

# City of Sunnyvale

## Bicycle Friendly Community Strategy toward Silver and Gold

---

February 2016

Prepared by Alta Planning + Design



## Table of Contents

---

1. Introduction.....	1-1
Report Organization.....	1-4
Application Process.....	1-1
2. Engineering Recommendations .....	1-4
Why is Engineering Important?.....	2-5
Existing Conditions .....	2-5
Silver Status Action Items.....	2-5
Gold Status Action Items .....	2-6
3. Education Recommendations .....	3-31
Why is Education Important?.....	3-31
Existing Conditions .....	3-31
Silver Status Action Items.....	3-31
Gold Status Action Items .....	3-32
4. Encouragement Recommendations .....	4-39
Why is Encouragement Important?.....	4-39
Existing Conditions .....	4-39
Silver Status Action Items.....	4-39
Gold Status Action Items .....	4-40
5. Enforcement Recommendations .....	5-50
Why is Enforcement Important?.....	5-50

Existing Conditions.....	5-50
Silver Status Action Items .....	5-50
Gold Status Action Items .....	5-50
6. Evaluation Recommendations.....	6-57
Why is Evaluation Important? .....	6-57
Existing Conditions.....	6-57
Silver Status Action Items .....	6-57
Gold Status Action Items .....	6-58

## Table of Figures

---

Figure 1-1: Number of Bicycle Friendly Communities (2015)1-1
Figure 1-2: Average BFC performance levels for each ranking .....
1-3

# 1. Introduction

The City of Sunnyvale was first recognized as a Bronze Level Bicycle Friendly Community (BFC) by the League of American Bicyclists (LAB) in 2006. The Bronze designation reflects the investments the City of Sunnyvale and its partners have made towards making the City more bicycle friendly. Communities are required to reapply for BFC status every four years to retain or improve their ranking. Sunnyvale last applied for a BFC status in 2012, therefore would need to reapply in Fall 2016 in order to potentially keep its designation. However, the City seeks to make Sunnyvale even more bicycle friendly and reach a higher designation – either Silver or Gold. This report provides strategies towards achieving this goal.



Figure 1-1: Number of Bicycle Friendly Communities (2015)

<sup>1</sup> <http://www.bikeleague.org/bfa>.

It takes a concerted effort to be a designated BFC and only a small portion of American cities receive this honor (Figure 1-1).

## Application Process

Twice a year, during the application process, the LAB compares the applicants against each other and against current BFC-designated communities. The application is divided into the “Five Es” categories: engineering, education, encouragement, enforcement, and evaluation. The application criteria changes periodically to better reflect the current status of bicycle communities, new technologies, and new best practices.

After an application deadline, the applications are first sent to local reviewers for comment. Local reviewers have 2-3 weeks to submit an online review of the applicant. Once all local feedback is received, it is shared with the judging panel. Each judge then takes 2-3 weeks to review each application, together with any supplemental material and local feedback. Applications that receive a range of award suggestions are discussed during a review meeting. In general:

- ◆ Platinum communities usually show excellence across all Five Es. These communities have a comfortable and safe bike network, excellent bike parking, great bike education programs, a supportive police force with extensive bicycle use by residents and visitors.

- ◆ Gold communities also have strong bike cultures, but may need to complete their bike network or reach more children with Safe Routes to School programs.
- ◆ Silver communities are somewhat welcoming to bikes and are easy to navigate for intermediate and experienced bicyclists. Silver communities typically have a lot of work left to do in 2 or 3 of the Es.
- ◆ Bronze communities are in the process of becoming more bike friendly. These communities may have bike infrastructure in place and motorists may not yet be aware that they need to share the road with bicyclists. However, important steps are being taken in all five E's but particularly in one or two Es. For example, a community might have several cycling instructors that conduct regular cycling skill classes for adults, there may be a Safe

Routes to School program at most schools, or other similar efforts.

- ◆ Applicants in the Honorable Mention category are just starting to address the needs of bicyclists. There are probably relatively few bicyclists on the road and most are very experienced. However, there may be a popular shared use path in the community, a community-wide bike event, or a new bike plan.
- ◆ Applicants that do not receive any recognition have yet to address the needs of bicyclists.

LAB produced an infographic showing the average performance of the BFCs with regards to the Five Es along with ridership and safety; see Figure 1-2. The Silver and Gold performance levels were used to develop the recommendations in this report.

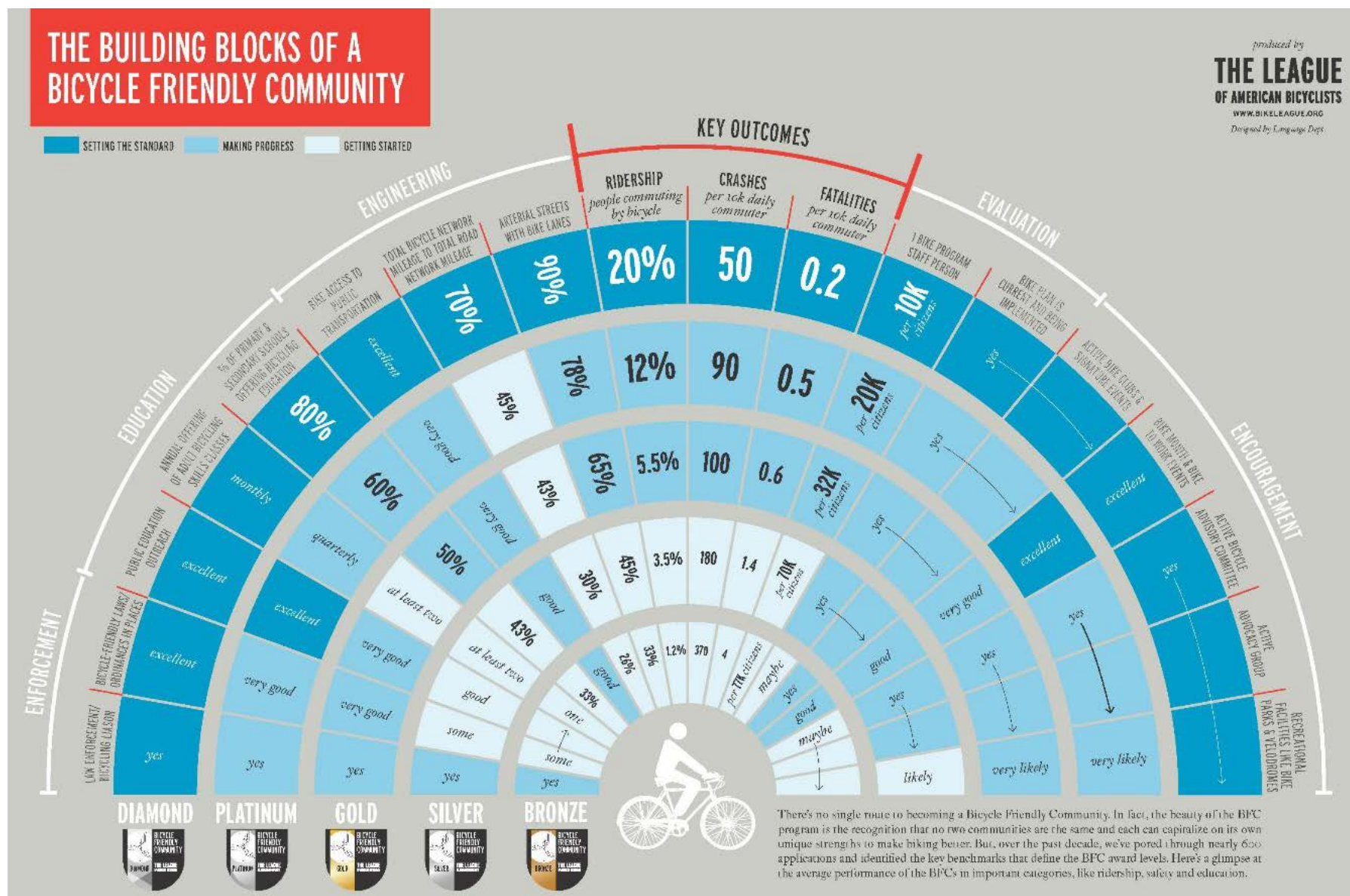


Figure 1-2: Average BFC performance levels for each ranking

## Report Organization

This report is organized in the same Five Es the BFC application uses to evaluate bicycle friendliness:

- ◆ Engineering: Creating safer and convenient places to ride and park
- ◆ Education: Giving people of all ages and abilities the skills and confidence to ride
- ◆ Encouragement: Creating a strong bike culture that welcomes and celebrates bicycling
- ◆ Enforcement: Ensuring safe roads for all users
- ◆ Evaluation & Planning: Planning for bicycling as a safe and viable transportation option

Each section provides a background statement from LAB about the importance of the respective E and a table. The table lists the Fall 2015 BFC questions in order (with exception of setting and demographics questions) with recommended action items for Silver and Gold. Please note that questions may change or be added when Sunnyvale reapplies for a BFC designation. Each table also gives a high-level cost estimate for each Silver-level cost estimate in staff time, dollar amount, or both. Some costs may be recurring. These cost estimates are not guaranteed and may change over time.

## Summary of Cost Estimates

The total of all Silver-level cost estimates are as follows:

Staff hours: 1,870-2,270

Dollars: \$6,604,660-\$39,253,235

These numbers are given as a range as the costs and time for many projects and programs will vary depending on the extent and materials used upon implementation.

This report does not recommend the City of Sunnyvale implement every action item given. Instead, it recommends to implement as many as is prudent from each E. Many of these action items can be funded through grant programs and joint venture opportunities.

## 2. Engineering Recommendations

---

### Why is Engineering Important?

*“The most visible and perhaps most tangible evidence of a great place for bicycling is the presence of infrastructure that welcomes and supports it. Survey after survey shows that the physical environment is a key determinant in whether people will get on a bike and ride. The most advanced Bicycle Friendly Communities... have a well-connected bicycling networks, consisting of quiet neighborhood streets, conventional and protected bike lanes, shared use trails, and policies to ensure connectivity and maintenance of these facilities. Secure, convenient and readily available bike parking is also a key component.”<sup>2</sup>*

### Existing Conditions

The City of Sunnyvale has made great investments in improving bicycling conditions through engineering. With road diets on Mathilda Avenue to add buffered bicycle lanes and requiring new development to install bicycle parking, Sunnyvale is beginning to make a statement about their investment to a healthier community through active transportation. The following highlights the key recommendations towards Silver and Gold Status.

### Silver Status Action Items

These were developed from best practices and Silver-level BFCs and may not be applicable in the future

- ◆ Include bicycle facilities identified in the Bicycle Plan on all roadway projects.
- ◆ Develop and implement implementation guidance for inclusion of bicycle facilities.
- ◆ Incorporate bicycle facilities in the City’s standard details.
- ◆ Offer and promote annual FHWA/NHI training courses for all engineers and planners.
- ◆ Send staff to all VTA and MTC sponsored bicycle specific training.
- ◆ Offer and promote regular lunchtime APBP webinars.
- ◆ Develop and implement an implementation checklist.
- ◆ Incorporate best practice bicycle facility design in the City’s design guidelines.
- ◆ Regularly send staff to bicycle related training.
- ◆ Develop an internal training course for all transportation staff.
- ◆ Improve access across barriers and improve existing crossings.
- ◆ Update code to that similar to those in the APBP Bicycle Parking Guidelines 2nd Edition.
- ◆ Identify and prioritize key bicycle parking demand locations and install at least two on-street bicycle parking corrals.

---

<sup>2</sup> <http://bikeleague.org/content/5-es>.



- ◆ Allow for bicycle parking spaces to replace vehicle parking spaces in new developments.
- ◆ Install 100 bike racks. Seek funding through VTA and BAAQMD.
- ◆ Install at least five bicycle lockers at major public centers such as downtown and transit stations.
- ◆ Increase on-street bikeway mileage to at least 102 miles or 25% of roadway network.
- ◆ Identify and prioritize a bicycle boulevard network. Implement high priority bicycle boulevards.
- ◆ Expand the Class II bike lane network to 30 miles for roadways with posted speeds of  $\leq 25$  mph.
- ◆ Expand the bike lane network to 50 miles (or 30%) of roadways with posted speeds of  $>25$ mph and  $\leq 35$ mph.
- ◆ Expand the buffered bike lane network to 16 miles (or 10%) of roadways with posted speeds of  $>25$ mph and  $\leq 35$ mph.
- ◆ Expand the buffered bike lane network to 6 miles (or 20%) of roadways with posted speeds of  $>35$ mph.
- ◆ Install 1.5 miles (or 5%) of protected bike lanes on roadways with posted speeds of  $>35$ mph.
- ◆ Identify which school area corridors are eligible for reduced speed limits of 15 or 20 mph and implement.
- ◆ Identify which corridors are eligible for road diets. Seek funding to implement road diets.
- ◆ Identify conflict areas in need of colored bike lanes and implement.
- ◆ Develop and implement an off-street and on-street bicycle wayfinding system.
- ◆ Retrofit all signalized intersections for bicycle detection.
- ◆ Identify intersections where bicyclists do not have sufficient crossing time and update signal timing to allow safe bicyclist crossing.
- ◆ Identify and prioritize locations for advance stop bars.

- ◆ Identify conflict areas in need of colored bike lanes and implement.
- ◆ Include equity as a project evaluation criteria to ensure low income and minority neighborhoods receive bicycle improvements.
- ◆ Engage low income and minority neighborhoods and communities in all outreach for transportation projects.
- ◆ Include school proximity as a criteria to ensure school areas receive bicycle improvements.

### Gold Status Action Items

These were developed from best practices and Gold-level BFCs and may not be applicable in the future.

- ◆ Require projects where no bicycle facilities are proposed to go through an administrative process through the BPAC.
- ◆ Identify a Bicycle Program Manager who oversees bicycle related projects.
- ◆ Create a set of street design guidelines based on best practices.
- ◆ Expand the number of mixed-use projects outside Downtown.
- ◆ Require Engineering/Public Works staff to attend at least three APBP webinars annually.
- ◆ Install at least four on-street bicycle parking corrals (from the prioritized list).
- ◆ Begin a pilot program for 1-2 years for new developments to meet LEED-ND silver standards.
- ◆ Allow density bonuses for developments which provide end of trip facilities.
- ◆ Require new buildings to have bicycle parking spaces which accommodate cargo bicycles.



- ◆ Begin a pilot program where all new developments install recharging stations for electric assist bicycles.
- ◆ Install 250 bike racks. Seek funding through VTA and BAAQMD.
- ◆ Install at least 12 bike lockers where regular bicycle commuters need secure long-term parking, such as at major employment sites or transit stations.
- ◆ Install at least four on-street bicycle parking corrals (from the prioritized list).
- ◆ Install bike parking for cargo bikes or trailers in the public right-of-way to ensure 10% of spaces accommodate cargo style bicycles.
- ◆ Working with partner agencies, implement the Stevens Creek Trail and the Bay Trail segments in Sunnyvale.
- ◆ Consider over and underpasses with path crossings of roadways with posted speed limits over 24mph.
- ◆ Increase on street bikeway mileage to at least 143 miles or 35% of the roadway network.
- ◆ Implement remaining bicycle boulevards.
- ◆ Expand the Class II bike lane network to 40 miles for roadways with posted speeds of  $\leq 25$  mph.
- ◆ Expand the bike lane network to 65 miles (or 40%) of roadways with posted speeds of  $>25$ mph and  $\leq 35$ mph.
- ◆ Expand the buffered bike lane network to 32 miles (or 20%) of roadways with posted speeds of  $>25$ mph and  $\leq 35$ mph.
- ◆ Expand the buffered bike lane network to 12 miles (or 40%) of roadways with posted speeds of  $>35$ mph.
- ◆ Install 3 miles (or 10%) of protected bike lanes on roadways with posted speeds of  $>35$ mph
- ◆ Implement road diets identified in Silver Action.
- ◆ Develop citywide wayfinding for bicyclists citywide.
- ◆ Identify locations where bicycle signal heads are appropriate and seek funding to implement.
- ◆ Identify candidate corridor(s) for green wave for bicyclists and implement.
- ◆ Identify exceptional candidate for bike box and submit a request to experiment to FHWA and CTCDC.
- ◆ Remove right corner islands where appropriate.
- ◆ Remove vehicle parking minimums.
- ◆ Inspect bicycle facilities regularly.
- ◆ Trim trees and shrubs adjacent to bikeways every 1-3 years.
- ◆ Increase street sweeping on roadways with major bicycle routes to weekly in the fall.
- ◆ Purchase a small mechanical sweeper to sweep off-street paths.
- ◆ Install bike repair stations.

The following table outlines BFC application questions (2015), current status in Sunnyvale and recommendations towards Silver and Gold Status. Questions 1-19 are demographic and city information and not included in this report. Please note that some engineering cost estimates include contingency and the following “soft” costs: 5% for traffic control, 5% for mobilization, 15% for design and 10% for construction management.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>20</b>	<b>Does your community currently have any of the following policies in place? Check all that apply. Local complete streets policy, Local bicycle routine accommodation policy, Neither</b>	Complete Streets policy with accommodation included.	No change.	No change.	--
20a	When was it adopted?	2009	--	--	--
20b	Provide a link or copy of the legislation or policy	<a href="http://sunnyvale.ca.gov/Portals/0/Sunnyvale/DPW/Transportation/AllocationofStreetSpace42809.pdf">http://sunnyvale.ca.gov/Portals/0/Sunnyvale/DPW/Transportation/AllocationofStreetSpace42809.pdf</a>	--	--	--
20c	Since the adoption of the legislation or policy, what percentage of the implemented road projects (where bicycle facilities were considered) includes bicycle facilities?	100%	No change.	No change.	--
20d	What tools are in place to ensure policy compliance?	BPAC, Residents, CIP selection criteria, City Council, City staff	No change.	No change.	--
	- Requirement to go through an administrative process if no bicycle/pedestrian facilities are proposed	No.	No change.	Require projects where no bicycle facilities are proposed to go through an administrative process through the BPAC.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Implementation Guidance	No.	Develop and implement implementation guidance for inclusion of bicycle facilities.	No change from Silver.	20-35 hours of staff time.
	- Design Manual	No.	Incorporate bicycle facilities in the City's standard details.	No change from Silver.	40-50 hours of staff time.
	- Training	Yes.	Offer and promote annual FHWA/NHI training courses for all engineers and planners. Send staff to all VTA and MTC sponsored bicycle specific training. Continue to offer and promote regular lunchtime APBP webinars.	In addition to Silver actions: Require Engineering/Public Works staff to "attend" at least three APBP webinars annually.	NHI Trainings are \$50 per participant for web-based training, and up to \$875 for two-way instructor-led trainings. About \$300/person for trainings. APBP memberships are \$110/year with 20% discounts for 5+ people. One member is sufficient for presenting webinars.
	- Oversight by Bicycle Program Manager	No.	--	Identify a Bicycle Program Manager who oversees bicycle related projects.	--
	- Implementation Checklist	No.	Develop and implement an implementation checklist.	No change from Silver.	10-20 hours of staff time.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- None of the above		--	--	--
<b>21</b>	<b>Does your community have bicycle facility selection criteria that increases separation and protection of bicyclists based of levels of motor vehicle speed and volume?</b>	None.	Adopt selection criteria for increased levels of separation between bicyclists and motor vehicles based on vehicle speed and volume.	No change from Silver.	10-20 hours of staff time.
<b>22</b>	<b>Does your community currently have any of the following additional policies in place? (if yes, please describe)</b>	See Below.	--	--	--
	- Design manual that ensures the safe and appropriate accommodation of bicyclists in every new road project	CA-MUTCD and reference to NACTO guides. City policy is to follow Federal and State standards.	No change.	No change.	--
	- Streetscape design guidelines	Yes, City Design Standards for downtown/sense of place roadways with multiple modes. For other projects, NACTO guides are used.	No change.	No change.	--
	- Mixed use zoning	Yes	No change.	No change.	--
	- Form based/design based codes	No	Create and adopt design guidelines or form based codes.	Create and adopt design or form based codes.	100-200 hours of staff time.
	- Connectivity policy or standards	<a href="#">Yes</a> , Bike Plan and General Plan. General Plan N1.3.3, N1.13.5; Bike Plan BP.A1 - BP.A5, BP.B2, and BP.B4.	No change.	No change.	--
	- Policy to preserve abandoned rail corridors for multiuse trails	N/A	No change.	No change.	--
	- Other?	--	--	--	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>23</b>	<b>How do you ensure your engineers and planners accommodate bicyclists according to AASHTO, MUTCD and NACTO standards?</b>	--	--	--	--
	- Offer FHWA/NHI Training Course	No.	Offer and promote annual FHWA/NHI training courses for all engineers and planners.	No change from Silver.	NHI Trainings are \$50 per participant for web-based training and up to \$875 for two-way instructor-led trainings.
	- Hire outside consultants to train staff	Yes.	No change.	No change.	--
	- Send staff to bicycle specific conferences/training	Yes. Annually or as needed. Participated in NACTO training in 2015 at VTA.	--	Send staff to all VTA and MTC sponsored bicycle specific training.	--
	- APBP webinars	Yes. As needed. Not required.	Continue to offer and promote regular lunchtime APBP webinars.	Require Engineering/Public Works staff to attend at least three APBP webinars annually.	APBP memberships are \$110/year with 20% discounts for 5+ people. One member is sufficient for presenting webinars.
	- Require project consultants to have bike/ped qualifications	Yes.	No change.	No change.	--
	- Adopted local design manual	Yes.	Incorporate <a href="#">NACTO</a> Urban Bikeway Design Guide into the Sunnyvale street design guidelines.	Create a set of street design guidelines based on best practices.	40-60 hours of staff time.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Other?	Reference the VTA <a href="#">Bicycle Technical Guidelines</a> .	Develop an internal training course for all transportation staff.	No change from Silver.	20-30 hours to develop course, 6 hours to implement plus 1-2 hours for staff to attend annually.
<b>24</b>	<b>Which of the following significant physical barriers to cycling exist in your community?</b>	--	--	--	--
	- Major highways	Yes.	Identify major highway crossing barriers and work with Caltrans to provide safer bicycle access.	Work with Caltrans to provide separated bikeway crossings where logical and feasible.	40-60 hours of staff time.
	- Bridges that are inaccessible or unsafe for bicyclists	Yes.	Identify bridges that are inaccessible or feel unsafe for bicyclists, identify high priority crossings and work to improve high priority bridges.	Improve remaining bridges for bicycle access.	40-60 hours of staff time.
	- Tunnels that are inaccessible or unsafe for cyclists	--	No change.	No change.	--
	- Large body of water (e.g. river)	--	No change.	No change.	--
	- Roads with bicycle bans	--	No change.	No change.	--
	- Railroad corridors	Yes.	Identify high priority railroad corridor crossing locations and work with CPUC and Caltrain to improve high priority railroad crossings.	Work with CPUC and Caltrain to improve remaining railroad crossings.	40-60 hours of staff time.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Other? (please describe)	--	--	--	--
<b>25</b>	<b>How do you ensure that there are end of trip facilities for bicyclists?</b>	--	--	--	--
	- Bike parking ordinance for existing buildings specifying amount and location	Yes.	No change.	No change.	--
	- Bike parking ordinance for all new developments specifying amount and location	Yes.	Uncouple bicycle parking requirements from vehicular parking requirements (demand is not related). Update code to that similar to those in the APBP Bicycle Parking Guidelines 2 <sup>nd</sup> Edition.	No change from Silver.	40-60 hours of staff time (can be included in overarching bike parking requirements ordinance).
	- Ordinance requiring showers and lockers in existing nonresidential buildings	Not required.	Require nonresidential buildings undergoing major retrofitting (to be determined) to install showers, long-term bicycle parking, and locker facilities.	No change from Silver.	Included in overarching bike parking requirements ordinance.
	- Ordinance requiring showers and lockers in new nonresidential buildings	Not required.	Require showers and lockers in all new nonresidential buildings over a determined size.	No change from Silver.	Included in overarching bike parking requirements ordinance.
	- Building accessibility ordinance (Bicycles are allowed to be parked inside non-residential buildings)	Yes.	No change.	No change.	--



Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Onstreet bike parking/bicycle corrals	Not required.	Identify and prioritize key bicycle parking demand locations and install at least two on-street bicycle parking corrals.	Install at least four on-street bicycle parking corrals (from the prioritized list).	\$3,000-\$5,000 plus 30 hours of staff time.
	- Ordinance that allows bike parking to substitute for car parking	No.	Allow for bicycle parking spaces to replace vehicle parking spaces in new developments.	No change from Silver.	Included in overarching bike parking requirements ordinance.
	- Requirement for new developments to meet LEED Neighborhood Development silver standards or higher	Not required.	No change.	Begin a pilot program for 1-2 years for new developments to meet LEED-ND silver standards.	--
	- Developers are eligible for density bonuses for providing end of trip facilities	Yes.	No change.	No change.	--
	Other?	--	--	--	--
<b>26</b>	<b>Do your standards for bike parking: (if any)</b>	--	--	--	--
	- conform with APBP guidelines?	No.	Adopt APBP bike parking guidelines.	Create bicycle parking standards.	20 hours of staff time.
	- Address the need for parking spaces for cargo bicycles?	No.	Require new buildings to have bicycle parking spaces which accommodate cargo bicycles.	Require new buildings to have bicycle parking spaces which accommodate cargo bicycles.	Included in overarching bike parking requirements ordinance.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Address the need for facilities to recharge electric assist bicycles?	No.	No change.	Begin a pilot program where all new developments install recharging stations for electric assist bicycles.	--
<b>27</b>	<b>What is the total number of public and private bike parking spaces in your community?</b>	Approximately 100 public and 1,200 private.	Install at least 100 bike racks annually. Seek funding through VTA and <a href="#">BAAQMD</a> .	Install at least 250 bike racks annually. Seek funding through VTA and <a href="#">BAAQMD</a> .	\$60,000 annually (assumes \$600 per rack, including installation costs).
27a	What percentage of bike racks conform with APBP guidelines?	All.	No change.	No change.	--
27b	Of the total bike parking available, please specify the percentage of bike parking spaces that are:	--	--	--	--
	- Bike lockers	5% - at City Hall, Library, Community Center, and Sunnyvale Caltrain Station.	Consider installing bicycle lockers at other locations such as major public centers such as downtown and transit stations.	Consider installing bicycle lockers at other locations where regular bicycle commuters need secure long-term parking, such as at major employment sites or transit stations.	\$4,000 each.
	- In indoor bike depots (i.e. Bikestation)	No public.	Install a secure bike parking area (Bike SPA) in Plaza del Sol.	No change from Silver.	\$120,000-\$500,000 depending on size and features.
	- In bike corrals (on-street bike parking)	No public.	Identify and prioritize key bicycle parking demand locations and install at least two on-street bicycle parking corrals.	Install at least four on-street bicycle parking corrals (from the prioritized list).	\$3,000-\$5,000 plus 30 hours of staff time.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Suitable for cargo bicycles or bicycles towing trailers	None.	Install bike parking for cargo bikes or trailers in the public right-of-way to ensure 5% of spaces accommodate cargo style bicycles.	Install bike parking for cargo bikes or trailers in the public right-of-way to ensure 10% of spaces accommodate cargo style bicycles.	Included in overall bike parking installation costs.
	- Include facilities to recharge electric assist bicycles	No public.	No change.	Begin a pilot program where all new developments install recharging stations for electric assist bicycles.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
27c	Approximately what percentage of the following locations have bike racks or storage units: public and private schools; Day care, child care centers and preschools; higher education institutions; libraries; Hospitals and medical centers; transit stations and major bus stops; parks and recreation centers; other government owned facilities; event venues; hotels & restaurants; office buildings; retail stores; Grocery stores; multi-family housing; public housing	Public and private schools = 91-100% Day care, child care centers and preschools = 91-100% Higher education institutions = Unknown Libraries = 91-100% Hospitals and medical centers = Unknown Transit stations and major bus stops = 91-100% Parks and recreation centers = 91-100% other government owned facilities = 91-100% Event venues = Unknown Hotels & restaurants = Unknown Office buildings = 91-100% Retail stores = Unknown Grocery stores = Unknown Multi-family housing = Unknown Public housing = Unknown	TBD	TBD	--
<b>28</b>	<b>Does your community have transit service (bus, light rail, heavy rail)?</b>	Yes.	No change.	No change.	--
28b	What percentage of buses are equipped with bike racks?	100%	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
28a	Are bikes allowed inside transit vehicles?	Sometimes. Driver has the discretion not to allow a bicycle aboard If they believe there are already too many bikes or a bicycle would cause some other access issue.	Work with VTA to allow bicycle accommodation on board at all times. <a href="#">VTA</a> is currently testing new on-bus bike racks.	No change from Silver.	No additional cost.
<b>29</b>	<b>What is the centerline mileage of the existing off-road bicycle network within your community?</b>	12.3	No change.	Working with partner agencies, implement the Stevens Creek Trail and the Bay Trail segments in Sunnyvale.	--
<b>30</b>	<b>How many miles of the following off-street bicycle accommodations do you have?:</b> paved shared-use paths; natural surface shared use paths; singletrack (mountain bike trails)?	Natural = 9.5 Paved = 2.8	No change.	No change.	--
<b>31</b>	<b>What percentage of the paved shared-use paths that are at least 8 feet wide (in centerline mileage) parallel a road?</b>	1.8 miles = 15%	No change.	No change.	--
<b>32</b>	<b>What type of off-street path crossings of roads with posted speed limits above 25 mph are provided for bicyclists and pedestrians?</b> Bike/pedestrian overpasses/underpasses, Path crossing with high visibility markings or signs, Raised path crossings, Refuge islands, Other, Not applicable	Bike/pedestrian overpasses.	No change.	Consider over and underpasses with path crossings of roadways with posted speed limits over 24mph.	--
<b>33</b>	<b>What percentage of all unpaved trails are open to bicyclists?</b>	100%	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
33a	What are the exceptions? (100 word limit)	None.	No change.	No change.	--
<b>34</b>	<b>What is the centerline mileage of your road network (including state owned and private roads)?</b>	409	No change.	No change.	--
<b>35</b>	<b>What is the street network density of your road network? (centerline miles of road per sq. mi. of land area)</b>	18.35	No change.	No change.	--
<b>36</b>	<b>What is the centerline mileage of your on-street bikeway network?</b>	86.35 miles	Current mileage of 86.35 is 21% of roadway network. Recommendation: Increase on-street bikeway mileage to at least 122 miles or 30% of roadway network.	Increase on street bikeway mileage to at least 163 miles or 40% of the roadway network.	\$1,247,750-\$32,085,000 (range of standard Class II to raised concrete Class IV).
<b>37</b>	<b>What percentage of arterial and major collectors have dedicated bicycle facilities that meet AASHTO standards?</b>	100%	No change.	No change.	--
<b>38</b>	<b>What percentage of streets has posted speeds of <math>\leq</math> 25mph?</b>	40%	No change.	No change.	--
38a	On streets with posted speeds of $\leq$ 25mph only, how many miles of each of the following bicycle facilities that meet or exceed AASHTO or NACTO standards do you have? Answer all that apply (in centerline miles).	--	--	--	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Bike boulevards	None.	Identify and prioritize a bicycle boulevard network. Implement high priority bicycle boulevards.	Implement remaining bicycle boulevards.	\$40,000 to identify and prioritize; \$180,000-\$360,000 to implement (assumes 6 miles at \$30,000-\$60,000/mile).
	- Shared lane markings (not counted under Bicycle Boulevards)	None.	Identify and prioritize locations where guidance is needed to provide bicyclists proper lane positioning and to inform drivers to expect bicyclists. Install shared lane markings at high priority locations.	Install shared lane markings at remaining identified locations.	\$15,000 to identify and prioritize; \$5,400 to implement (assumes \$180 each, 2 per block for 15 blocks).
	- Wide paved shoulders (ridable surface $\geq 4$ feet, and minimum clear path of $\geq 4$ feet between rumble strips)	.25 miles	No change.	No change.	--
	- Bike lanes (incl. standard, contra-flow, left-side) (ridable surface $\geq 4$ feet)	20 miles	Expand the Class II bike lane network to 30 miles for roadways with posted speeds of $\leq 25$ mph.	Expand the Class II bike lane network to 40 miles for roadways with posted speeds of $\leq 25$ mph.	\$350,000 (assumes \$35,000 per mile of bike lane).
	- Buffered bike lanes	None.	No change.	No change.	--
	- Protected bike lanes (one-way or two-way)	None.	No change.	No change.	--
	- Raised cycle tracks (one-way or two-way)	None.	No change.	No change.	--



Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>39</b>	<b>What percentage of streets has posted speeds of &gt;25mph and ≤35mph?</b>	40% (or 163 miles)	No change.	No change.	--
39a	On streets with posted speeds of >25mph and ≤35mph only, how many miles of each of the following bicycle facilities that meet or exceed AASHTO or NACTO standards do you have? Answer all that apply (in centerline miles).	--	--	--	--
	- Shared lane markings	.1 mile	No change.	No change.	--
	- Wide paved shoulders (ridable surface ≥4 feet, and minimum clear path of ≥4 feet between rumble strips)	1.5 miles	No change.	No change.	--
	- Bike lanes (incl. standard, contra-flow, left-side) (ridable surface ≥4 feet)	30 miles (or 18%)	Expand the bike lane network to 50 miles (or 30%) of roadways with posted speeds of >25mph and ≤35mph.	Expand the bike lane network to 65 miles (or 40%) of roadways with posted speeds of >25mph and ≤35mph.	\$700,000 (assumes \$35,000 per mile of bike lane).
	- Buffered bike lanes	2 miles (or 1%)	Expand the buffered bike lane network to 16 miles (or 10%) of roadways with posted speeds of >25mph and ≤35mph.	Expand the buffered bike lane network to 32 miles (or 20%) of roadways with posted speeds of >25mph and ≤35mph.	\$1,050,000 (assumes \$75,000 per mile of buffered bike lane).
	- Protected bike lanes (one-way or two-way)	None.	No change.	No change.	--
	- Raised cycle tracks (one-way or two-way)	None.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>40</b>	<b>What percentage of streets has posted speeds of &gt;35mph?</b>	20% (or 82 miles)	No change.	No change.	--
40a	On streets with posted speeds of >35mph only, how many miles of each of the following bicycle facilities that meet or exceed AASHTO or NACTO standards do you have? Answer all that apply (in centerline miles)	--			--
	- Wide paved shoulders (ridable surface ≥4 feet, and minimum clear path of ≥4 feet between rumble strips)	None.	No change.	No change.	--
	- Bike lanes (incl. standard, contra-flow, left-side) (ridable surface ≥4 feet)	30 miles	No change.	No change.	--
	- Buffered bike lanes	2.5 miles (or 5%)	Expand the buffered bike lane network to 6 miles (or 20%) of roadways with posted speeds of >35mph.	Expand the buffered bike lane network to 12 miles (or 40%) of roadways with posted speeds of >35mph.	\$262,500 (assumes \$75,000 per mile of buffered bike lane).
	- Protected bike lanes (one-way or two-way)	None.	Install 1.5 miles (or 5%) of protected bike lanes on roadways with posted speeds of >35mph.	Install 3 miles (or 10%) of protected bike lanes on roadways with posted speeds of >35mph.	\$225,000-\$1,350,000 (assumes \$150,000-\$900,000 per mile of Class IV separated bikeway; range is for flexible delineators to raised concrete buffer).
	- Raised cycle tracks (one-way or two-way)	None.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
41	<p><b>How has your community calmed traffic? Check all that apply.</b></p> <p>Car-free/Car-restricted zones, Shared Space/Home Zone/Living Street/Woonerf, Speed limits 20 mph or less on residential streets, Physically altered the road layout or appearance to calm traffic speeds, Road diets, Other, None, If other, describe (250 word limit)</p>	Speed limit reduced to 15 mph adjacent to Lakewood Elementary School, Road diets, added buffer to existing bikes lanes, Have traffic calming program, physically altered roadway to divert vehicles.	<p>Identify which school area corridors are eligible for reduced speed limits of 15 or 20 mph and implement.</p> <p>Identify which corridors are eligible for road diets. Seek funding to implement road diets.</p>	Implement road diets identified in Silver Action.	<p>20-40 hours of staff time to study speed limit reductions; \$18,000 for sign replacement (assumes \$600/sign for 30 signs).</p> <p>60 hours of staff time for road diet analysis; 100 hours of staff time for public meetings; \$100,000-\$300,000 per mile for restriping and \$4,000/intersection for signal timing modification.</p>

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
42	<b>In what other ways have you improved conditions for bicyclists? Check all that apply.</b> Bike cut-throughs, Roundabouts that accommodate bicycles, Colored bike lanes outside of conflict zones, Removal of on-street car parking, Advisory bike lanes, Off-street wayfinding signage with distance and/or time information, On-street wayfinding signage with distance and/or time information, Signed bike routes, Other, None, If other, describe (250 word limit)	Installed a bike/pedestrian bridges, installed shared lane markings in areas that needed connection between existing bike lanes.	Identify conflict areas in need of colored bike lanes and implement.  Develop and implement an off-street and on-street bicycle wayfinding system.	Develop citywide wayfinding for bicyclists citywide.	40 hours of staff time to identify; \$22,500 to implement (assumes \$75 per linear foot for 10 locations of 5 foot wide green conflict striping and marking).  \$50,000 to develop wayfinding plan; \$400,000-\$500,000 to implement (assumes 2 signs/quarter mile, plus sign cost). Can be done in phases. \$50,000-\$85,000 for first phase.
43	<b>What percentage of your signalized intersections provides the following accommodations for bicyclists? If there are no signalized intersections, write N/A. If other, please describe</b>	About 90% of the signalized intersections are able to detect bicycles and they are marked on the road.	Retrofit all signalized intersections for bicycle detection.	No change from Silver.	\$920,000 (assumes 23 intersections at \$40,000/intersection for video detection).
	- Bicycle Signal Heads	None.	Identify locations where <a href="#">bicycle signal heads</a> are appropriate and seek funding to implement.	Identify locations where <a href="#">bicycle signal heads</a> are appropriate and seek funding to implement.	\$15,000 to identify; \$8,000 to implement (assumes 4 locations at \$2,000 each).

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Green wave for cyclists (a green wave has signals timed or detection for a whole corridor where bicyclists who travel between 10-13 MPH do not stop at a red light the entire corridor)	None.	No change.	Identify candidate corridor(s) for green wave for bicyclists and implement.	--
	- Signals timed for bicycle speeds (individual traffic signals lights detect bicyclists as they approach a yellow light to ensure they have enough time to travel through the intersection without it turning red)	90%	Identify intersections where bicyclists do not have sufficient crossing time and update signal timing to allow safe bicyclist crossing.	No change from Silver.	30 hours of staff time to identify. \$4,000/ intersection to modify.
	- Timed signals	None.	No change.	No change.	--
	- Demand activated signals with loop detector (and marking)	70%	No change.	No change.	--
	- Video or microwave detection for demand-activated signals	30%	No change.	No change.	--
	- Push-buttons that are accessible from the road	None.	No change.	No change.	--
	- Advanced Stop Line or Bike Box	None.	Identify and prioritize locations for advance stop bars.	Identify exceptional candidate for bike box and submit a request to experiment to FHWA and CTCDC.	30 hours of staff time to identify; \$10,000 to implement (assumes 20 locations at \$500 for each stop bar and stop marking).

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
	- Colored bike lanes in conflict areas	1%	Identify conflict areas in need of colored bike lanes and implement.	--	40 hours of staff time to identify; \$22,500 to implement (assumes \$75 per linear foot for 10 locations of 5 foot wide green conflict striping and marking).
	- Refuge islands	5%	Identify and prioritize locations where refuge islands would improve bicyclists crossing. Implement the high priority locations.	Implement the second priority locations.	40 hours of staff time to identify; \$42,000 to implement (assumes 6 locations at \$7,000 each for 10'x16' and median and curb re-construction).
	- Right corner islands (pork chops)	5%	Identify and prioritize locations where right corner islands pose challenge for bicyclists and pedestrians and identify options for removal.	Remove right corner islands where appropriate.	60 hours of staff time to identify; \$1,000,000 to implement (assumes 10 locations at \$100,000 each to remove island and slip lane, install sidewalk and landscaping).
<b>44</b>	<b>Has your community ever removed AASHTO-standard bicycle infrastructure?</b>	No.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
45	<b>Which of the following broader transportation policies and programs are in place in your community? Check all that apply</b> Maximum car parking standards, No minimum car parking standards, Paid public parking, Shared-parking allowances, Congestion charges, Prioritization of active mobility in planning and design processes, Other, None	Congestion charges, prioritization of active mobility in planning and design processes.	No change.	Remove vehicle parking minimums.	--
46	<b>What maintenance policies or programs ensure the on-street bicycle facilities (including shoulders) remain usable and safe?</b>	Most streets undergo street sweeping every 2-3 weeks depending on the time of year.	No change.	Inspect bicycle facilities regularly. Trim trees and shrubs adjacent to bikeways every 1-3 years.	--
46a	Sweeping (Before other travel lanes, Same time as other travel lanes, Weekly, Monthly, Quarterly, Annually, Never)	Same time as other travel lanes.	No change.	Increase street sweeping on roadways with major bicycle routes to weekly in the fall.	--
46b	Snow and ice clearance (No snow or ice, Before other travel lanes, Same time as other travel lanes, Within 48 hours of storm, Never)	No snow or ice.	No change.	No change.	--
46c	Pothole maintenance (Within 24 hours of complaint, Within one week of complaint, Within one month of complaint, Never)	Within 1 week of complaint.	No change.	No change.	--



Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
46d	Describe any other maintenance policies or programs for the on-street bicycle network. (100 word limit)	None.	Create a comprehensive bikeway maintenance program where regular roadside vegetation clearance/trimming is included.	No change from Silver.	20-45 hours of staff time to create plan; \$60,000/mile for Class I, \$15,000/mile for Class II, and \$5,000/mile for Class III with current street sweeping program.
<b>47</b>	<b>What maintenance policies or programs ensure the off-street bicycle facilities remain usable and safe? Check all that apply.</b>	--	--	--	--
47a	Sweeping (Weekly, Monthly, Quarterly, Annually, Never)	Never.	No change.	Purchase a small mechanical sweeper to sweep off-street paths.	--
47b	Vegetation Maintenance (Weekly, Monthly, Quarterly, Annually, Never)	Quarterly.	No change.	No change.	--
47c	Snow and ice clearance (No snow or ice, Before roadways, Same time as roadways, Within 48 hours of storm, Never)	No snow or ice.	No change.	No change.	--
47d	Surface repair (Within 24 hours of complaint, Within one week of complaint, Within one month of complaint, Never)	Within 1 week of complaint.	No change.	No change.	--
47e	Describe any other maintenance policies or programs for the off-street bicycle network, if applicable. (100 word limit)	None.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
48	<b>Is there a mechanism in place for cyclists to identify problem intersections or areas to traffic engineers and planners: online reporting, hotline, monthly meeting, other, or none?</b>	Yes, CRM (Customer Response Management system).	No change.	No change.	--
49	<b>What specific bike infrastructure investments have been made in low-income neighborhoods (as defined by local regulations) and minority neighborhoods? If no low-income or minority neighborhoods, write N/A.</b>	--	Include equity as a project evaluation criteria to ensure low income and minority neighborhoods receive bicycle improvements.  Engage low income and minority neighborhoods and communities in all outreach for transportation projects.	No change.	No additional cost.
50	<b>What specific bike infrastructure investments have been made around schools? If no schools, write N/A.</b>	High visibility crosswalks, wayfinding, traffic calming, signage, 15 MPH speed limits around some schools, stop control, traffic signal upgrades, green bike conflict zones.	Include school proximity as a criteria to ensure school areas receive bicycle improvements.  Engage school communities in all outreach for transportation projects.	No change.	No additional cost.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
51	<b>Describe any other amenities or infrastructure improvements that your community provides or requires that create a comfortable and attractive bicycling environment. (500 word limit)</b>	--	No change.	Install bike repair stations. Provide higher separation in higher speed/higher volume roadways. Provide a low stress bicycle boulevard network. Provide bicycle parking at community destinations.	--

### 3. Education Recommendations

---

#### Why is Education Important?

*"Offering a lot of ways for people to get the skills and confidence to ride is key to building great places for bicycling. At the community level this begins with bicycle-safety education being a routine part of public education. Communities, businesses and campuses can offer options for adults looking to improve their biking skills with everything from online tips, brown bag lunch presentations and in-depth on-bike training opportunities. The League's Smart Cycling program, and more than 2,000 League Cycling Instructors around the country, are a great resource in delivering high quality education programs. It is also vital to make motorists and cyclists aware of their rights and responsibilities on the road through public education campaigns that promote the Share the Road message."*<sup>3</sup>

#### Existing Conditions

The City of Sunnyvale and its partners have made great investments in improving bicycling conditions through education. With events such as Bike Rodeos and "Free Bike Repair" days, Sunnyvale is helping future generations understand the joy and ease of bicycling. The following highlights the key recommendations towards Silver and Gold Status.

#### Silver Status Action Items

These were developed from best practices and Silver-level BFCs and may not been applicable in the future.

- ◆ Work with Sunnyvale School District to offer bicycle education at all public elementary schools.
- ◆ Work with Sunnyvale School District to offer bicycle education at all public middle schools.
- ◆ Offer traffic skills courses twice a year.
- ◆ Work with SVBC to offer bicycling courses which target women, Seniors, Families with toddlers and young children, Non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations),

University students, LGBTQIA, ADA community, and/or the Homeless community.

- ◆ Provide at least one class.
- ◆ Make Smart Cycling Education videos available on the City website.
- ◆ Offer a League Cycling Instructor Seminar every two years.
- ◆ Encourage more community members to become LCIs with the goal of having four.
- ◆ Invite LCIs to teach one class in the above mentioned two year cycle.
- ◆ Create a share the road campaign with educational videos on the City and school district's websites, flyers for families

---

<sup>3</sup> <http://www.bikeleague.org/content/5-es>.

from the school district, utility bill insert, social media, and billboards.

- ◆ Update the City BPAC website page to be a “bicycling” page with resources and BPAC information.

### Gold Status Action Items

These were developed from best practices and Gold-level BFCs and may not been applicable in the future.

- ◆ Work with Sunnyvale School District to offer bicycle education at all public high schools.
- ◆ Partner with SVBC or REI to offer family bicycling classes in Sunnyvale.
- ◆ Partner with SVBC to offer commuter classes at local companies as a part of employee orientation.
- ◆ Offer bicycling course which target women, Seniors, Families with toddlers and young children, Non-English speakers, Minorities/People of Color, Low-income

populations (as defined by local regulations), University students, LGBTQIA, ADA community, and/or the Homeless community.

- ◆ Provide at least 3 classes.
- ◆ Work with SVBC to offer Chinese or other language common in Sunnyvale.
- ◆ Include the Smart Cycling Quick Guide in annual newsletter.
- ◆ Offer the Smart Cycling Quick Guide in City Hall waiting space.
- ◆ Offer an annual League Cycling Instructor Seminar.
- ◆ Encourage more community members to become LCIs with the goal of having six.
- ◆ Work with Sunnyvale PD to develop an adult bicycle ticket diversion program. This is a new law signed by the Governor in September 2015.
- ◆ Offer training to school bus drivers, driver’s education students, and private commercial drivers.

The following table outlines BFC application questions (2015), current status in Sunnyvale and recommendations towards Silver and Gold Status.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>52</b>	<b>What percentage of your public and private elementary schools offer regular bicycle education?</b>	11%	Work with Sunnyvale School District to offer bicycle education at all public elementary schools.	No change from Silver.	No additional cost.
52a	Which type of bicycle education is offered to elementary students?: Bicycle education is a routine part of the PE curriculum, Bicycle rodeo(s), Bicycle safety presentation, Bicycle-related after-school program, Bicycle summer camp, Other	Bicycle education to kindergarten, 2nd, and 4th grade students. Bike rodeos are hosted for 4th and 5th grade students at grant funded schools. Education is offered by public safety officers (SPD) and the Traffic Safe Community Network (Santa Clara County Public Health).	Work with Sunnyvale School District to offer bicycle education at all public elementary schools.	No change from Silver.	No additional cost.
<b>53</b>	<b>What percentage of your public and private middle schools offer regular bicycle education?</b>	50% of middle schools.	Work with Sunnyvale School District to offer bicycle education at all public middle schools.	No change from Silver.	No additional cost.
53a	Which type of bicycle education is offered to middle school students?: Bicycle education is a routine part of the PE curriculum, Bicycle rodeo(s), Bicycle safety presentation, Bicycle-related after-school program, Bicycle summer camp, Other (If other, please describe)	Bicycle and pedestrian education in class. Host Bike Rodeos for 6th grade at 3 grant funded schools.	Work with Sunnyvale School District to offer bicycle education at all public middle schools.	No change from Silver.	No additional cost.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>54</b>	<b>What percentage of your public and private high schools offer regular bicycle education?</b>	50% of high schools.	No change.	Work with Sunnyvale School District to offer bicycle education at all public high schools.	--
54a	Which type of bicycle education is offered to high school students?: Bicycle education is a routine part of the PE curriculum, Bicycle rodeo(s), Bicycle safety presentation, Bicycle-related after-school program, Bicycle summer camp, Other	Campus provides regular bike safety tips during the morning announcements. Hosted multiple "free bike repair days" where the students got their bikes fixed but also learned how to fix their bikes themselves.	No change.	Work with Sunnyvale School District to offer bicycle education at all public high schools.	--
<b>55</b>	<b>Are bicycles provided to low-income students by the school district, police, non-profit, or other entity to allow every student to participate in hands-on bicycle education instructions?</b>	Yes.	No change.	No change.	--
<b>56</b>	<b>Outside of schools, how are children taught safe cycling skills?:</b> Learn to ride classes, Bike clinics or rodeos, ABCs of Family Biking, family bike show-and-tell, or similar program focused on families with toddlers and young children, Youth bike clubs, Youth development road or cross racing teams, Youth development mountain bike racing teams, Helmet fit seminars, Safety town area, Trail riding classes, Other, None of the above	Sunnyvale DPS (Police) has a Juvenile Traffic Diversion Program. Also, helmets are fitted and distributed to students at health fairs (Sunnyvale DPS and with the SRTS program).	No change.	Partner with <a href="#">SVBC</a> or REI to offer family bicycling classes in Sunnyvale.	--



Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>57</b>	<b>How many times per year are the following adult bicycling classes offered in your community:</b> Traffic Skills 101 classes (includes both classroom and on-bike instruction), Cycling Skills classes (classroom course), Commuter classes, Bicycle maintenance classes or workshops	Traffic skills = annually	Offer traffic skills courses twice a year.	Partner with SVBC to offer commuter classes at local companies as a part of employee orientation.	\$16,200 annually (assumes \$8,100/two-part course twice a year). Implement at least 5 years.
57a	Do any of the above classes specifically target: Women, Seniors, Families with toddlers and young children, Non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations), University students, LGBTQIA, ADA community, Homeless community	No.	Work with SVBC to offer bicycling courses which target women, Seniors, Families with toddlers and young children, Non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations), University students, LGBTQIA, ADA community, and/or the Homeless community. Provide at least one class.	Offer bicycling course which target women, Seniors, Families with toddlers and young children, Non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations), University students, LGBTQIA, ADA community, and/or the Homeless community. Provide at least 3 classes.	\$8,100.
57b	If there are bicycle education classes targeting Non-English speakers, please list the language(s) that the course and materials are provided in.	Spanish.	No change.	Work with SVBC to offer Chinese or other language common in Sunnyvale.	--
<b>58</b>	<b>Is the bicycle education curriculum taught in your community accredited by the League of American Bicyclists?</b>	Yes.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
59	<b>Do you provide any of the following educational materials published by the League of American Bicyclists to community residents and/or businesses?</b> Smart Cycling Quick Guide, Smart Cycling Student Manual, Smart Cycling Education videos, Other	Smart Cycling Quick Guide, Smart Cycling Student Manual on Bike to Work Day.	Make Smart Cycling Education videos available on the City website.	Include the Smart Cycling Quick Guide in annual newsletter. Offer the Smart Cycling Quick Guide in City Hall waiting space.	2-5 hours of IT staff time.
60	<b>Do you offer regular bicycle skills courses for your community engineers and planners that include on bike instruction and in traffic cycling?</b>	Yes. All City staff receive share the road training as part of Defensive Driving training for safety meetings.	No change.	No change.	--
61	<b>Has your community hosted a League Cycling Instructor seminar in the past two years?</b>	No.	Offer a League Cycling Instructor Seminar every two years.	Offer an annual League Cycling Instructor Seminar.	10-15 hours of staff time plus \$20,000 for site coordination and materials plus \$350/ student (16 max).
62	<b>How many League Cycling Instructors (LCI) are in your community? List names.</b>	2. Sherman Lee and Margaret Okuzumi.	Encourage more community members to become LCIs with the goal of having four.	Encourage more community members to become LCIs with the goal of having six.	5 hours of staff time for 5 years.
62a	List League Cycling Instructors that have taught at least one class during the past 12 months. (250 word limit)	No.	Invite LCIs to teach one class in the above mentioned two year cycle.	No change from Silver.	2 hours of staff time annually.
62b	Are there any other active bicycle safety instructors that are not affiliated with the League of American Bicyclists? Please list their names and affiliation.	Lyndsey Marks, Silicon Valley Bicycle Coalition.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
63	<b>Is there a ticket diversion program that allows drivers, cyclists, or both to take a road safety class in lieu of a traffic ticket and fine?</b>	Yes. They are offered by Sunnyvale PD to first-time juvenile offenders of pedestrian and bicycle violations and teaches rules of the road. They are offered when City has 20-25 citations. A new California law allows for bicyclists who are ticketed for certain infractions to attend a class on safe bicycle riding and thus reduce their fines.	No change.	Work with Sunnyvale PD to develop an <a href="#">adult bicycle ticket diversion program</a> . This is a new law signed by the Governor in September 2015.	--
64	<b>Has your community done in the last 18 months to educate motorists and bicyclists on sharing the road safely:</b> public service announcements, Share the Road educational videos on community website/TV channel, Community newsletter/magazine article, info in new resident packet, information for students and parents from the school system, utility bill insert, flyer/handout, info sessions/lunch seminars, bicycle ambassador program, newspaper column/blog on bicycling, dedicated bike page on community website, billboards, share the road signs, share the road information in driver's education, other?	BPAC page on City website, annual utility bill insert.	Create a share the road campaign with educational videos on the City and school districts' websites, flyers for families from the school district, utility bill insert, social media, and billboards.  Update the City BPAC website page to be a "bicycling" page with resources and BPAC information.	No change from Silver.	50-60 hours of staff time and \$150,000-\$200,000 for materials and outreach for campaign.  4-10 hours of IT staff time to update website.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
65	<b>Which of the following groups of professional drivers have training that includes information on sharing the road with cyclists? Circle all that apply:</b> city staff, taxi drivers, transit operators, school bus operators, delivery drivers, other	City staff, transit operators, school bus operators -City staff only receives training upon receiving City Fleet driving permission - City staff also receives general training as part of a bi-weekly safety meeting where driver safety is discussed and includes bicycle safety.	No change.	Offer training to school bus drivers, driver's education students, and private commercial drivers.	--
66	<b>Describe any other education efforts in your community that promote safe cycling?</b>	The City is active In two school-based programs currently, a Safe Routes to School program designed to train school children in safe cycling and bicycle commuting, and a public safety oriented program to teach bicycle driving, rules of the road, and bicycle safety.	No change.	No change.	--

## 4. Encouragement Recommendations

---

### Why is Encouragement Important?

*“Communities... play a critical role in encouraging people to ride by giving them a variety of opportunities and incentives to get on their bikes. This can be done through the celebration of National Bike Month<sup>SM</sup> and Bike to Work Day, producing community bike maps, route finding signage, bicycle-themed celebrations and rides and commuter challenges. Many places are investing in public bike sharing systems and internal fleets, which are a convenient, cost effective, and healthy way of encouraging people to make short trips by bike.”<sup>4</sup>*

### Existing Conditions

The City of Sunnyvale and its partners have begun to make investments in improving bicycling conditions through encouragement programs. Encouragement events such as Bike to Work Day have seen a dramatic increase in bicycling in Sunnyvale paired with the number of bicycle clubs active in the city shows the progress made by the City through encouragement efforts. The following highlights the key recommendations towards Silver and Gold Status.

### Silver Status Action Items

These were developed from best practices and Silver-level BFCs and may not been applicable in the future.

- ◆ Create a trip reduction program and/or parking cash out program.
- ◆ Update bikeway user map.
- ◆ Hold an open streets event.
- ◆ Set goal to increase bike to work day participation by 10% annually.
- ◆ Work with Sunnyvale School District to count Bike to School Day participation and set goal to increase participation annually.
- ◆ Work with Silicon Valley Bicycle Coalition to offer bike valet at community events.
- ◆ Begin a Bike Challenge program.
- ◆ Create a public education campaign about bicycling.
- ◆ Support community members in holding bicycle rides such as Bike Party, Tweed Rides, or Cool Project Bike Tours.
- ◆ In addition to funding Bike to Work Day event, assist in promoting event.
- ◆ Identify and prioritize a bicycle boulevard network and loop. Implement high priority bicycle boulevards.
- ◆ Create a Bicycle Friendly Business (BFB) program to encourage local businesses to apply for BFB awards.
- ◆ Encourage the schools to offer bicycle-related programming.
- ◆ Encourage California South Bay University to improve bicycling infrastructure and programs to apply to be a BFU.
- ◆ Encourage and support community to open a Bike Kitchen.

---

<sup>4</sup> <http://www.bikeleague.org/content/5-es>.

- ◆ Work with Sunnyvale Recreation Department to offer youth programs related to bicycling.
- ◆ Promote and encourage local businesses to participate in Bike to Shop Day.

### Gold Status Action Items

These were developed from best practices and Gold-level BFCs and may not been applicable in the future.

- ◆ Create a trip reduction program and set a goal to reduce vehicle trips.
- ◆ Encourage VTA to develop a smart phone bikeway routing service.
- ◆ Work with Sunnyvale School District to develop Suggested Routes to School maps.
- ◆ Set goal to increase bike to work day participation by 15% annually.
- ◆ Work with Sunnyvale School District to count Bike to School Day participation and set goal to increase participation by 10% annually.
- ◆ Support residents in effort to establish a Kidical Mass.
- ◆ Hold an annual open streets event.
- ◆ Work with Silicon Valley Bicycle Coalition to offer bike valet at large community events.
- ◆ Hold annual community bike ride.
- ◆ Support bicycle event sponsors to market events to women, seniors, non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations), University students, LGBTQIA, ADA community, Homeless community.
- ◆ Work with VTA and MTC to conduct a bike share feasibility study for Sunnyvale.
- ◆ Support Sunnyvale's business community to become Bicycle Friendly Businesses with the goal of having six.

- ◆ Create a Bicycle Friendly Business (BFB) program to encourage local businesses to apply for BFB awards.
- ◆ Create a BFB District.
- ◆ Encourage and support community to open a Bike Kitchen.

The following table outlines BFC application questions (2015), current status in Sunnyvale and recommendations towards Silver and Gold Status.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>67</b>	<b>Do you have a community-wide trip reduction ordinance or program?</b>	Yes.	No change.	No change.	--
67a	Does your trip reduction program use individualized marketing similar to the Portland, OR SmartTrips program to identify and support current and potential bike commuters in your community?	No.	Expand TDM Program beyond employer-based developments to encourage more residents to commute by bicycle.	No change from Silver.	Up to \$300,000 assuming 7,500 households per campaign cycle. This includes printing, postage, and incentives.
<b>68</b>	<b>What mapping and route finding information is available for your community, which has been updated in the last 18 months?:</b> Web-based route finding service, Smart phone app, Printed/digital bicycle network map, Printed/digital mountain bike trails map, Printed/digital greenways and trails map , Printed/digital Safe Routes to Schools map(s)	Printed/digital bicycle network map.	Update bikeway user map.	Encourage VTA to develop a smart phone bikeway routing service.  Work with Sunnyvale School District to develop Suggested Routes to School maps.	Already in development.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
69	<b>How do you promote National Bike Month/your own dedicated Bike Month? Check all that apply:</b> official proclamation, Community-wide Bike to Work Day/Week, Bike to School Day/Week, Bike to Church Day or similar, community rides, mayor-led/Council-led rides, public service announcements, Videos promoting bicycling on community website/TV channel, publish a guide to bike month events, bike month website, commuter challenge, Challenges aimed at students biking to school, Non-commuting related (i.e. errand-running) challenges and programs, National Bike Challenge, bike commuter energizer stations/breakfast, car-free days, CycloFemme Ride, Kidical Mass Ride, open streets/Ciclovía, Sunday Parkways, mentoring program for new riders, bike valet parking at events, bike-themed festival/parade, public education campaign related to cycling, trail construction/maintenance day, other?	City proclamation, Community-wide Bike to Work Day/Week, community ride, publish a guide to Bike Month events, Bike month website, commuter challenge, commuter energizer stations	No change.	No change.	--
69a	How many Open Streets/Ciclovía/Sunday Parkways events were held in 2014?	None.	Hold an open streets event.	No change from Silver.	\$50,000-\$150,000/event depending on size, police presence, and number of volunteers.



Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
69b	How many residents participated in the following events in 2014? Write 'N/A' if no such event occurred in your community. Write 'No Data' if participation numbers are unknown. Bike to Work Day(s), Bike to School Day(s), Open Streets/Ciclovía/Sunday Parkways	Bike to Work Day counts in 2014 = 2,356; 2015 = 2,654. Overall, most cities saw a reduced number of bicyclists in 2015 due to rain. Sunnyvale still saw an increase!	Set goal to increase bike to work day participation annually. Work with Sunnyvale School District to count Bike to School Day participation and set goal to increase participation annually.	Set goal to increase bike to work day participation annually. Work with Sunnyvale School District to count Bike to School Day participation and set goal to increase participation by 10% annually.	1 hour of staff time for each Bike to Work Day. 3 hours of staff time for each Bike to School Day.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
70	<p><b>How do you promote bicycling outside of your official Bike Month?</b></p> <p><b>Check all that apply:</b> Community and charity rides, Mayor-led/Council-led Rides, Videos on bicycling on community website/TV channel, Public Service Announcements, Trail construction or maintenance day, Kidical Mass Ride, Open Streets/Ciclovia/Sunday Parkways, Commuter Challenge, Non-commuting related (i.e. errand-running) challenges and programs, Challenges aimed at students biking to school, National Bike Challenge, Business program that provides discounts for customers arriving by bicycle, Triathlons and bicycle races, Bike commuter events, Car-free days, Publish a guide to community bicycle events, Mentoring program for new riders, Bike valet parking at events, International Bike to School Day in October, Bicycle-themed festivals/parades/shows, Public education campaign relating to cycling (e.g. with a focus on public health or environmental benefits), Community celebration/ride each time a bicycle project is completed, Other, No promotion</p>	Community ride, public service announcements, commuter challenge, International Bike to School Day.	<p>Work with Silicon Valley Bicycle Coalition to offer bike valet at community events.</p> <p>Create a public education campaign about bicycling.</p>	<p>Support residents in effort to establish a Kidical Mass.</p> <p>Hold an annual open streets event.</p> <p>Work with Silicon Valley Bicycle Coalition to offer bike valet at large community events.</p> <p>Hold annual community bike ride.</p>	<p>\$150/event not including canopy or other materials as needed.</p> <p>20-50 hours of staff time and \$120,000-\$200,000 for education campaign.</p>
71	<p><b>List the public cycling events that occur in your community.</b></p>	Health and Safety Fair, Bike to Work Day, Family Fun Bike Ride, Tour de Moffett Park, Earth Day Fair.	Support community members in holding bicycle rides such as Bike Party, Tweed Rides, or Cool Project Bike Tours.	No change from Silver.	1-2 hours of staff time/event.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
72	<b>Are any bicycle events specifically marketed to one or more of the following?:</b> Women, Seniors, Families with toddlers and young children, Non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations), University students, LGBTQIA, ADA community, Homeless community	Families with toddlers and young children.	No change.	Support bicycle event sponsors to market events to women, seniors, non-English speakers, Minorities/People of Color, Low-income populations (as defined by local regulations), University students, LGBTQIA, ADA community, Homeless community.	--
73	<b>How does the municipality sponsor or actively support these events?</b> Organize the event, Fund event, Contribute in-kind funding (i.e. police presence, closing roads, etc.), Assist in promoting the event, Other, No support/ Not applicable	City provides funding and banners for the Sunnyvale City Bike to Work Day energizer stations.	In addition to funding event, assist in promoting event.	No change from Silver.	3-5 hours of staff time per event.
74	<b>Does your local tourism board or chamber of commerce promote bicycling in your area? If yes, describe.</b>	Yes. Awareness of scenic trails in the area via brochures, website.	No change.	No change.	--
75	<b>Are there cycling clubs in your community?</b> Recreational bike clubs, Mountain bike clubs, Friends of the Trail groups, National Mountain Bike Patrol, Racing clubs or teams, Kidical Mass, Family Bike Party, or other family-oriented groups, Other	Recreational bike clubs, Mountain bike clubs, Friends of the Trail groups, Racing clubs/teams, Bike Party.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
75a	List the names of the clubs.	Skyline Cycling Club, Responsible Organized Mountain Pedalers, Friends of the Stevens Creek Trail, Silicon Valley Bicycle Coalition, Almaden Cycle Touring Club, Fremont Freewheelers Bicycle Club, Bay Area Bicycle Coalition, Western Wheelers Bicycle Club, Alto Velo Racing, Bay 101 Racing, Kryki Sports/Audi, Los Gatos Bicycle Racing, RforR/Make A Wish, San Jose Cycling Club, Team Affinity, Third Pillar, San Jose Bike Party.	No change.	No change.	--
<b>76</b>	<b>Does your community have any of the following bicycle amenities:</b> BMX track, Velodrome, cyclocross course, mountain bike park, pump tracks, bicycle-access skate park, loop routes around the community, other?	Bicycle-access skate park.	Identify and prioritize a bicycle boulevard network and loop. Implement high priority bicycle boulevards.	No change from Silver.	\$40,000 to identify and prioritize; \$180,000-\$360,000 to implement (assumes 6 miles at \$30,000-\$60,000/mile).
<b>77</b>	<b>Does your community currently have a bike sharing program that is open to the general public (excluding private bike sharing systems limited to employees of a certain business)?</b>	No.	No change.	Work with VTA and MTC to conduct a bike share feasibility study for Sunnyvale.	--
<b>78</b>	<b>Do you have any current League of American Bicyclists designated Bicycle Friendly Businesses in your community?</b>	Yes. Lockheed Martin Space Systems (Bronze), Advanced Micro Devices (Bronze), LinkedIn Corporation (Gold).	No change.	Support Sunnyvale's business community to become Bicycle Friendly Businesses with the goal of having six.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
78a	Do you have a local Bicycle Friendly Business program?	No.	Create a Bicycle Friendly Business (BFB) program to encourage local businesses to apply for BFB awards.	Create a Bicycle Friendly Business (BFB) program to encourage local businesses to apply for BFB awards.	400 hours of staff time annually plus 25 hours of staff time for materials.
78b	Do you have a Bicycle Friendly Business district?	No.	No change.	Create a BFB District.	--
<b>79</b>	<b>Are there any institutions of higher education in your community?</b>	Yes.	No change.	No change.	--
79a	If yes, please list their names. NOTE: If more than ten institutions, please list the largest five.	California South Bay University, Nine Star University of Health Sciences, The Art Institute of California-Silicon Valley.	No change.	No change.	--
79b	If yes, are you partnering with your local institutions of higher education on bicycle related programming? Please describe. (250 word limit)	No.	Encourage the schools to offer bicycle-related programming.	No change from Silver.	1-2 hours of staff time annually.
79c	If yes, are there any community bicycle programs or campaigns (e.g. enforcement, education, encouragement) targeting college or university students? Please describe. (250 word limit)	No there are no programs.	NA	NA	--
79d	Do you have any current League of American Bicyclists designated Bicycle Friendly Universities in your community?	No.	Encourage California South Bay University to improve bicycling infrastructure and programs to apply to be a BFU.	No change from Silver.	15 hours of staff time.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>80</b>	<b>How many for-profit specialty bicycle retailers (shops dedicated primarily to selling bikes and bike-related equipment) are there in your community?</b>	2	No change.	No change.	--
80a	List their names.	Walt's Cycle and the Bike Fitter.	NA	NA	--
<b>81</b>	<b>Does your community have a bike co-op or non-profit community bike shop?</b>	No.	Encourage and support community to open a Bike Kitchen.	Encourage and support community to open a Bike Kitchen.	2-4 hours of staff time.
81a	If yes, does the shop receive support from the local government? Grants, free or subsidized property/space for a duration of at least 5 years, Contracts for services, e.g. bicycle skills or maintenance education, event support, etc., Free bicycle safety accessories for distribution, e.g. helmets or lights, Provision of abandoned or impounded bicycles for resale, Free PSA or advertising space, Other. If the local government provides grants and/or free/subsidized property/space to the co-op/non-profit community bike shop, please list the annual value for each (in Dollar).	N/A	NA	NA	--
<b>82</b>	<b>Does your community have youth recreation and/or intervention programs centered on bicycling, such as:</b> Trips for Kids chapter, Earn a Bike program, Create a commuter program, other	No.	Work with <a href="#">Sunnyvale Recreation Department</a> to offer youth programs related to bicycling.	No change from Silver.	5-10 hours of staff time annually.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
83	<b>Describe any other programs or policies that your community has used to encourage cycling</b>	Bicycle and pedestrian page on City web site. Bicycle plan policies: "Continue to provide and improve bicycle driver education program for elementary/middle/high school students and adults; "Provide bicycling information for the public"; "Educate motorists about the rights, responsibilities and needs of bicyclists"; "Support the institutionalization of bicycle driver education programs"	Promote and encourage local businesses to participate in <a href="#">Bike to Shop Day</a> .	No change from Silver.	40 hours of staff time, annually.

## 5. Enforcement Recommendations

---

### Why is Enforcement Important?

*"Basic laws and regulations need to govern bicycling and the rules of the road to ensure safety for all road users. With a good set of laws and regulations in place that treat bicyclists equitably within the transportation system, the next key issue is enforcement. Law enforcement officers must understand these laws, know how to enforce them, and apply them equitably to ensure public safety. A good relationship between the bicycling community and law enforcement is essential; for example, a police representative can participate on a Bicycle Advisory Committee to increase awareness on both sides. Similarly, having more police officers on bikes helps increase understanding of cyclists' issues. Having law enforcement partners and great policies in place is essential to promoting bicycling."*<sup>5</sup>

### Existing Conditions

The City of Sunnyvale and its partners have made great investments in improving bicycling conditions through enforcement. By putting police officers on bicycles and giving helmets away to those who need them, Sunnyvale is showcasing its commitment to an active community. The following highlights the key recommendations towards Silver and Gold Status.

### Silver Status Action Items

These were developed from best practices and Silver-level BFCs and may not be applicable in the future.

- ◆ Work with the SPD to identify a law-enforcement point person for the program.
- ◆ Work with SPD to have all officers on bicycles complete a Smart Cycling course.
- ◆ Encourage and support SVBC and local community host annual bike light giveaways before/around Daylight Savings time in fall.
- ◆ Work with SPD to target motorist and bicyclist infractions which most likely lead to crashes.

- ◆ Establish a volunteer bike registration program.

### Gold Status Action Items

These were developed from best practices and Gold-level BFCs and may not be applicable in the future.

- ◆ Work with SPD to have bicyclist point person complete LCI course.
- ◆ Work with the Police Department to implement stolen or impounded bikes recovery system or assistance.

---

<sup>5</sup> <http://www.bikeleague.org/content/5-es>.



The following table outlines BFC application questions (2015), current status in Sunnyvale and recommendations towards Silver and Gold Status.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
84	<b>How does your police department interact with the local cycling community:</b> A police officer is an active member of the bicycle advisory committee, Identified law-enforcement point person to interact with cyclists, Identified law-enforcement point person to Safe Routes to Schools program, No current formal interaction, Other	A police officer is an active member of the bicycle advisory committee, Identified law-enforcement point person to interact with bicyclists, Identified law-enforcement point person to SRTS program.	No change.	No change.	--
85	<b>What kind of training is offered to police officers related to bicyclists?</b> <b>Check all that apply:</b> Basic academy training, International Police Mountain Bike Association training, Law Enforcement Bicycle Association training, National Highway Traffic Safety Administration Law Enforcement Training, Completion of Smart Cycling course by one or more officers, Presentation by League Cycling Instructor or local cyclist, Institute for Police Training and Development bicycle training, Training on racial profiling awareness in multimodal transportation enforcement, Training on bicycle crash types, numbers and locations, Other, No training offered?	Institute for Police Training and Development bicycle training.	Work with SPD to have all officers on bicycles complete a Smart Cycling course.	Work with SPD to have bicyclist point person complete LCI course.	1-2 hours of staff time plus 60 hours of officer time, annually.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>86</b>	<b>What enforcement programs that target improving cyclist safety are in place? Check all that apply:</b> Helmet giveaways, light giveaways, Bike lock giveaways, Targeting motorist infractions most likely to lead to crashes, injuries and fatalities among bicyclists, Targeting cyclist infractions most likely to lead to crashes, injuries and fatalities among bicyclists, Positive enforcement ticketing, Share the road campaigns, Road safety campaigns targeting areas around schools, other?	Helmet Giveaways.	Encourage and support SVBC and local community to host annual bike light giveaways before/around Daylight Savings time in fall.  Work with SPD to target motorist and bicyclist infractions which most likely lead to crashes.	No change from Silver.	\$3,000-\$5,000 (assumes \$3-\$5/light for 1,000 bike lights plus 10-15 hours of staff time for planning and promotion.  60 hours of officer time for targeting motorists.
	- How many citations have been given to motorists in 2014?	16312	No change.	No change.	--
	- How many citations have been given to cyclists in 2014?	86	No change.	No change.	--
<b>87</b>	<b>What percentage of patrol officers are regularly on bikes?</b>	20%	No change.	No change.	--
<b>88</b>	<b>Are any other public safety (e.g. EMS) employees on bikes?</b>	No.	No change.	No change.	--
<b>89</b>	<b>Do police officers report cyclist crash data?</b>	Yes.	No change.	No change.	--
<b>90</b>	<b>Do police officers report potential hazards to traffic engineers and planners to identify sites in need of safety improvements for cyclists?</b>	Yes.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
91	<b>Which of the following safety services and amenities are available in your community? Check all that apply:</b> Emergency call boxes/phones along trails, Trail watch programs/ Trail patrols, Street lighting on most arterials, Street lighting on most non-arterials, Lighting of most shared-use paths, Stolen or impounded bikes recovery system or assistance, Non-mandatory bike registration, other?	Street lighting on most arterials, Street lighting on most non-arterials, trail watch/trail patrol, non-mandatory bicycle registration.	Provide link to National Bike Registry on bicycling webpage.	Work with the Police Department to implement stolen or impounded bikes recovery system or assistance.	6 hours of IT staff time.
92	<b>Are there any local or state ordinances that protect cyclists, such as:</b> Specific penalties for failing to yield to a cyclist when turning, It is illegal to park or drive in a bike lane (intersections excepted), Penalties for motor vehicle users that 'door' cyclists, Ban on cell phone use while driving, Ban on texting while driving, Photo enforcement for red lights and/or speed, Vulnerable road user law, Safe passing distance law, It is illegal to harass a cyclist, other?	Penalties for motor vehicle users that 'door' bicyclists, Ban on cell phone use while driving, Ban on texting while driving, safe passing distance law, it is illegal to park or drive in a bike lane, it is illegal to harass a bicyclist.	No change.	No change.	--

93	<p><b>Do your local ordinances place any restrictions on cyclists, such as:</b>  Local law requires cyclists to use side paths regardless of their usability, Local law requires cyclists to use bike lanes when provided, Local law requires that cyclists are required to ride as far to the right of the road as practicable without exceptions, Local law restricts usage of electric-assist bicycles, Mandatory bike registration, Restrictions on sidewalk riding outside of the Central Business District, Restrictions on sidewalk riding inside the Central Business District, Local or school policies restrict youths from riding to school, Other</p>	<p>State law requires bicyclists to ride as far to the right as possible; state law allows e-bikes 10.56.140. Riding on sidewalks and overhead pedestrian crossings—Prohibited.</p> <p>(a) It is unlawful for any person to ride or operate a bicycle, motor driven cycle or motor scooter upon any sidewalk or upon any overhead pedestrian crossing over any street, roadway, state highway or state freeway that is signed for pedestrian use only within the city except as provided herein. Children under the age of thirteen years must walk their bicycles upon any overhead pedestrian crossing that is signed for pedestrian use only.</p> <p>(b) Children under the age of thirteen years or persons sixty-two years of age or older may ride and operate their bicycles in single file upon any sidewalk, except sidewalks adjacent to schools, store buildings or other buildings used for commercial purposes, subject to their exercising due care and giving any pedestrian the right-of-way. Any individual regardless of age may ride a bicycle on a sidewalk if riding upon the adjacent street would place the cyclist in an unsafe</p>	No change.	No change.	--
----	---	---	------------	------------	----

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
		situation. (Ord. 2721-03 § 6; Ord. 2524-95 § 1; Ord. 1215 § 1, 1961; Ord. 876 § 1, 1961; prior code § 3-2.13).			
	- If there is a restriction on electric assist bikes, describe.	On January 1, 2016, California began to recognize electronic assist bicycles (ebikes) as traditional bikes. <a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160AB1096">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160AB1096</a>	No change.	No change.	--
	- If a local law prohibits cycling on sidewalks, are children exempted?	Children under the age of thirteen years or persons sixty-two years of age or older may ride and operate their bicycles in single file upon any sidewalk, except sidewalks adjacent to schools, store buildings or other buildings used for commercial purposes, subject to their exercising due care and giving any pedestrian the right-of-way. Any individual regardless of age may ride a bicycle on a sidewalk if riding upon the adjacent street would place the cyclist in an unsafe situation. (Ord. 2721-03 § 6; Ord. 2524-95 § 1; Ord. 1215 § 1, 1961; Ord. 876 § 1, 1961; prior code § 3-2.13).	No change.	No change.	--
<b>94</b>	<b>Do you work with neighboring local jurisdictions on making your local bike laws consistent across municipal boundaries?</b>	Yes.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
95	<b>Describe any other enforcement programs or policies relating to cycling</b>	On-bike park and trail patrol, special event bicycle patrols. General Plan policy "Facilitate the safe movement of pedestrians, bicycles, and vehicles." Bike Plan Goal, "Provide for enforcement regarding the rights and responsibilities of cyclists and motorists." Policy "Use bicyclist safety data to inform engineering, enforcement and education." Policy "Ensure that public safety officers are knowledgeable about bicyclist's rights, responsibilities and needs."	No change.	No change.	--

## 6. Evaluation Recommendations

---

### Why is Evaluation Important?

*“Metrics are essential. A comprehensive bicycle master plan, in combination with dedicated funding and active citizen/organizational support is the foundation of a great bicycling community, business or university – indeed, progress without it is difficult. A successful plan focuses on developing a seamless cycling network that emphasizes short trip distances, multi-modal trips and is complemented by encouragement, education and enforcement programs to increase usage. A dedicated Bicycle Program Coordinator and an effective Bicycle Advisory Committee can play an important role in helping decision makers create, implement, and prioritize those bicycle programs and policies.”<sup>6</sup>*

### Existing Conditions

The City of Sunnyvale and its partners have begun to make investments in improving bicycling conditions through evaluation. With a bicycle mode share more than double the nation, Sunnyvale can become a leader in the current healthy community movement which more and more cities and counties are focusing on. The following highlights the key recommendations towards Silver and Gold Status.

### Silver Status Action Items

These were developed from best practices and Silver-level BFCs and may not been applicable in the future.

- ◆ Update Bicycle Plan every 5 years.
- ◆ Develop a public participation plan with a focus on equity and engagement with Sunnyvale’s minority and low-income communities.
- ◆ Update Bicycle Plan to conform to state guidelines (every 5 years). Implement 50%.
- ◆ In next Bike Plan, set annual target goals for implementation.
- ◆ Include equity as a project evaluation criteria to ensure low income and minority neighborhoods receive bicycle improvements.
- ◆ Engage low income and minority neighborhoods and communities in all outreach for transportation projects.
- ◆ Work with VTA to integrate and coordinate bicycle and transit planning.
- ◆ With update to Bicycle Plan, conduct bicycle counts and a community bicycle survey (collect trip purpose, demographics).
- ◆ Work with Sunnyvale School District to administer the National Center for Safe Routes to School Parent Survey on a biannual basis.
- ◆ Establish bike mode share goal of 5%.
- ◆ As part of development of the Bicycle Plan update, conduct a level of stress network analysis.
- ◆ Adopt a Vision Zero policy.
- ◆ Conduct an economic impact study on bicycling in Sunnyvale.

---

<sup>6</sup> Ibid.

- ◆ Conduct speed studies to ensure that the low speed road network (25mph) has a high degree of compliance and implement traffic calming measures and low design speed principles where compliance is low.

### Gold Status Action Items

These were developed from best practices and Silver-level BFCs and may not been applicable in the future.

- ◆ Update Bicycle Plan to conform to state guidelines (every 5 years). Implement 75%.
- ◆ Conduct annual bicycle counts and biannual community bicycle survey (collect trip purpose, demographics).
- ◆ Work with Sunnyvale School District to administer the National Center for Safe Routes to School Parent Survey on a biannual basis.
- ◆ Establish a bicycle mode share of 10%.
- ◆ Evaluate and monitor bicycle-related projects and programs before and after implementation.



The following table outlines BFC application questions (2015), current status in Sunnyvale and recommendations towards Silver and Gold Status.

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>96</b>	<b>Does your community have a comprehensive bicycle master plan or similar section in another document?</b>	Yes.	Update Bicycle Plan every 5 years.	No change from Silver.	\$50,000-\$200,000 every 5 years.
96a	Provide a link to the plan or describe	<a href="http://sunnyvale.ca.gov/Portals/0/Sunnyvale/DPW/Transportation/SunnyvaleBicyclePlan2006.pdf">http://sunnyvale.ca.gov/Portals/0/Sunnyvale/DPW/Transportation/SunnyvaleBicyclePlan2006.pdf</a> .	No change.	No change.	--
96b	- When was it adopted or most recently updated?	2006.	Update Bicycle Plan every 5 years.	No change from Silver.	\$50,000-\$200,000 every 5 years.
96c	How has the community staff reached out to minority and low-income communities (as defined by local regulations) to ensure that they are included in the decision-making process? (250 word limit) If no low-income or minority communities, write N/A.	We have community meetings throughout the City open to all City residents. The meetings are sent to each home within a 2,000 ft. radius of where the project would take place and also posted on our City website and an email sent to neighborhood associations.	Develop a public participation plan with a focus on equity and engagement with Sunnyvale's minority and low-income communities.	No change from Silver.	60-90 hours of staff or consultant time for research, stakeholder outreach, and writing.
96d	Dedicated funding source for implementation?	Yes. Transportation Development Act, Transportation Impact Fees. Primary funding sources for bike project and program implementation are outside grant funds and the City General Fund for staff support costs.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
96e	What percentage of the current bicycle plan has been implemented?	Approximately 30%.	Update Bicycle Plan to conform to state guidelines (every 5 years). Implement 50%.	Implement 75%.	Cost included as part of Bike Plan.
96f	Are you meeting annual target goals for implementation?	The City has not set annual target goals for implementation.	In next Bike Plan, set annual target goals for implementation.	No change from Silver.	No additional cost.
<b>97</b>	<b>What local agencies have a bicycle master plans or similar section in another plans and transportation demand management documents?</b> Transit agency, School District, Parks and Recreation, Other	VTA Bicycle Plan.	No change.	No change.	--
<b>98</b>	<b>What percentage of the total transportation budget – on average - was invested in bicycle projects in FY 2010-2014?</b>	Approximately 20%.	No change.	No change.	--
98a	Do you allocate bicycle-related funding to low-income communities and minority communities?	Yes.	Include equity as a project evaluation criteria to ensure low income and minority neighborhoods receive bicycle improvements.	No change from Silver.	No additional cost.
<b>99</b>	<b>How is bicycle planning integrated with transit planning? If your community does not have a transit system, write N/A.</b>	Coordination is done with VTA. Project funding can be provided by VTA.	No change.	No change.	--
<b>100</b>	<b>How is bicycle planning integrated with affordable housing planning? If no affordable housing, write N/A.</b>	Bicycle Planning is taken into account even with affordable housing as we reference the Bicycle Plan no matter what type of project is being built.	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>101</b>	<b>How does your community collect information on bicycle usage?</b> Automated bicycle counters, Regular statistically valid community bicycle surveys, Travel diaries, Regular manual counts of bicyclists on trails, Regular manual counts of bicyclists on the road, Regular counts of parked bicycles at transit stations (if applicable), Regular counts of parked bicycles at schools, Other, None	Bicycle counts will be collected when vehicle counts are also needed along roadways and intersections.	With update to Bicycle Plan, conduct bicycle counts and a community bicycle survey (collect trip purpose, demographics).  Work with Sunnyvale School District to administer the <a href="#">National Center for Safe Routes to School Student Hand Tally</a> on a biannual basis per MTC guidelines.	Conduct annual bicycle counts and biannual community bicycle survey (collect trip purpose, demographics).  Work with Sunnyvale School District to administer the <a href="#">National Center for Safe Routes to School Parent Survey</a> every three years and the <a href="#">Student Hand Tally</a> on a biannual basis per MTC guidelines.	Cost included as part of Bike Plan.  No additional cost for hand tally and survey.
	- If known (based on your own data collection), what percentage of all utilitarian trips are made by bicycle? Please identify the source.	N/A	N/A	N/A	--
	- If known, how often do residents use a bicycle recreationally?	N/A	N/A	N/A	--
	- If known, what percentage of all bicycle trips are made by women?	N/A	N/A	N/A	--
	- If known, what percentage of children bike to school?	N/A	N/A	N/A	--
	- If known, what percentage of children commute to preschool/daycare by bike (e.g. in a bicycle child seat or bike trailer)?	N/A	N/A	N/A	--
	- Please describe any other relevant results and trends. (250 word limit)	N/A	N/A	N/A	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
102	<b>"According to the American Community Survey, what is the most current journey-to-work data for your community? Tip: Search for topic B08301 (Means of Transportation to Work) for your community on the American FactFinder website (Advanced Search). Choose the most recent data set available for your community. Divide total number of cyclists ("Bicycle") by total number of commuters ("Total") and multiply by 100. Repeat for pedestrians ("Walked") and transit users ("Public transportation [excluding taxicab]").</b>	--	--	--	--
103	<b>Bicycling (in %)</b>	Bicycling = 1.4%.	N/A	N/A	--
104	<b>Walking (in %)</b>	Walking = 0.01%.	N/A	N/A	--
105	<b>Transit (in %)</b>	Transit = 6.4%.	N/A	N/A	--
106	<b>Does your community establish target goals for bicycle use, e.g. a certain level of bicycle mode share? Describe</b>	No.	Establish bike mode share goal of 5%.	Establish a bicycle mode share of 10%.	No additional cost.
106a	Does your community routinely conduct pre/post evaluations of bicycle-related road projects? Describe	No.	No change.	Evaluate and monitor bicycle-related projects and programs before and after implementation.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
106b	Has your community conducted a network analysis to determine what percentage of bicycling trips can be done entirely on low-stress routes and to identify intersections and corridors that represent significant barriers? GIS-based network analysis, Level of Traffic Stress analysis, Bicycle Level of Service for roads, Bicycle Level of Service for Intersections, Multi-modal Level of Service, Other, None	No.	As part of development of the Bicycle Plan update, conduct a level of stress network analysis.	No change from Silver.	Cost included as part of Bike Plan.
<b>107</b>	<b>How many cyclists have been involved in a crash in your community in the past five years involving a motor vehicle?</b>	155	Reduce the number of bicyclist-involved crashes by 33%. This number is based on anticipated mode share goals and Figure 1-2.	Reduce the number of bicyclist-involved crashes by 50%.	Costs included as part of engineering, education, and enforcement costs.
<b>108</b>	<b>How many cyclist fatalities have occurred in your community in the past five years involving a motor vehicle?</b>	2	No change.	No change.	--

Question Number	BFC Application Question	Sunnyvale Now	Action Towards Silver	Action Towards Gold	Silver Cost Estimate
<b>109</b>	<b>Do you have a specific plan or program to reduce cycling crashes involving a motor vehicle?</b> Vision Zero policy (a policy to eliminate traffic fatalities within a specific time frame not to exceed 20 years), Towards Zero Deaths program or similar (a data-driven, interdisciplinary approach that targets areas for improvement and employs proven countermeasures, integrating application of education, enforcement, engineering, and emergency medical and trauma services), Traffic safety plan, Other, None	Yes, SRTS Plan, Pedestrian Plan, Bicycle Plan, Safety audits, and CIP selection criteria have safety elements.	Adopt a Vision Zero policy.	No change from Silver.	40-60 hours of staff time.
109a	Have you done an economic impact study on bicycling in your community?	No.	Conduct an economic impact study on bicycling in Sunnyvale.	No change from Silver.	\$40,000-\$50,000 plus 20 hours of staff time.
109b	Describe any other programs or policies that your community uses to evaluate and/or plan bicycling conditions, programs, and facilities. (500 word limit)	We impose conditions of approval on development projects which could include requesting installation of bike lanes, sharrows, etc. These requests are generated based on staying in compliance with the Sunnyvale Bicycle Plan. Complete Streets Programs.	Conduct speed studies to ensure that the low speed road network (25mph) has a high degree of compliance and implement traffic calming measures and low design speed principles where compliance is low.	No change from Silver.	\$20,000-\$100,000 depending on number of locations studied and methodology (assumes 4 annual studies for 5 years).