westbound Truck Climbing Lane (Altamont Pass)	Multi-County	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
68	240140	Caltrain At-Grade Crossing Improvements	Multi-County	Transit Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MODERATE	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
69	240571	I-80/I-880 Congestion Pricing and Clean Vehicle Incentive Program	Multi-County	Pricing	2.0	1.0	1.0	Yes	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MODERATE	MODERATE AD	MINIMAL
70	98147, 240691	Marin-Sonoma Narrows (Phase 2)	Multi-County	Highway Expansion	2.5	2.0	0.5	Yes	MODERATE AD	MINIMAL	MODERATE AD	STRONG	MODERATE AD	MODERATE	MINIMAL	STRONG	MODERATE AD	MINIMAL
71	НОТе	CTC Application + Alameda County Authorized Lanes Express Lanes Network	Multi-County	Express Lanes Network	2.0	2.5	-0.5	Yes	MODERATE AD	MODERATE	MODERATE AD	MODERATE AD	MODERATE AD	MODERATE	MINIMAL	STRONG	MODERATE AD	MINIMAL
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						TARGETS SUN	MARY						ADOPTE	O TARGETS				
Row#	Project ID	Project Name	County	Project Type	Targets Supported	Targets Adversely Impacted	Targets Net Score	In PDA?	CO2	Housing	PM	Collisions	Active Transportation	Open Space / AG	Low Income HH ransportation Cost	Economic Vitality	Non-Auto Mode Share/VMT	Maintenance
72	240122	SR-29 Complete Streets Improvements	Napa	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL
73	240617	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)	Napa	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL
74	94075	SR-12 Jameson Canyon Project (Phase 3: New SR-12/SR-29 Interchange)	Napa	Road Efficiency	1.5	1.0	0.5	No	MODERATE AD	MINIMAL	MODERATE AD	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL
75	22247	Regional Bikeway Network	Regional	Bike/Ped	7.0	0.0	7.0	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	MODERATE	MODERATE	STRONG	MINIMAL
76	240410	Transportation for Livable Communities	Regional	TLC	7.0	0.0	7.0	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	MODERATE	MODERATE	STRONG	MINIMAL
77	240690	Lifeline Program	Regional	Lifeline/New Freedom	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MINIMAL	STRONG	MODERATE	STRONG	MINIMAL
78	NewFree	New Freedom	Regional	Lifeline/New Freedom	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MINIMAL	STRONG	MODERATE	STRONG	MINIMAL
79	LS&R	Local Streets and Roads Capital Maintenance Needs	Regional	Maintenance	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	STRONG
80	Transitshort	Transit Capital Maintenance Needs	Regional	Maintenance	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	STRONG
81	230419	Freeway Performance Initiative	Regional	FPI	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	MINIMAL
82	230550	Climate Initiatives	Regional	Climate	3.5	0.0	3.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL
83	240589	EV Solar Installation [BAAQMD program]	Regional	Climate	1.5	0.5	1.0	Yes	STRONG	MODERATE	MINIMAL	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
84	240577	Heavy-Duty Truck Replacement [BAAQMD program]	Regional	Climate	1.5	1.0	0.5	Yes	MINIMAL	MODERATE	STRONG	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MODERATE AD	MINIMAL
85	240582	Truck & Motorcycle Retirement [BAAQMD program]	Regional	Climate	1.5	1.0	0.5	Yes	MINIMAL	MODERATE	STRONG	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MODERATE AD	MINIMAL
86	240674	Transbay Transit Center - Phase 3 (Pedestrian Connector Tunnel to BART/Muni)	San Francisco	Transit Expansion	8.0	0.0	8.0	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	STRONG	STRONG	STRONG	MINIMAL
87	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)	San Francisco/ 3434	Transit Expansion	7.5	0.0	7.5	Yes	STRONG	MODERATE	STRONG	STRONG	STRONG	MODERATE	MODERATE	STRONG	STRONG	MINIMAL
88	240171	SFMTA Transit Effectiveness Project	San Francisco	Transit Efficiency	7.5	0.0	7.5	Yes	STRONG	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	STRONG	STRONG
89	240526	SFCTA Transit Performance Initiative	San Francisco	Transit Efficiency	7.5	0.0	7.5	Yes	STRONG	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	STRONG	STRONG
90	230161	Van Ness Avenue BRT	San Francisco/ 3434	Transit Efficiency	6.5	0.0	6.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	STRONG	STRONG	MINIMAL
91	230164	Geary Boulevard BRT	San Francisco	Transit Efficiency	6.5	0.0	6.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	STRONG	STRONG	MINIMAL
92	240155	Better Market Street	San Francisco	Transit Efficiency	6.0	0.0	6.0	Yes	MINIMAL	MODERATE	MODERATE	STRONG	STRONG	MINIMAL	STRONG	MODERATE	STRONG	MODERATE
93	240522	Congestion Pricing Pilot	San Francisco	Pricing	6.0	0.0	6.0	Yes	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL	MINIMAL	STRONG	STRONG	MODERATE
94	00MUNI	Muni Service Frequency Improvements	San Francisco	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	STRONG	MODERATE	MINIMAL
95	22415	Historic Streetcar Expansion Program	San Francisco	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MINIMAL	STRONG	MODERATE	MODERATE	MINIMAL
96	240545	Parkmerced Light Rail Corridor	San Francisco	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
97	240557	Oakdale Caltrain Station	San Francisco	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
98	240158	Eastern Neighborhoods (EN TRIPS) Circulation & Streetscape Improvements	San Francisco	Road Efficiency	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL
99	240694	Treasure Island Congestion Pricing	San Francisco	Pricing	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL
100	240147	Southeast Waterfront Transportation Improvements	San Francisco	Transit Efficiency	3.5	0.0	3.5	Yes	MINIMAL	MODERATE	MODERATE	MINIMAL	MODERATE	MINIMAL	STRONG	MODERATE	MODERATE	MINIMAL
101	240163	Hunters Point & Candlestick Point Local Road Network	San Francisco	Road Efficiency	2.5	0.0	2.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL
102	240344	SFpark	San Francisco	Parking	2.5	0.0	2.5	Yes	MODERATE	MODERATE	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL
103	240358	Mission Bay Local Road Network	San Francisco	Arterial Expansion	2.5	0.0	2.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL
104	240035	Caltrain Terminal Station Improvements (4th & King)	San Francisco	Transit Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL
105	230555	I-80 Yerba Buena Island Interchange Improvements	San Francisco	Road Efficiency	2.0	1.0	1.0	No	MODERATE AD	MODERATE	MODERATE AD	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
106	240026	SamTrans El Camino BRT	San Mateo	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
107	22274	ITS Improvements in San Mateo County	San Mateo	Road Efficiency	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	MINIMAL
Page 3 of 5		•	-			•		-										

LEGEND IMPACT TO TARGETS

STRONG MODERATE MINIMAL MODERATE ADVERSE

STRONG

						TARGETS SUN	MARY						ADOPTED	TARGETS				
Row#	Project ID	Project Name	County	Project Type	Targets Supported	Targets Adversely Impacted	Targets Net Score	In PDA?	CO2	Housing	PM	Collisions	Active Transportation	Open Space / AG	Low Income HH Transportation Cost	Economic Vitality	Non-Auto Mode Share/VMT	Maintenance
108	240590	El Camino Real Complete Streets Improvements	San Mateo	Road Efficiency	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL
109	22268	San Mateo Countywide Shuttle Service Frequency Improvements	San Mateo	Transit Efficiency	2.5	0.0	2.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MODERATE	MINIMAL	MODERATE
110	21602	US-101 Broadway Interchange Improvements	San Mateo	Road Efficiency	2.0	0.0	2.0	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
111	21603	US-101 Woodside Road Interchange Improvements	San Mateo	Road Efficiency	2.0	0.0	2.0	Yes	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
112	21606	US-101 Willow Road Interchange Improvements	San Mateo	Road Efficiency	2.0	0.0	2.0	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
113	21613	SR-92 Improvements (Phase 1: San Mateo Bridge to I-280)	San Mateo	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
114	22279	US-101 Produce Road Interchange Improvements	San Mateo	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
115	22756	US-101 Candlestick Point Interchange Improvements	San Mateo	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
116	240064	Caltrain Grade Separations (Phase 1: San Mateo County)	San Mateo	Transit Efficiency	1.5	0.0	1.5	No	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE
117	21604	US-101 Auxiliary Lane Modifications (Oyster Point to San Francisco County line)	San Mateo	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
118	21615	I-280/SR-1 Interchange Improvements	San Mateo	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
119	22229	US-101 Sierra Point Parkway Interchange Improvements + Lagoon Way Extension	San Mateo	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
120	22230	I-280 Auxiliary Lanes (Hickey Boulevard to I-380)	San Mateo	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
121	94644	SR-92 Westbound Slow-Vehicle Climbing Lane (I-280 to SR-35)	San Mateo	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
122	21612	Dumbarton Bridge/US-101 Access Improvements (Phase 1)	San Mateo	Road Efficiency	0.5	0.0	0.5	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
123	240114	SR-1 Safety & Operational Improvements (Pacifica to Half Moon Bay)	San Mateo	Road Efficiency	1.0	0.5	0.5	No	MINIMAL	MODERATE AD	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE
124	22282	US-101 Operational Improvements (near US-101/SR-92 Interchange)	San Mateo	Road Efficiency	0.0	0.0	0.0	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
125	98204	SR-1 Widening (Fassler Avenue to Westport Drive)	San Mateo	Highway Expansion	0.0	0.5	-0.5	No	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
126	240119	VTA El Camino BRT	Santa Clara	Transit Efficiency	7.0	0.0	7.0	Yes	MODERATE	STRONG	MODERATE	MODERATE	STRONG	MODERATE	STRONG	STRONG	STRONG	MINIMAL
127	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Santa Clara/ 3434	Transit Expansion	7.0	0.0	7.0	Yes	STRONG	MINIMAL	STRONG	STRONG	MODERATE	MODERATE	STRONG	STRONG	STRONG	MINIMAL
128	22019	Downtown East Valley (Phase 2: LRT)	Santa Clara/ 3434	Transit Expansion	6.0	0.0	6.0	Yes	MODERATE	STRONG	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
129	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Santa Clara	Transit Expansion	6.0	0.0	6.0	Yes	MODERATE	STRONG	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
130	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Santa Clara	Transit Expansion	6.0	0.0	6.0	Yes	MODERATE	STRONG	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
131	98119	Vasona Light Rail Extension (Phase 2)	Santa Clara	Transit Expansion	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
132	230547	Monterey Highway BRT	Santa Clara	Transit Efficiency	5.5	0.0	5.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
133	230554	Sunnyvale-Cupertino BRT	Santa Clara	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
134	21760	Caltrain Double-Track Improvements (San Jose to Gilroy)	Santa Clara	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
135	230534	Caltrain Electrification (Tamien to Gilroy)	Santa Clara	Transit Efficiency	4.5	0.0	4.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL
136	240494	ITS Improvements in Santa Clara County	Santa Clara	Road Efficiency	4.0	0.0	4.0	Yes	MODERATE	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MODERATE	STRONG	MODERATE	MINIMAL
137	22965	New US-101 Mabury/Taylor Interchange	Santa Clara	Arterial Expansion	2.5	0.0	2.5	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
138	22979	New US-101 Zanker/Skyport/Fourth Street Interchange	Santa Clara	Arterial Expansion	2.5	0.0	2.5	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
139	240437	US-101 Braided Ramps (Capitol Expressway to Yerba Buena Road)	Santa Clara	Arterial Expansion	2.5	0.0	2.5	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
140	240441	US-101/Oregon Expressway/Embarcadero Road Interchange Improvements	Santa Clara	Arterial Expansion	2.5	0.0	2.5	No	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
141	21719	I-880/I-280/Stevens Creek Boulevard Interchange Improvements	Santa Clara	Arterial Expansion	2.0	0.0	2.0	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
142	230537	I-280 Winchester Boulevard Interchange Improvements	Santa Clara	Arterial Expansion	2.0	0.0	2.0	No	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
143	240048	Caltrain Diridon Station Track Capacity Expansion (Phases 2 & 3)	Santa Clara	Transit Efficiency	2.0	0.0	2.0	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL
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IMPACT TO TARGETS

MODERATE ADVERSE

STRONG

						TARGETS SUN	MARY						ADOPTE	O TARGETS				
Row#	Project ID	Project Name	County	Project Type	Targets Supported	Targets Adversely Impacted	Targets Net Score	In PDA?	CO2	Housing	PM	Collisions	Active Transportation	Open Space / AG	Low Income HH ransportation Cost	Economic Vitality	Non-Auto Mode Share/VMT	Maintenance
144	240063	Caltrain Terminal Station Improvements (San Jose Diridon)	Santa Clara	Transit Efficiency	2.0	0.0	2.0	Yes	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL
145	240429	I-880/US-101 Interchange Improvements	Santa Clara	Arterial Expansion	2.0	0.0	2.0	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
146	240444	US-101/SR-237 Interchange Improvements	Santa Clara	Arterial Expansion	2.0	0.0	2.0	Yes	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
147	240671	New I-280 Senter Road Interchange	Santa Clara	Arterial Expansion	2.0	0.0	2.0	No	MINIMAL	STRONG	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
148	230337	New Lawrence Expressway Interchange (Monroe Street)	Santa Clara	Arterial Expansion	1.5	0.0	1.5	No	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
149	240479	I-680 Auxiliary Lanes (McKee Road to Berryessa Road)	Santa Clara	Road Efficiency	1.5	0.0	1.5	No	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
150	240586	Oregon Expressway Alma Bridge Interchange Improvements	Santa Clara	Road Efficiency	1.5	0.0	1.5	Yes	MINIMAL	STRONG	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
151	21922	Mineta San Jose International Airport APM Connector	Santa Clara	Transit Efficiency	1.0	0.0	1.0	Yes	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
152	22814	Foothill Expressway Deceleration Lane Extension	Santa Clara	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
153	230340	New Lawrence Expressway Interchange (Kifer Road)	Santa Clara	Arterial Expansion	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
154	240580	I-280/Lawrence Expressway/Stevens Creek Interchange Improvements	Santa Clara	Arterial Expansion	1.0	0.0	1.0	Yes	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
155	230332	Rengstorff Avenue Grade Separation	Santa Clara	Road Efficiency	0.5	0.0	0.5	No	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
156	240404	Calaveras Boulevard Overpass Widening (Abel Street to Milpitas Boulevard)	Santa Clara	Road Efficiency	0.5	0.0	0.5	Yes	MINIMAL	MODERATE	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
157	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Santa Clara	Road Efficiency	0.5	0.0	0.5	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
158	240443	Mary Avenue Extension	Santa Clara	Road Efficiency	0.0	0.0	0.0	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
159	HOTd	Silicon Valley Express Lanes Network	Santa Clara	Express Lanes Network	2.0	2.5	-0.5	Yes	MODERATE AD	MODERATE	MODERATE AD	MODERATE AD	MODERATE AD	MODERATE	MINIMAL	STRONG	MODERATE AD	MINIMAL
160	230294	New SR-152 Alignment	Santa Clara	Highway Expansion	2.0	4.0	-2.0	No	STRONG AD	MODERATE	STRONG AD	MODERATE	STRONG AD	MINIMAL	MINIMAL	STRONG	STRONG AD	MINIMAL
161	21714	US-101 Widening (Monterey Street to SR-129)	Santa Clara	Road Efficiency	1.5	5.5	-4.0	No	STRONG AD	MODERATE	MODERATE AD	STRONG AD	STRONG AD	STRONG AD	MINIMAL	STRONG	STRONG AD	MINIMAL
162	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Solano	Transit Efficiency	3.5	0.0	3.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL
163	22629	Vallejo Ferry Terminal Intermodal Station	Solano	Transit Expansion	3.5	0.0	3.5	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL
164	94151	Jepson Parkway Construction (SR-12 to I-80)	Solano	Highway Expansion	2.0	0.5	1.5	Yes	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE	MODERATE AD	MINIMAL	MODERATE	MODERATE	MINIMAL
165	230325	I-80 Westbound Cordelia Truck Scales Relocation	Solano	Road Efficiency	1.0	0.0	1.0	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
166	230326	I-80/I-680/SR-12 Widening & Interchange Improvements (Phase 1)	Solano	Highway Expansion	1.5	0.5	1.0	No	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
167	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)	Solano	Highway Expansion	1.0	0.0	1.0	Yes	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL
168	230561	SR-113 Relocation out of Dixon	Solano	Highway Expansion	0.5	0.0	0.5	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE	MINIMAL	MINIMAL
169	230575	Rio Vista Bridge Reconstruction & Realignment	Solano	Road Efficiency	0.5	0.0	0.5	No	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE
170	22794	Curtola Transit Center Improvements	Solano	Transit Efficiency	0.5	0.5	0.0	No	MINIMAL	MODERATE	MINIMAL	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
171	230313	Redwood Parkway & Fairground Drive Roadway Improvements	Solano	Road Efficiency	1.0	1.0	0.0	No	MINIMAL	MODERATE	MINIMAL	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MODERATE	MODERATE AD	MINIMAL
172	230477	SR-12 Widening (SR-29 to Sacramento County line)	Solano	Highway Expansion	1.5	4.5	-3.0	Yes	STRONG AD	MINIMAL	STRONG AD	STRONG	STRONG AD	MODERATE AD	MINIMAL	MODERATE	STRONG AD	MINIMAL
173	240650	Sonoma Countywide Bus Service Frequency Improvements	Sonoma	Transit Efficiency	5.0	0.0	5.0	Yes	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	MODERATE	STRONG	MODERATE	MODERATE	MINIMAL
174	230366	Caulfield Lane Extension (Southern Crossing)	Sonoma	Road Efficiency	1.0	0.0	1.0	Yes	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL
175	21998	SR-116 Widening & Rehabilitation (Elphick Road to Redwood Drive)	Sonoma	Highway Expansion	0.5	2.0	-1.5	Yes	MODERATE AD	MINIMAL	MODERATE AD	MODERATE AD	MODERATE AD	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MODERATE
176	21884	Petaluma Cross-Town Connector/Interchange	Sonoma	Road Efficiency	1.0	3.0	-2.0	No	MODERATE AD	STRONG	MODERATE AD	MODERATE AD	MODERATE AD	MODERATE AD	MINIMAL	MINIMAL	MODERATE AD	MINIMAL
177	22207	Farmers Lane Extension (Bellevue Avenue to SR-12)	Sonoma	Highway Expansion	0.5	3.0	-2.5	Yes	MODERATE AD	MODERATE	MODERATE AD	MODERATE AD	MODERATE AD	MODERATE AD	MINIMAL	MINIMAL	MODERATE AD	MINIMAL
			-		-	•										•		

LEGEND	IMPACT TO TA	ARGETS		
STRONG	MODERATE	MINIMAL	MODERATE ADVERSE	STRONG

#### <u>Targets Assessment of Small Projects by Project Type</u> (sorted by Targets Net Score)

Summarized Categories of Small Projects	# of Projects	CO <sub>2</sub>	Housing	PM	PM in CARE*	Collisions	Active Transport	Open Space/AG*	Low-Inc HH Trans. Cost	Economic Vitality*	Non Auto Mode Share/VMT	Maintenance	Targets Net Score
Transit Expansion & Efficiency	65	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	STRONG	MINIMAL	9.0
Emissions Reduction	10	STRONG	MINIMAL	STRONG	STRONG	MINIMAL	STRONG	MINIMAL	STRONG	STRONG	STRONG	MINIMAL	6.0
Bicycle and Pedestrian Improvements	109	STRONG	MODERATE	MODERATE	MODERATE	STRONG	STRONG	MINIMAL	MODERATE	MINIMAL	MODERATE	MINIMAL	4.5
State Highways, Arterials, and Local Streets (Maintenance & Safety)	71	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	STRONG	3.5
Transit Maintenance & Safety	16	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MODERATE	MINIMAL	MINIMAL	MINIMAL	MODERATE	STRONG	3.5
Public Outreach/Info/ Preparedness	9	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MODERATE	MODERATE	MINIMAL	MODERATE	MINIMAL	MINIMAL	3.0
ITS/TDM/Parking	22	MODERATE	MINIMAL	MODERATE	MINIMAL	MODERATE	MODERATE	MINIMAL	MINIMAL	MODERATE	MODERATE	MINIMAL	3.0
State Highways, Arterials, and Local Streets (Expansion & Efficiency)	259	MINIMAL	STRONG	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	STRONG	MINIMAL	MINIMAL	0.0
Other	6	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	MINIMAL	0.0
Freeways and Interchanges	102	STRONG AD	STRONG	STRONG AD	STRONG AD	MINIMAL	STRONG AD	MINIMAL	MINIMAL	STRONG	STRONG AD	MINIMAL	-2.0

<sup>\*</sup> Assessment based on the project geography

LEGEND	IMPACT TO	TARGETS		
STRONG	MODERATE	MINIMAL	MODERATE ADVERSE	STRONG ADVERSE

								E ASSESSMENT C		
					Plan Bay Area	T-2035	if marked with a Travel Model	star, see comments  Framework	to the right  Timeframe	
Row #	Project ID		County	Project Type	B/C Ratio	B/C Ratio	Output	Completeness	Inclusiveness	Starred Comments
1	240182	BART Metro Program (including Bay Fair Connection & Civic Center Turnback)	Multi- County	Transit Efficiency	>60	n/a	$\checkmark$	$\checkmark$	$\checkmark$	
2	240694	Treasure Island Congestion Pricing	San Francisco	Pricing	59	n/a	✓	✓	✓	
3	240522	Congestion Pricing Pilot	San Francisco	Pricing	45	n/a	✓	✓	✓	
4	22780	AC Transit Grand-MacArthur BRT	Alameda/ 3434	Transit Efficiency	18	n/a	✓	✓	*	BRT project can be implemented quickly for near-term benefits.
5	230419	Freeway Performance Initiative	Regional	FPI	16	28	✓	✓	✓	
6	22274	ITS Improvements in San Mateo County	San Mateo	Road Efficiency	16	n/a	n/a	✓	✓	
7	240494	ITS Improvements in Santa Clara County	Santa Clara	Road Efficiency	16	n/a	n/a	✓	✓	
8	22062	Irvington BART Station	Alameda	Transit Efficiency	12	n/a	✓	✓	*	Infill stations can be implemented quickly to achieve benefits in the near-term.
9	240171	SFMTA Transit Effectiveness Project	San Francisco	Transit Efficiency	11	n/a	*	*	*	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. B/C framework doesn't consider transit crowding, which may result in underestimate of emissions and VMT reductions and overestimate of travel time reductions; bus frequency improvements can be implemented quickly for near-term benefits.
10	240582	Truck & Motorcycle Retirement [BAAQMD program]	Regional	Climate	9	n/a	n/a	$\checkmark$	✓	
11	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Contra Costa	Highway Expansion	7	1	*	✓	✓	Because the land uses outside of the 9-county Bay Area are not explicitly represented, the model does not fully understand the likely impact of projects located near the boundaries of the planning region.
12	1 //////	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Santa Clara	Road Efficiency	7	n/a	*	✓	✓	The model does not explicitly represent weaving (thus ignoring the benefits of longer weaving sections or other improvements).
13	94506	Fremont/Union City East-West Connector	Alameda	Arterial Expansion	7	1	*	✓	✓	Due to their relative proximity, the travel model has difficulty assigning travelers who could use either I-680 or I-880 to the correct facility. This route choice decision is important to the performance of the East-West Connector.
14	I 98207T	Alameda-Oakland BRT + Transit Access Improvements	Alameda	Transit Efficiency	6	n/a	✓	✓	*	BRT project can be implemented quickly to achieve benefits in the near-term.
15	-	US-101 HOV Lanes (Whipple Avenue to Cesar Chavez Street)	Multi- County	Road Efficiency	6	n/a	✓	✓	✓	
16	230161	Van Ness Avenue BRT	San Francisco/ 3434	Transit Efficiency	6	n/a	*	*	*	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. Project can be implemented quickly for near-term benefits.
17	HOTd	Silicon Valley Express Lanes Network	Santa Clara	Express Lanes Network	6	n/a	*	<b>✓</b>	*	The travel model has difficulty representing the benefits of an operational strategy that relies on real-time price changes throughout the morning and evening commute periods. Some portions of the project may be implemented early and accrue benefits over a long period in the Plan, the Network likely will not be complete until near the end of the Plan period.
18	240155	Better Market Street	San Francisco	Transit Efficiency	6	n/a	*	*	✓	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. B/C framework doesn't consider transit crowding, which may result in underestimate of emissions and VMT reductions and overestimate of travel time reductions.
19	22455	AC Transit East Bay BRT	Alameda/ 3434	Transit Efficiency	5	n/a	$\checkmark$	$\checkmark$	*	BRT project can be implemented quickly for near-term benefits.
20	I HOTE	CTC Application + Alameda County Authorized Lanes Express Lanes Network	Multi- County	Express Lanes Network	5	n/a	*	✓	*	The travel model has difficulty representing the benefits of an operational strategy that relies on real-time price changes throughout the morning and evening commute periods. Some portions of the project may be implemented early and accrue benefits over a long period in the Plan, the Network likely will not be complete until near the end of the Plan period.

								CE ASSESSMENT (		
Row#	Project ID	Project Name	County	Project Type	Plan Bay Area	T-2035	Travel Model	a star, see comments Framework	Timeframe	Starred Comments
21	230468	I-80 Auxiliary Lanes (Airbase Parkway to I- 680)	Solano	Road Efficiency	B/C Ratio	B/C Ratio 2†	Output *	Completeness	Inclusiveness	The model does not explicitly represent weaving (thus ignoring the benefits of longer weaving sections or other improvements). Analysis is performed for a typical weekday, but many of the project's benefits will be accrued on weekends due to recreational traffic.
22	n/a	Local Streets and Roads Capital Maintenance Needs	Regional	Maintenance	5	5	n/a	*		The benefit-cost framework doesn't consider the impacts that state of repair has on air quality, goods movement, transit operations and emergency services. Furthermore, the assessment does not capture travel time savings from avoided delays (e.g. potholes leading to slower vehicle travel speeds).
23	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Santa Clara/ 3434	Transit Expansion	5	n/a	*	✓	*	The travel model does not forecast air passenger trips or special events, which are markets served by this project. The project is likely to be complete toward the end of the Plan so much of the benefits would likely be accrued after the Plan period.
24	240134, 21627	Caltrain Service Frequency Improvements (6- Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi- County	Transit Efficiency	5	n/a	✓	✓	✓	
25	240557	Oakdale Caltrain Station	San Francisco	Transit Efficiency	4	n/a	$\checkmark$	$\checkmark$	*	Infill stations can be implemented quickly to achieve benefits in the near-term.
26		SR-84/I-680 Interchange Improvements + SR- 84 Widening (Jack London to I-680)	Alameda	Highway Expansion	4	n/a	*	✓	✓	The model does not explicitly represent weaving (thus ignoring the benefits of longer weaving sections or other improvements), acceleration or deceleration behavior (thus ignoring the benefits of longer ramps), or queue spillback.
27	230294	New SR-152 Alignment	Santa Clara	Highway Expansion	4	n/a	*	*	✓	Because the land uses outside of the 9-county Bay Area are not explicitly represented, the model does not fully understand the likely impact of projects located near the boundaries of the planning region. Analysis also underestimates the freight benefits of this project, both in terms of the number of truck trips and the impacts of steep grades on trucks. Furthermore, the route serves a large number of interregional trips, which are not captured very well in the travel model.
28	730790	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)	San Francisco/ 3434	Transit Expansion	4	n/a	✓	✓	*	The project is likely to be complete toward the end of the Plan, so much of the benefits would likely be accrued after the Plan period. (Note: since November draft release, project benefits were revised to reflect associated benefits of high-speed rail.)
29	240410	Transportation for Livable Communities	Regional	TLC	3	2	$\checkmark$	$\checkmark$	$\checkmark$	
30	21205, 22350	I-680/SR-4 Interchange Improvements + SR-4 Widening (Morello Avenue to SR-242)	Contra Costa	Highway Expansion	3	1	*	✓	✓	The model does not explicitly represent weaving (thus ignoring the benefits of longer weaving sections or other improvements), acceleration or deceleration behavior (thus ignoring the benefits of longer ramps), or queue spillback.
31	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Solano	Transit Efficiency	3	n/a	*	✓	*	Greater TOD around the station (as included in the Fairfield General Plan but not in the Current Regional Plans land use) could significantly increase ridership and the corresponding B/C ratio. Infill stations can be implemented quickly for near-term benefits
32	24061/	SR-29 HOV Lanes and BRT (Napa Junction to Vallejo)	Napa	Road Efficiency	3	n/a	$\checkmark$	$\checkmark$	$\checkmark$	
33	240328,	Geneva Avenue Corridor Improvements (Roadway Extension, BRT, and Southern Intermodal Terminal)	Multi- County	Transit Efficiency	2	n/a	*	✓	*	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. BRT project can be implemented quickly to achieve benefits in the near-term.
34	24014/	Southeast Waterfront Transportation Improvements	San Francisco	Transit Efficiency	2	n/a	*	✓	*	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. Project can be implemented quickly for near-term benefits.
35	240026	SamTrans El Camino BRT	San Mateo	Transit Efficiency	2	n/a	$\checkmark$	$\checkmark$	*	BRT can be implemented quickly for near-term benefits.
36	240119	VTA El Camino BRT	Santa Clara	Transit Efficiency	2	n/a	✓	✓	*	BRT can be implemented quickly for near-term benefits.
37	00BART	BART Service Frequency Improvements	Multi- County	Transit Efficiency	2	n/a	✓	*	✓	B/C framework doesn't consider transit crowding, which may result in underestimate of emissions and VMT reductions and overestimate of travel time reductions.
38	230604	Bay Bridge Contraflow Lane	Multi- County	Pricing	2	n/a	✓	*	✓	Modeling for this project doesn't fully capture the transit benefits of such a project. Because the project was represented as an HOV lane, rather than a bus-only lane, many of the benefits are accruing due to increased carpooling. A bus-only lane would provide faster speeds for buses and increase transit ridership more substantially.
39	580_BUS	I-580 Express Bus (Dublin to Livermore)	Alameda	Transit Efficiency	2	n/a	$\checkmark$	$\checkmark$	*	Express bus service can be implemented quickly for near-term benefits.

							·	E ASSESSMENT C		
					Plan Bay Area	T-2035	if marked with a Travel Model	star, see comments : Framework	to the right  Timeframe	
Row #	Project ID	Project Name	County	Project Type	B/C Ratio	B/C Ratio	Output	Completeness	Inclusiveness	Starred Comments
40	240018	Dumbarton Corridor Express Bus	Multi- County	Transit Efficiency	2	n/a	✓	$\checkmark$	✓	
41	22122, 230613	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)	Multi- County/ 3434	Transit Expansion	2	n/a	✓	<b>✓</b>	✓	
42	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Contra Costa	Highway Expansion	2	1†	$\checkmark$	$\checkmark$	✓	
43	00MUNI	Muni Service Frequency Improvements	San Francisco	Transit Efficiency	2	n/a	*	*	*	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. B/C framework doesn't consider transit crowding, which may result in underestimate of emissions and VMT reductions and overestimate of travel time reductions; bus frequency improvements can be implemented quickly for near-term benefits.
44	230164	Geary Boulevard BRT	San Francisco	Transit Efficiency	2	7	*	*	*	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. B/C framework doesn't consider transit crowding, which may result in underestimate of emissions and VMT reductions and overestimate of travel time reductions; BRT improvements can be implemented quickly for near-term benefits.
45	240526	SFCTA Transit Performance Initiative	San Francisco	Transit Efficiency	2	n/a	*	*	✓	Model may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. B/C framework doesn't consider transit crowding, which may result in underestimate of emissions and VMT reductions and overestimate of travel time reductions.
46	22247	Regional Bikeway Network	Regional	Bike/Ped	2	0.5	n/a	$\checkmark$	$\checkmark$	
47	240699	AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Multi- County	Transit Efficiency	2	n/a	✓	✓	*	Bus frequency improvements can be implemented quickly for near-term benefits.
48	n/a	New Freedom Program	Regional	Lifeline/New Freedom	2	n/a	n/a	✓	✓	
49	22268	San Mateo Countywide Shuttle Service Frequency Improvements	San Mateo	Transit Efficiency	2	n/a	✓	✓	*	Shuttle service can be implemented quickly for near-term benefits.
50	230550	Climate Initiatives (5-year program)	Regional	Climate	1	0	n/a	✓	✓	
51	n/a	Transit Capital Maintenance Needs	Regional	Maintenance	1	1	n/a	*	✓	The benefit-cost framework doesn't consider many impacts state of repair has on maintaining an operable transit system, such as maintaining or increasing transit ridership, reducing congestion and emissions and increasing mobility.
52	240545	Parkmerced Light Rail Corridor	San Francisco	Transit Efficiency	1	n/a	*	$\checkmark$	$\checkmark$	
53	230055	Golden Gate Ferry Service Frequency Improvements	Multi- County	Transit Efficiency	1	n/a	$\checkmark$	$\checkmark$	*	Ferry frequency improvements can be implemented quickly for near-term benefits.
54	IRART	BART to Livermore (Phase 1: 1-Station DMU Extension with Bus Enhancements)	Alameda	Transit Expansion	1	n/a	n/a	✓		Project's quantative results reflect a sketch-level planning adjustment to the BART to Livermore (Phase 1) project, reflecting the slower travel speeds of DMU technology. This was due to the model's inability to reflect the unique proposed bus/rail transfer station without auto, ped, or bike access.
55	2//013/	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (SF to Tamien)	Multi- County/ 3434	Transit Efficiency	1	n/a	✓	✓	✓	
56	00ACT1	AC Transit Frequent Transit Network	Multi- County	Transit Efficiency	1	n/a	*	$\checkmark$	$\checkmark$	Project includes a wide range of services; some service improvements may have higher benefit-cost ratios and some may have lower benefit-cost ratios.
57	22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	Contra Costa	Transit Efficiency	1	1	$\checkmark$	$\checkmark$	*	Bus frequency improvements can be implemented quickly for near-term benefits.

								CE ASSESSMENT (		
Row#	Project ID	Project Name	County	Project Type	Plan Bay Area	T-2035	Travel Model	r star, see comments Framework	Timeframe	Starred Comments
58	98147	Marin-Sonoma Narrows (Phase 2: HOV Lanes)	Multi- County	Road Efficiency	B/C Ratio	B/C Ratio 8†	Output	Completeness *	Inclusiveness	Analysis is performed for a typical weekday, but many of the project's benefits will be accrued on weekends due to recreational traffic.
59	240577	Heavy-Duty Truck Replacement [BAAQMD program]	Regional	Climate	1	n/a	n/a	$\checkmark$	✓	
60	240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Alameda	Transit Expansion	1	4†	n/a	✓	✓	Project's quantative results were based on the full BART to Livemore extension model results. This was due to the model's inability to reflect the unique proposed bus/rail transfer station without auto, ped, or bike access.
61	22415	Historic Streetcar Expansion Program	San Francisco	Transit Efficiency	0.9	2	*	✓	*	Model doesn't capture tourist ridership and may underestimate travel time benefits for existing MTA riders, as the model's year 2005 Muni systemwide estimates are about 20% less than observed ridership levels. Project can be implemented quickly for near-term benefits.
62	240216	Dumbarton Rail	Multi- County/ 3434	Transit Expansion	0.8	n/a	✓	✓	✓	
63	240589	EV Solar Installation [BAAQMD program]	Regional	Climate	0.8	n/a	n/a	*	*	Most project benefits accrue in the near term before widespread electric vehicle adoption.
64	240650	Sonoma Countywide Bus Service Frequency Improvements	Sonoma	Transit Efficiency	0.8	n/a	✓	✓	*	Bus frequency improvements can be implemented quickly for near-term benefits.
65	240676, 240675, 240677	SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	Multi- County/ 3434	Transit Expansion	0.7	n/a	*	✓	✓	The travel model does not forecast tourist trips, which are served by this project.
66	230252	Marin Countywide Bus Service Frequency Improvements	Marin	Transit Efficiency	0.7	1	$\checkmark$	$\checkmark$	*	Bus frequency improvements can be implemented quickly for near-term benefits.
67	230219, 230314	Golden Gate Bus Service Frequency Improvements	Multi- County	Transit Efficiency	0.5	n/a	$\checkmark$	$\checkmark$	*	Bus frequency improvements can be implemented quickly for near-term benefits.
68	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Santa Clara	Transit Expansion	0.5	n/a	✓	✓	✓	
69	230547	Monterey Highway BRT	Santa Clara	Transit Efficiency	0.4	n/a	✓	✓	*	BRT can be implemented quickly for near-term benefits.
70	22667	BART to Livermore (Phases 1 & 2: Rail Extension)	Alameda	Transit Expansion	0.4	n/a	✓	✓	✓	
71	22019	Downtown East Valley (Phase 2: LRT)	Santa Clara/ 3434	Transit Expansion	0.3	n/a	✓	✓	✓	
72	98139	ACE Service Expansion	Multi- County/ 3434	Transit Efficiency	0.3	n/a	✓	✓	*	The project is likely to be complete toward the end of the Plan so much of the benefits would likely be accrued after the Plan period.
73	230554	Sunnyvale-Cupertino BRT	Santa Clara	Transit Efficiency	0.2	n/a	$\checkmark$	$\checkmark$	*	BRT can be implemented quickly for near-term benefits.
74	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Santa Clara	Transit Expansion	0.2	n/a	$\checkmark$	$\checkmark$	$\checkmark$	
75	240690	Lifeline Transportation Program	Regional	Lifeline/New Freedom	0.1	0	n/a	*	✓	The benefit-cost framework doesn't reflect the primary justifications for this program, which revolve around providing basic mobility rather than travel time or emissions reductions.
76	22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)	Multi- County/ 3434	Transit Efficiency	0.1	n/a	✓	✓	✓	
77	98119	Vasona Light Rail Extension (Phase 2)	Santa Clara	Transit Expansion	0.0	n/a	*	$\checkmark$	✓	Model may not fully capture benefits from this relatively short extension.
78	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	Alameda/ 3434	Transit Efficiency	0.0	n/a	$\checkmark$	✓	*	Infill stations can be implemented quickly to achieve benefits in the near-term.

**Table 1: Potential for Housing Growth** 

### **Focused Growth**

County	Jurisdiction	Jurisdiction Growth 2010-2040	Rating for Growth Component of Housing Target
Alameda	Alameda	5,812	
Alameda	Alameda County Unincorporated	11,540	Support
Alameda	Albany	955	Support Minimal
Alameda	<u> </u>	8,370	
-	Berkeley		Support
Alameda Alameda	Dublin	13,811	Support
-	Emeryville	5,235	Support
Alameda	Fremont	17,381	Support
Alameda	Hayward	15,477	Support
Alameda	Livermore	11,213	Support
Alameda	Newark	5,802	Support
Alameda	Oakland	57,721	Support
Alameda	Piedmont	627	Minimal
Alameda	Pleasanton	7,381	Support
Alameda	San Leandro	7,119	Support
Alameda	Union City	4,549	Support
Contra Costa	Antioch	6,891	Support
Contra Costa	Brentwood	8,157	Support
Contra Costa	Clayton	532	Minimal
Contra Costa	Concord	17,280	Support
Contra Costa	Contra Costa County Unincorporated	9,923	Support
Contra Costa	Danville	2,879	Support
Contra Costa	El Cerrito	1,843	Support
Contra Costa	Hercules	4,653	Support
Contra Costa	Lafayette	1,645	Support
Contra Costa	Martinez	2,549	Support
Contra Costa	Moraga	1,103	Minimal
Contra Costa	Oakley	3,868	Support
Contra Costa	Orinda	976	Minimal
Contra Costa	Pinole	2,633	Support
Contra Costa	Pittsburg	10,197	Support
Contra Costa	Pleasant Hill	5,771	Support
Contra Costa	Richmond	12,253	Support
Contra Costa	San Pablo	2,347	Support
Contra Costa	San Ramon	8,094	Support
Contra Costa	Walnut Creek	7,334	Support
Marin	Belvedere	60	Minimal
Marin	Corte Madera	561	Minimal
Marin	Fairfax	237	Minimal
Marin	Larkspur	528	Minimal
Marin	Marin County Unincorporated	3,917	Support
Marin	Mill Valley	504	Minimal
Marin	Novato	1,599	Support

County	Jurisdiction	Jurisdiction Growth 2010-2040	Rating for Growth Component of Housing Target
Marin	Ross	69	Minimal
Marin	San Anselmo	410	Minimal
Marin	San Rafael	2,792	Support
Marin	Sausalito	279	Minimal
Marin	Tiburon	303	Minimal
Napa	American Canyon	1,745	Support
Napa	Calistoga	121	Minimal
Napa	Napa	3,162	Support
Napa	Napa County Unincorporated	993	Minimal
Napa	St. Helena	116	Minimal
Napa	Yountville	151	Minimal
San Francisco	San Francisco	90,467	Support
San Mateo	Atherton	399	Minimal
San Mateo	Belmont	1,387	Minimal
San Mateo	Brisbane	1,582	Support
San Mateo	Burlingame	3,928	Support
San Mateo	Colma	521	Minimal
San Mateo	Daly City	7,469	Support
San Mateo	East Palo Alto	3,050	Support
San Mateo	Foster City	1,667	Support
San Mateo	Half Moon Bay	702	Minimal
San Mateo	Hillsborough	820	Minimal
San Mateo	Menlo Park	3,048	Support
San Mateo	Millbrae	2,178	Support
San Mateo	Pacifica	1,106	Minimal
San Mateo	Portola Valley	243	Minimal
San Mateo	Redwood City	9,070	Support
San Mateo	San Bruno	4,669	Support
San Mateo	San Carlos	2,402	Support
San Mateo	San Mateo	11,805	Support
San Mateo	San Mateo County Unincorporated	5,911	Support
San Mateo	South San Francisco	6,304	Support
San Mateo	Woodside	307	Minimal
Santa Clara	Campbell	2,944	Support
Santa Clara	Cupertino	3,960	Support
Santa Clara	Gilroy	6,441	Support
Santa Clara	Los Altos	2,157	Support
Santa Clara	Los Altos Hills	728	Minimal
Santa Clara	Los Gatos	2,333	Support
Santa Clara	Milpitas	12,807	Support
Santa Clara	Monte Sereno	304	Minimal
Santa Clara	Morgan Hill	4,153	Support
Santa Clara	Mountain View	12,458	Support
Santa Clara	Palo Alto	12,250	Support

County	Jurisdiction	Jurisdiction Growth 2010-2040	Rating for Growth Component of Housing Target
Santa Clara	San Jose	130,887	Support
Santa Clara	Santa Clara	21,129	Support
Santa Clara	Santa Clara County Unincorporated	10,484	Support
Santa Clara	Saratoga	2,249	Support
Santa Clara	Sunnyvale	16,781	Support
Solano	Benicia	1,192	Minimal
Solano	Dixon	1,681	Support
Solano	Fairfield	12,519	Support
Solano	Rio Vista	1,904	Support
Solano	Solano County Unincorporated	1,176	Minimal
Solano	Suisun City	1,435	Minimal
Solano	Vacaville	5,316	Support
Solano	Vallejo	5,641	Support
Sonoma	Cloverdale	1,045	Minimal
Sonoma	Cotati	471	Minimal
Sonoma	Healdsburg	977	Minimal
Sonoma	Petaluma	2,801	Support
Sonoma	Rohnert Park	3,211	Support
Sonoma	Santa Rosa	18,154	Support
Sonoma	Sebastopol	525	Minimal
Sonoma	Sonoma	519	Minimal
Sonoma	Sonoma County Unincorporated	8,327	Support
Sonoma	Windsor	1,355	Minimal

Table 2: Support for Affordable Housing Bay Area Affordable Housing, 1999 to 2006

		<u> </u>	Very Low	ı		Low		
	_	RHNA	Permits	Allocation	RHNA	Permits	Allocation	
City	County	Allocation	Issued	Permitted	Allocation	Issued	Permitted	Ratin
ACE	Alameda							Minima
Alameda	Alameda	443	300	68%	265	36	14%	Minima
Alameda Countywide	Alameda		_					Minima
Albany	Alameda	64	5	8%	33	10	30%	Advers
BART to Livermore	Alameda	0=4		2001	450			Advers
Berkeley	Alameda	354	239	68%	150			Suppo
Dublin	Alameda	796	263	33%	531	243		Advers
Emeryville	Alameda	178	124	70%	95			Minima
Fremont	Alameda	1,079	361	33%	636			Advers
Hayward 	Alameda	625	40	6%	344			Advers
Livermore	Alameda	875	202	23%	482			Advers
Newark	Alameda	205	0		111			Advers
Oakland	Alameda	2,238	610	27%	969			Advers
Piedmont	Alameda	6			4			Advers
Pleasanton	Alameda	729	120	16%	455			Minima
San Leandro	Alameda	195	108	55%	107			Minima
Unincorporated	Alameda	1,785	50		767			Advers
Union City	Alameda	338	177	52%	189	55	29%	Minima
Martinez Subdivision	Alameda/Contra Costa							Minima
BART	Bay Area							Minima
Capital Corridor	Bay Area							Minima
WETA	Bay Area							Minima
Antioch	Contra Costa	921	435	47%	509			Suppo
Brentwood	Contra Costa	906	376	42%	476			Advers
Clayton	Contra Costa	55	67	122%	33	17	52%	Minima
Concord	Contra Costa	453		38%	273			Advers
Contra Costa County Unico	rp Contra Costa	1,101	372	34%	642	177	28%	Advers
Contra Costa Countywide	Contra Costa							Minima
Danville	Contra Costa	140	85	61%	88		64%	Minima
El Cerrito	Contra Costa	37	0	0%	23	5	22%	Advers
Hercules	Contra Costa	101	96	95%	62	68	110%	Suppor
Lafayette	Contra Costa	30	15	50%	17	2	12%	Minima
Martinez	Contra Costa	248	0	0%	139	0	0%	Advers
Moraga	Contra Costa	32	21	66%	17	0	0%	Minima
Oakley	Contra Costa	209	168	80%	125	293	234%	Suppor
Orinda	Contra Costa	31	0	0%	18	0	0%	Advers
Pinole	Contra Costa	48	34	71%	35	6	17%	Minima
Pittsburg	Contra Costa	534	247	46%	296	381	129%	Suppor
Pleasant Hill	Contra Costa	129	95	74%	79	69	87%	Suppor
Richmond	Contra Costa	471	200	42%	273	1,093	400%	Minima
San Pablo	Contra Costa	147	214	146%	69	70	101%	Suppor
San Ramon	Contra Costa	599	157	26%	372	407	109%	Minima
Walnut Creek	Contra Costa	289	99	34%	195	80	41%	Adverse
Belvedere	Marin	1	0	0%	1	0	0%	Adverse
Corte Madera	Marin	29	0	0%	17	0	0%	Adverse
Fairfax	Marin	12	0	0%	7	0	0%	Adverse
Larkspur	Marin	56	7	13%	29	6	21%	Adverse
Marin Countywide	Marin							Adverse
Mill Valley	Marin	40	69	173%	21	28	133%	Suppor
Novato	Marin	476	297	62%	242	527	218%	Suppor
Ross	Marin	3			2			Adverse
San Anselmo	Marin	32			13			Adverse
San Rafael	Marin	445		6%	207			Adverse
Sausalito	Marin	36			17			Minima
Tiburon	Marin	26		15%	14			Adverse
Unincorporated	Marin	85	104	122%	48			Suppoi
American Canyon	Napa	230			181	60		Minima
Calistoga	Napa	44	3	7%	31	15		Adverse
Napa	Napa	703		25%	500			Adverse
Napa Countywide	Napa	. 55		2070	330	551	. 0,0	Advers
		31	10	32%	20	10	50%	Advers
•	Nana							
St. Helena	Napa Napa							
St. Helena Unincorporated	Napa	405	30	7%	272	45	17%	Adverse
St. Helena						45 2	17% 13%	

Bay Area Affordable Housing, 1999 to 2006

			Very Low					
		RHNA	Permits	Allocation	RHNA	Permits	Allocation	
City	County	Allocation	Issued	Permitted	Allocation	Issued	Permitted	Rating
Belmont	San Mateo	57	24	42%	30	20	67%	Adverse
Brisbane	San Mateo	107	7		43	1	2%	Adverse
Burlingame	San Mateo	110	0	0%	56	0	0%	Adverse
Colma	San Mateo	17	0	0%	8	73	913%	Minima
Daly City	San Mateo	282	11	4%	139	22	16%	Adverse
East Palo Alto	San Mateo	358	57	16%	148	155	105%	Minima
Foster City	San Mateo	96	88	92%	53	0	0%	Minima
Half Moon Bay	San Mateo	86	0	0%	42	106	252%	Minima
Hillsborough	San Mateo	11	0	0%	5	15	300%	Minima
Menlo Park	San Mateo	184	0	0%	90	0	0%	Adverse
Millbrae	San Mateo	67	0	0%	32	0	0%	Adverse
Pacifica	San Mateo	120	0	0%	60	10	17%	Adverse
Portola Valley	San Mateo	13	12	92%	5	3	60%	Minima
Redwood City	San Mateo	534	36	7%	256	70	27%	Adverse
San Bruno	San Mateo	72	138	192%	39	187	479%	Support
San Carlos	San Mateo	65	0	0%	32	0	0%	Adverse
San Mateo	San Mateo	479	125	26%	239	85	36%	Adverse
San Mateo Countywide	San Mateo							Minima
So. San Francisco	San Mateo	277	121	44%	131	71	54%	Minima
Unincorporated	San Mateo	252	31	12%	146	0		Adverse
Woodside	San Mateo	5	0		3	0		Adverse
Campbell	Santa Clara	165	2		77	14		Adverse
Cupertino	Santa Clara	412	36		198	12		Adverse
Gilroy	Santa Clara	906	189		334	327	98%	Minima
Los Altos	Santa Clara	38	24		20	16		Support
Los Altos Hills	Santa Clara	10	26		5	6		Support
Los Gatos	Santa Clara	72	13		35	73		Minima
Milpitas	Santa Clara	698	524		351	177	50%	Minima
Monte Sereno	Santa Clara	10	12		5	7		Support
Morgan Hill	Santa Clara	455	258		228	298		Support
Mountain View	Santa Clara	698	118		331	5		Adverse
Palo Alto	Santa Clara	265	214		116	130		Support
San Jose	Santa Clara	5,337	4,415		2,364	3,886		Support
Santa Clara	Santa Clara	1,294	279		2,304 590	479	81%	Minima
Santa Clara Countywide	Santa Clara	1,234	219	22 /0	390	479	0176	Minima
•	Santa Clara	75	60	80%	36	1	3%	Minima
Saratoga	Santa Clara	736	55		361	57	16%	Adverse
Sunnyvale Unincorporated	Santa Clara	325	325		158	158		Support
•	Solano	70	525 54					
Benicia					49	128		Support
Dixon	Solano	268	0		237	0		Adverse Adverse
Fairfield	Solano	761	57	7%	573	192		
Rio Vista	Solano	357	12		190	27	14%	Adverse
Solano County Unincorpora		500	0	0%	363	71	20%	Adverse
Solano Countywide	Solano							Minima
Suisun City	Solano	191	16		123	64		Adverse
Vacaville	Solano	860	87		629	691	110%	Minima
Vallejo	Solano	690	84		474	1,065	225%	Minima
Cloverdale	Sonoma	95	104		51	59		Suppor
Cotati	Sonoma	113	74		63	40	63%	Minima
Healdsburg	Sonoma	112	76		78	112		Support
Petaluma	Sonoma	206	250		124	201	162%	Support
Rohnert Park	Sonoma	401	293		270	467	173%	Suppor
Santa Rosa	Sonoma	1,539	591	38%	970	1,338	138%	Minima
Sebastapol	Sonoma	58	0		35	5	14%	Adverse
Sonoma	Sonoma	146	111	76%	90	68	76%	Minima
Sonoma Countywide	Sonoma							Minima
Unincorporated	Sonoma	1,311	650	50%	1,116	339	30%	Minima
Windsor	Sonoma	430	161	37%	232	171	74%	Adverse

Table 3: Equitable Access
Transit Operators Low Income Riders FY 2005-2006

	Share of Low Income	Total Ridership	Operator's Total Low	% of Region's Low Income	Target Rating Share of LI	Target Rating % of Regional		
Operators	Riders	(000)	Income Riders	Riders	Riders	Total LI Riders	Overall Rating	Notes
SC Transit	74.1%	1,360	1,008	0.7%	STRONG	MODERATE	STRONG	Operator's Low Income % served over 40%
VINE	66.7%	754	503	0.4%	STRONG	MINIMAL	STRONG	Operator's Low Income % served over 40%
SR CityBus	65.1%	2,678	1,743	1.2%	STRONG	MODERATE	STRONG	Operator's Low Income % served over 40%
VTA Total	52.7%	40,935	21,562	15.3%	STRONG	STRONG	STRONG	Operator's Low Income % served over 40%
Benicia Breeze	49.3%	138	68	0.0%	STRONG	MINIMAL	STRONG	Operator's Low Income % served over 40%
Vacaville	46.0%	212	97	0.1%	STRONG	MINIMAL	STRONG	Operator's Low Income % served over 40%
SamTrans	41.7%	14,507	6,045	4.3%	STRONG	MODERATE	STRONG	Operator's Low Income % served over 40%
AC Total	40.2%	67,416	27,086	19.2%	MODERATE	STRONG	STRONG	Operator's Low Income % served over 40%
Wheels	40.2%	2,104	845	0.6%	STRONG	MODERATE	STRONG	Operator's Low Income % served over 40%
Muni Total	27.2%	216,764	58,985	41.9%	MINIMAL	STRONG	STRONG	Regional Low Income people served above 10%
BART	14.5%	104,230	15,099	10.7%	MINIMAL	STRONG	STRONG	Regional Low Income people served above 10%
Tri Delta	36.1%	2,544	919	0.7%	MODERATE	MODERATE	MODERATE	Regional Low Income people served above 0.5%
CCCTA	34.8%	4,280	1,487	1.1%	MODERATE	MODERATE	MODERATE	Regional Low Income people served above 0.5%
GGT Total	23.8%	9,403	2,238	1.6%	MINIMAL	MODERATE	MODERATE	Regional Low Income people served above 0.5%
Caltrain	16.6%	10,149	1,684	1.2%	MINIMAL	MODERATE	MODERATE	Regional Low Income people served above 0.5%
FST	33.3%	797	265	0.2%	MODERATE	MINIMAL	MINIMAL	Regional Low Income people served less than 0.5%
WestCat	31.9%	1,260	402	0.3%	MODERATE	MINIMAL	MINIMAL	Regional Low Income people served less than 0.5%
Vallejo Total	22.0%	3,044	669	0.5%	MINIMAL	MINIMAL	MINIMAL	Regional Low Income people served less than 0.5%
Union City	20.2%	418	84	0.1%	MINIMAL	MINIMAL	MINIMAL	Regional Low Income people served less than 0.5%
ACE	7.5%	637	48	0.0%	MINIMAL	MINIMAL	MINIMAL	Regional Low Income people served less than 0.5%
Alameda Ferry	4.3%	394	17	0.0%	MINIMAL	MINIMAL	MINIMAL	Regional Low Income people served less than 0.5%
Totals		484,024	140,855	100%				·

<sup>\*</sup>Low income riders defined as income less than \$25,000/year

<sup>\*</sup>From Transit Demographics Survey 2006

<sup>\*</sup>Stastical Summary of Bay Area Operators FY 05-06 Total passengers



					EC	UITY-RELATED TA	RGETS				
Map ID	Project ID	Project Name	County	Project Type	Housing	PM in CARE	Low Income HH Transportation Cost	Equity Targets Score	Serves Community of Concern?*	In Community of Concern?	In CARE Community?
1	240180	BART Bay Fair Connection	Alameda	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
2	22062	Irvington BART Station	Alameda	Transit Efficiency	MINIMAL	MINIMAL	STRONG	1.0	Yes	Yes	No
3	22455	AC Transit East Bay BRT	Alameda/ 3434	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
4	22780	AC Transit Grand-MacArthur BRT	Alameda/ 3434	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
5	22667	BART to Livermore (Phases 1 & 2: Rail Extension)	Alameda	Transit Expansion	MINIMAL	MINIMAL	STRONG	1.0	No	No	No
6	98207T, 98207R	Alameda-Oakland BRT & I-880 Broadway/Jackson Interchange Improvements	Alameda	Transit Efficiency	MINIMAL	MODERATE	STRONG	1.5	Yes	Yes	Yes
7	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	Alameda/ 3434	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
8	240113	BART Hayward Maintenance Complex	Alameda	Transit Efficiency	MINIMAL	MINIMAL	STRONG	1.0	No	Yes	No
9	240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	Alameda	Transit Expansion	MINIMAL	MINIMAL	STRONG	1.0	No	No	No
10	LBART	BART to Livermore (Phase 1: 1-Station Rail Extension with DMU)	Alameda	Transit Expansion	MINIMAL	MINIMAL	STRONG	1.0	No	No	No
11	580_BUS	I-580 Express Bus (Dublin to Livermore)	Alameda	Transit Efficiency	MINIMAL	MINIMAL	STRONG	1.0	No	No	No
12	22089	Martinez Subdivision & Rail Improvements	Alameda	Transit Efficiency	MODERATE	MINIMAL	STRONG	1.5	No	Yes	Yes
13	22765	I-580/I-680 Interchange HOV Direct Connectors	Alameda	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
14	240318	I-80 Ashby Interchange Improvements	Alameda	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	Yes
15	22769	I-880 23rd/29th Interchange Improvements	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	Yes
16	22779	I-880/SR-262 Interchange Improvements (Phase 2: Warren Avenue Grade Separation)	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
17	240052	I-880 Whipple Road Interchange Improvements	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
18	240317	Port of Oakland Wharf Replacement & Berth Deepening (Berths 60-63)	Alameda	Other	MINIMAL	MINIMAL	MINIMAL	0.0	No	Yes	Yes
19	240657	I-580 Corridor Spot Intersection Improvements	Alameda	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
20	21100	I-580 Vasco Road Interchange Improvements & Auxiliary Lanes	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
21	22082	Port of Oakland 7th Street Grade Separation & Roadway Improvements	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	Yes
22	22760	Port of Oakland Outer Harbor Intermodal Terminals	Alameda	Other	MINIMAL	MINIMAL	MINIMAL	0.0	No	Yes	Yes
23	230103	Decoto Neighborhood Grade Separation	Alameda	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
24	240024	Oakland Army Base Infrastructure Improvements	Alameda	Other	MINIMAL	MINIMAL	MINIMAL	0.0	No	Yes	Yes
25	240279	Mandela Parkway & 3rd Street Corridor Street Reconstruction	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	Yes
26	240562	SR-92 Clawiter/Whitesell Interchange Improvements	Alameda	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
27	94506	Fremont/Union City East-West Connector	Alameda	Arterial Expansion	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
28	230099	I-580/I-680 Interchange Improvements (Phase 1)	Alameda	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
29	240062, 22776	SR-84/I-680 Interchange Improvements + SR-84 Widening (Jack London to I-680)	Alameda	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
30	240053	Whipple Road Widening (Mission Boulevard to I-880)	Alameda	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	No
		-	•				•	-			-

<sup>\* =</sup> serving a CoC is defined as being located within a CoC and providing an access point for residents

22   22   23   16   16   16   16   17   17   17   18   18   22   23   23   23   23   23   23   2						EC	QUITY-RELATED TA	ARGETS				
270   270071   Perculais Internaciós Sistino (Phane 2, 3, and 4)   Contra Costa   Transi Fflictory   Trans	Map ID	Project ID	Project Name	County	Project Type	Housing	PM in CARE			Community	Community	In CARE Community?
2236   180 Ser Pédeo Dem Road Interchange Improvements	31	22343	I-680 Express Bus Service Frequency Improvements (Phase 2)	Contra Costa	Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
\$4   22355, 21223   \$60   \$6	32	230321	Hercules Intermodal Station (Phases 2, 3, and 4)	Contra Costa	Transit Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
2350   23604   Vasca Road Safety & Operational Improvements (Bernstead to San Joseph Country Inni)   Contra Costa   Highway Equation   MODERATE   MINIMAL   MINIMAL   0.0   No   No   No   No   No   No   No   N	33	22360	I-80 San Pablo Dam Road Interchange Improvements	Contra Costa	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	Yes	Yes	Yes
88   21205, 22394   +880/84   Interchange Improvements - SH-4 Widening (Morello Avenue) to SR 242)   Contra Costa   Highway Egansson   MiNIMAL   MINIMAL   MINIMAL   1.0   No   No   No   No   No   No   No   N	34	22353, 21223	I-680 HOV Gap Closure in Walnut Creek (N. Main to Livorna)	Contra Costa	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
27   22605   Sin-4 Bypass Compelion (Sin-160 to Walnut Avenue)   Comina Costa   Highway Expension   STICNIC   MINIMAL   MINIMAL   0.0   No   No   No   No   No   No   No   N	35	22604	Vasco Road Safety & Operational Improvements (Brentwood to San Joaquin County line)	Contra Costa	Highway Expansion	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
Section   Sect	36	21205, 22350	I-680/SR-4 Interchange Improvements + SR-4 Widening (Morello Avenue to SR-242)	Contra Costa	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
39   38133   Pacheco Boulevard Widening (Blum Road to Arthur Road)   Contra Costa   Highway Expansion   MiNIMAL   MINIMAL   MINIMAL   0.0   No   No	37	22605	SR-4 Bypass Completion (SR-160 to Walnut Avenue)	Contra Costa	Highway Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
22400   SR-239 Expressway Construction (Eremissed to Tracy)   Contra Costa   Highway Expansion   MiNINAL   MiNINAL   MININAL   MININAL   O.0   No   No	38	22981	SR-4 Widening (Marsh Creek Road to San Joaquin County line)	Contra Costa	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
42   94050   SR 4 Upgrade to Full Freeway (Phase 2: Cummings Skyway to 180)   Contra Costa   Highway Expansion   MiniMAL   MiniMAL   MiniMAL   MiniMAL   O.0   No   No	39	98133	Pacheco Boulevard Widening (Blum Road to Arthur Road)	Contra Costa	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
22   23052   Marin Countywide Bus Service Frequency Improvements   Marin   Transt Efficiency   MINIMAL   MINIMAL   MINIMAL   MINIMAL   O.0   No   No   No	40	22400	SR-239 Expressway Construction (Brentwood to Tracy)	Contra Costa	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
21325 US-101 Twin Cities Corridor Improvements Marin Road Efficiency MINIMAL MINIMAL MINIMAL 0.0 No	41	94050	SR-4 Upgrade to Full Freeway (Phase 2: Cummings Skyway to I-80)	Contra Costa	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
44 240644 Marin Countywide Senior Mobility Program  Marin  Safety  Minimal	42	230252	Marin Countywide Bus Service Frequency Improvements	Marin	Transit Efficiency	MINIMAL	MINIMAL	MODERATE	0.5	Yes	Yes	No
45 240182 BART Metro Program Multi-County Transit Efficiency MODERATE STRONG STRONG 2.5 Yes Yes 146 008ART BART Service Frequency Improvements Multi-County Transit Efficiency MODERATE STRONG STRONG 2.5 Yes Yes 147 23063 California High-Speed Train - Bay Area to Central Valley Multi-County Transit Efficiency MODERATE STRONG MODERATE 2.0 Yes Yes 240314, 21627 Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF Multi-County) Transit Efficiency MODERATE STRONG MODERATE 2.0 Yes Yes 240521, 21627, 240134 Caltrain Vision (10-Train Service during Peak Hours) + Electrification (SF to Tamien) Multi-County/ 3434 Transit Efficiency MODERATE STRONG MODERATE 2.0 Yes Yes 240018 Dumbarton Corridor Express Bus Multi-County/ Transit Efficiency MODERATE STRONG STRONG 2.5 Yes Yes 240216 Dumbarton Corridor Service Frequency Improvements (Oakland to San Jose) Multi-County/ Transit Efficiency MODERATE MODERATE MODERATE MODERATE MODERATE 1.5 Yes Yes 240216 Dumbarton Rail Multi-County/ Transit Efficiency MODERATE STRONG MINIMAL 1.5 Yes Yes 240216 Dumbarton Rail Multi-County/ Transit Efficiency MODERATE MODERATE STRONG MINIMAL 1.5 Yes Yes 240699 AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) Multi-County/ Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes 240677 AC Transit Frequent Transit Network Multi-County/ Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes 240677 N/2 BART Station Access Improvements Multi-County/ Transit Efficiency MODERATE MODERATE MODERATE STRONG 2.0 Yes Yes 240677 N/2 BART Station Access Improvements Multi-County/ Transit Efficiency MODERATE MODERATE MINIMAL MINIMA	43	21325	US-101 Twin Cities Corridor Improvements	Marin	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
46 008ART BART Service Frequency Improvements  Multi-County Transit Efficiency MODERATE STRONG STRONG 2.5 Yes Ves  48 240134, 21627 Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien) Multi-County Transit Efficiency MODERATE STRONG MODERATE 2.0 Yes Ves  48 240134, 21627 Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien) Multi-County Transit Efficiency MODERATE STRONG MODERATE 2.0 Yes Ves  49 240212, 12627, 240134 Dumbarton Corridor Express Bus Multi-County/ 3434 Transit Efficiency MODERATE STRONG MODERATE 2.0 Yes Ves  51 22009 Capitol Corridor Service Frequency Improvements (Oakland to San Jose) Multi-County/ 3434 Transit Efficiency MODERATE STRONG STRONG 2.5 Yes Yes  52 240216 Dumbarton Rail Multi-County/ 3434 Transit Efficiency MODERATE STRONG STRONG 2.5 Yes Yes  53 240699 AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) Multi-County/ 3434 Transit Efficiency MODERATE STRONG MINIMAL 1.5 Yes Yes  54 00ACT1 AC Transit Frequent Transit Network Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Ves  55 2406767 SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Ves  56 n/a BART Station Access Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Ves  57 n/a BART Station Capacity Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Ves  58 2121, 22512, 236613, WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood Multi-County/ 3434 Transit Expansion MODERATE MODERATE STRONG 2.0 Yes Ves  58 2121, 22512, 236613, WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood Multi-County/ 3434 Transit Efficiency MODERATE MODERATE MODERATE MODERATE MODERATE MODERATE STRONG 2.0 Yes Ves  58 2121, 22512, 236613, WETA Service Expansion (Treasure Island, Berkeley/Albany, R	44	240644	Marin Countywide Senior Mobility Program	Marin	Safety	MINIMAL	MINIMAL	MODERATE	0.5	Yes	Yes	No
230603 California High-Speed Train - Bay Area to Central Valley  Multi-County Transit Expansion MODERATE To Tamien)  Author County Transit Efficiency Moderate Moderate Moderate Moderate Transit Efficiency Moderate Moderate Transit Efficiency Moderate Moderate Transit Efficiency Moderate Moderate Transit Efficiency Moderate Transit Efficiency Moderate Moderate Transit Efficiency Moderate Moderate Transit Efficiency Moderate Transit Efficiency Moderate Transit Efficiency Moderate Moderate Transit Efficiency Moderate Moderate Moderate Transit Efficiency Moderate	45	240182	BART Metro Program	Multi-County	Transit Efficiency	MODERATE	STRONG	STRONG	2.5	Yes	Yes	Yes
240134, 21627, 240134, 21627, 240134, 21627, 240134, 21627, 240134, 21627, 240134, 21627, 240134, 21627, 240134, 21627, 240134, 21627, 240134, 240134, 21627, 240134,	46	00BART	BART Service Frequency Improvements	Multi-County	Transit Efficiency	MODERATE	STRONG	STRONG	2.5	Yes	Yes	Yes
## 240134, 21627 to Tamien)  ## 240521, 21627  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240134  ## 240521, 21627  ## 240216  #	47	230603	California High-Speed Train - Bay Area to Central Valley	Multi-County	Transit Expansion	MODERATE	STRONG	MODERATE	2.0	Yes	Yes	Yes
240134 Cartrain Vision (LU-Irain Service during Peak Hours) + Electrification (SF to Tamien)  3434 Iransit Efficiency MODERATE STRONG STRONG 2.5 Yes Yes  50 240018 Dumbarton Corridor Express Bus Multi-County  51 22009 Capitol Corridor Service Frequency Improvements (Oakland to San Jose) Multi-County/3434 Transit Efficiency MODERATE MODERATE MODERATE MODERATE MODERATE MODERATE STRONG MINIMAL 1.5 Yes Yes  52 240216 Dumbarton Rail Multi-County/3434 Transit Efficiency MODERATE MODERATE MODERATE STRONG MINIMAL 1.5 Yes Yes  53 240699 AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  54 00ACT1 AC Transit Frequent Transit Network Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  55 240676, 240675, 240675, 2406775 2406776 ART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Multi-County/3434 Transit Expansion Minimal Minimal Minimal Moderate STRONG 2.0 Yes Yes  56 n/a BART Station Capacity Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  57 n/a BART Station Access Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  58 22112, 230613, 22511, 22512, 230613, 22122, 230613, 2	48	240134, 21627		Multi-County	Transit Efficiency	MODERATE	STRONG	MODERATE	2.0	Yes	Yes	Yes
2009 Capitol Corridor Service Frequency Improvements (Oakland to San Jose)  Multi-County/3434  Transit Efficiency MODERATE STRONG MINIMAL MODERATE MINIMAL MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MODERATE MINIMAL MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MODERATE MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MINIMAL MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MINIMAL MINIMAL MINIMAL MINIMAL MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MINIMAL MODERATE MINIMAL	49		Caltrain Vision (10-Train Service during Peak Hours) + Electrification (SF to Tamien)		Transit Efficiency	MODERATE	STRONG	MODERATE	2.0	Yes	Yes	Yes
240216 Dumbarton Rail Multi-County/ Transit Efficiency MODERATE STRONG MINIMAL 1.5 Yes Yes Yes 240216 Dumbarton Rail Multi-County/ Transit Efficiency MODERATE STRONG MINIMAL 1.5 Yes Yes Yes 3434 Transit Efficiency MODERATE STRONG MINIMAL 1.5 Yes Yes Yes 240699 AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes 240676, 240675, 240676, 240675, 2406775 SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Multi-County/ Transit Efficiency MODERATE MODERATE MODERATE STRONG 2.0 Yes Yes 3434 Transit Expansion MINIMAL MINIMAL MINIMAL MODERATE 0.5 No Yes Yes 340677 MINIMAL MINIMAL MODERATE STRONG 2.0 Yes Yes 340677 MINIMAL MINIMAL MODERATE STRONG 2.0 Yes Yes 340677 MINIMAL MODERATE STRONG 2.0 Yes Yes 340677 MINIMAL MODERATE MODERATE STRONG 2.0 Yes Yes 340677 MINIMAL MINIMAL MODERATE STRONG 2.0 Yes Yes 340677 MINIMAL MINIMAL MODERATE MODERATE MODERATE MODERATE MODERATE MODERATE STRONG 2.0 Yes Yes 340678 MINIMAL MINIMA	50	240018	Dumbarton Corridor Express Bus	Multi-County	Transit Efficiency	MODERATE	STRONG	STRONG	2.5	Yes	Yes	Yes
3434 Transit Expansion MODERATE STRONG MINIMAL 1.5 Yes Yes  240699 AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels) Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  54 00ACT1 AC Transit Frequent Transit Network Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  55 240676, 240675, 240677  SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals) Multi-County/ 3434 Transit Expansion MINIMAL MINIMAL MODERATE O.5 No Yes  56 n/a BART Station Capacity Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  57 n/a BART Station Access Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  58 22511, 22512, 22122, 230613, 22120, 230581 WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)  Transit Expansion MODERATE MINIMAL 1.0 Yes Yes	51	22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)		Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
240699 AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)  Multi-County Transit Efficiency MODERATE MODERATE STRONG MODERATE STRONG MODERATE STRONG MODERATE STRONG MODERATE STRONG MODERATE MODERATE STRONG MODERATE MODERATE STRONG MODERATE STRONG MINIMAL MINIMAL MODERATE MINIMAL MINIMAL MINIMAL MODERATE MODERATE MODERATE MODERATE MINIMAL MINIMAL MODERATE MODERATE MODERATE MINIMAL MINIMAL MODERATE MODERATE MODERATE MINIMAL MINIMAL MODERATE MODERATE MINIMAL MINIMAL MODERATE MODERATE MINIMAL MINIMAL MODERATE MODERATE MINIMAL MINIMAL MODERATE MINIMAL MINIMAL MODERATE MINIMAL MINIMAL MODERATE MODERATE MINIMAL MINIMAL MODERATE MINIMAL MINIMAL MODERATE MINIMAL MINIMAL MINIMAL MODERATE MODERATE MINIMAL	52	240216	Dumbarton Rail		Transit Expansion	MODERATE	STRONG	MINIMAL	1.5	Yes	Yes	Yes
240677, SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)  Multi-County/ 3434  Transit Expansion  MINIMAL  MINIMAL  MINIMAL  MINIMAL  MODERATE  0.5  No  Yes  Yes  No  Yes  Yes  A  Multi-County/ Transit Efficiency  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Minimal  Moderate  Moderate  Minimal  Moderate  Moderate  Minimal  Minimal  Moderate  Moderate  Minimal  Minimal  Moderate  Minimal  Moderate  Minimal  Moderate  Moderate  Moderate  Minimal  Minimal  Moderate  Minimal  Minimal  Moderate  Minimal  Moderate  Minimal  Moderate  Moderate  Minimal  Moderate  Minimal  Moderate  Minimal  Minimal  Minimal  Minimal  Minimal  Moderate  Moderate  Minimal  Minimal  Minimal  Minimal  Minimal  Minimal  Moderate  Moderate  Minimal  Mini	53	240699	AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)	Multi-County	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
55 240677 SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)  3434 Transit Expansion MINIMAL MIDERATE U.5 No Yes  56 n/a BART Station Capacity Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  57 n/a BART Station Access Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  58 22511, 22512, 230613, 22122, 230613, 2120, 230581 City) WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood Multi-County/ 3434 Transit Expansion MODERATE MODERATE MINIMAL 1.0 Yes Yes	54	00ACT1	AC Transit Frequent Transit Network	Multi-County	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
n/a BART Station Capacity Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  7 n/a BART Station Access Improvements Multi-County Transit Efficiency MODERATE MODERATE STRONG 2.0 Yes Yes  8 22511, 22512, 22513, 22512, 22513, 22122, 230613, 2120, 230581 City) Transit Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood Multi-County/ 3434 Transit Expansion MODERATE MODERATE MINIMAL 1.0 Yes Yes	55		SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)		Transit Expansion	MINIMAL	MINIMAL	MODERATE	0.5	No	Yes	No
22511, 22512, 22512, 22512, 22122, 230613, 22120, 230581 City)  WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood Nulti-County/ 3434  Transit Expansion MODERATE MODERATE MINIMAL 1.0 Yes Yes	56		BART Station Capacity Improvements		Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
58 22122, 230613, 22120, 230581 City) WE IA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City) Transit Expansion MODERATE MINIMAL 1.0 Yes Yes	57	n/a	BART Station Access Improvements	Multi-County	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
	58	22122, 230613,			Transit Expansion	MODERATE	MODERATE	MINIMAL	1.0	Yes	Yes	Yes
59 230055 Golden Gate Ferry Service Frequency Improvements Multi-County Transit Efficiency MODERATE MODERATE MODERATE No No	59	230055	Golden Gate Ferry Service Frequency Improvements	Multi-County	Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	No	No	Yes

<sup>\* =</sup> serving a CoC is defined as being located within a CoC and providing an access point for residents

					<u>E</u> 0	QUITY-RELATED TA	RGETS				
Map ID	Project ID	Project Name	County	Project Type	Housing	PM in CARE	Low Income HH Transportation Cost	Equity Targets Score	Serves Community of Concern?*	In Community of Concern?	In CARE Community?
60	230604	Bay Bridge Contraflow Lane	Multi-County	Pricing	MODERATE	STRONG	MODERATE	2.0	No	Yes	Yes
61	22227, 240328, 240334	Geneva Avenue Corridor Improvements (Roadway Extension, BRT, and Southern Intermodal Terminal)	Multi-County	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
62	230219, 230314	Golden Gate Bus Service Frequency Improvements	Multi-County	Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	No	No	Yes
63	98139	ACE Expansion	Multi-County/ 3434	Transit Efficiency	MODERATE	MODERATE	MINIMAL	1.0	No	Yes	Yes
64	240036	Caltrain Communications-Based Overlay Signal System (CBOSS) and Positive Train Control System (PTC)	Multi-County	Transit Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	Yes	Yes
65	240060, 240523	US-101 HOV Lanes (Whipple to Cesar Chavez)	Multi-County	Road Efficiency	MODERATE	MODERATE	MINIMAL	1.0	Yes	Yes	Yes
66	22003	Capitol Corridor Reliability Improvements (Phase 2)	Multi-County	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	Yes
67	22657	I-580 Westbound Truck Climbing Lane (Altamont Pass)	Multi-County	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
68	240140	Caltrain At-Grade Crossing Improvements	Multi-County	Transit Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	Yes
69	240571	I-80/I-880 Congestion Pricing and Clean Vehicle Incentive Program	Multi-County	Pricing	MODERATE	MODERATE	MINIMAL	1.0	Yes	Yes	Yes
70	98147, 240691	Marin-Sonoma Narrows (Phase 2)	Multi-County	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
71	НОТе	CTC Application + Alameda County Authorized Lanes Express Lanes Network	Multi-County	Express Lanes Network	MODERATE	MODERATE AD	MINIMAL	0.0	Yes	Yes	Yes
72	240122	SR-29 Complete Streets Improvements	Napa	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
73	240617	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)	Napa	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
74	94075	SR-12 Jameson Canyon Project (Phase 3: New SR-12/SR-29 Interchange)	Napa	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
75	22247	Regional Bikeway Network	Regional	Bike/Ped	MODERATE	STRONG	MODERATE	2.0	Yes	Yes	Yes
76	240410	Transportation for Livable Communities	Regional	TLC	MODERATE	STRONG	MODERATE	2.0	Yes	Yes	Yes
77	240690	Lifeline Program	Regional	Lifeline/New Freedom	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
78	NewFree	New Freedom	Regional	Lifeline/New Freedom	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
79	LS&R	Local Streets and Roads Capital Maintenance Needs	Regional	Maintenance	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
80	Transitshort	Transit Capital Maintenance Needs	Regional	Maintenance	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
81	230419	Freeway Performance Initiative	Regional	FPI	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	Yes
82	230550	Climate Initiatives	Regional	Climate	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
83	240589	EV Solar Installation [BAAQMD program]	Regional	Climate	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	Yes
84	240577	Heavy-Duty Truck Replacement [BAAQMD program]	Regional	Climate	MODERATE	STRONG	MINIMAL	1.5	No	Yes	Yes
85	240582	Truck & Motorcycle Retirement [BAAQMD program]	Regional	Climate	MODERATE	STRONG	MINIMAL	1.5	Yes	Yes	Yes
86	240674	Transbay Transit Center - Phase 3 (Pedestrian Connector Tunnel to BART/Muni)	San Francisco	Transit Expansion	MODERATE	STRONG	STRONG	2.5	No	No	Yes
87	230290	Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)	San Francisco/ 3434	Transit Expansion	MODERATE	STRONG	MODERATE	2.0	Yes	Yes	Yes
88	240171	SFMTA Transit Effectiveness Project	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
89	240526	SFCTA Transit Performance Initiative	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes

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					EC	UITY-RELATED TA	RGETS				
Map ID	Project ID	Project Name	County	Project Type	Housing	PM in CARE	Low Income HH Transportation Cost	Equity Targets Score	Serves Community of Concern?*	In Community of Concern?	In CARE Community?
90	230161	Van Ness Avenue BRT	San Francisco/ 3434	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
91	230164	Geary Boulevard BRT	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
92	240155	Better Market Street	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
93	240522	Congestion Pricing Pilot	San Francisco	Pricing	MODERATE	STRONG	MINIMAL	1.5	Yes	Yes	Yes
94	00MUNI	Muni Service Frequency Improvements	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
95	22415	Historic Streetcar Expansion Program	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
96	240545	Parkmerced Light Rail Corridor	San Francisco	Transit Efficiency	MODERATE	MINIMAL	STRONG	1.5	No	No	No
97	240557	Oakdale Caltrain Station	San Francisco	Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
98	240158	Eastern Neighborhoods (EN TRIPS) Circulation & Streetscape Improvements	San Francisco	Road Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
99	240694	Treasure Island Congestion Pricing	San Francisco	Pricing	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	No
100	240147	Southeast Waterfront Transportation Improvements	San Francisco	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
101	240163	Hunters Point & Candlestick Point Local Road Network	San Francisco	Road Efficiency	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	Yes
102	240344	SFpark	San Francisco	Parking	MODERATE	MODERATE	MINIMAL	1.0	Yes	Yes	Yes
103	240358	Mission Bay Local Road Network	San Francisco	Arterial Expansion	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	Yes
104	240035	Caltrain Terminal Station Improvements (4th & King)	San Francisco	Transit Efficiency	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	Yes
105	230555	I-80 Yerba Buena Island Interchange Improvements	San Francisco	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
106	240026	SamTrans El Camino BRT	San Mateo	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
107	22274	ITS Improvements in San Mateo County	San Mateo	Road Efficiency	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	Yes
108	240590	El Camino Real Complete Streets Improvements	San Mateo	Road Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
109	22268	San Mateo Countywide Shuttle Service Frequency Improvements	San Mateo	Transit Efficiency	MODERATE	MINIMAL	STRONG	1.5	Yes	Yes	Yes
110	21602	US-101 Broadway Interchange Improvements	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
111	21603	US-101 Woodside Road Interchange Improvements	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	Yes
112	21606	US-101 Willow Road Interchange Improvements	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	Yes
113	21613	SR-92 Improvements (Phase 1: San Mateo Bridge to I-280)	San Mateo	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
114	22279	US-101 Produce Road Interchange Improvements	San Mateo	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
115	22756	US-101 Candlestick Point Interchange Improvements	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	Yes
116	240064	Caltrain Grade Separations (Phase 1: San Mateo County)	San Mateo	Transit Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
117	21604	US-101 Auxiliary Lane Modifications (Oyster Point to San Francisco County line)	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
118	21615	I-280/SR-1 Interchange Improvements	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
119	22229	US-101 Sierra Point Parkway Interchange Improvements + Lagoon Way Extension	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No

<sup>\*</sup> = serving a CoC is defined as being located within a CoC and providing an access point for residents

					<u>EQ</u>	UITY-RELATED TA	RGETS				
Map ID	Project ID	Project Name	County	Project Type	Housing	PM in CARE	Low Income HH Transportation Cost	Equity Targets Score	Serves Community of Concern?*	In Community of Concern?	In CARE Community?
120	22230	I-280 Auxiliary Lanes (Hickey Boulevard to I-380)	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
121	94644	SR-92 Westbound Slow-Vehicle Climbing Lane (I-280 to SR-35)	San Mateo	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
122	21612	Dumbarton Bridge/US-101 Access Improvements (Phase 1)	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	Yes
123	240114	SR-1 Safety & Operational Improvements (Pacifica to Half Moon Bay)	San Mateo	Road Efficiency	MODERATE AD	MINIMAL	MINIMAL	-0.5	No	No	No
124	22282	US-101 Operational Improvements (near US-101/SR-92 Interchange)	San Mateo	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
125	98204	SR-1 Widening (Fassler Avenue to Westport Drive)	San Mateo	Highway Expansion	MODERATE AD	MINIMAL	MINIMAL	-0.5	No	No	No
126	240119	VTA El Camino BRT	Santa Clara	Transit Efficiency	STRONG	MODERATE	STRONG	2.5	Yes	Yes	Yes
127	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	Santa Clara/ 3434	Transit Expansion	MINIMAL	STRONG	STRONG	2.0	Yes	Yes	Yes
128	22019	Downtown East Valley (Phase 2: LRT)	Santa Clara/ 3434	Transit Expansion	STRONG	MODERATE	STRONG	2.5	Yes	Yes	Yes
129	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	Santa Clara	Transit Expansion	STRONG	MODERATE	STRONG	2.5	Yes	Yes	Yes
130	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	Santa Clara	Transit Expansion	STRONG	MODERATE	STRONG	2.5	Yes	Yes	Yes
131	98119	Vasona Light Rail Extension (Phase 2)	Santa Clara	Transit Expansion	MODERATE	MINIMAL	STRONG	1.5	No	No	No
132	230547	Monterey Highway BRT	Santa Clara	Transit Efficiency	MODERATE	MODERATE	STRONG	2.0	Yes	Yes	Yes
133	230554	Sunnyvale-Cupertino BRT	Santa Clara	Transit Efficiency	MINIMAL	MINIMAL	STRONG	1.0	Yes	Yes	No
134	21760	Caltrain Double-Track Improvements (San Jose to Gilroy)	Santa Clara	Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
135	230534	Caltrain Electrification (Tamien to Gilroy)	Santa Clara	Transit Efficiency	MODERATE	MODERATE	MODERATE	1.5	Yes	Yes	Yes
136	240494	ITS Improvements in Santa Clara County	Santa Clara	Road Efficiency	MODERATE	MINIMAL	MODERATE	1.0	Yes	Yes	Yes
137	22965	New US-101 Mabury/Taylor Interchange	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	Yes	Yes	Yes
138	22979	New US-101 Zanker/Skyport/Fourth Street Interchange	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	No	Yes
139	240437	US-101 Braided Ramps (Capitol Expressway to Yerba Buena Road)	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
140	240441	US-101/Oregon Expressway/Embarcadero Road Interchange Improvements	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	No	Yes
141	21719	I-880/I-280/Stevens Creek Boulevard Interchange Improvements	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
142	230537	I-280 Winchester Boulevard Interchange Improvements	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
143	240048	Caltrain Diridon Station Track Capacity Expansion (Phases 2 & 3)	Santa Clara	Transit Efficiency	STRONG	MINIMAL	MODERATE	1.5	No	No	Yes
144	240063	Caltrain Terminal Station Improvements (San Jose Diridon)	Santa Clara	Transit Efficiency	STRONG	MINIMAL	MODERATE	1.5	No	No	Yes
145	240429	I-880/US-101 Interchange Improvements	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	Yes	Yes
146	240444	US-101/SR-237 Interchange Improvements	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	No	Yes	No
147	240671	New I-280 Senter Road Interchange	Santa Clara	Arterial Expansion	STRONG	MINIMAL	MINIMAL	1.0	Yes	Yes	Yes
148	230337	New Lawrence Expressway Interchange (Monroe Street)	Santa Clara	Arterial Expansion	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
149	240479	I-680 Auxiliary Lanes (McKee Road to Berryessa Road)	Santa Clara	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	Yes
			•				1		1		

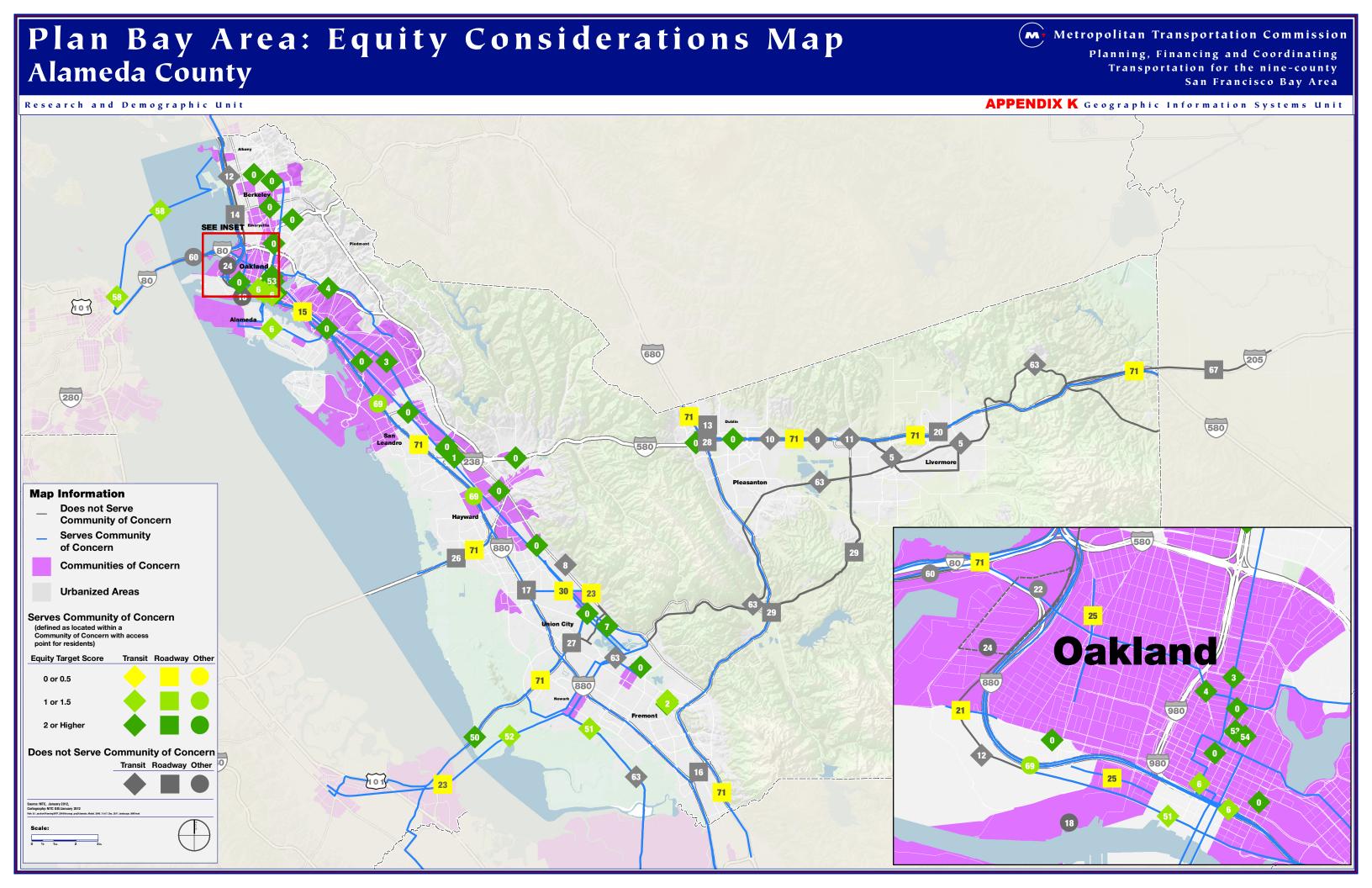
<sup>\*</sup> = serving a CoC is defined as being located within a CoC and providing an access point for residents

					EQUITY-RELATED TARGETS						
Map ID	Project ID	Project Name	County	Project Type	Housing	PM in CARE	Low Income HH Transportation Cost	Equity Targets Score	Serves Community of Concern?*	In Community of Concern?	In CARE Community?
150	240586	Oregon Expressway Alma Bridge Interchange Improvements	Santa Clara	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
151	21922	Mineta San Jose International Airport APM Connector	Santa Clara	Transit Efficiency	STRONG	MINIMAL	MINIMAL	1.0	Yes	Yes	Yes
152	22814	Foothill Expressway Deceleration Lane Extension	Santa Clara	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
153	230340	New Lawrence Expressway Interchange (Kifer Road)	Santa Clara	Arterial Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
154	240580	I-280/Lawrence Expressway/Stevens Creek Interchange Improvements	Santa Clara	Arterial Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
155	230332	Rengstorff Avenue Grade Separation	Santa Clara	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	Yes	No
156	240404	Calaveras Boulevard Overpass Widening (Abel Street to Milpitas Boulevard)	Santa Clara	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
157	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)	Santa Clara	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	No
158	240443	Mary Avenue Extension	Santa Clara	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	Yes	Yes	No
159	HOTd	Silicon Valley Express Lanes Network	Santa Clara	Express Lanes Network	MODERATE	MODERATE AD	MINIMAL	0.0	Yes	Yes	Yes
160	230294	New SR-152 Alignment	Santa Clara	Highway Expansion	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
161	21714	US-101 Widening (Monterey Street to SR-129)	Santa Clara	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
162	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)	Solano	Transit Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	No	No	No
163	22629	Vallejo Ferry Terminal Intermodal Station	Solano	Transit Expansion	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
164	94151	Jepson Parkway Construction (SR-12 to I-80)	Solano	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
165	230325	I-80 Westbound Cordelia Truck Scales Relocation	Solano	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
166	230326	I-80/I-680/SR-12 Widening & Interchange Improvements (Phase 1)	Solano	Highway Expansion	MODERATE AD	MINIMAL	MINIMAL	-0.5	No	No	No
167	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)	Solano	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	Yes	No
168	230561	SR-113 Relocation out of Dixon	Solano	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
169	230575	Rio Vista Bridge Reconstruction & Realignment	Solano	Road Efficiency	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
170	22794	Curtola Transit Center Improvements	Solano	Transit Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
171	230313	Redwood Parkway & Fairground Drive Roadway Improvements	Solano	Road Efficiency	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No
172	230477	SR-12 Widening (SR-29 to Sacramento County line)	Solano	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
173	240650	Sonoma Countywide Bus Service Frequency Improvements	Sonoma	Transit Efficiency	MODERATE	MINIMAL	STRONG	1.5	Yes	Yes	No
174	230366	Caulfield Lane Extension (Southern Crossing)	Sonoma	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
175	21998	SR-116 Widening & Rehabilitation (Elphick Road to Redwood Drive)	Sonoma	Highway Expansion	MINIMAL	MINIMAL	MINIMAL	0.0	No	No	No
176	21884	Petaluma Cross-Town Connector/Interchange	Sonoma	Road Efficiency	STRONG	MINIMAL	MINIMAL	1.0	No	No	No
177	22207	Farmers Lane Extension (Bellevue Avenue to SR-12)	Sonoma	Highway Expansion	MODERATE	MINIMAL	MINIMAL	0.5	Yes	Yes	No

LEGEND	IMPACT TO TARGETS			
STRONG	MODERATE	MINIMAL	MODERATE ADVERSE	STRONG ADVERSE

<sup>\* =</sup> serving a CoC is defined as being located within a CoC and providing an access point for residents

REVISED 2/15/2012



# Plan Bay Area: Equity Considerations Map

Metropolitan Transportation Commission

Planning, Financing and Coordinating Transportation for the nine-county San Francisco Bay Area

**Alameda County** 

Research and Demographic Unit

Geographic Information Systems Unit

Map ID	Project ID	Project Name	Map ID	Project ID	Project Name
•	240180	BART Bay Fair Connection	27	94506	Fremont/Union City East-West Connector
2	22062	Irvington BART Station	28	230099	I-580/I-680 Interchange Improvements (Phase 1)
3	22455	AC Transit East Bay BRT	29	240062, 22776	SR-84/I-680 Interchange Improvements + SR-84 Widening (Pigeon Pass to I-680)
4	22780	AC Transit Grand-MacArthur BRT	30	240053	Whipple Road Widening (Mission Boulevard to I-880)
5	98207T, 98207R	BART to Livermore (Phases 1 & 2: Rail Extension) Alameda-Oakland BRT + Transit Access Improvements	0	240182, 00BART	45 - BART Metro Program 46 - BART Service Frequency Improvements 56 - BART Station Capacity Improvements 57 - BART Station Access Improvements
		I-880 Broadway/Jackson Interchange	50	240018	Dumbarton Corridor Express Bus
7	230101	Union City Commuter Rail Station + Dumbarton Rail Segment G Improvements	30		·
8	240113	BART Hayward Maintenance Complex	51	22009	Capitol Corridor Service Frequency Improvements (Oakland to San Jose)
9	240196	BART to Livermore (Phase 1: 1-Station Rail Extension with Bus Enhancements)	52	240216	Dumbarton Rail
10	LBART	BART to Livermore (Phase 1: 1-Station Rail Extension with DMU)	53	240699	AC Transit Service Frequency Improvements (Restoration of 2009 Funding Levels)
11)	580_BUS	I-580 Express Bus (Dublin to Livermore)	54	00ACT1	AC Transit Frequent Transit Network
12	22089	Martinez Subdivision & Rail Improvements	58	22120, 22122, 22511, 22512, 230613, 230581	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)
13	22765	I-580/I-680 Interchange HOV Direct Connectors	60	230604	Bay Bridge Contraflow Lane
14	240318	I-80 Ashby Interchange Improvements			
15	22769	I-880 23rd/29th Interchange Improvements	63	98139	ACE Expansion
			67	22657	I-580 Westbound Truck Climbing Lane (Altamont Pass)
16	22779	I-880/SR-262 Interchange Improvements (Phase 2: Warren Avenue Grade Separation)	69	240571	I-80/I-880 Congestion Pricing and Clean Vehicle Incentive Program
17	240052	I-880 Whipple Road Interchange Improvements	71	НОТе	CTC Application + Alameda County Authorized Lanes Express Lanes Network
18	240317	Port of Oakland Wharf Replacement & Berth Deepening (Berths 60-63)	75	22247	Bicycle/Pedestrian Expansion
19	240657	I-580 Corridor Spot Intersection Improvements	76	240410	Transportation for Livable Communities (TLC)
20	21100	I-580 Vasco Road Interchange	77	240690	Lifeline Transportation Program
		Improvements & Auxiliary Lanes	78	NewFree	New Freedom
21	22082	Port of Oakland 7th Street Grade Separation & Roadway Improvements	79	LS&R	Local Streets and Roads Capital Maintenance Needs
22	22760	Port of Oakland Outer Harbor Intermodal Terminals	80	Transitshort	Transit Capital Maintenance Needs
	230103	Decoto Neighborhood Grade Separation	81	230419	Freeway Performance Initiative
23			82	230550	Climate Initiatives Program
24	240024	Oakland Army Base Infrastructure Improvements	83	240589	Solar Installations to Offset Electric Vehicle Use
25	240279	Mandela Parkway & 3rd Street Corridor Street Reconstruction	84	240577 240582	Heavy Duty Truck Replacement Program
26	240562	SR-92 Clawiter/Whitesell Interchange Improvements		Z4030Z	Heavy-Duty Diesel Truck and Motorcycle Early Retirement Program
			NOTE: Project names appearing in grey are not shown on the map.		

#### Plan Bay Area: Equity Considerations Map Contra Costa County

M. Metropolitan Transportation Commission

NOTE: Project names appearing in grey are not shown on the map.

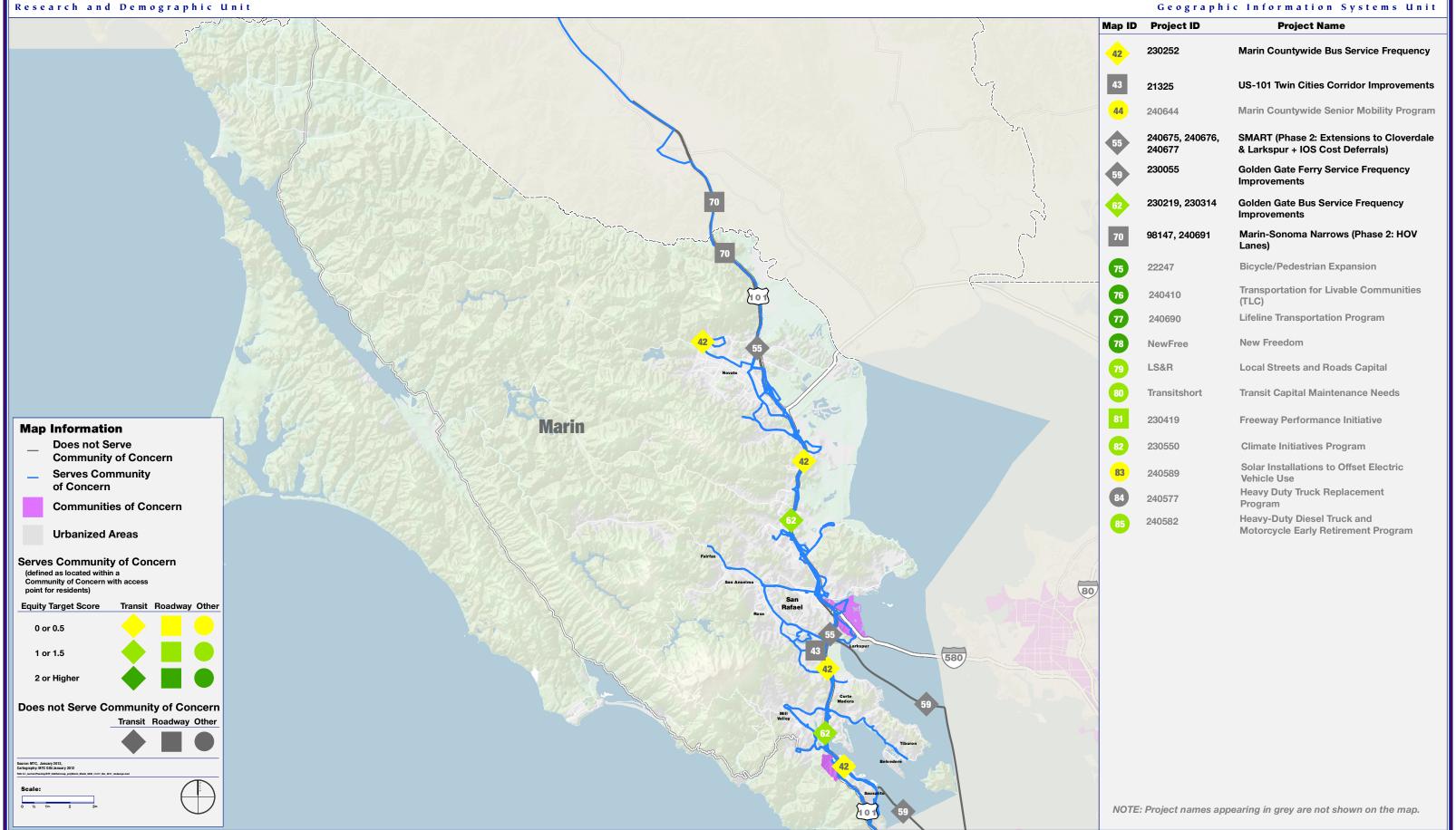
Planning, Financing and Coordinating
Transportation for the nine-county
San Francisco Bay Area

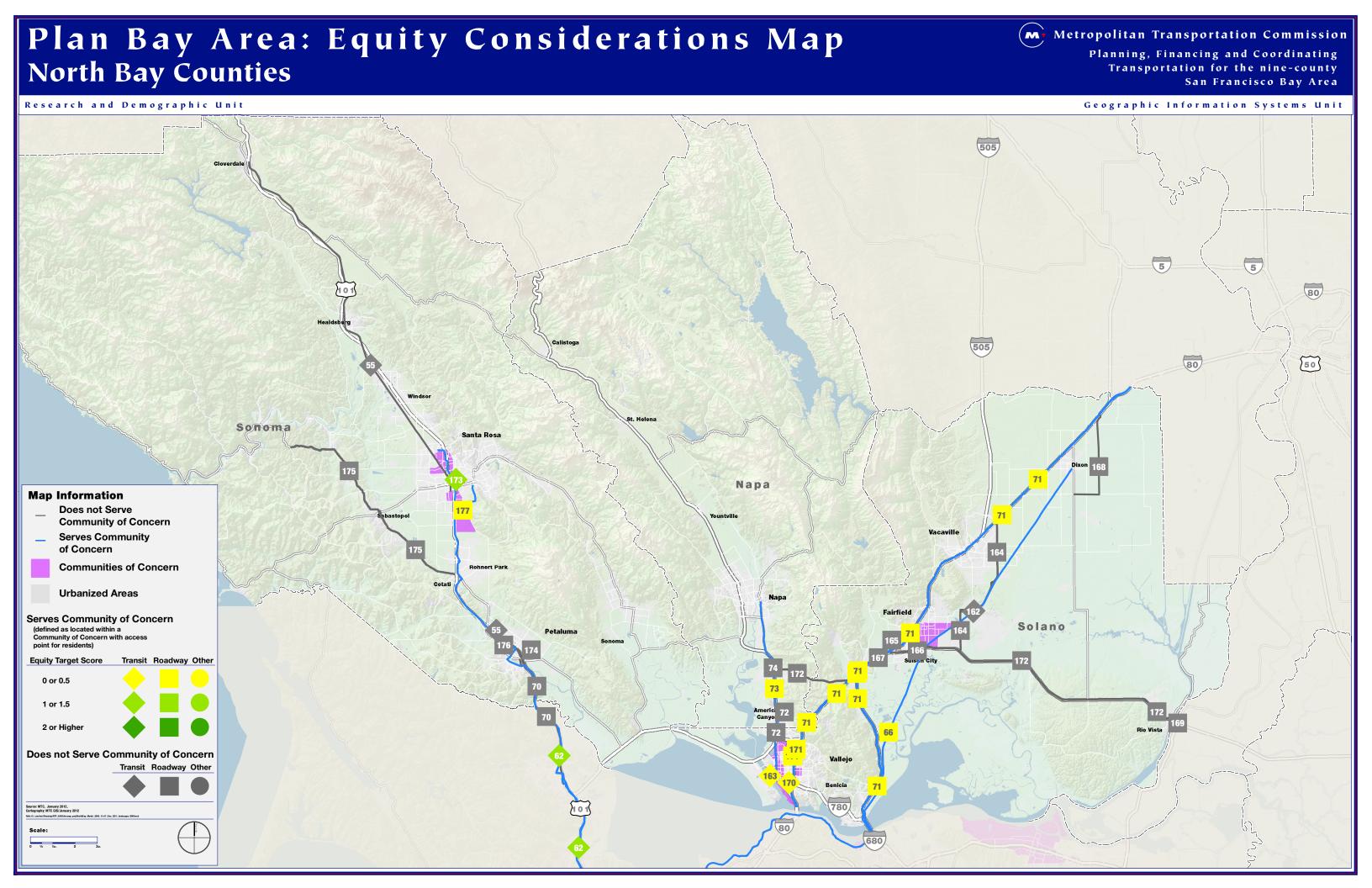
San Francisco Bay Area Research and Demographic Unit Geographic Information Systems Unit Map ID Project ID **Project Name** 780 22343 I-680 Express Bus Service Frequency Improvements (Phase 2) 230321 Hercules Intermodal Station (Phases 2, 3, I-80 San Pablo Dam Road Interchange 22360 Improvements 21223, I-680 HOV Gap Closure (North Main Street 22353 to Livorna Road) Vasco Road Safety & Operational 22604 Improvements (Brentwood to San Joaquin County line) 21205, I-680/SR-4 Interchange Improvements + SR-22350 4 Widening (Morello Avenue to SR-242) 22605 SR-4 Bypass Completion (SR-160 to Walnut 22981 SR-4 Widening (Marsh Creek Road to San Joaquin County line) 98133 Pacheco Boulevard Widening (Blum Road to **Arthur Road)** 22400 SR-239 Expressway Construction (Brentwood to Tracy) 94050 SR-4 Upgrade to Full Freeway (Phase 2: **Cummings Skyway to I-80)** 45 - BART Metro Program 46 - BART Service Frequency Improvements 240182 56 - BART Station Capacity Improvements **00BART** 57 - BART Station Access Improvements **Map Information** 22120, 22122, WETA Service Expansion (Treasure Island, **Does not Serve** 22511, 22512, Berkeley/Albany, Richmond, Hercules, and **Community of Concern Contra Costa** 230613, 230581 Redwood City) **Serves Community** 22003 **Capitol Corridor Reliability Improvements** of Concern (Phase 2) **Communities of Concern** 240571 I-80/I-880 Congestion Pricing and Clean **Vehicle Incentive Program Urbanized Areas** CTC Application + Alameda County **HOTe Authorized Lanes Express Lanes Serves Community of Concern** Network defined as located within a 75 Bicycle/Pedestrian Expansion 22247 Community of Concern with access **Transportation for Livable Communities** 76 240410 **Equity Target Score** 77 240690 **Lifeline Transportation Program** NewFree **New Freedom** 1 or 1.5 580 **Local Streets and Roads Capital** LS&R 2 or Higher **Maintenance Needs Transit Capital Maintenance Needs Transitshort Does not Serve Community of Concern** 230419 **Freeway Performance Initiative** Transit Roadway Other 230550 **Climate Initiatives Program** 83 240589 Solar Installations to Offset Electric Vehicle 240577 **Heavy Duty Truck Replacement Program Heavy-Duty Diesel Truck and Motorcycle Early Retirement Program** 

#### Plan Bay Area: Equity Considerations Map **Marin County**

Metropolitan Transportation Commission

Planning, Financing and Coordinating Transportation for the nine-county San Francisco Bay Area





# Plan Bay Area: — — Equity Considerations Map

Metropolitan Transportation Commission

Planning, Financing and Coordinating

Transportation for the nine-county

San Francisco Bay Area

North Bay Counties

esearch and Demographic Unit Geographic Information Systems Unit

Map ID	Project ID	Project Name	Mary ID	Duning t ID	Position & Manus
тар ів	Project ID		Map ID	Project ID	Project Name
55	240675, 240676, 240677	SMART (Phase 2: Extensions to Cloverdale & Larkspur + IOS Cost Deferrals)	170	22794	Curtola Transit Center Improvements
62	230219, 230314	Golden Gate Bus Service Frequency Improvements	171	230313	Redwood Parkway & Fairground Drive Roadway Improvements
66	22003	Capitol Corridor Reliability	172	230477	SR-12 Widening (SR-29 to Sacramento County line)
	09147 040601	Improvements (Phase 2)  Marin-Sonoma Narrows (Phase 2:	173	240650	Sonoma Countywide Bus Service Frequency
70	98147, 240691	HOV Lanes)	174	230366	Caulfield Lane Extension (Southern Crossing)
71	НОТе	CTC Application + Alameda County Authorized Lanes Express Lanes	175	21998	SR-116 Widening & Rehabilitation (Elphick Road to Redwood Drive)
72	240122	SR-29 Complete Streets Improvements	176	21884	Petaluma Cross-Town Connector/Interchange
73	240617	SR-29 HOV Lanes & BRT (Napa Junction to Vallejo)	177	22207	Farmers Lane Extension (Bellevue Avenue to SR-12)
74	94075	SR-12 Jameson Canyon Project (Phase 3: New SR-12/SR-29 Interchange)			
75	22247	Bicycle/Pedestrian Expansion			
76	240410	Transportation for Livable Communities (TLC)			
77	240690	Lifeline Transportation Program			
78	NewFree	New Freedom			
79	LS&R	Local Streets and Roads Capital			
80	Transitshort	Transit Capital Maintenance Needs			
81	230419	Freeway Performance Initiative			
82	230550	Climate Initiatives Program			
83	240589	Solar Installations to Offset Electric Vehicle Use			
84	240577	Heavy Duty Truck Replacement Program			
85	240582	Heavy-Duty Diesel Truck and Motorcycle Early Retirement Program			
162	21341	Fairfield/Vacaville Capitol Corridor Station (Phases 1, 2, and 3)			
163	22629	Vallejo Ferry Terminal Intermodal Station			
164	94151	Jepson Parkway Construction (SR-12 to I-80)			
165	230325	I-80 Westbound Cordelia Truck Scales Relocation			
166	230326	I-80/I-680/SR-12 Widening & Interchange Improvements (Phase 1)			
167	230468	I-80 Auxiliary Lanes (Airbase Parkway to I-680)			
168	230561	SR-113 Relocation out of Dixon			
169	230575	Rio Vista Bridge Reconstruction & Realignment	NOTE:	Project names a	appearing in grey are not shown on the map.

## Plan Bay Area: Equity Considerations Map Metropolitan Transportation Commission Planning, Financing and Coordinating San Francisco Transportation for the nine-county San Francisco Bay Area Research and Demographic Unit Geographic Information Systems Unit Alamed **Map Information Does not Serve Community of Concern Serves Community** of Concern San Francisco **Communities of Concern Urbanized Areas Serves Community of Concern Equity Target Score** 0 or 0.5 1 or 1.5 **Does not Serve Community of Concern**

# Plan Bay Area: — — Equity Considerations Map

Metropolitan Transportation Commission

Planning, Financing and Coordinating

Transportation for the nine-county

San Francisco Bay Area

San Francisco

Research and Demographic Unit

Map ID	Project ID	Project Name	Map ID	Project ID	Project Name
•	240182 00BART	45 - BART Metro Program 46 - BART Service Frequency Improvements 56 - BART Station Capacity Improvements	91	230164	Geary Boulevard BRT
47	230603	57 - BART Station Access Improvements California High-Speed Train - Bay Area to	92	240155	Better Market Street
	240124	Central Valley Caltrain Service Frequency Improvements	93	240522	Congestion Pricing Pilot
48	240134, 21627	(6-Train Service during Peak Hours) + Electrification (SF to Tamien)	94	00MUNI	Muni Service Frequency Improvements
49	21627, 240134, 240521	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)	95	22415	Historic Streetcar Expansion Program
58	22120, 22122, 22511, 22512,	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and	96	240545	Parkmerced Light Rail Corridor
59	230613, 230581 230055	Redwood City) Golden Gate Ferry Service Frequency	97	240557	Oakdale Caltrain Station
60	230604	Improvements Bay Bridge Contraflow Lane	98	240158	Eastern Neighborhoods (EN TRIPS) Circulation & Streetscape Improvements
	22227, 240328,	Geneva Avenue Corridor Improvements	99	240694	Treasure Island Congestion Pricing
61	240334	(Roadway Extension, BRT, and Southern Intermodal Terminal)	100	240147	Southeast Waterfront Transportation Improvements
62	230219, 230314	Golden Gate Bus Service Frequency Improvements	101	240163	Hunters Point & Candlestick Point Local Road Network
64	240036	Caltrain Communications-Based Overlay Signal System (CBOSS) and Positive Train	102	240344	SFpark
65	240060, 240523	Control System (PTC) US-101 Express Lanes (Whipple Avenue to	103	240358	Mission Bay Local Road Network
75	22247	Cesar Chavez Street) Bicycle/Pedestrian Expansion	104	240035	Caltrain Terminal Station Improvements (4th & King)
76	240410	Transportation for Livable Communities (TLC)	105	230555	I-80 Yerba Buena Island Interchange Improvements
77	NewFree	New Freedom			
78	230161	Van Ness Avenue BRT			
79	LS&R	Local Streets and Roads Capital Maintenance Needs			
80	Transitshort	Transit Capital Maintenance Needs			
81	230419	Freeway Performance Initiative			
82	230550	Climate Initiatives Program			
83	240589	Solar Installations to Offset Electric Vehicle Use			
84	240577	Heavy Duty Truck Replacement Program			
85	240582	Heavy-Duty Diesel Truck and Motorcycle Early Retirement Program			
86	240674	Transbay Transit Center - Phase 3 (Pedestrian Connector Tunnel to			
87	240674	BART/Muni) Transbay Transit Center - Phase 2B (Caltrain Downtown Extension)			
88	240171	SFMTA Transit Effectiveness Project			
89	240526	SFCTA Transit Performance Initiative			
90	230161	Van Ness Avenue BRT	NOTE:	Project names ap	pearing in grey are not shown on the map.

## Plan Bay Area: Equity Considerations Map Metropolitan Transportation Commission Planning, Financing and Coordinating San Mateo Transportation for the nine-county San Francisco Bay Area Research and Demographic Unit Geographic Information Systems Unit **Map Information Does not Serve Community of Concern Serves Community** San Mateo of Concern **Communities of Concern Urbanized Areas Serves Community of Concern** (defined as located within a Community of Concern with access point for residents) Redwood 2 or Higher **Does not Serve Community of Concern**

# Plan Bay Area: — — Equity Considerations Map

Metropolitan Transportation Commission
Planning, Financing and Coordinating
Transportation for the nine-county
San Francisco Bay Area

San Mateo

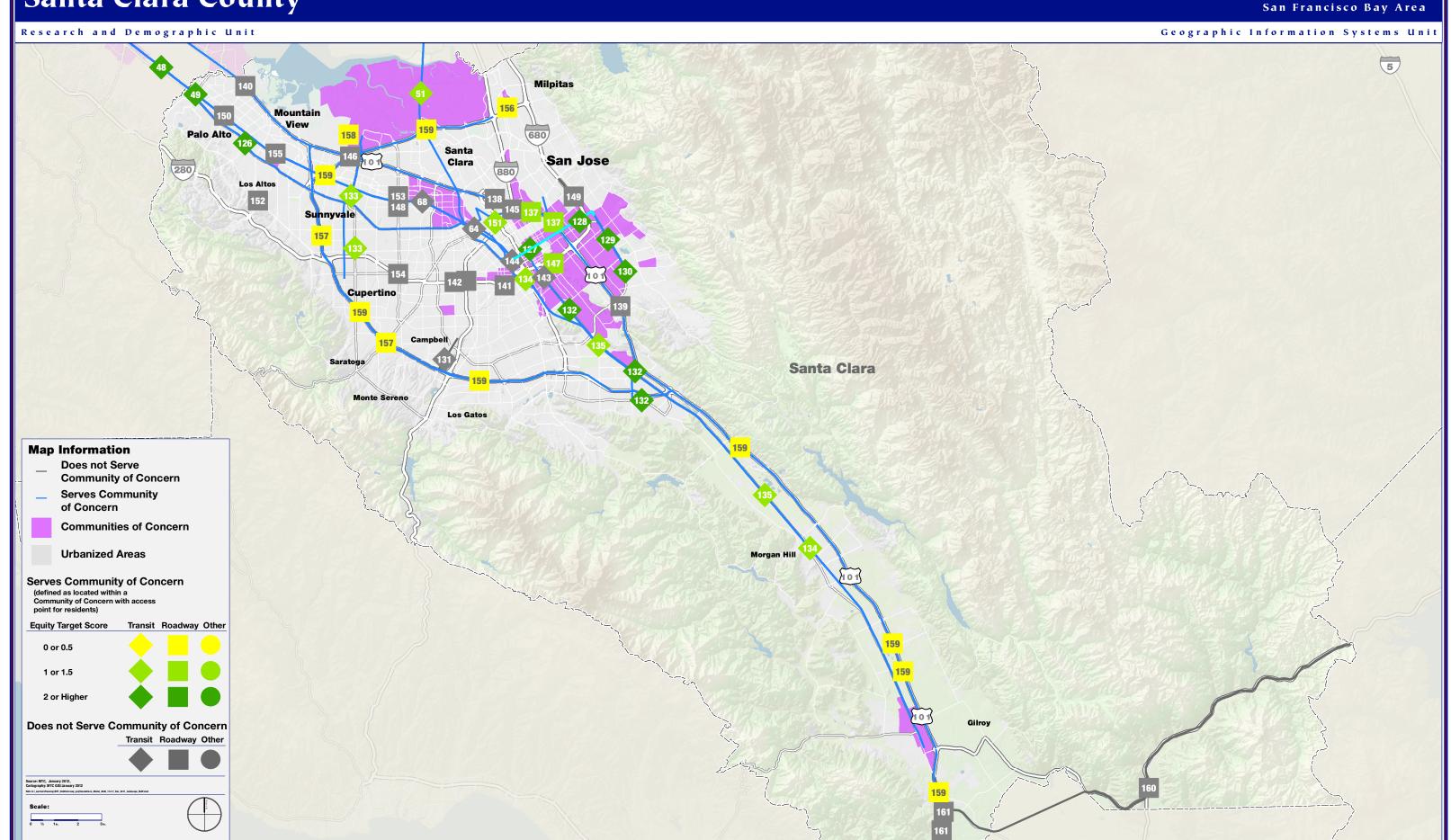
Research and Demographic Unit

Map ID	Project ID	Project Name	Map ID	Project ID	Project Name		
		45 - BART Metro Program		J	•		
0	240182 00BART	46 - BART Service Freq. Improvements 56 - BART Station Capacity Improvements 57 - BART Station Access Improvements	111	21603	US-101 Woodside Road Interchange Improvements		
47	230603	California High-Speed Train - Bay Area to Central Valley	112	21606	US-101 Willow Road Interchange Improvements		
X		Caltrain Service Frequency Improvements	113	21613	SR-92 Improvements (Phase 1: San Mateo		
48	240134, 21627	(6-Train Service during Peak Hours) + Electrification (SF to Tamien)	114	22279	Bridge to I-280) US-101 Produce Road Interchange Improvements		
49	21627, 240134, 240521	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to Tamien)	115	22756	US-101 Candlestick Point Interchange Improvements		
50	240018	Dumbarton Corridor Express Bus	116	240064	Caltrain Grade Separations (Phase 1: San Mateo County)		
52	240216	Dumbarton Rail	117	21604	US-101 Auxiliary Lane Modifications (Oyster Point to San Francisco County line)		
58	22120, 22122, 22511, 22512, 230613, 230581	WETA Service Expansion (Treasure Island, Berkeley/Albany, Richmond, Hercules, and Redwood City)	118	21615	I-280/SR-1 Interchange Improvements		
61	22227, 240328, 240334	Geneva Avenue Corridor Improvements (Roadway Extension, BRT, and Southern	119	22229	US-101 Sierra Point Parkway Interchange Improvements + Lagoon Way Extension		
64	240036	Intermodal Terminal)  Caltrain Communications-Based Overlay	120	22230	I-280 Auxiliary Lanes (Hickey Boulevard to I- 380)		
		Signal System (CBOSS) and Positive Train Control System (PTC)	121	94644	SR-92 Westbound Slow-Vehicle Climbing Lane (I-280 to SR-35)		
65	240060, 240523	US-101 HOV Lanes (Whipple Avenue to Cesar Chavez Street)	122	21612	Dumbarton Bridge/US-101 Access Improvements (Phase 1)		
68	240140	Caltrain At-Grade Crossing Improvements	123	240114	SR-1 Safety & Operational Improvements (Pacifica to Half Moon Bay)		
75	22247	Bicycle/Pedestrian Expansion	124	22282	US-101 Operational Improvements (near US-101/SR-92 Interchange)		
76	240410	Transportation for Livable Communities (TLC)	125	98204	SR-1 Widening (Fassler Avenue to Westport Drive)		
77	240690	Lifeline Transportation Program	159	HOTd	Silicon Valley Express Lanes Network		
78	NewFree	New Freedom					
79	LS&R	Local Streets and Roads Capital					
80	Transitshort	Transit Capital Maintenance Needs					
81	230419	Freeway Performance Initiative					
82	230550	Climate Initiatives Program					
83	240589	Solar Installations to Offset Electric Vehicle Use					
84	240577	Heavy Duty Truck Replacement Program					
85	240582	Heavy-Duty Diesel Truck and Motorcycle Early Retirement Program					
106	240026	SamTrans El Camino BRT					
107	22274	ITS Improvements in San Mateo County					
108	240590	El Camino Real Complete Streets Improvements					
109	22268	San Mateo Countywide Shuttle Service Frequency Improvements					
110	21602	US-101 Broadway Interchange Improvements					
				NOTE: Project names appearing in grey are not shown on the map.			

### Plan Bay Area: Equity Considerations Map Santa Clara County

Metropolitan Transportation Commission

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# Plan Bay Area: — — Equity Considerations Map Santa Clara County

Metropolitan Transportation Commission
Planning, Financing and Coordinating
Transportation for the nine-county
San Francisco Bay Area

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Map ID	Project ID	Project Name	Map ID	Project ID	Project Name
48	240134, 21627	Caltrain Service Frequency Improvements (6-Train Service during Peak Hours) + Electrification (SF to Tamien)	136	240494	ITS Improvements in Santa Clara County
49	240134, 240521,	Caltrain Vision (10-Train Service during Peak Hours) + Electrification (San Francisco to	137	22965	New US-101 Mabury/Taylor Interchange
	21627 22009	Tamien) Capitol Corridor Service Frequency	138	22979	New US-101 Zanker/Skyport/Fourth Street
51	22003	Improvements (Oakland to San Jose)	139	240437	US-101 Braided Ramps (Capitol Expressway to Yerba Buena Road)
64	240036	Caltrain Communications-Based Overlay Signal System (CBOSS) and Positive Train Control System (PTC)	140	240441	US-101/Oregon Expressway/Embarcadero Road Interchange Improvements
68	240140	Caltrain At-Grade Crossing Improvements	141	21719	I-880/I-280/Stevens Creek Boulevard Interchange Improvements
75	22247	Bicycle/Pedestrian Expansion	142	230537	I-280 Winchester Boulevard Interchange Improvements
76	240410	Transportation for Livable Communities (TLC)	143	240048	Caltrain Diridon Station Track Capacity Expansion (Phases 2 & 3)
77	240690	Lifeline Transportation Program	144	240063	Caltrain Terminal Station Improvements
78	NewFree	New Freedom	145	240429	I-880/US-101 Interchange Improvements
79	LS&R	Local Streets and Roads Capital Maintenance Needs	146	240444	US-101/SR-237 Interchange Improvements
80	Transitshort	Transit Capital Maintenance Needs	147	240671	New I-280 Senter Road Interchange
81	230419	Freeway Performance Initiative	148	230337	New Lawrence Expressway Interchange (Monroe Street)
82	230550	Climate Initiatives Program	149	240479	I-680 Auxiliary Lanes (McKee Road to Berryessa Road)
83	240589	Solar Installations to Offset Electric Vehicle	150	240586	Oregon Expressway Alma Bridge Interchange Improvements
84	240577	Heavy Duty Truck Replacement Program	151	21922	Mineta San Jose International Airport APM Connector
85	240582	Heavy-Duty Diesel Truck and Motorcycle Early Retirement Program	152	22814	Foothill Expressway Deceleration Lane Extension
126	240119	VTA El Camino BRT	153	230340	New Lawrence Expressway Interchange (Kifer Road)
127	240375	BART to San Jose/Santa Clara (Phase 2: Berryessa to Santa Clara)	154	240580	I-280/Lawrence Expressway/Stevens Creek Interchange Improvements
128	22019	Downtown East Valley (Phase 2: LRT)	155	230332	Rengstorff Avenue Grade Separation
129	22956	Capitol Expressway Light Rail Extension (Phase 2: to Eastridge Transit Center)	156	240404	Calaveras Boulevard Overpass Widening (Abel Street to Milpitas Boulevard)
130	22978	Capitol Expressway Light Rail Extension (Phases 2 & 3: to Nieman)	157	240431	SR-85 Auxiliary Lanes (El Camino Real to Winchester Boulevard)
131	98119	Vasona Light Rail Extension (Phase 2)	158	240443	Mary Avenue Extension
132	230547	Monterey Highway BRT	159	HOTd	Silicon Valley Express Lanes Network
133	230554	Sunnyvale-Cupertino BRT	160	230294	New SR-152 Alignment
134	21760	Caltrain Double-Track Improvements (San Jose to Gilroy)	161	21714	US-101 Widening (Monterey Street to SR- 129)

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